

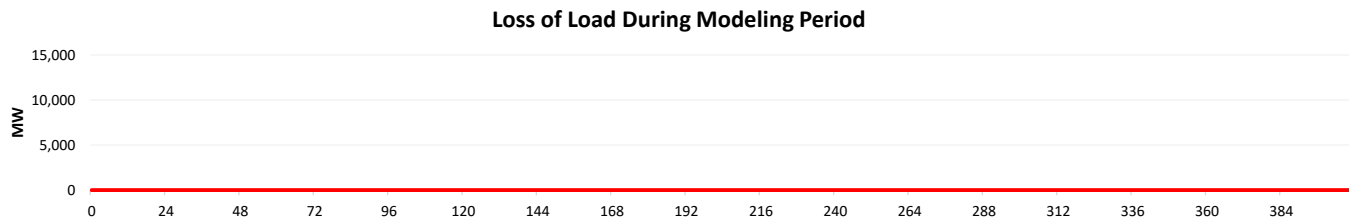
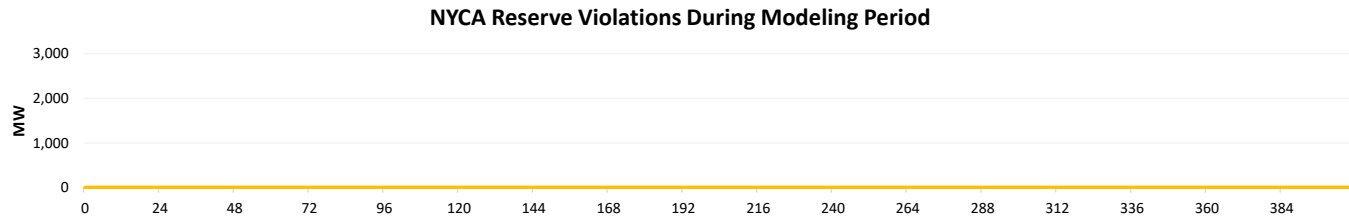
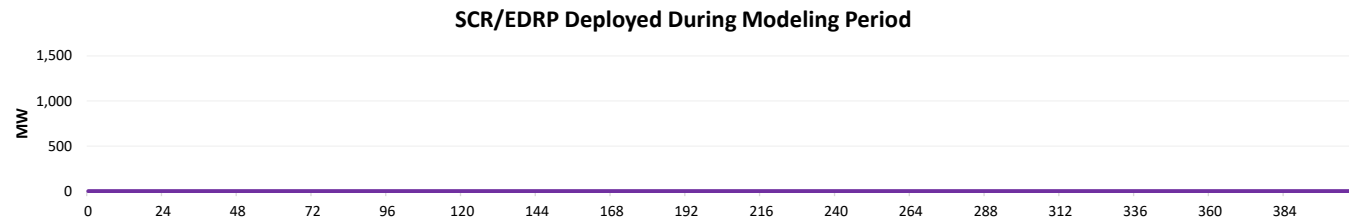
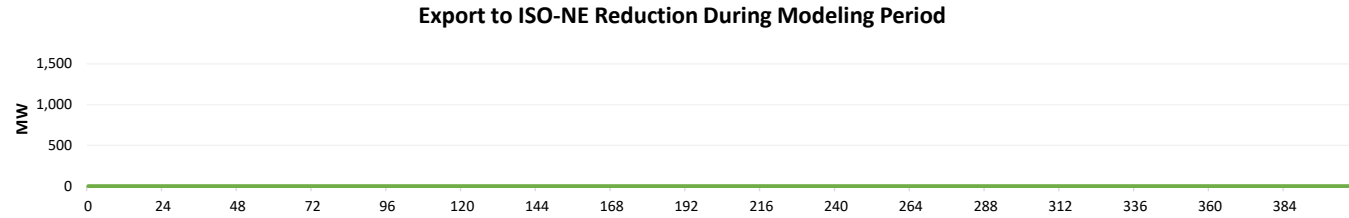
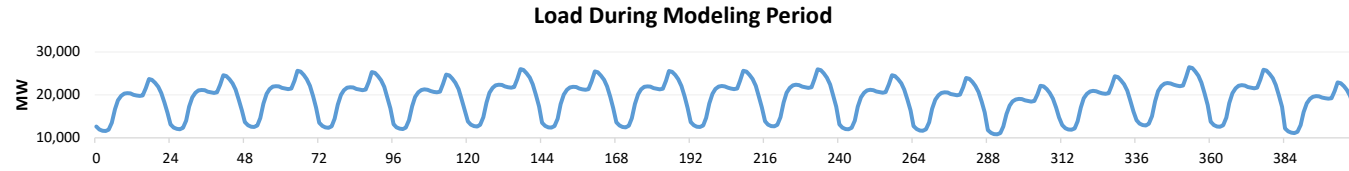
E. Diagnostic Charts for All Cases

Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 1 - PD 1 No Disruptions



Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

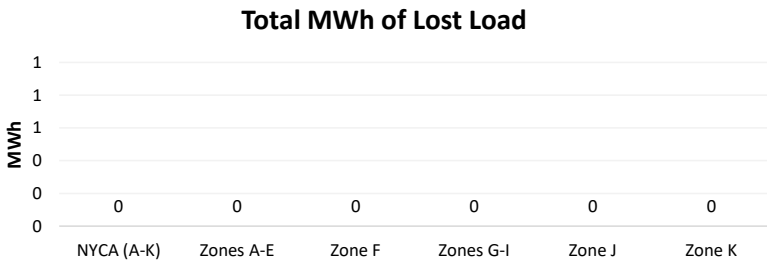
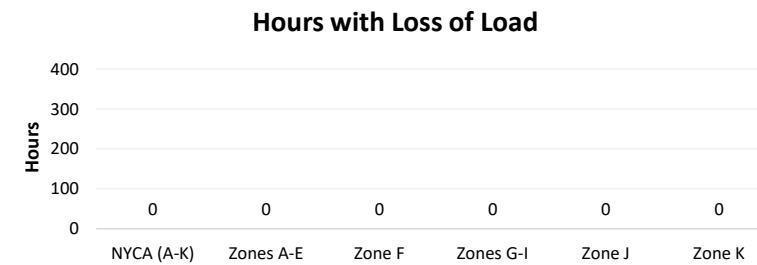
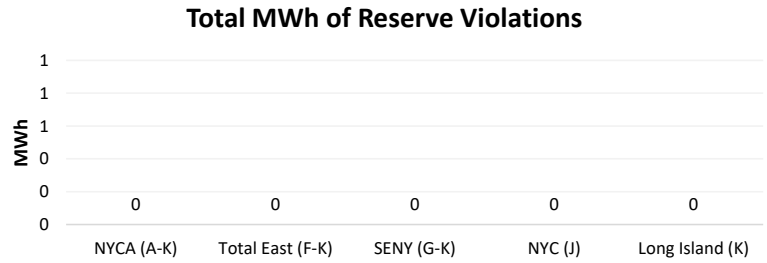
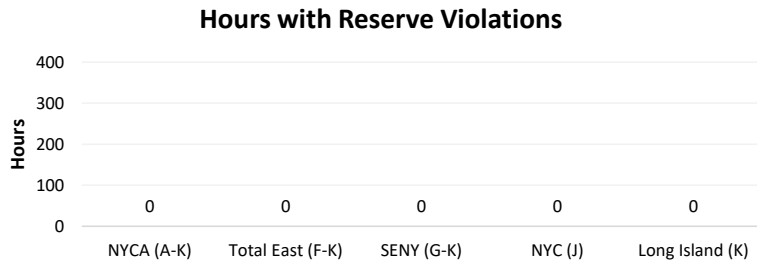
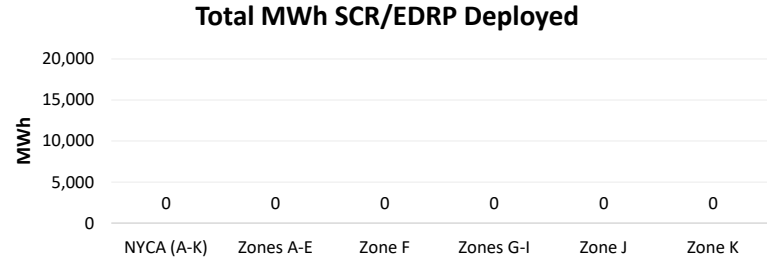
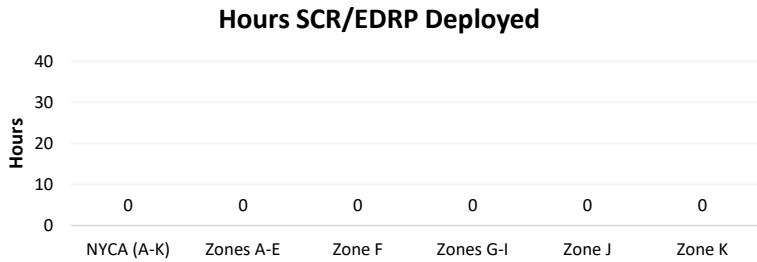
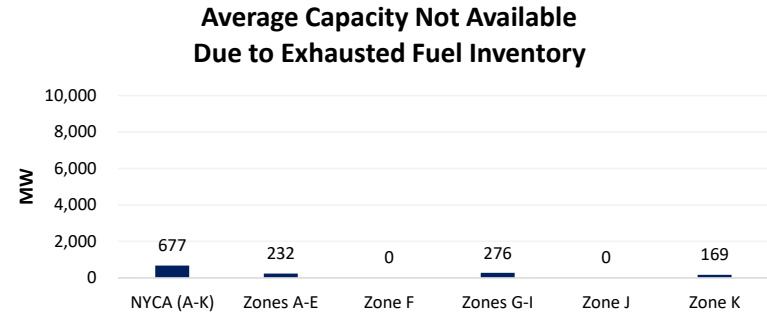
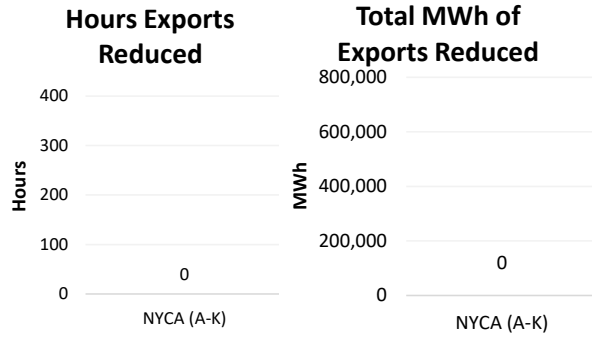
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

Full Period Results Summary

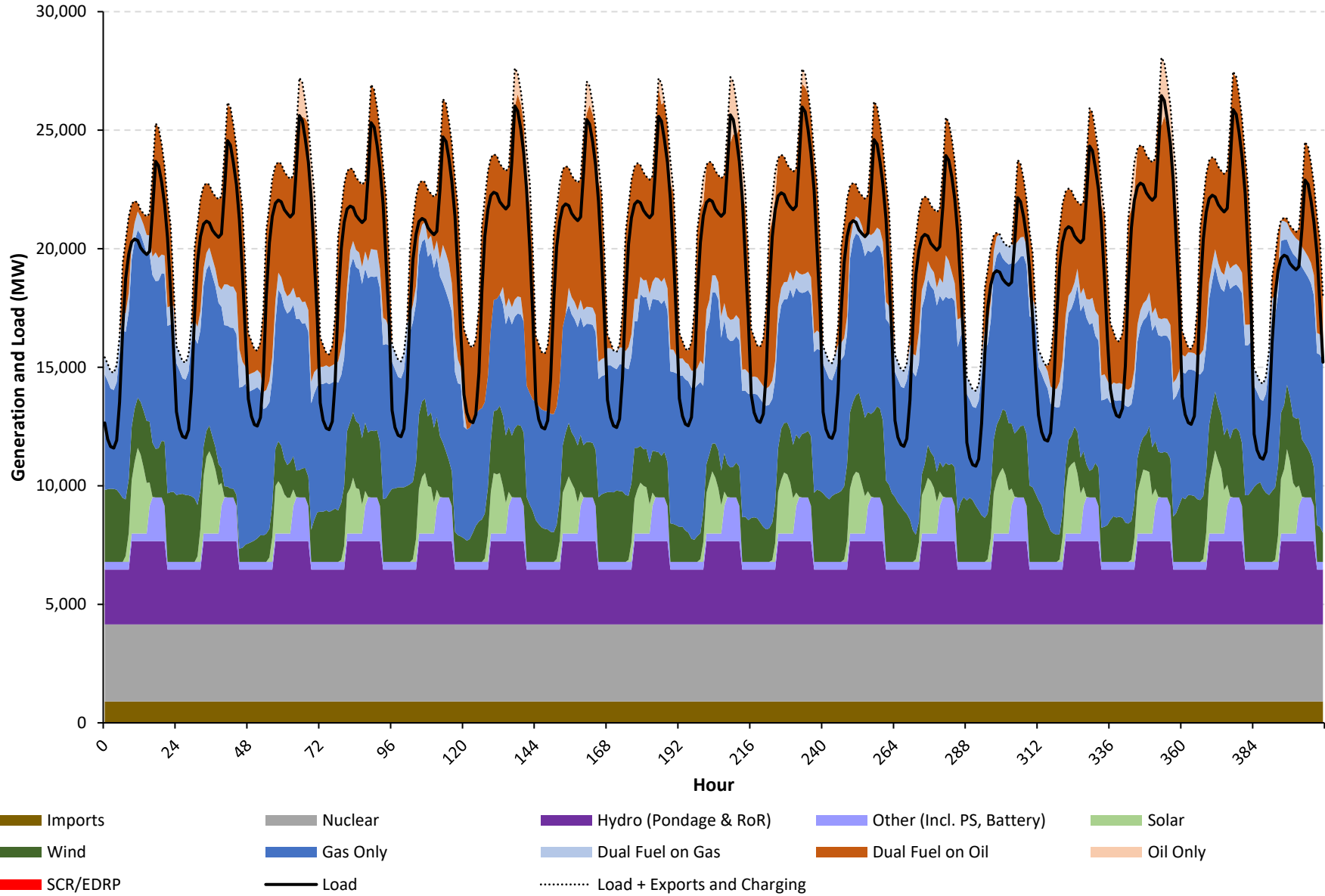
Case Name: Scenario 1 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

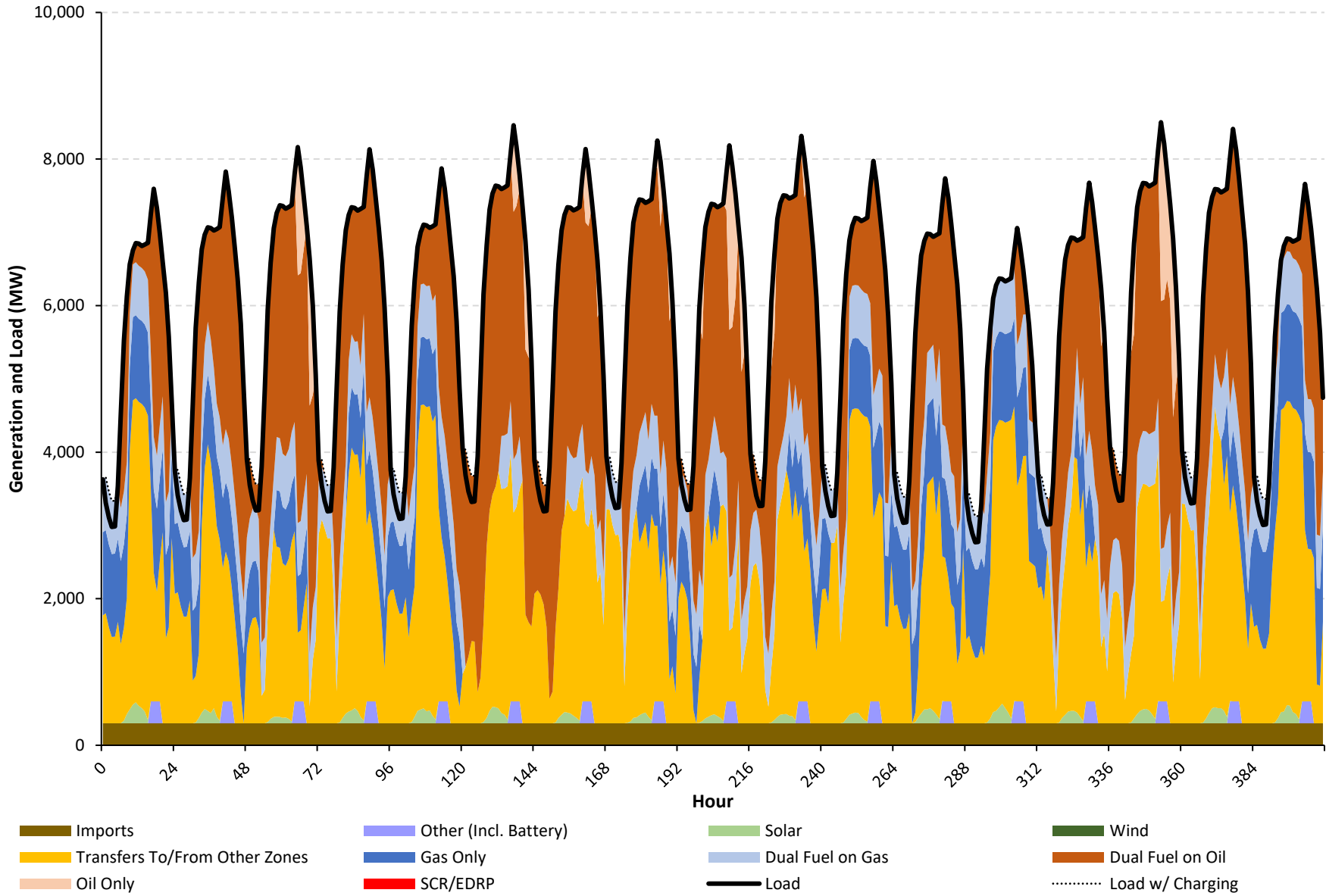


NYCA Hourly Generation (MWh) by Fuel Group

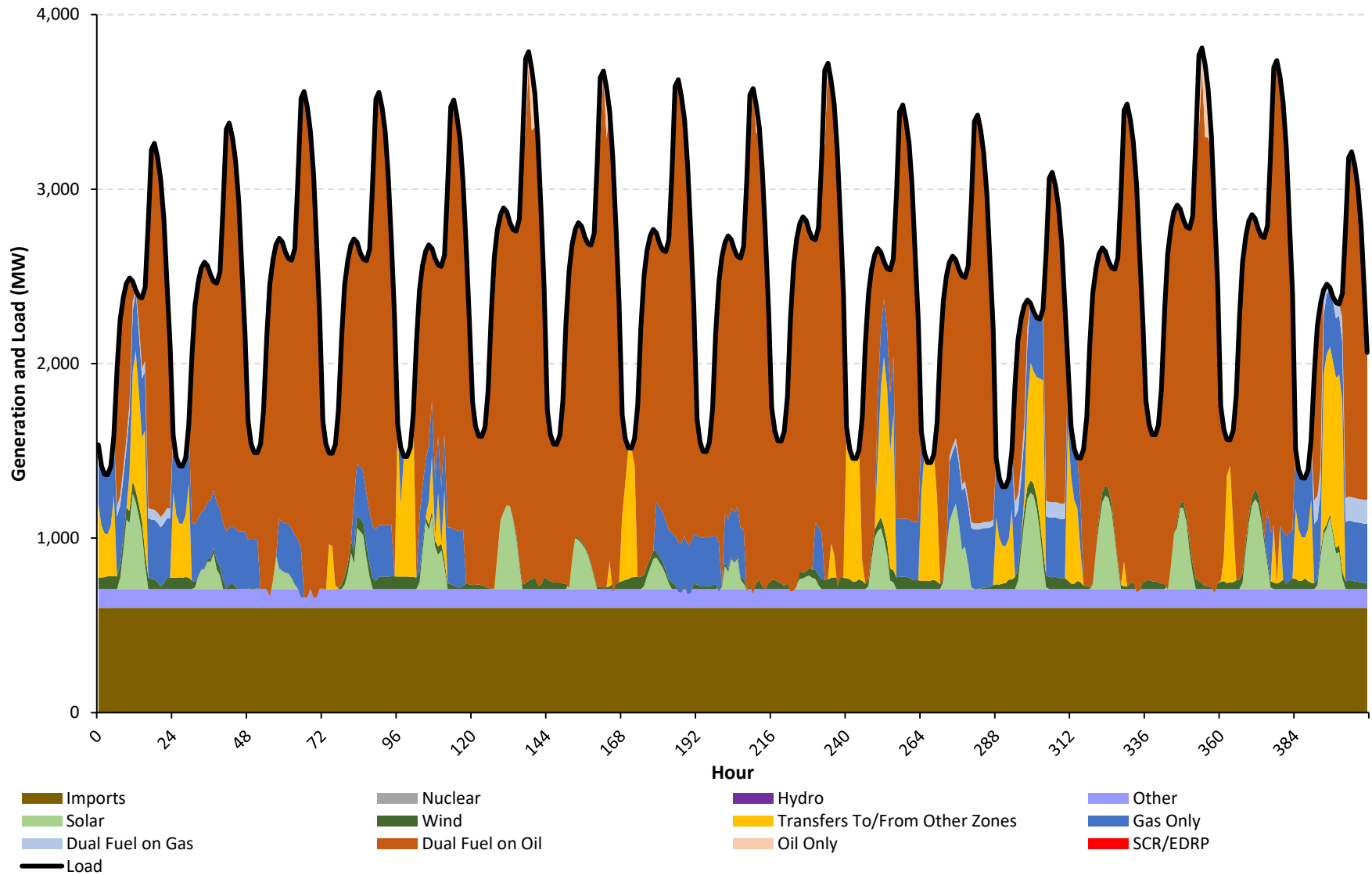
Scenario 1 - PD 1 No Disruptions



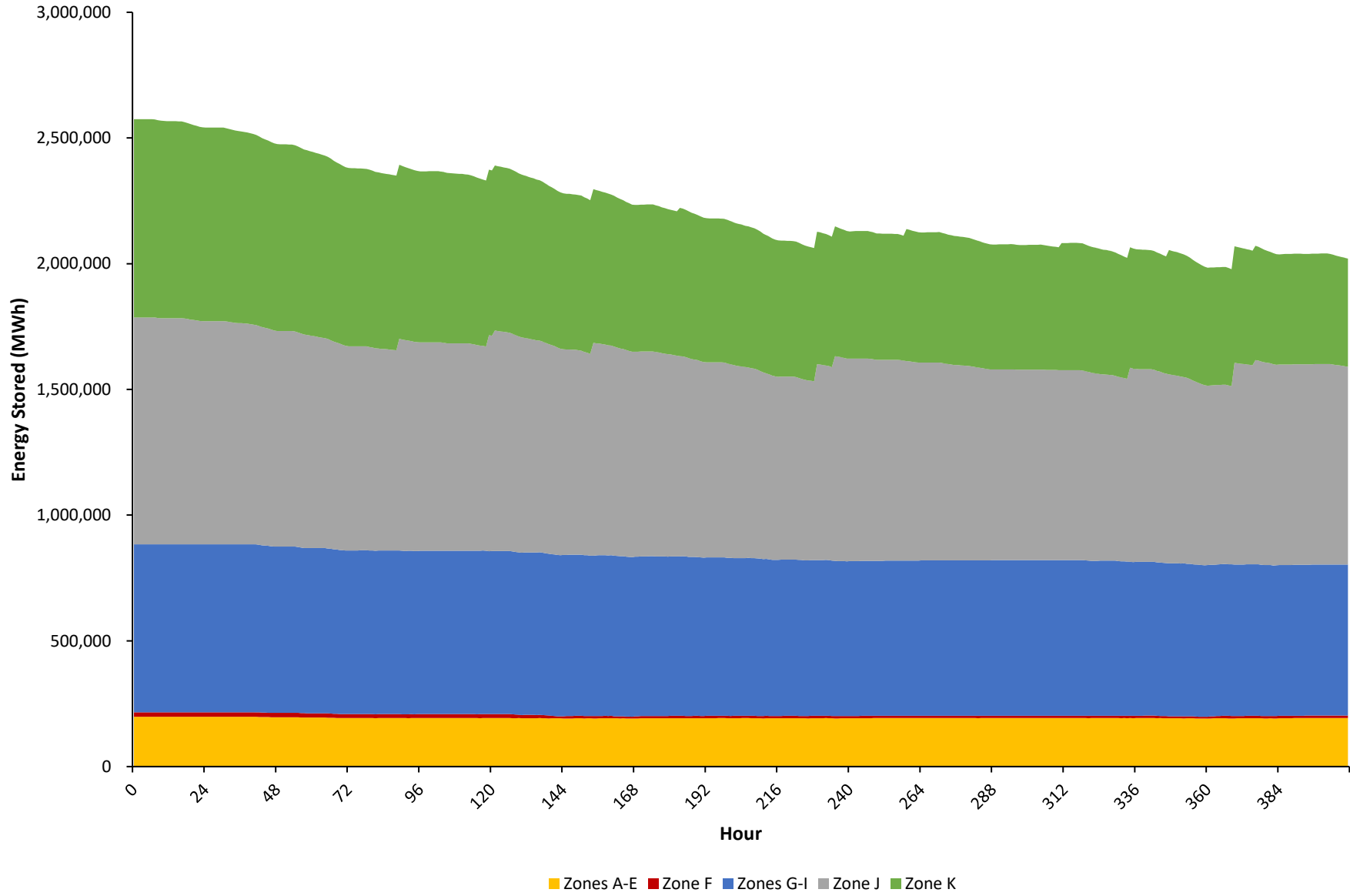
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 1 No Disruptions

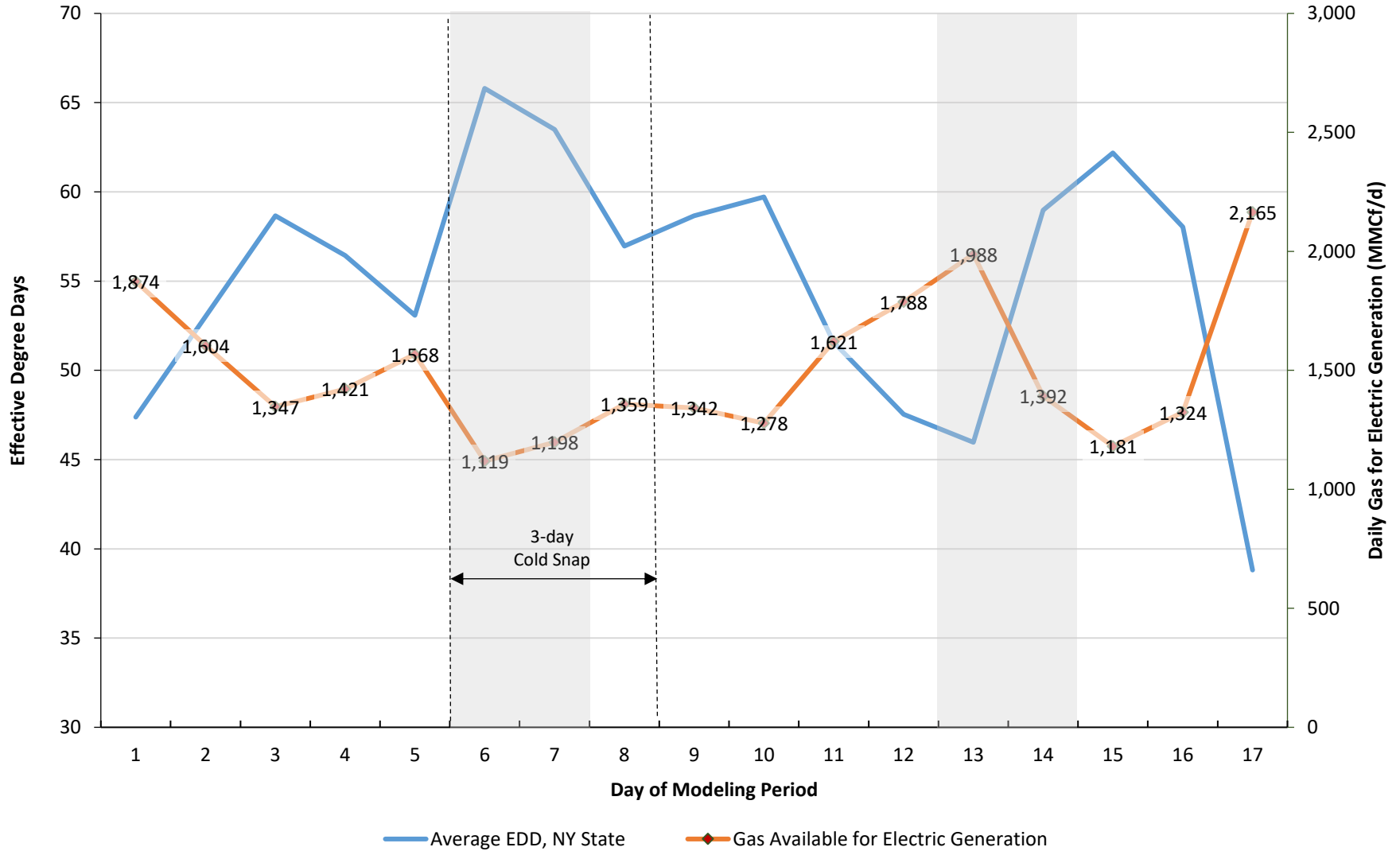


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

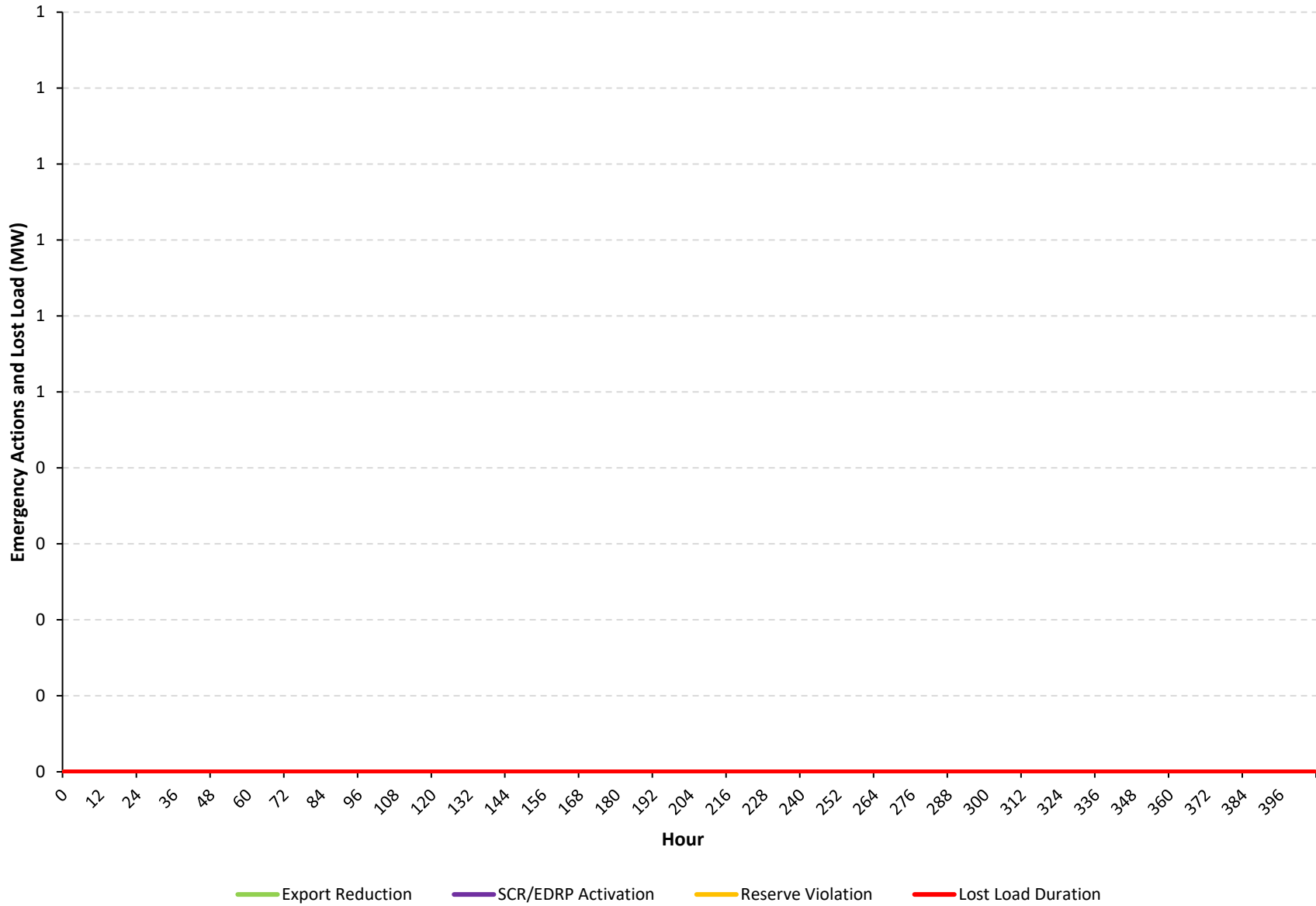
Scenario 1 - PD 1 No Disruptions



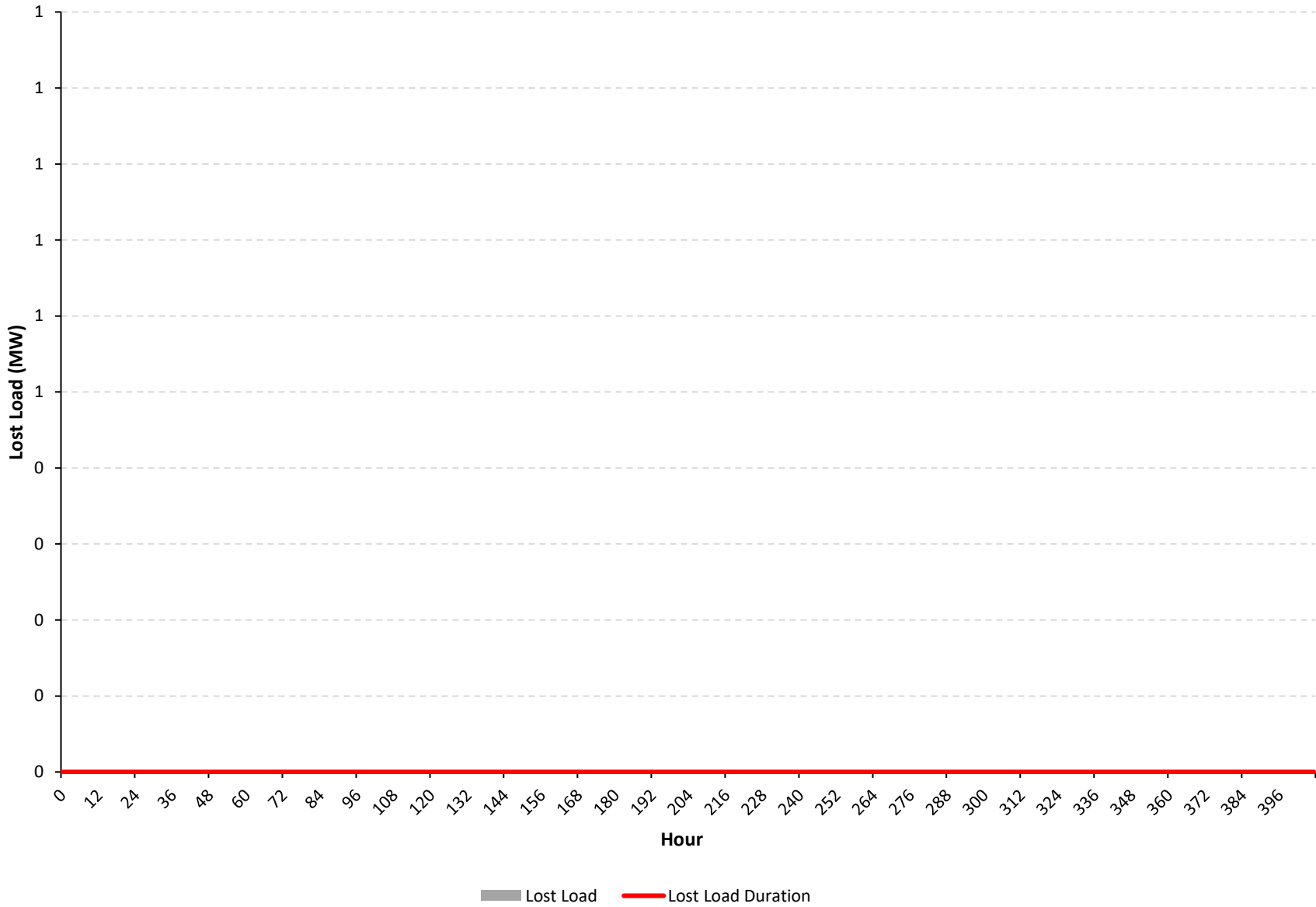
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 1 No Disruptions



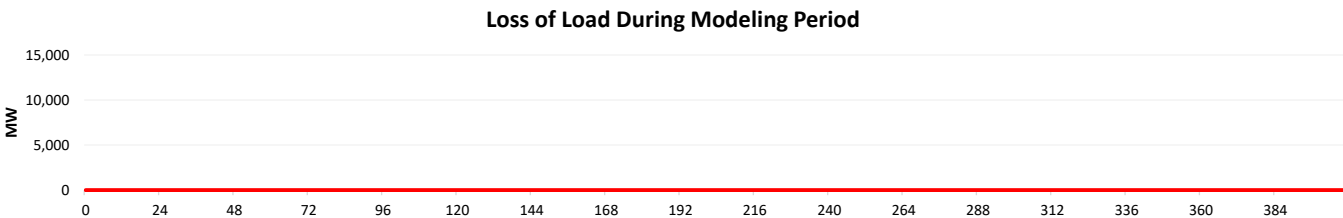
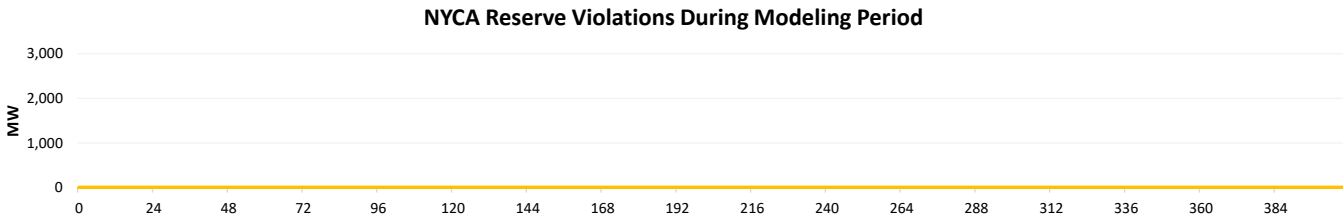
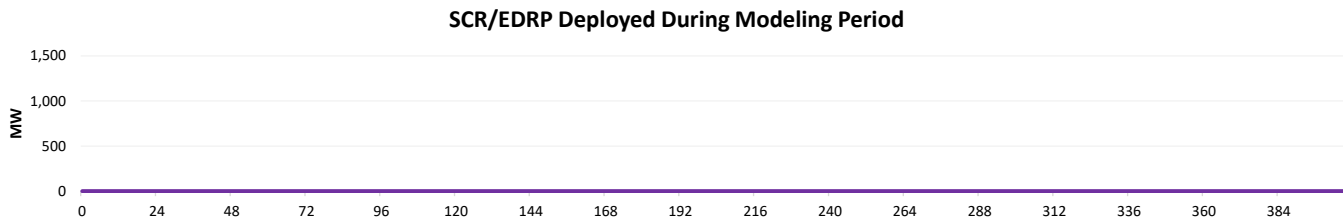
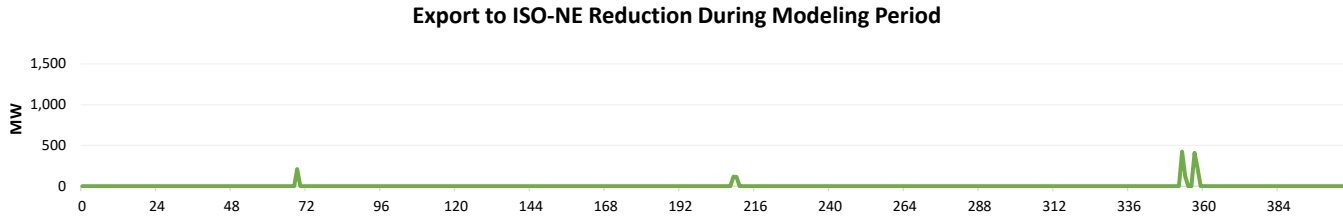
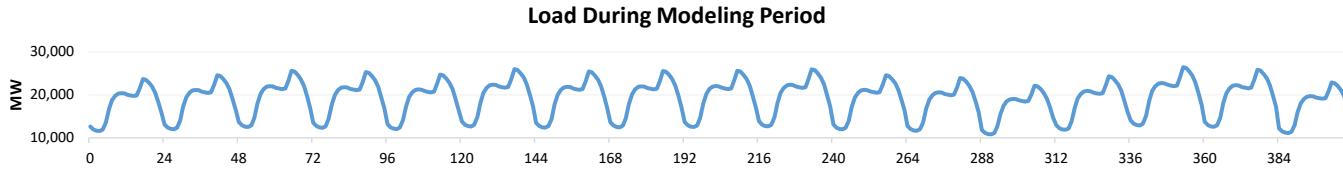
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 1 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	7
Total MWh	1,598
Avg. MW	3.9

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

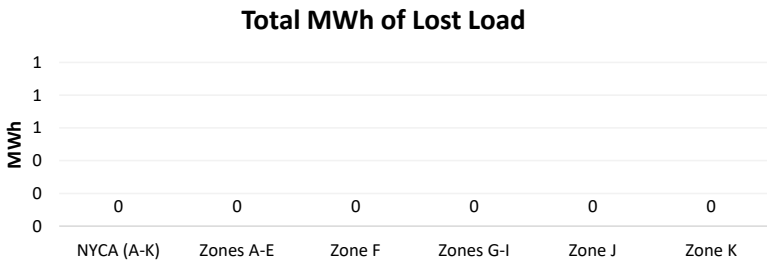
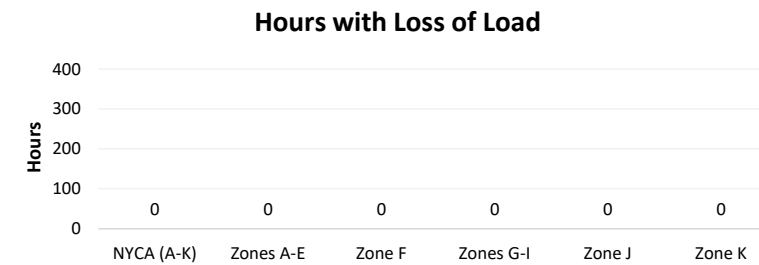
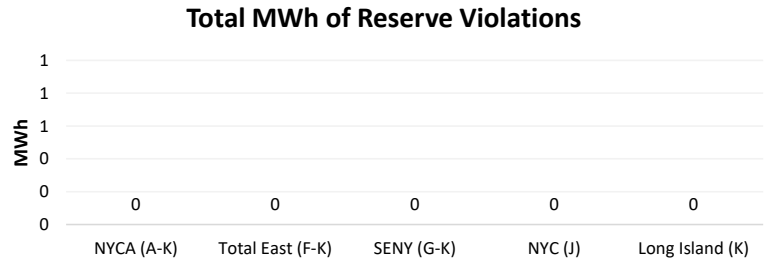
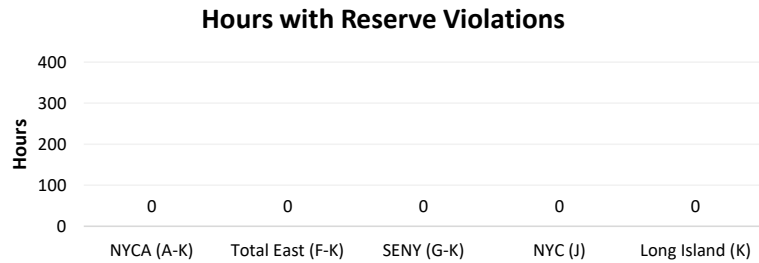
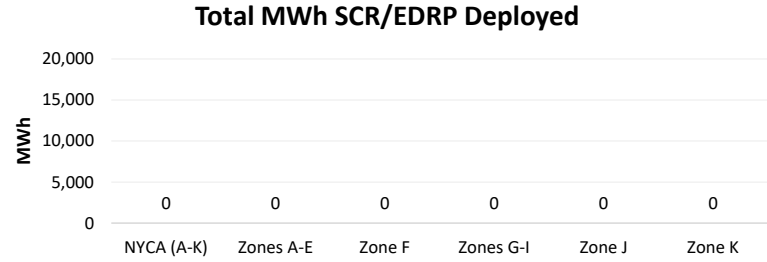
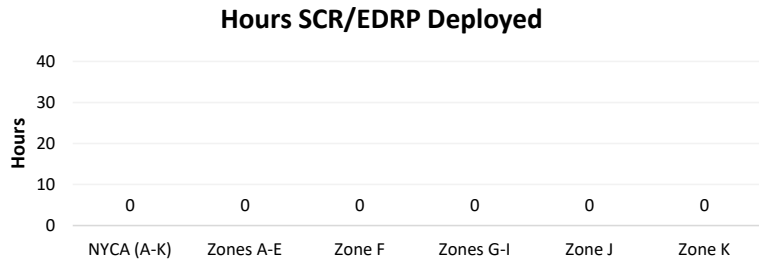
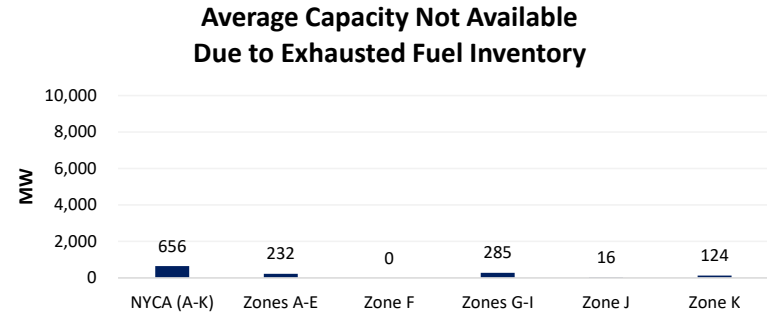
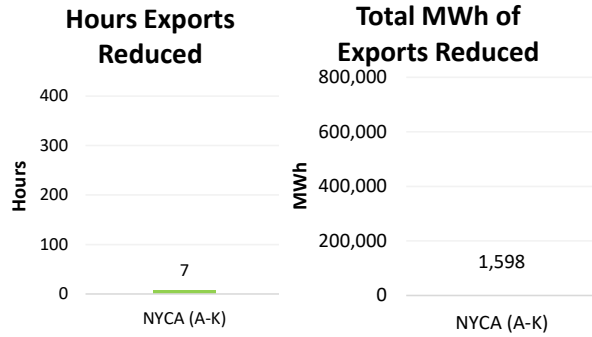
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

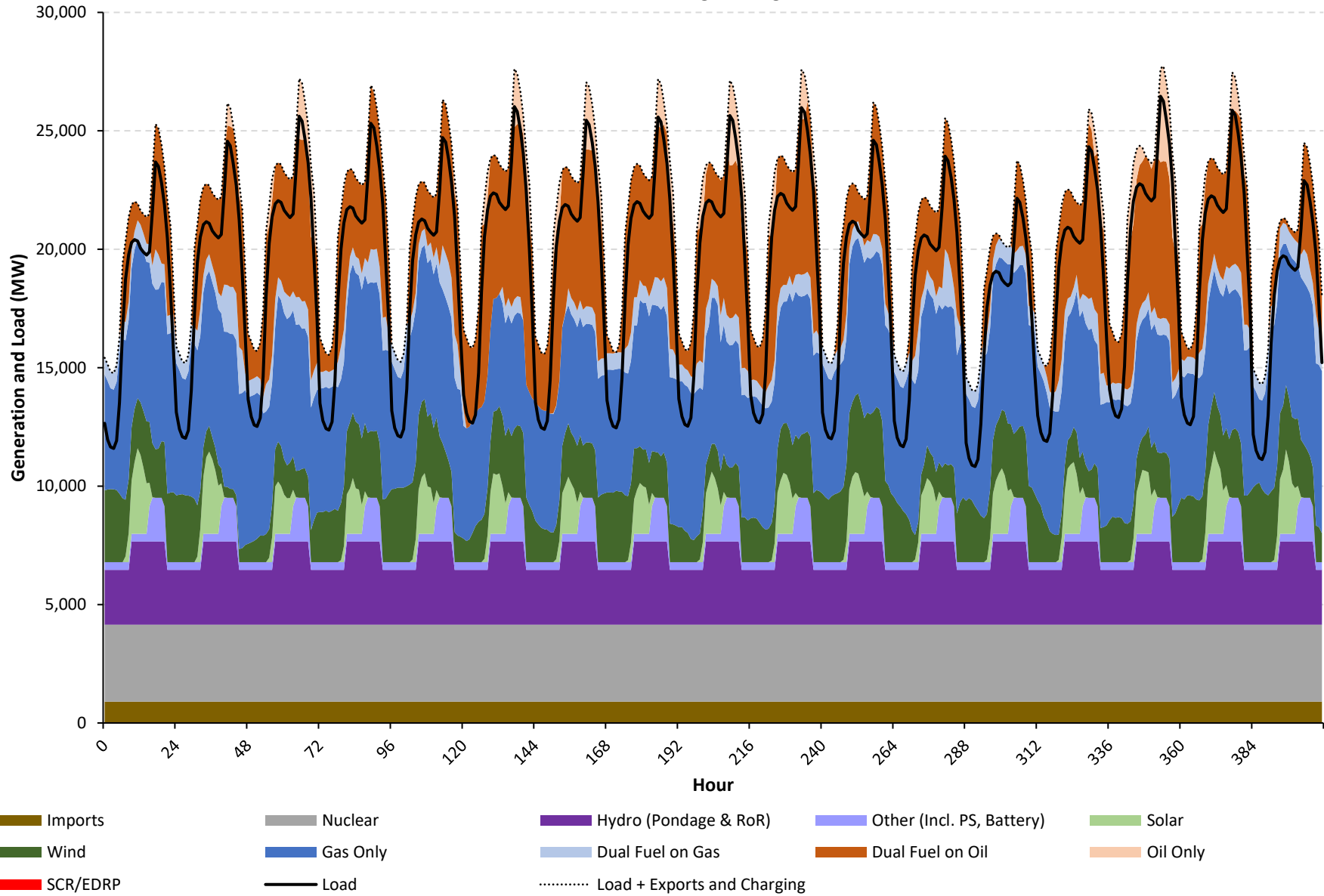
Full Period Results Summary

Case Name: Scenario 1 - PD 2 High Outage

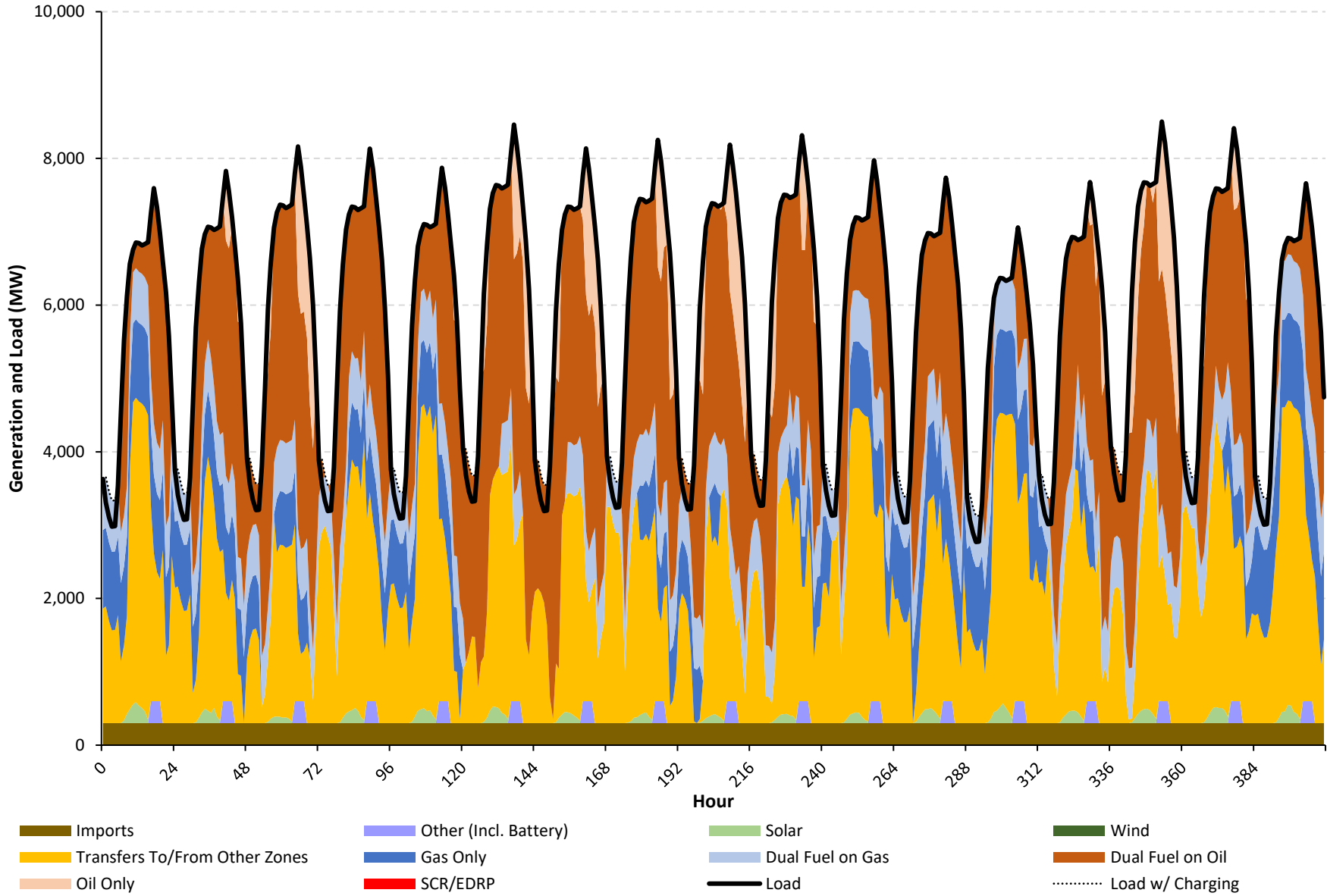
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



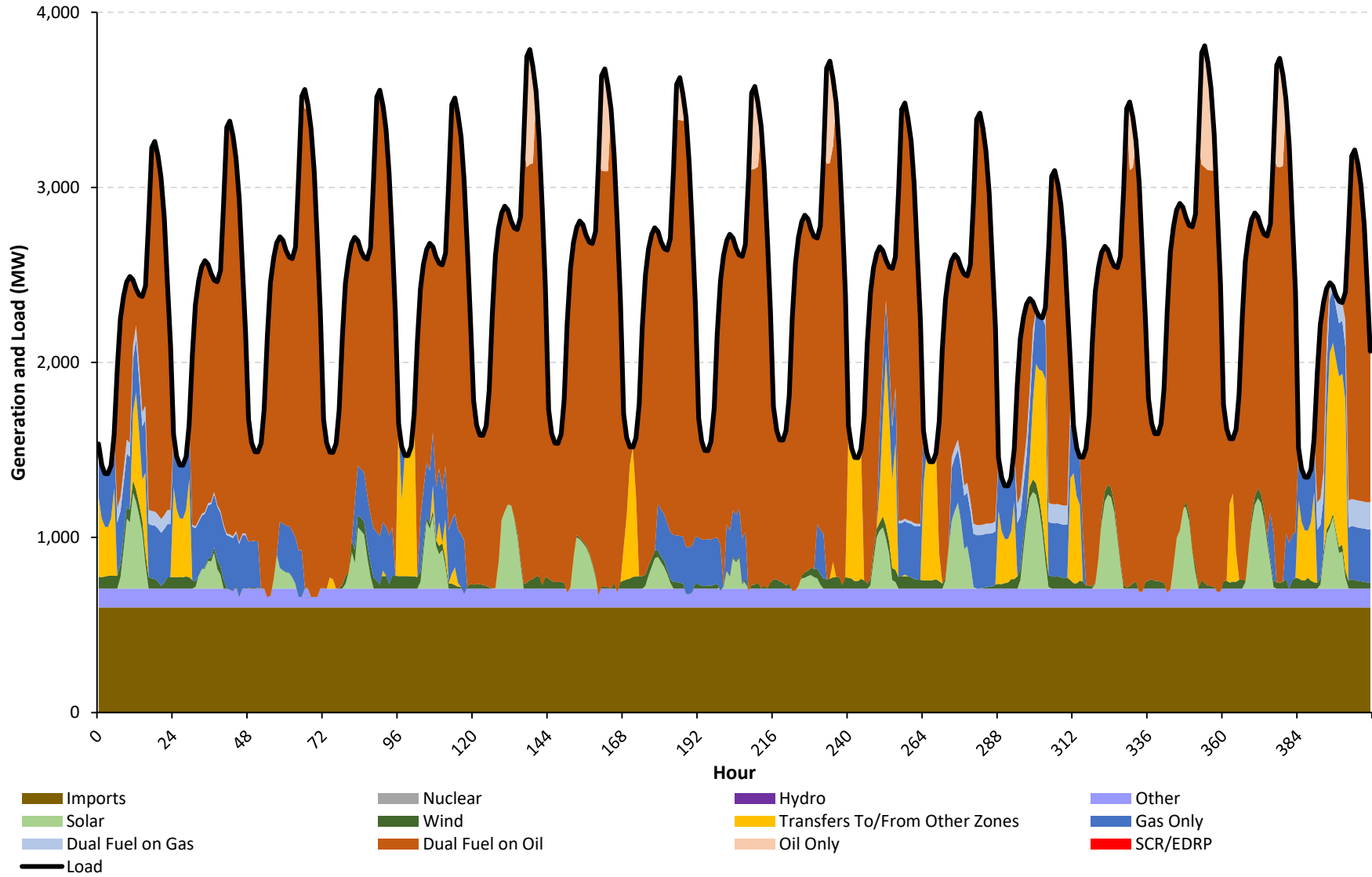
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 2 High Outage



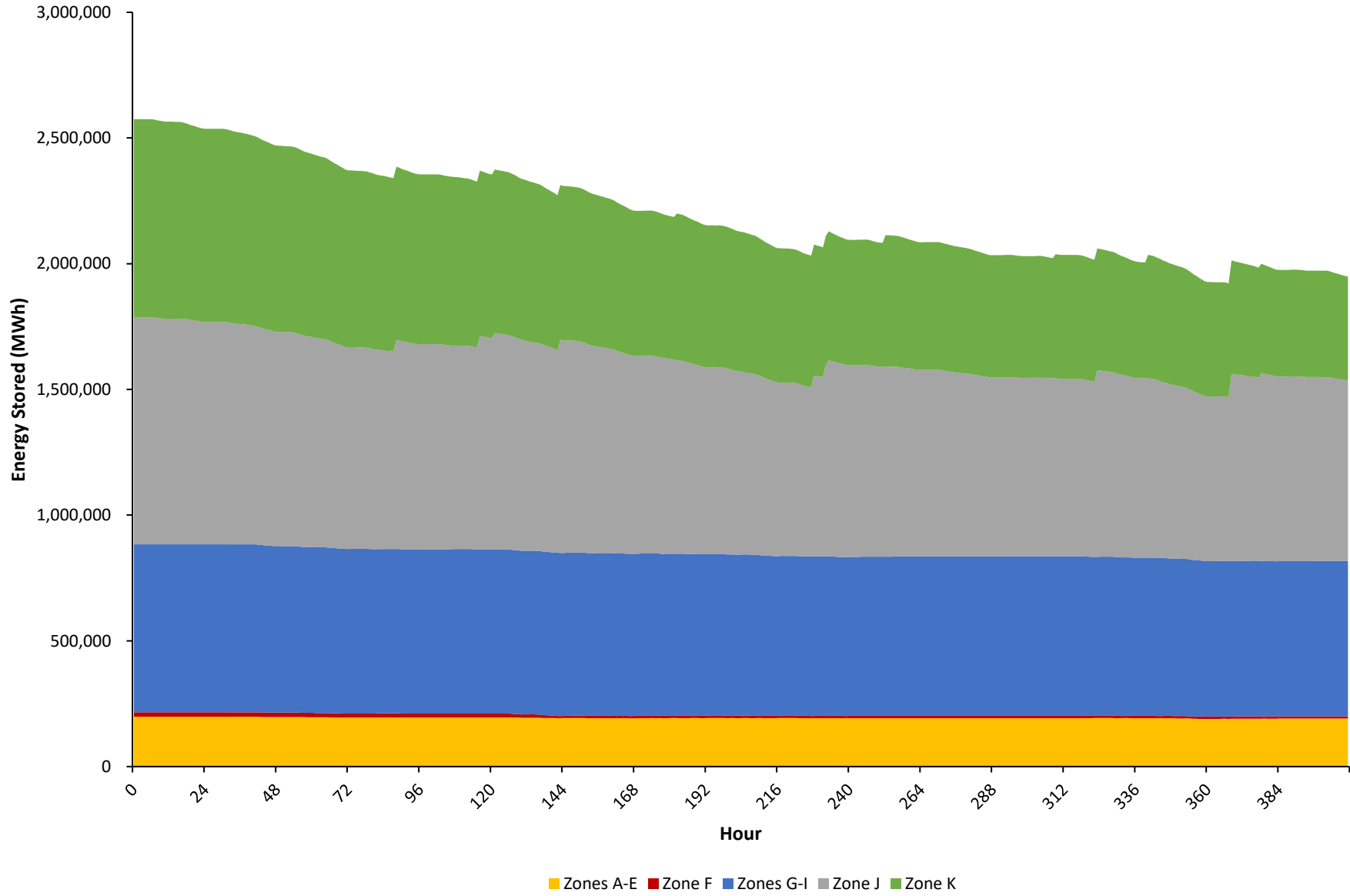
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 2 High Outage

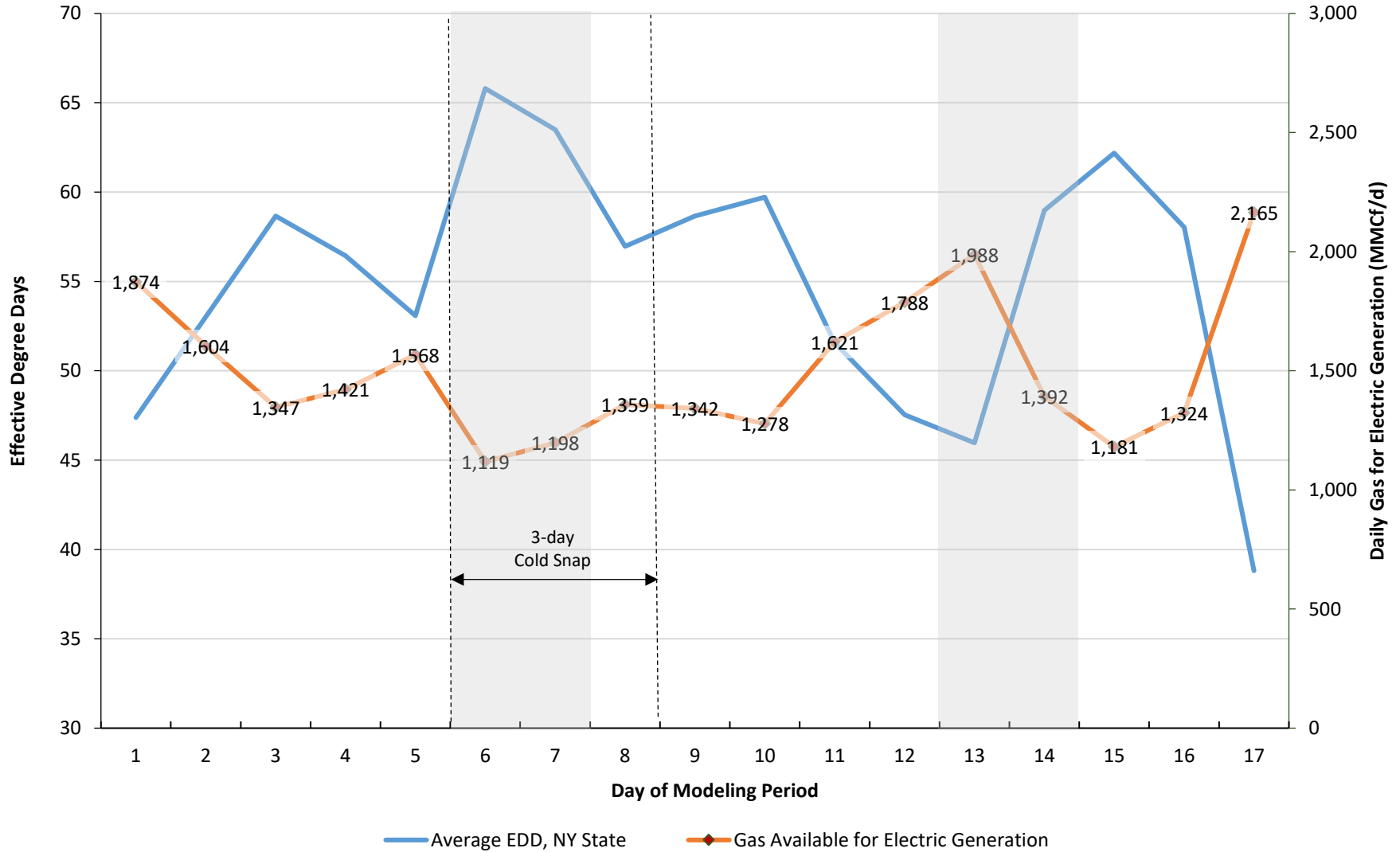


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

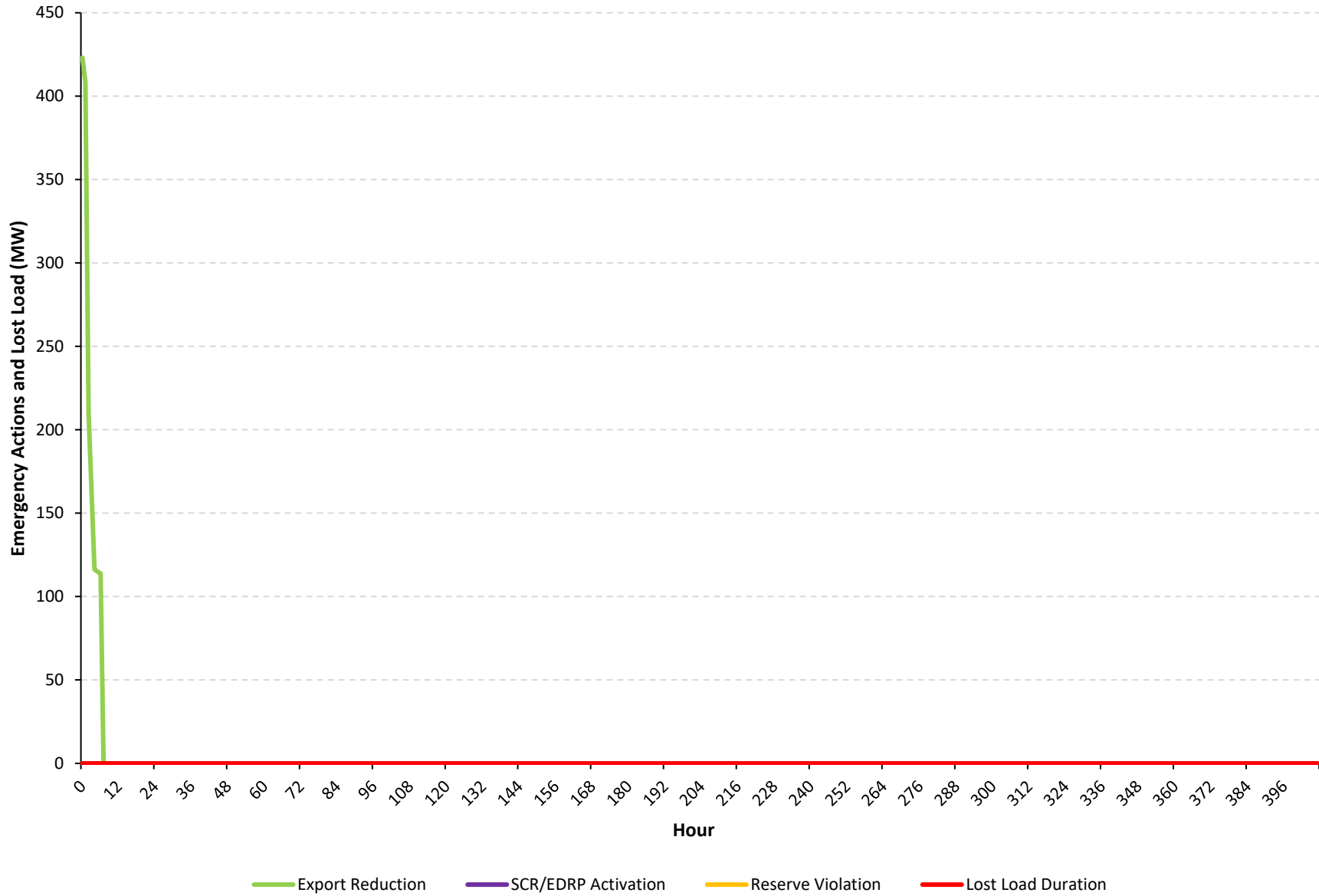
Scenario 1 - PD 2 High Outage



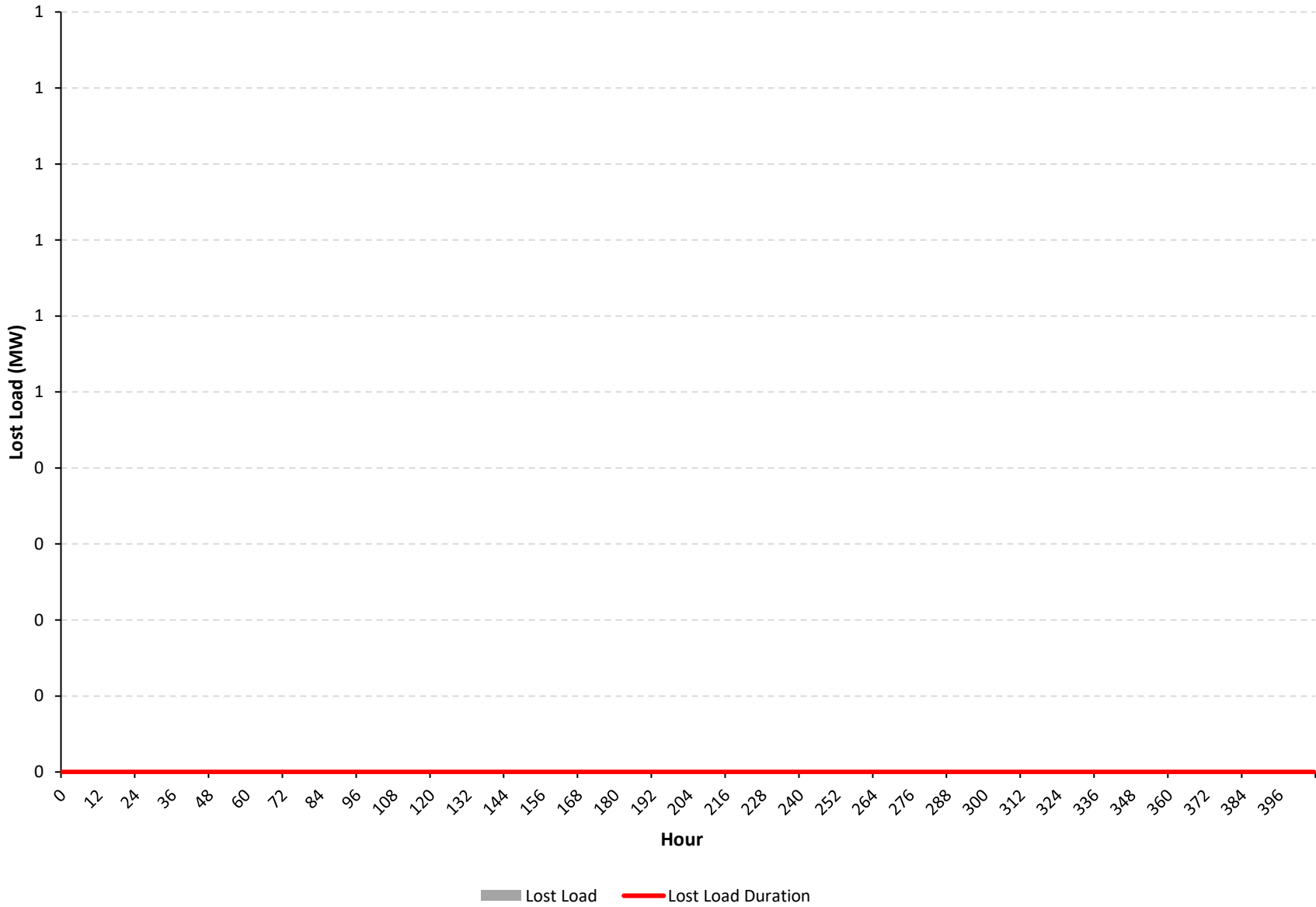
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 2 High Outage

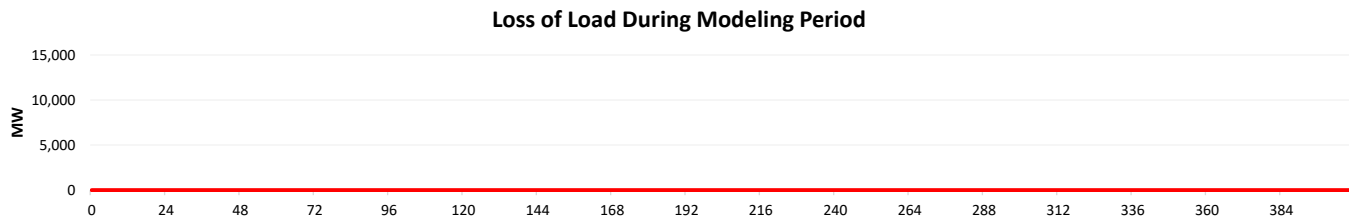
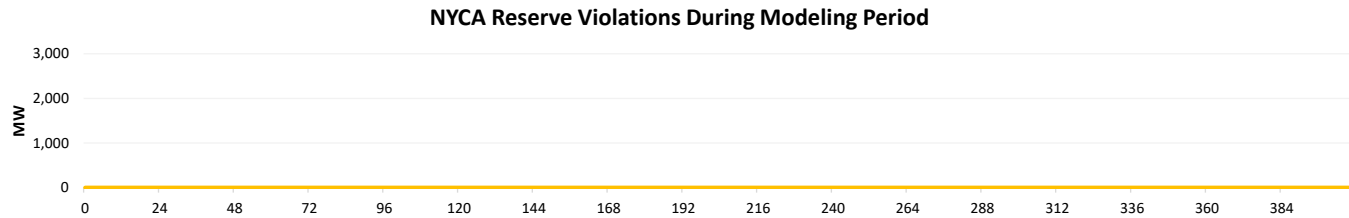
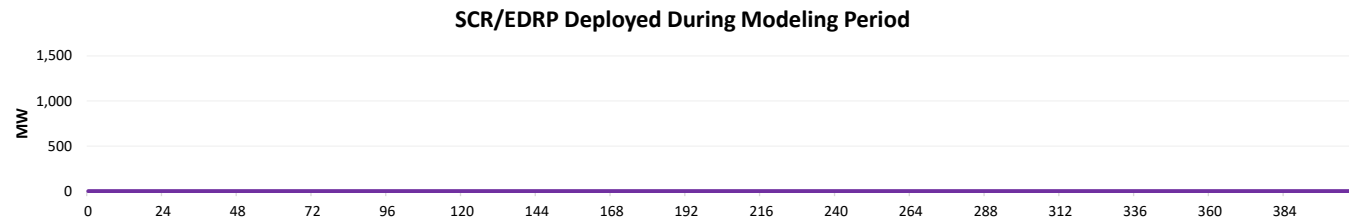
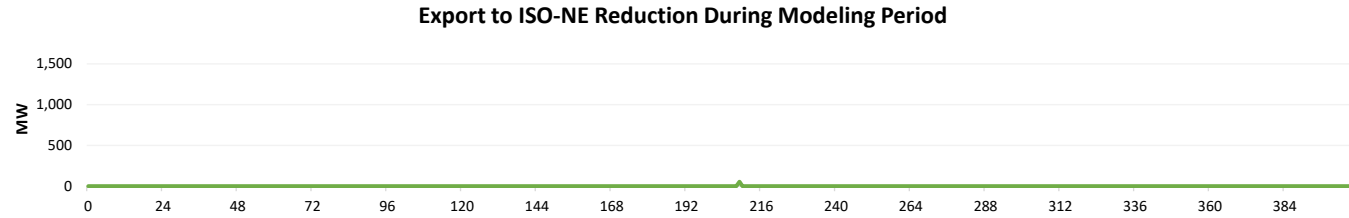
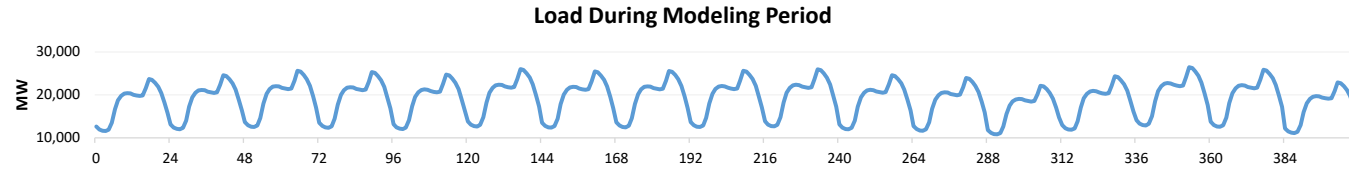


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 1 - PD 3 SENY Deactivation



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	1
Total MWh	54
Avg. MW	0.1

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

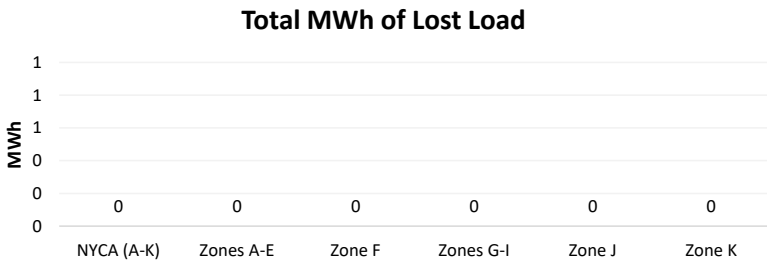
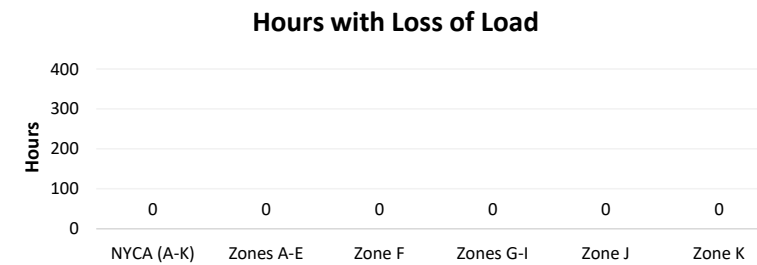
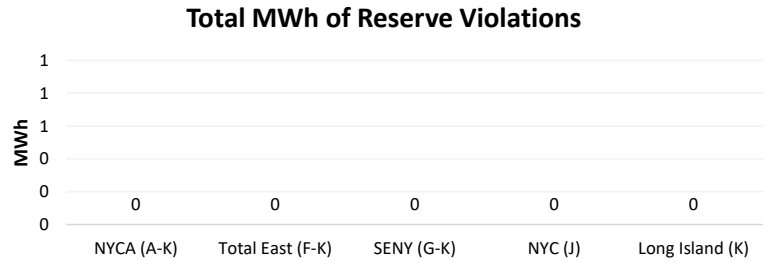
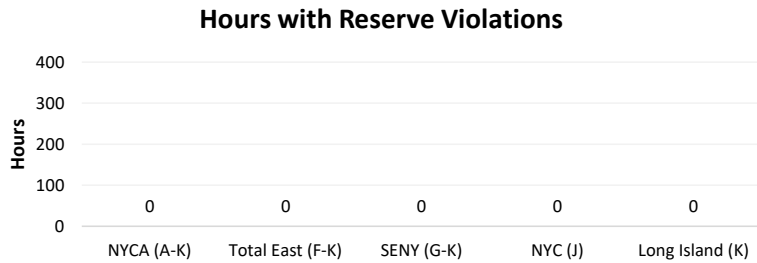
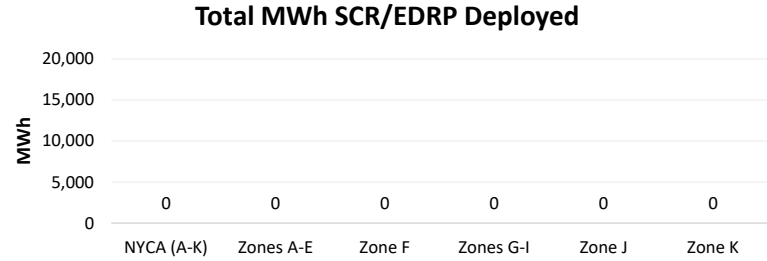
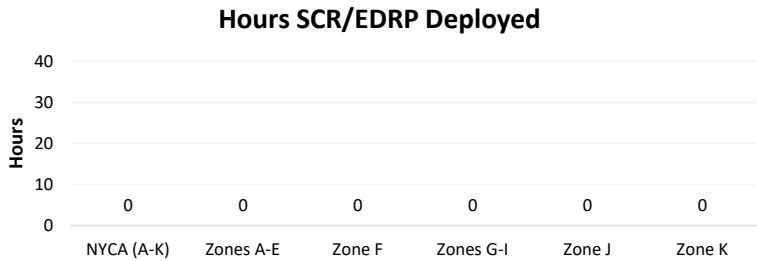
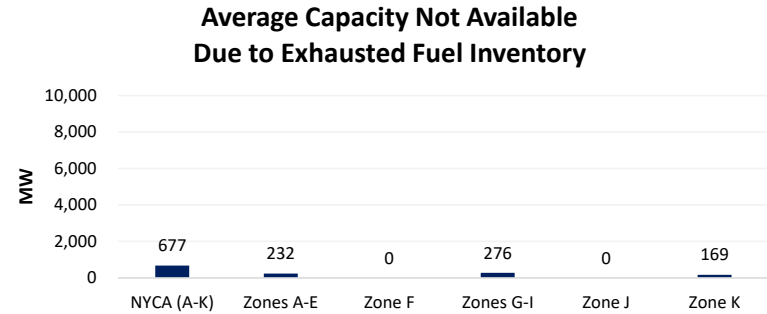
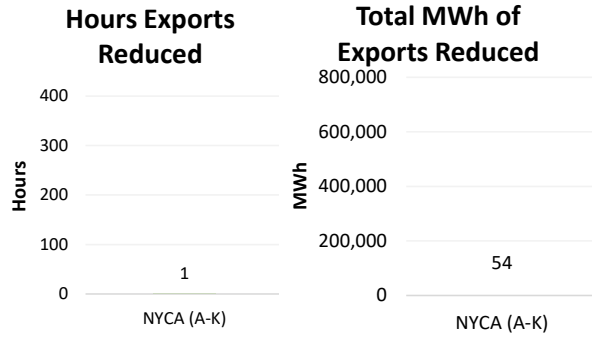
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

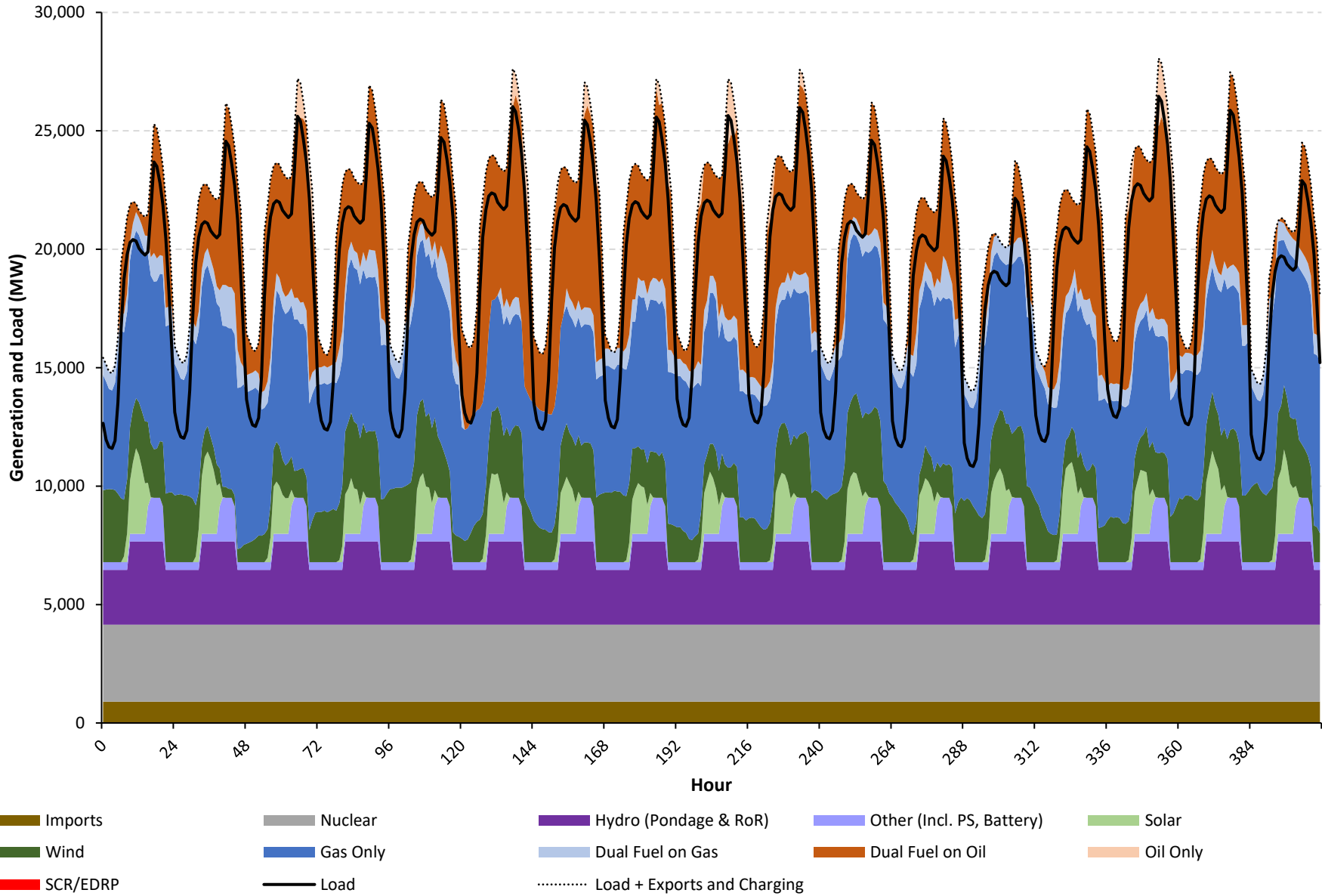
Full Period Results Summary

Case Name: Scenario 1 - PD 3 SENY Deactivation

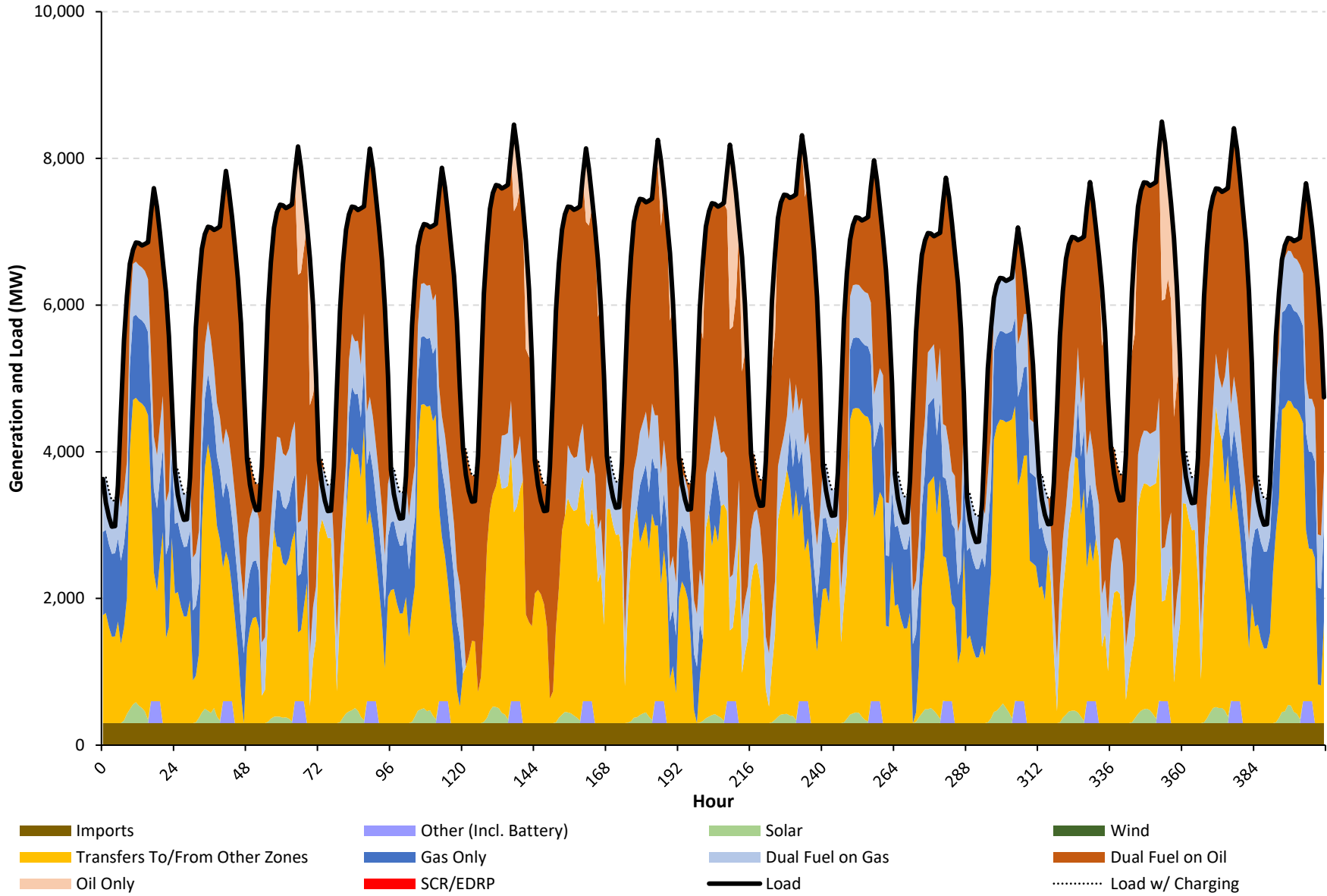
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



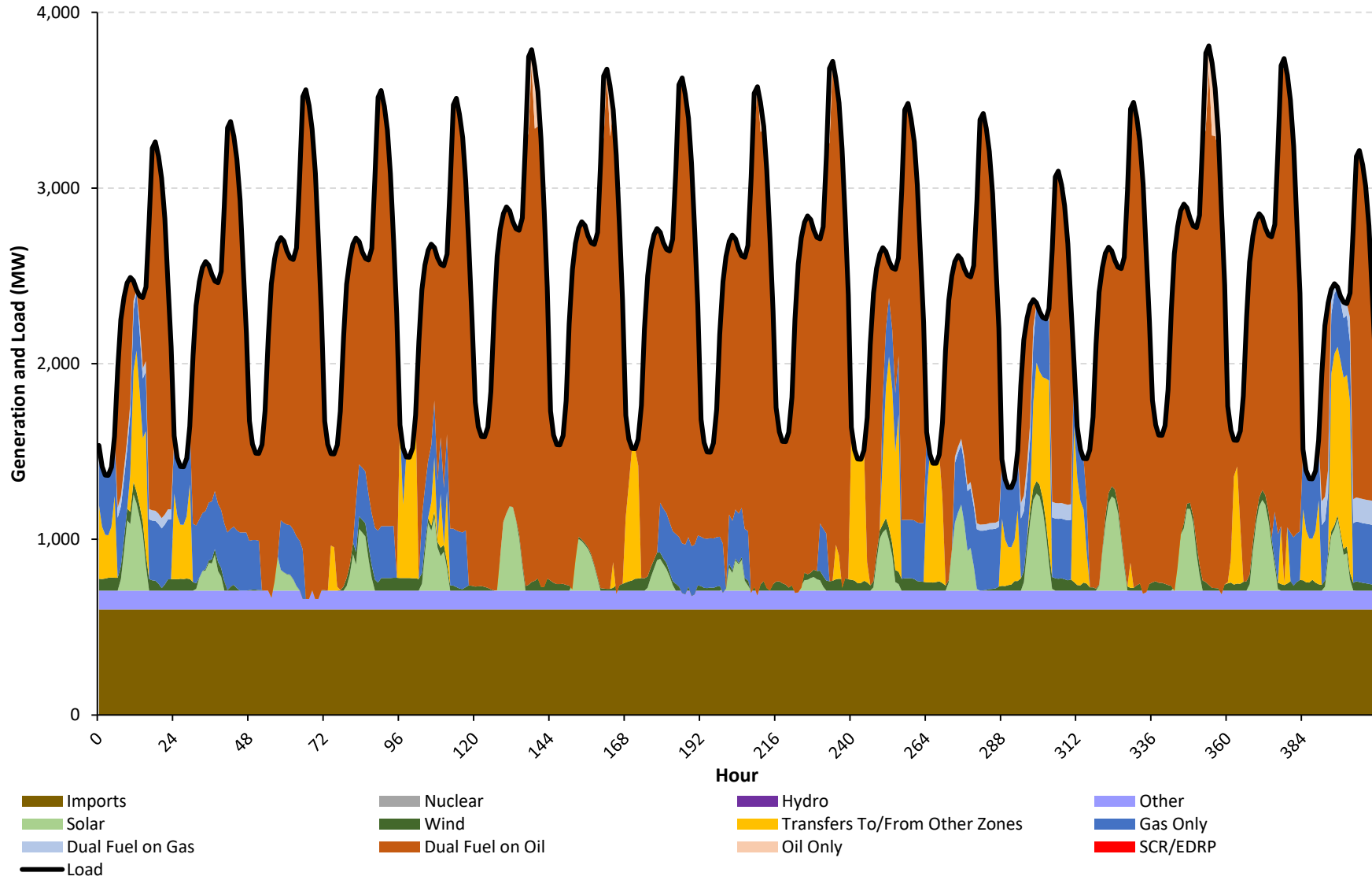
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 3 SENY Deactivation



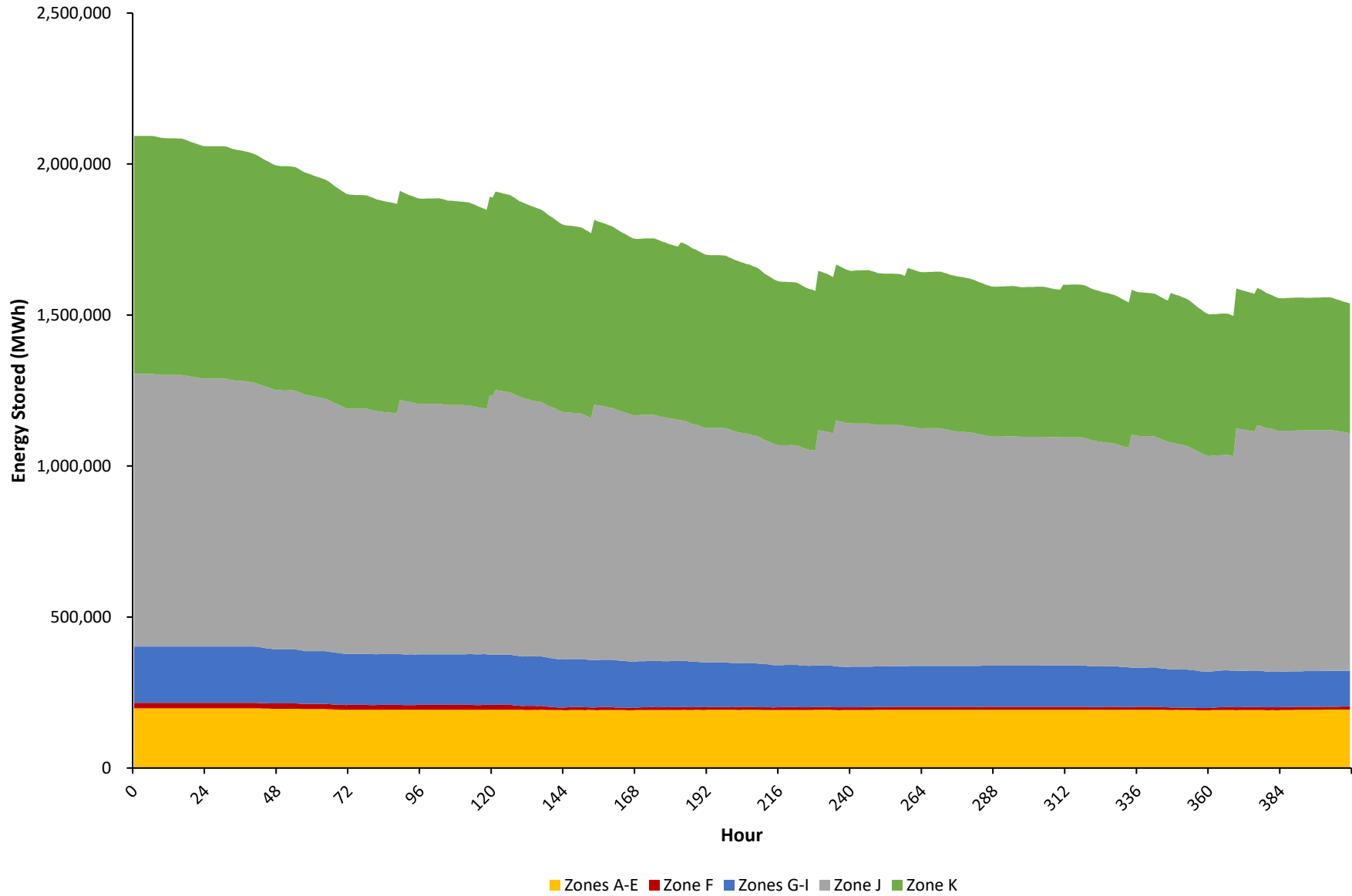
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 3 SENY Deactivation

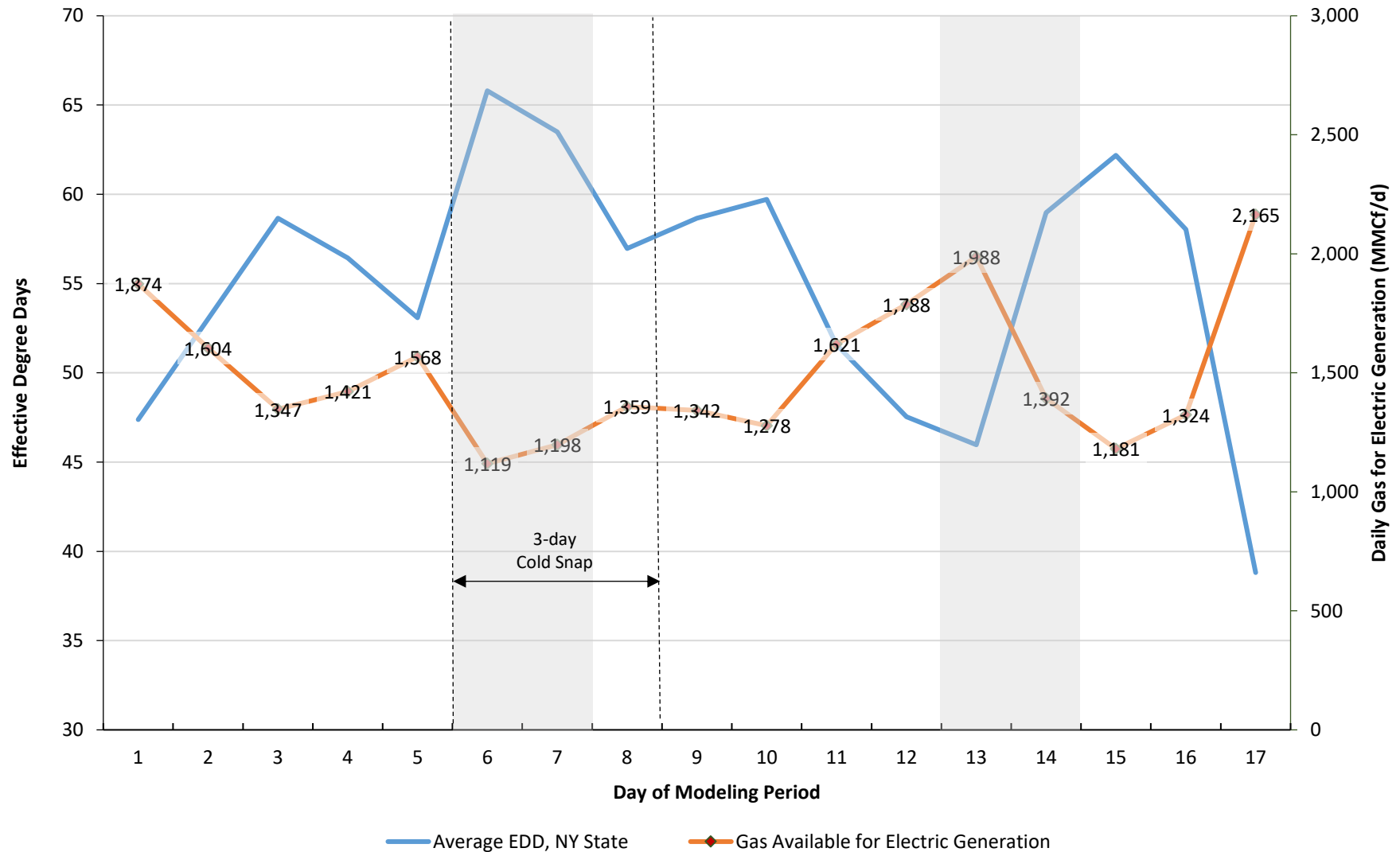


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

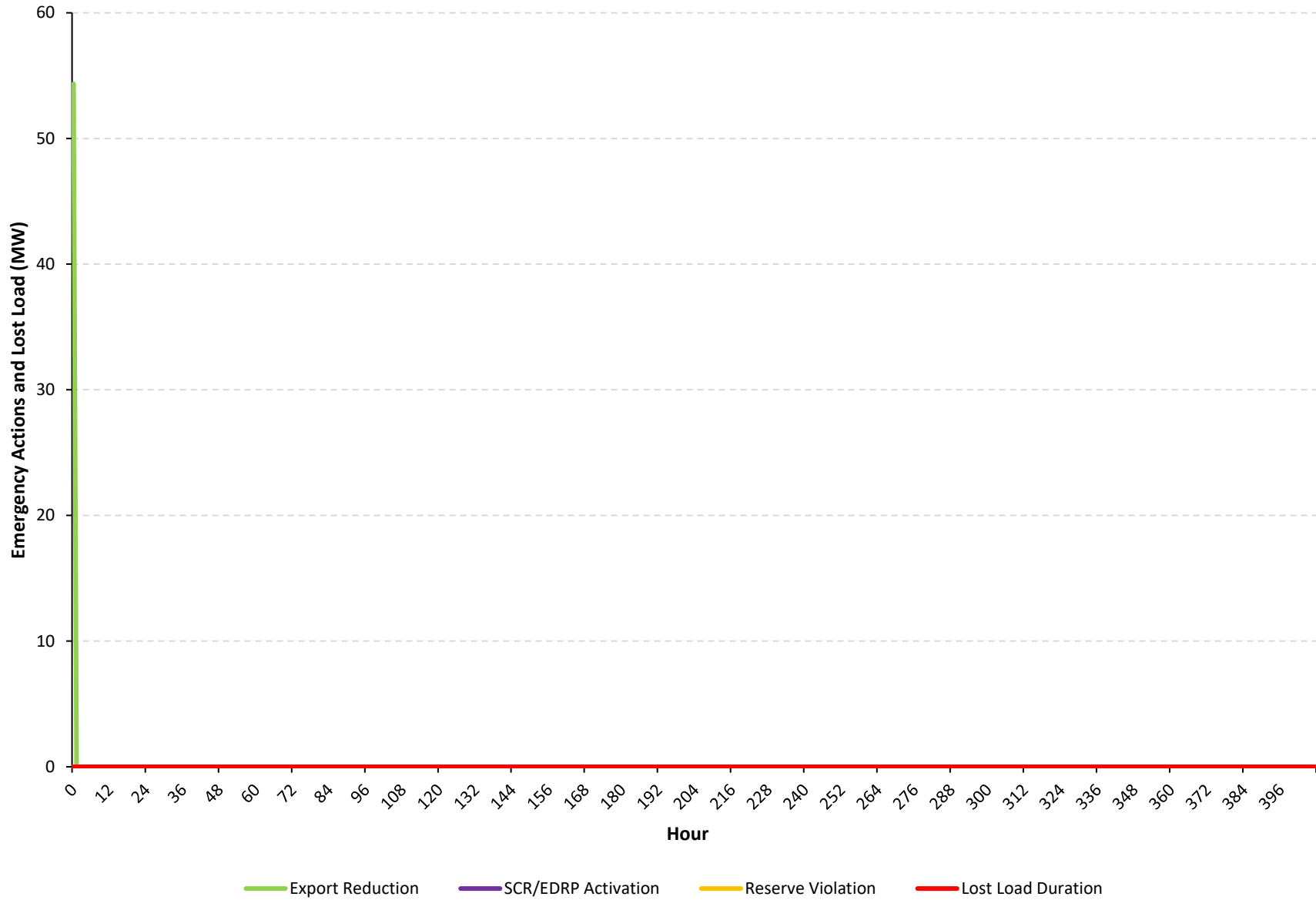
Scenario 1 - PD 3 SENY Deactivation

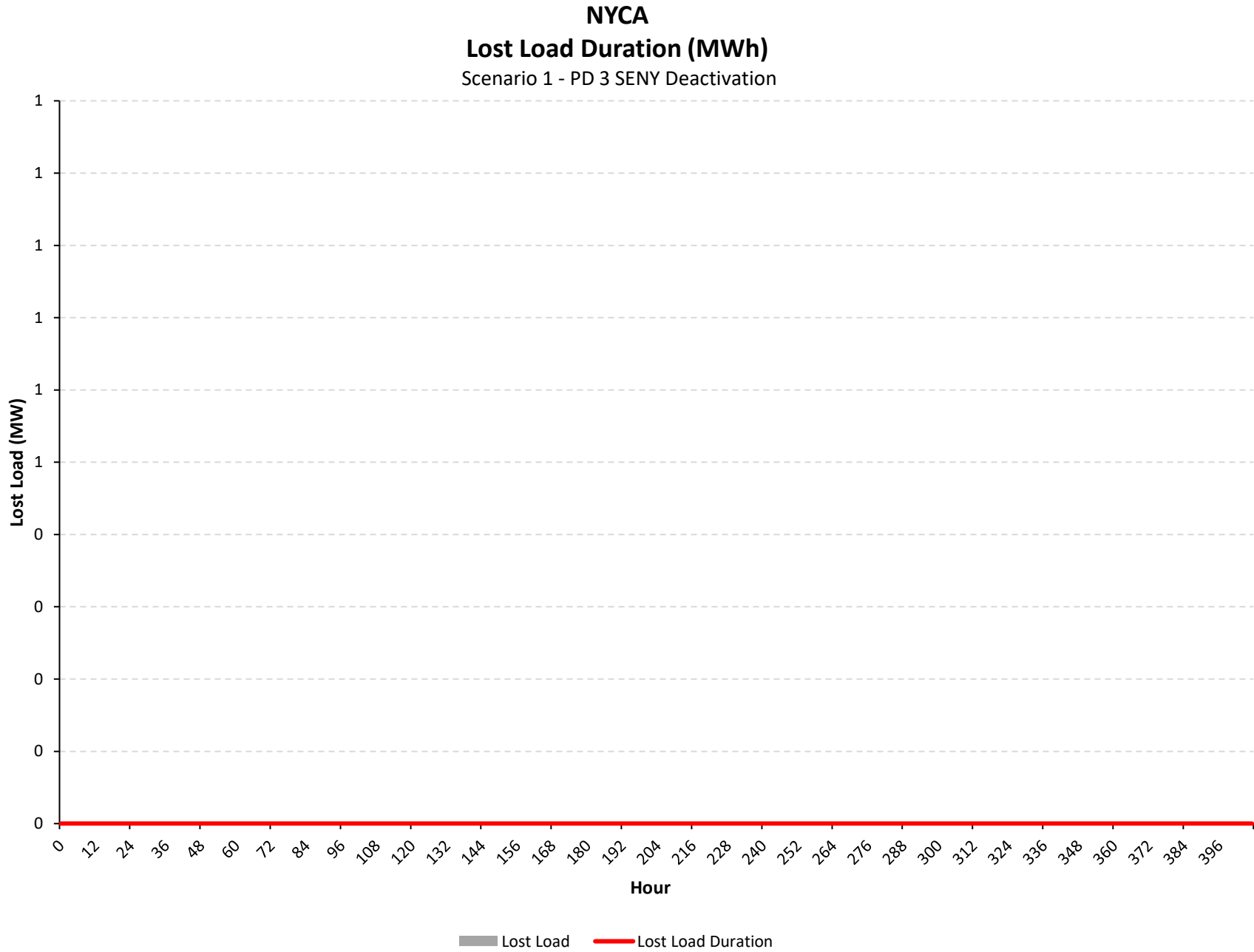


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 3 SENY Deactivation





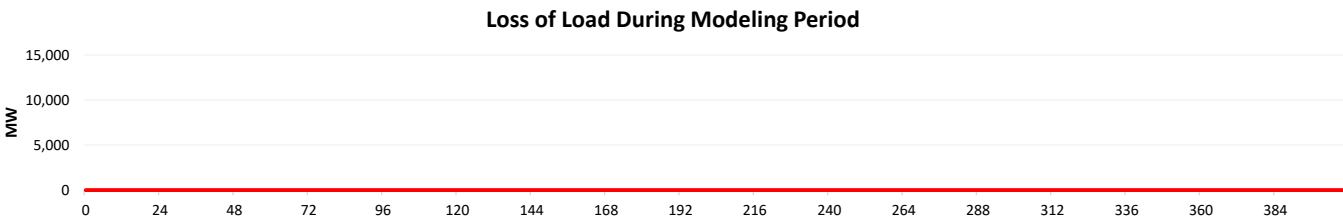
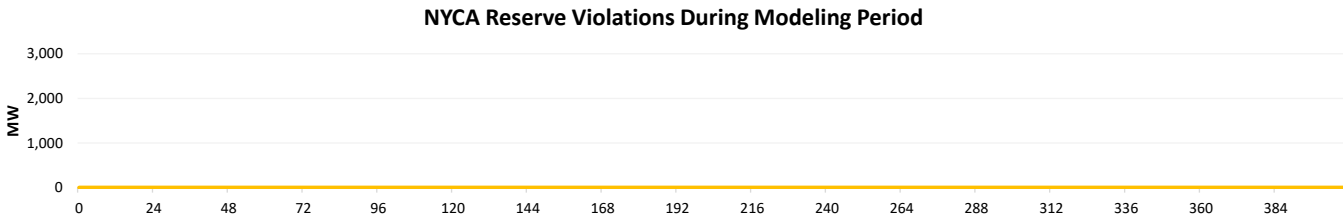
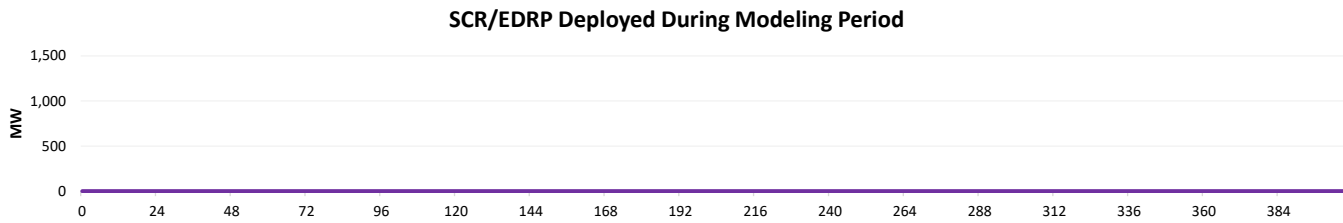
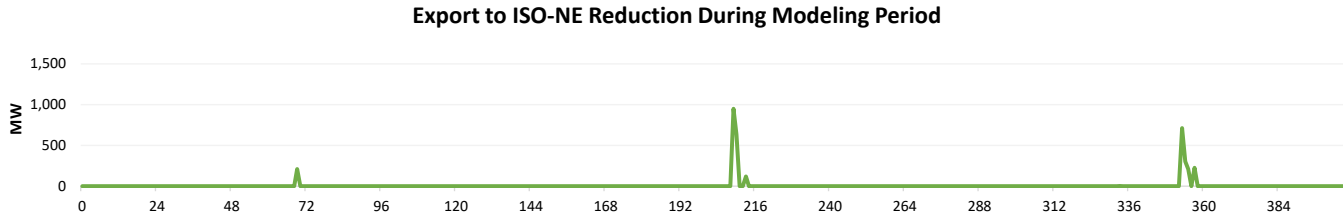
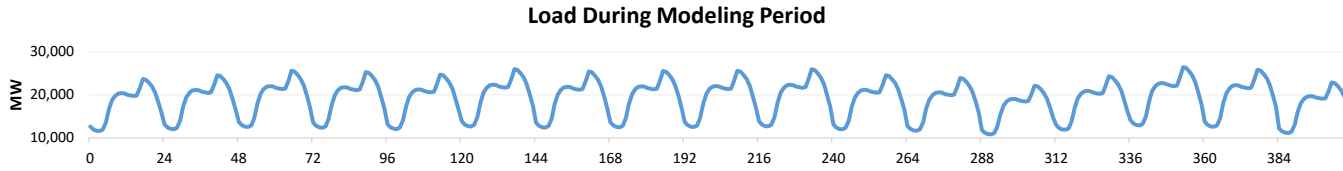
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 1 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	9
Total MWh	3,366
Avg. MW	8.3

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

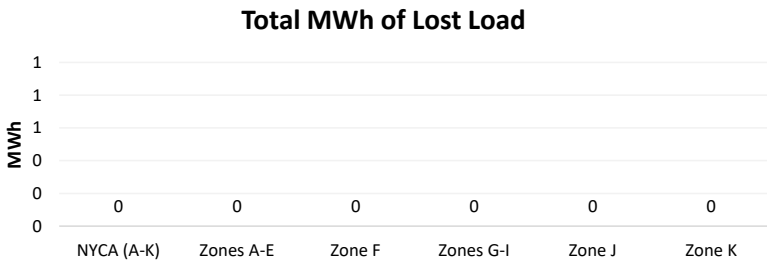
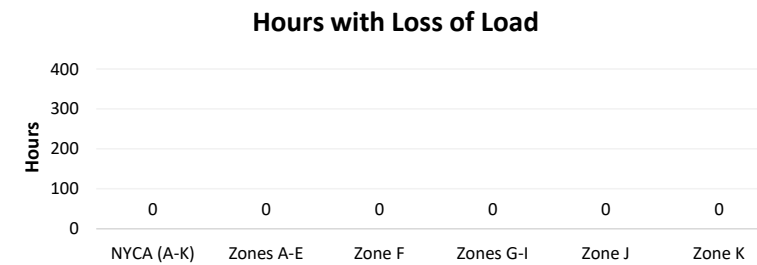
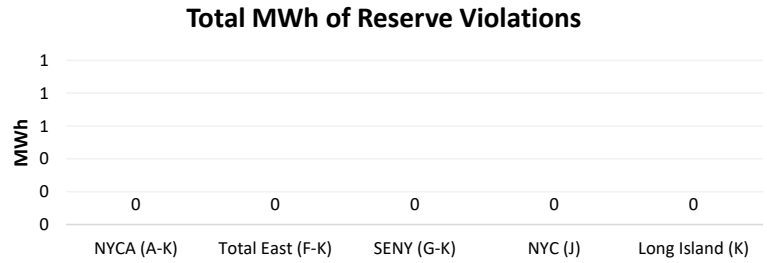
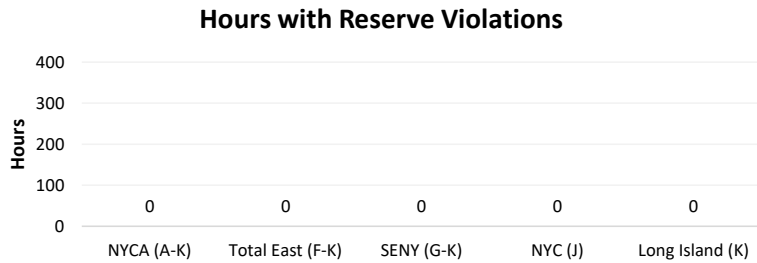
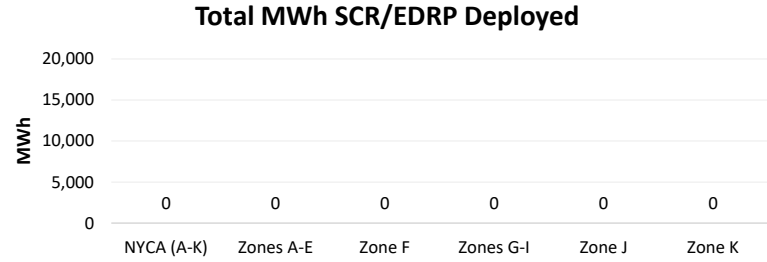
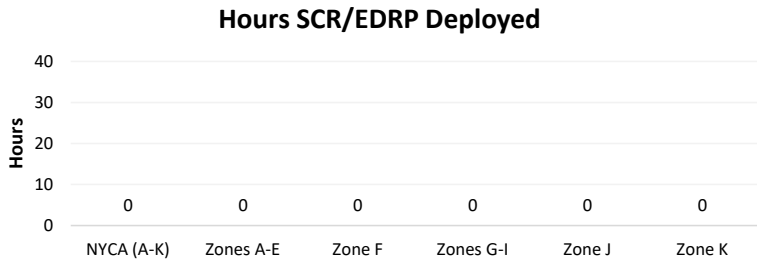
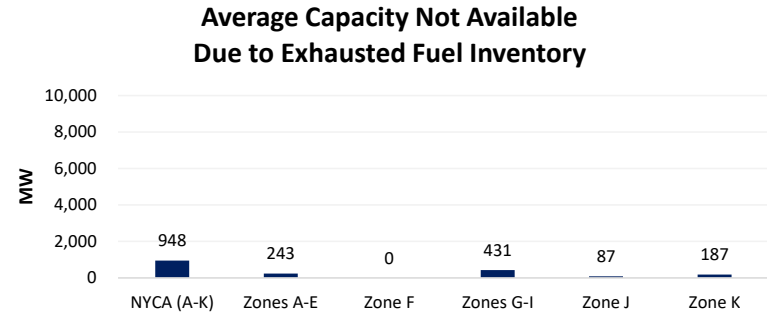
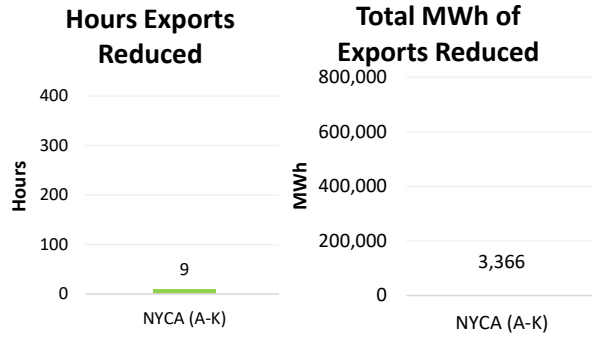
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

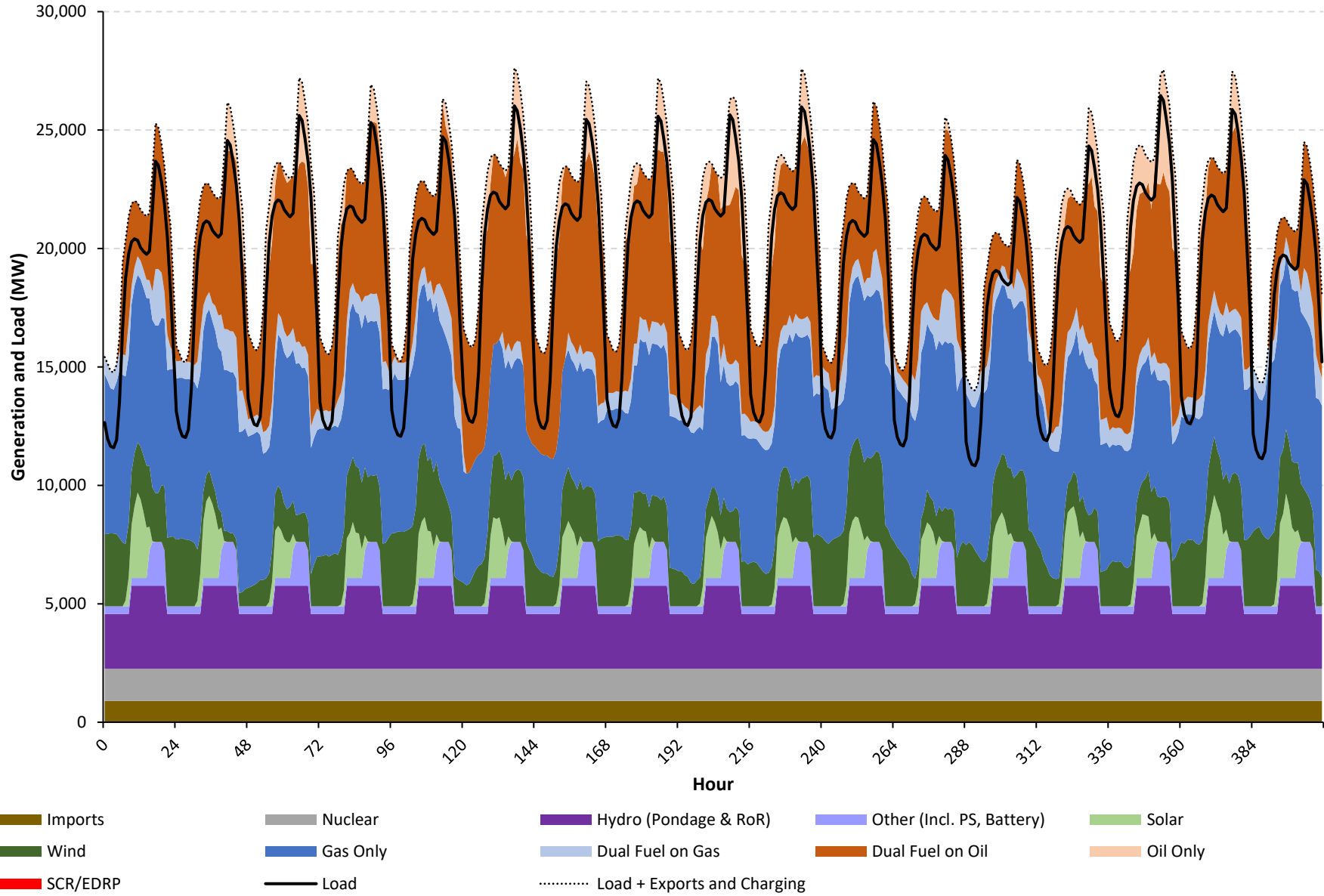
Full Period Results Summary

Case Name: Scenario 1 - PD 4 Nuclear Outage

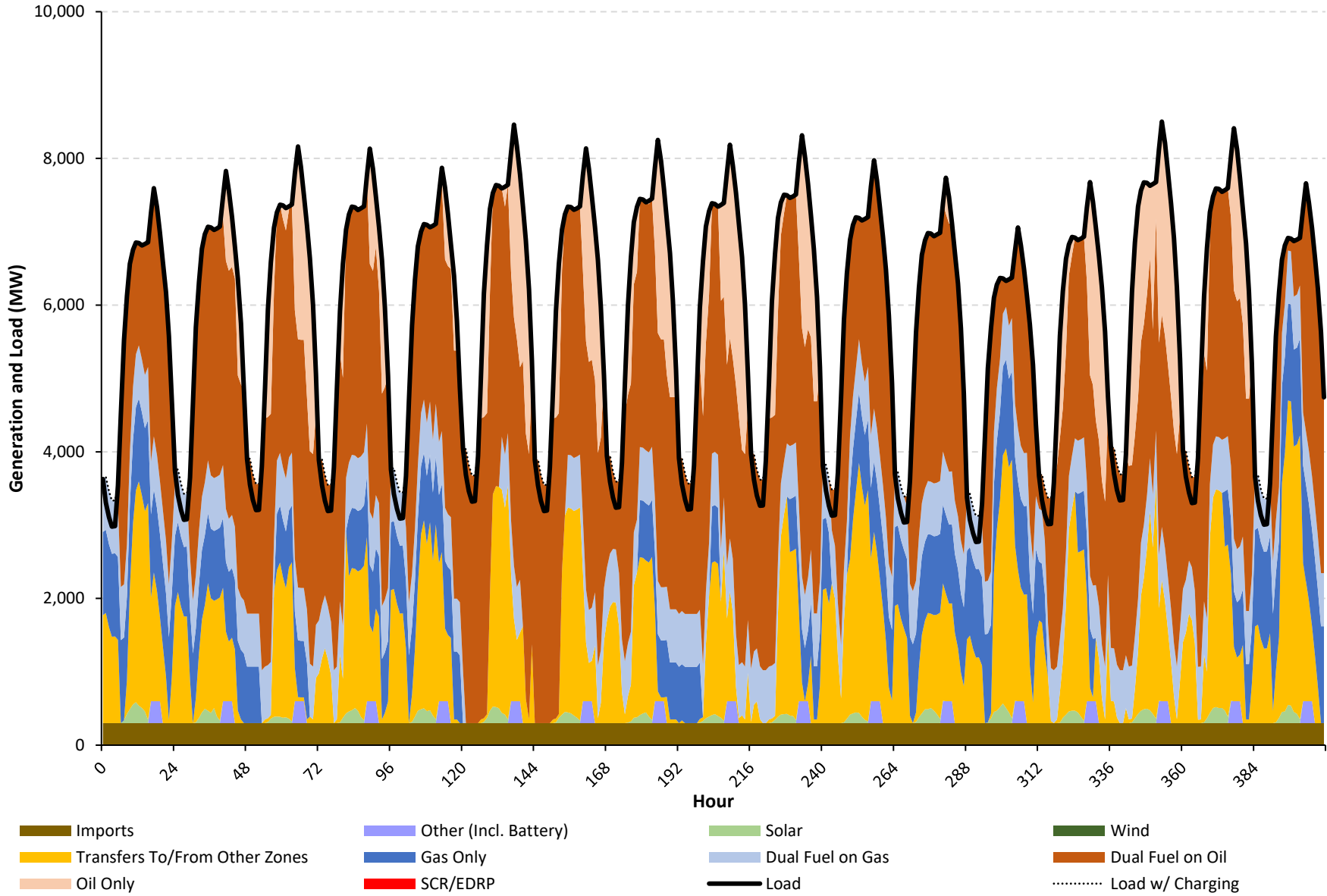
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW



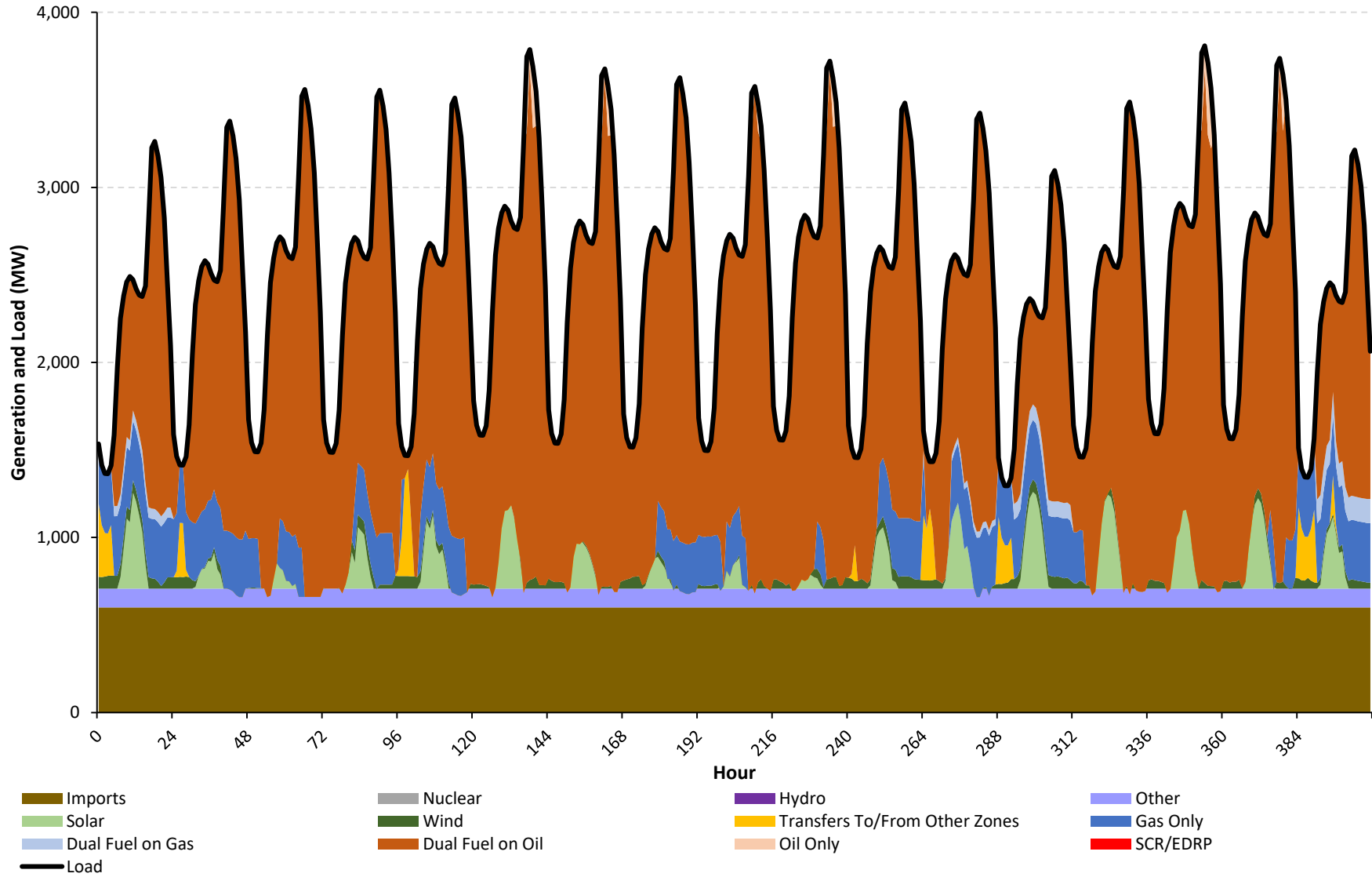
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 4 Nuclear Outage



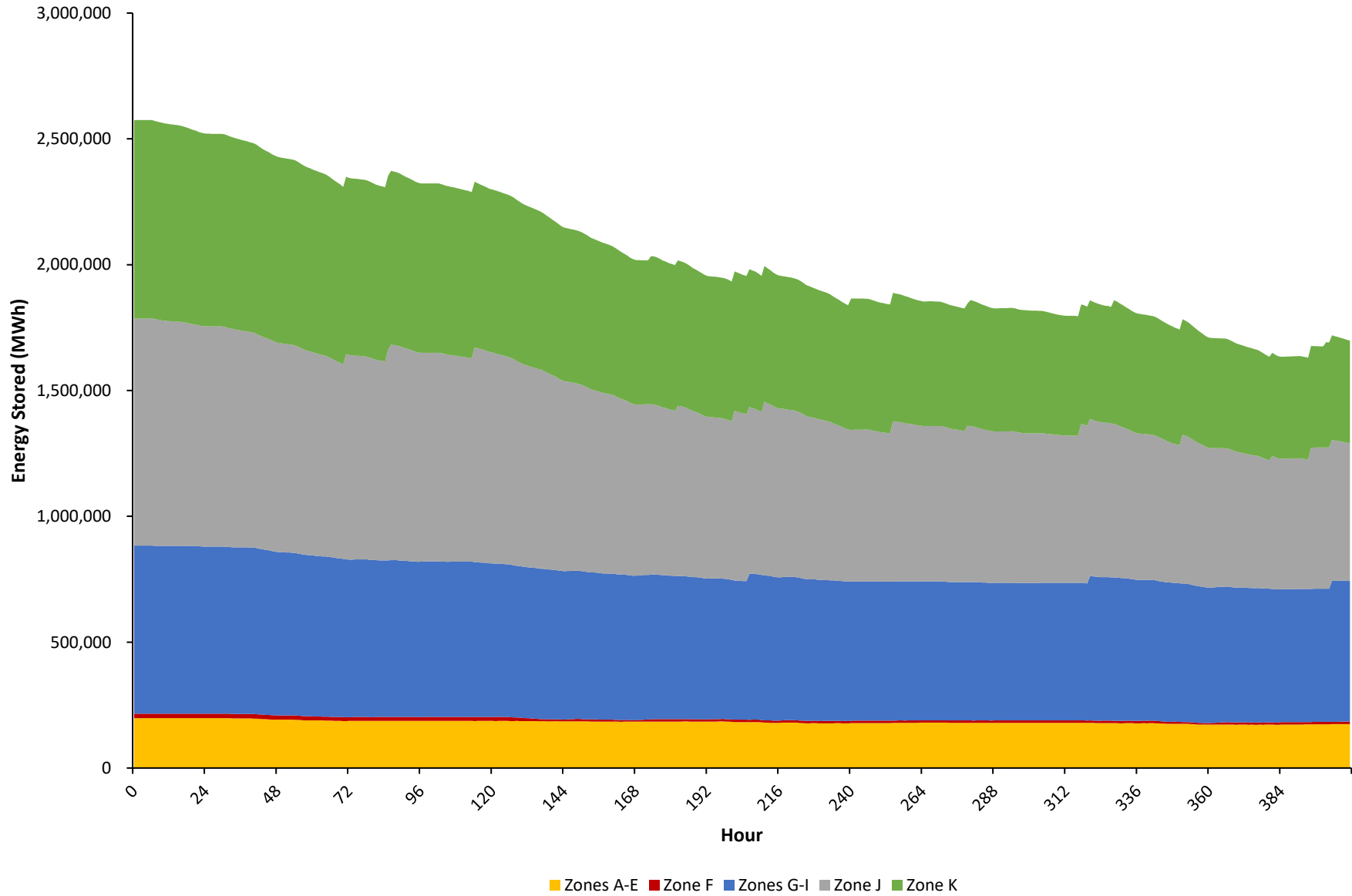
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 4 Nuclear Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 4 Nuclear Outage

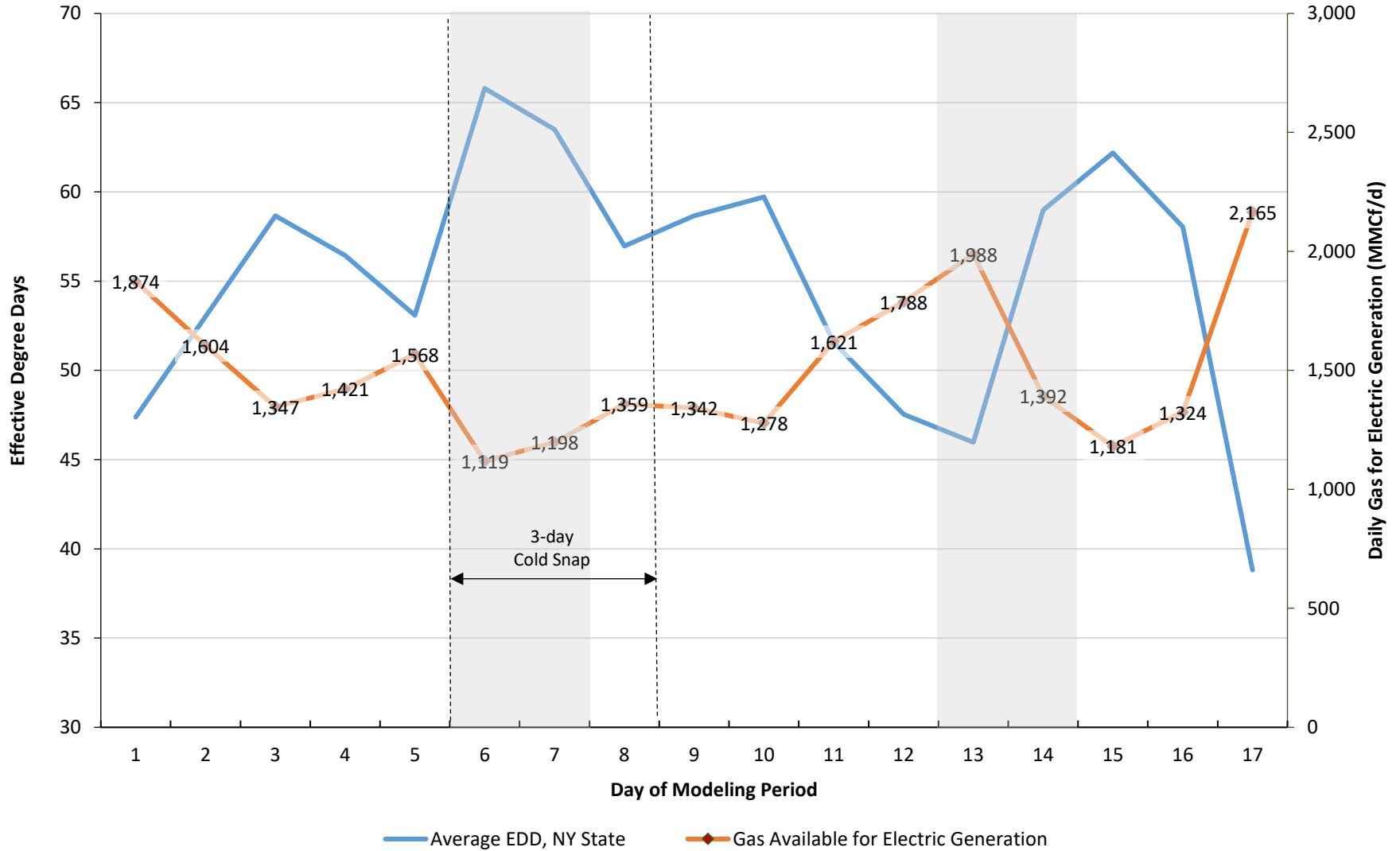


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 4 Nuclear Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

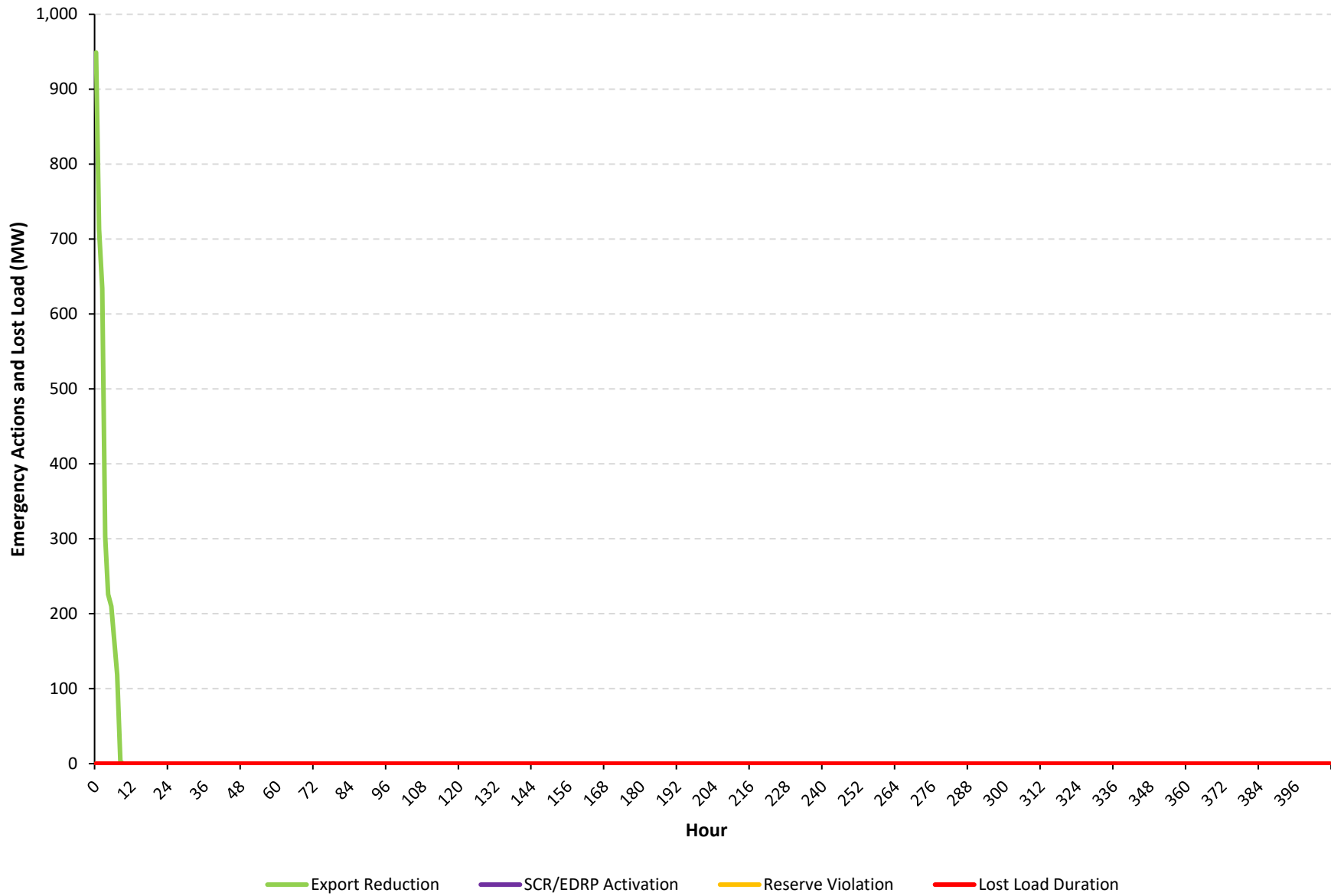
Scenario 1 - PD 4 Nuclear Outage



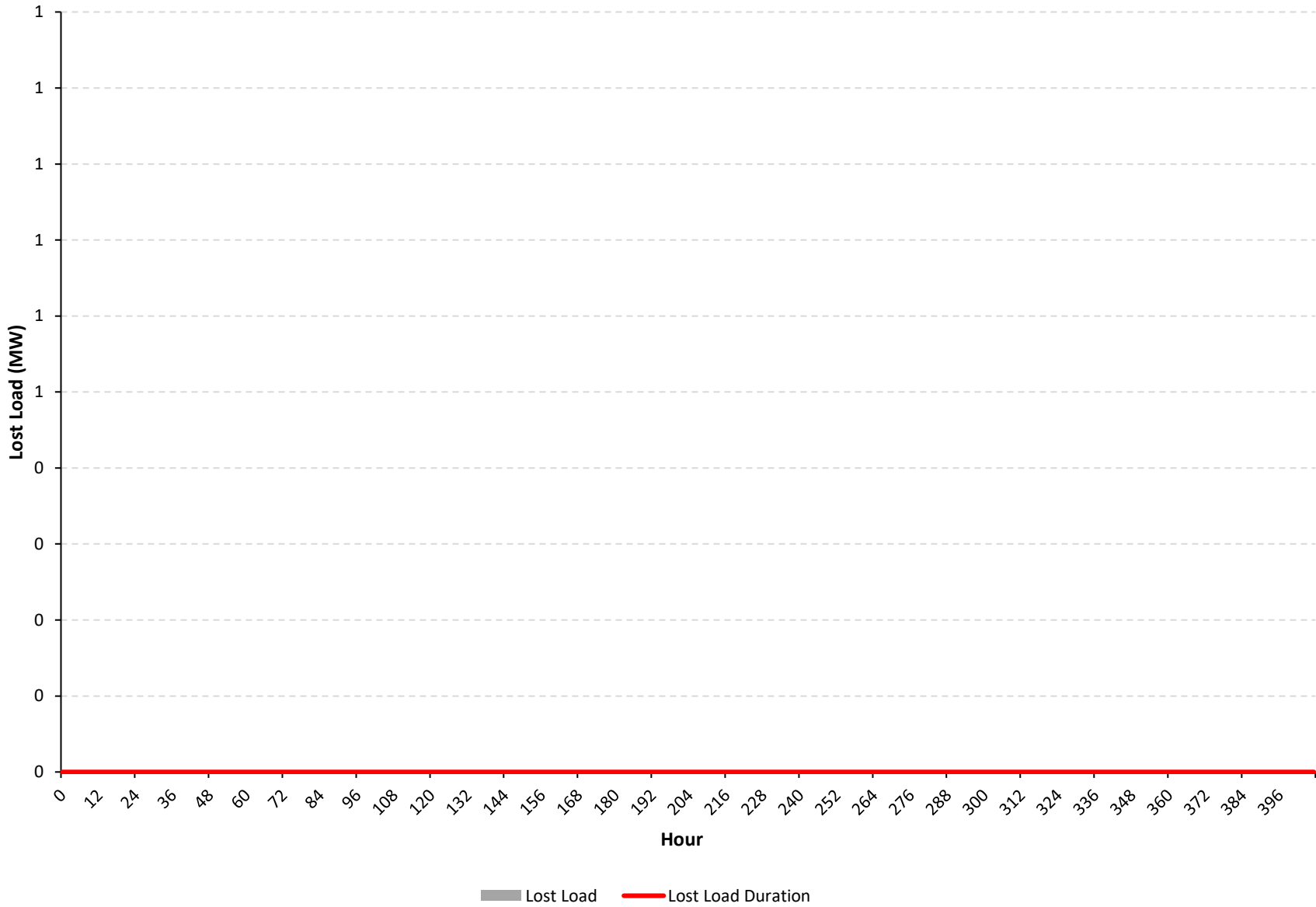
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 4 Nuclear Outage

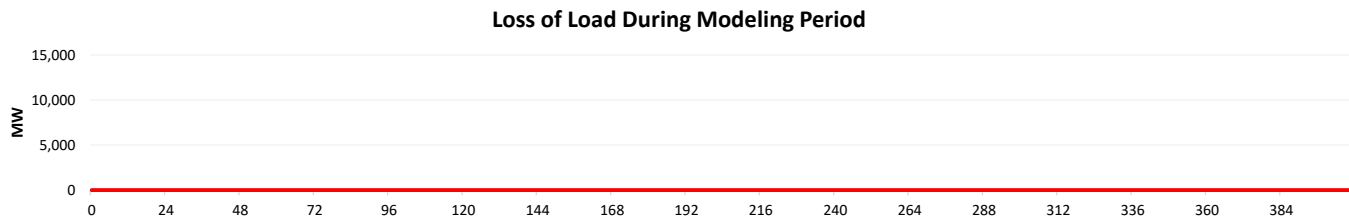
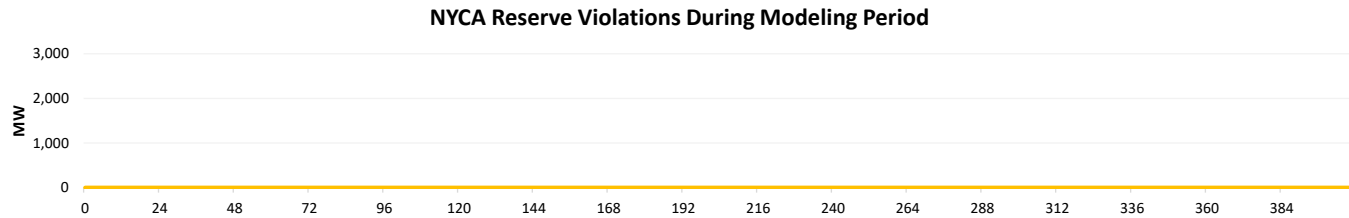
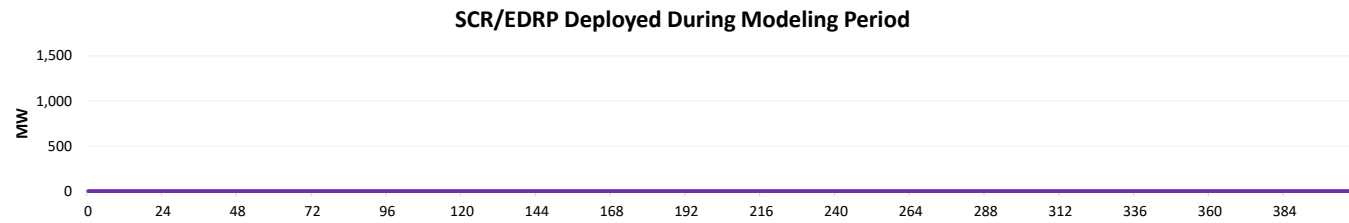
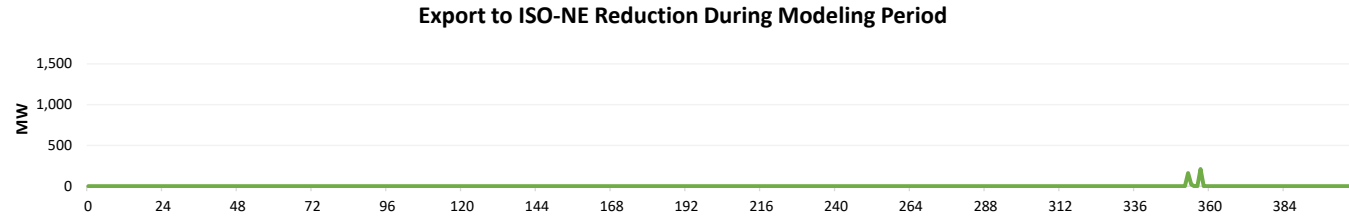
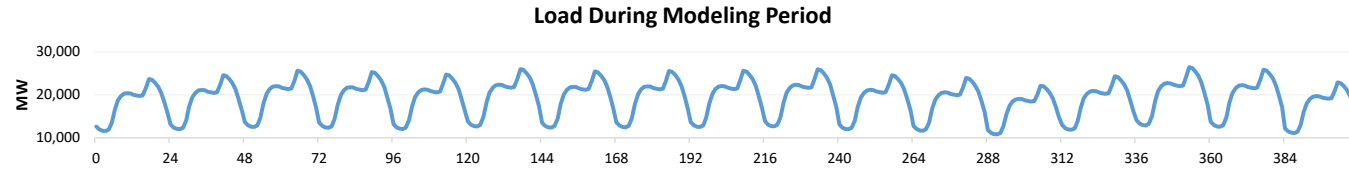


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 1 - PD 5 No Truck Refill



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	3
Total MWh	390
Avg. MW	1.0

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

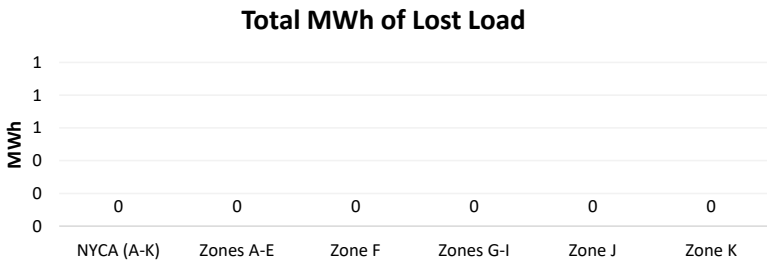
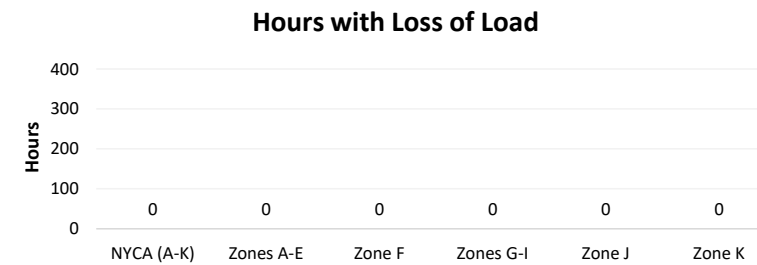
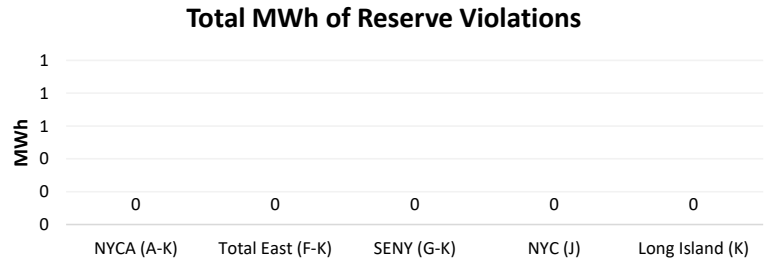
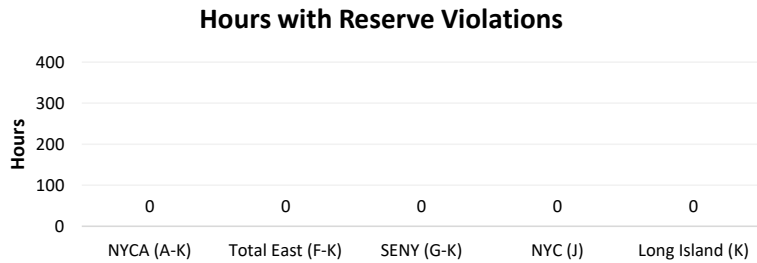
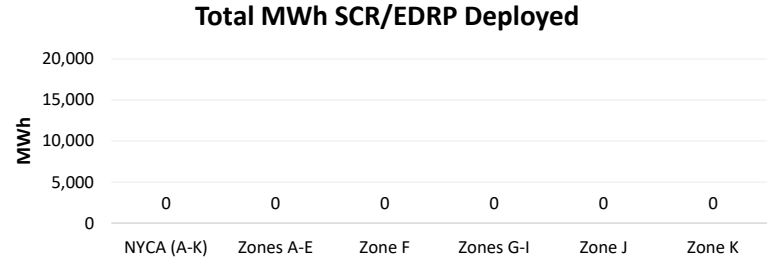
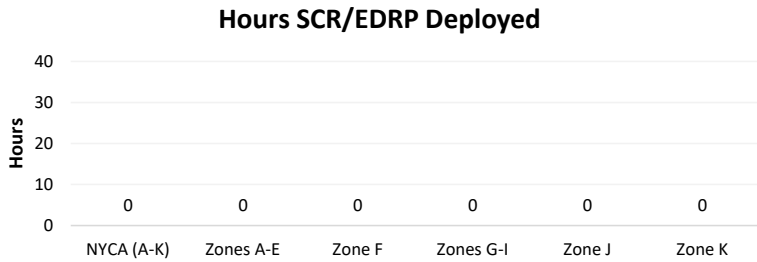
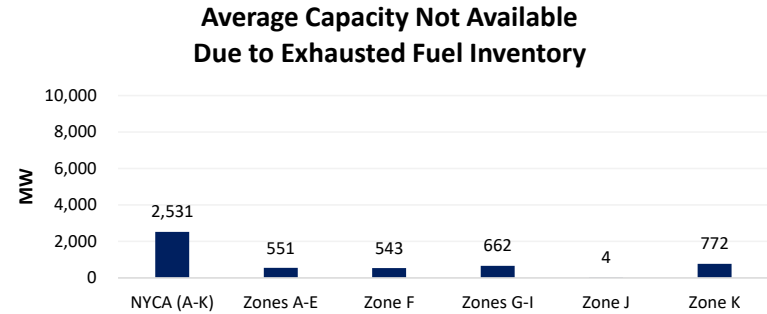
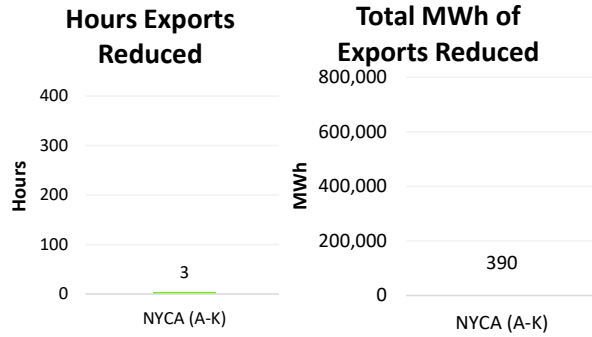
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

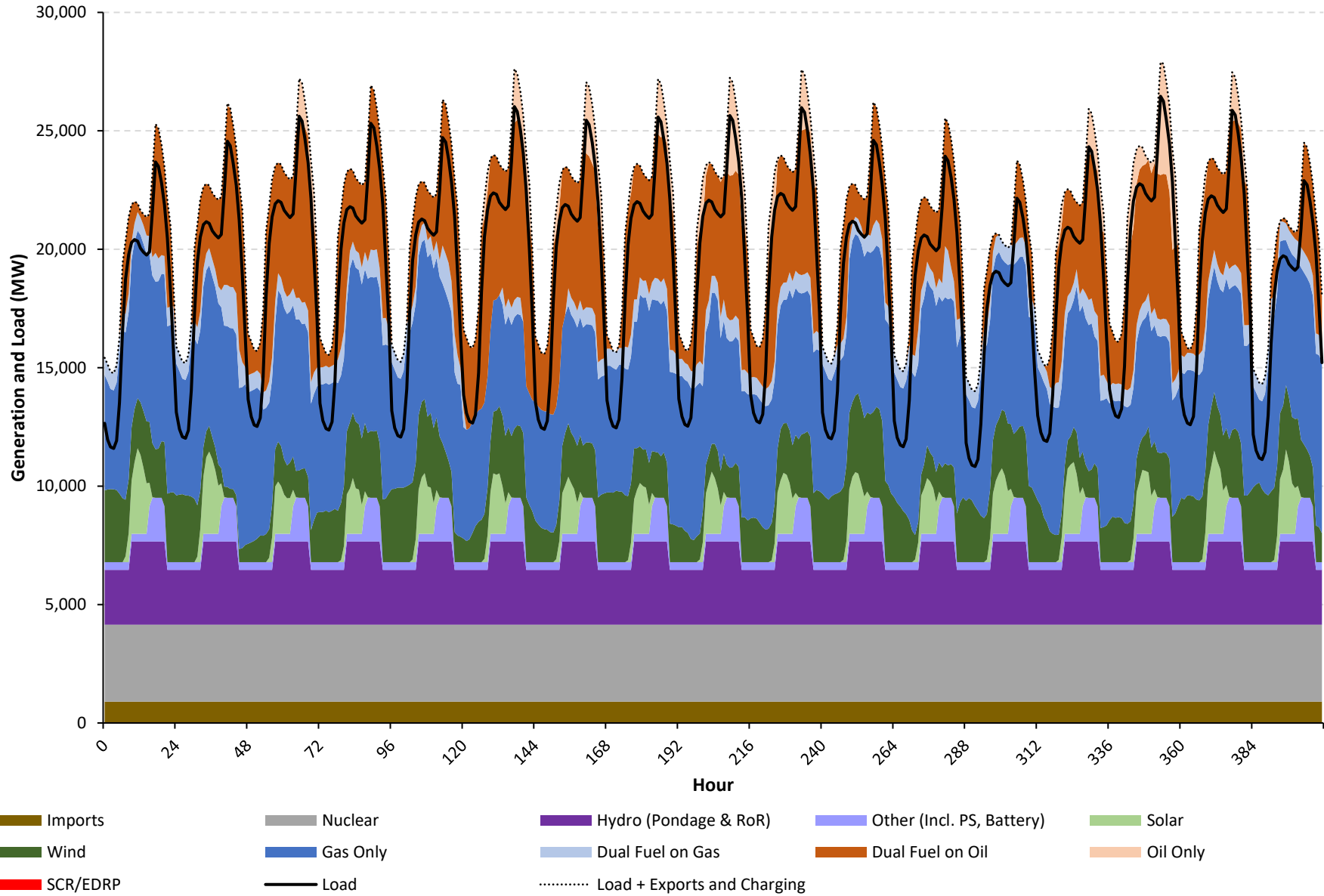
Full Period Results Summary

Case Name: Scenario 1 - PD 5 No Truck Refill

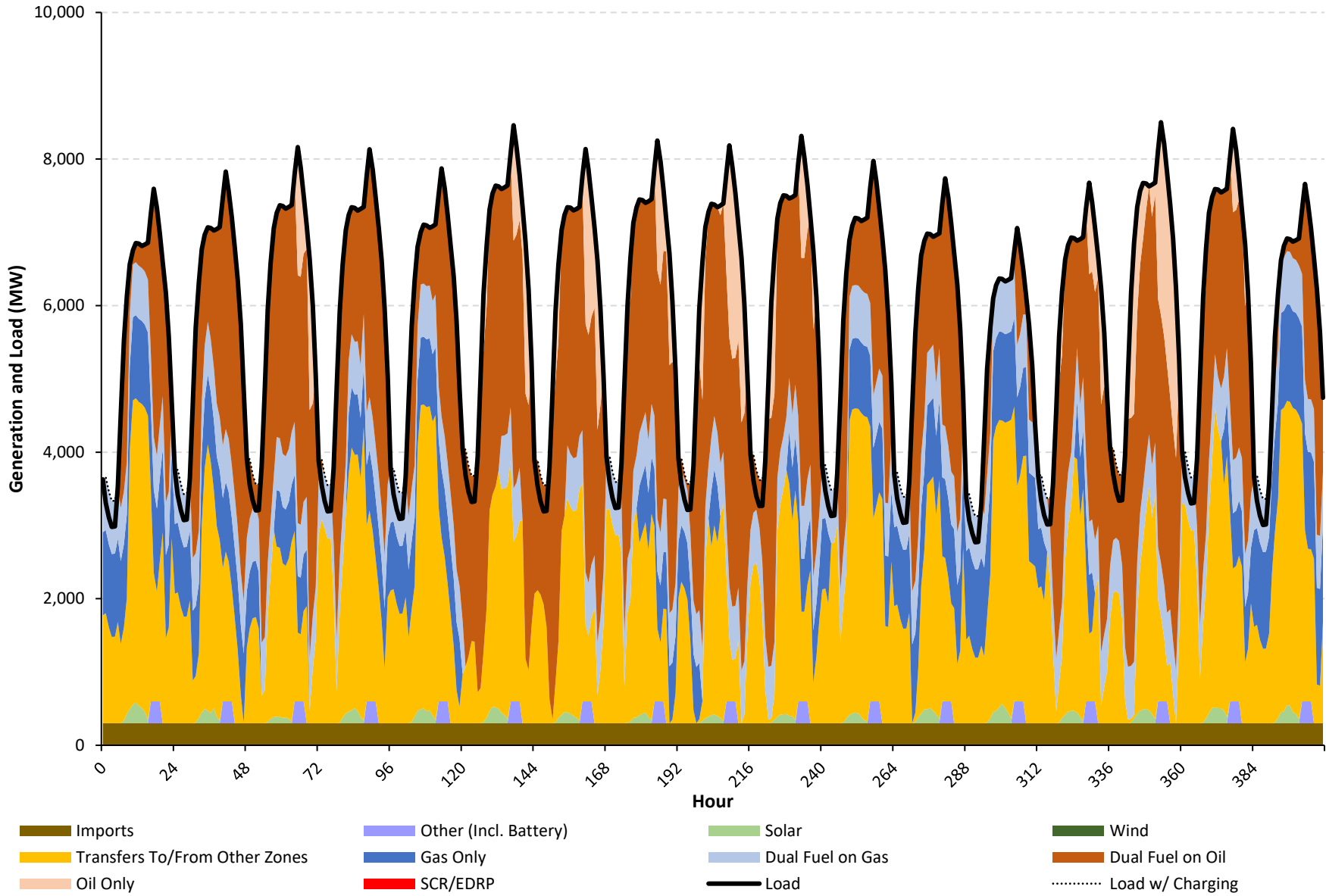
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



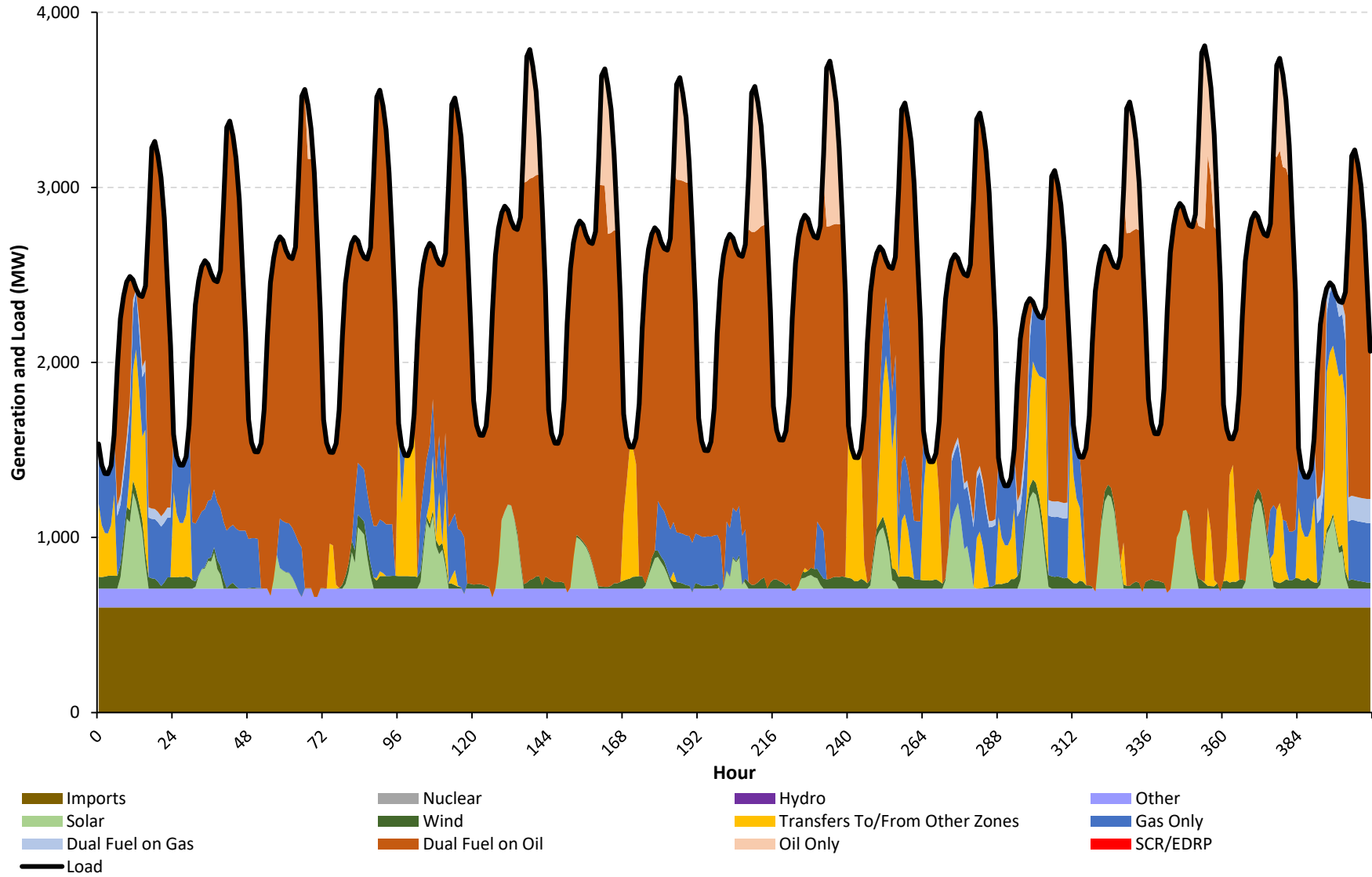
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 5 No Truck Refill



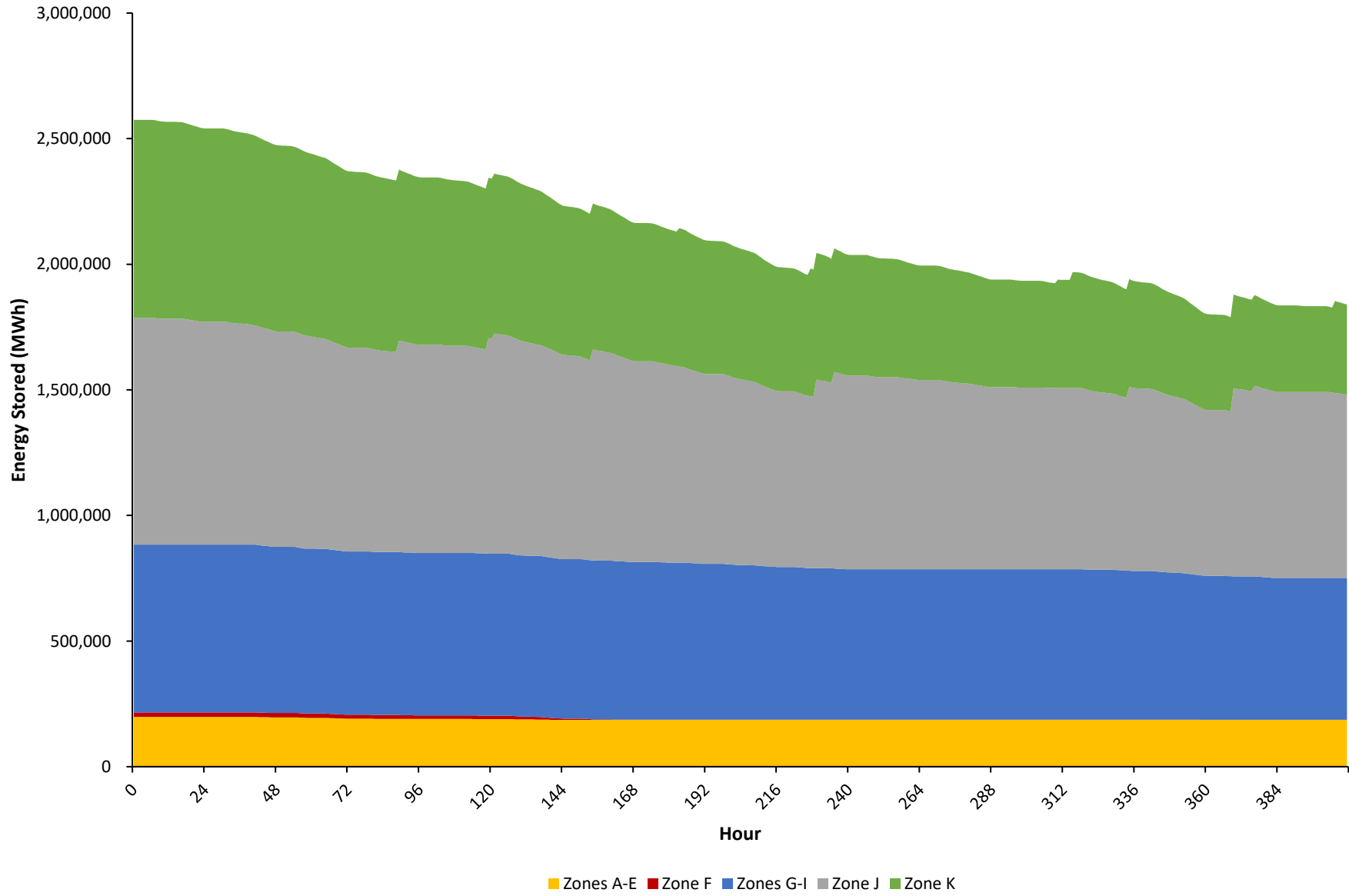
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 5 No Truck Refill

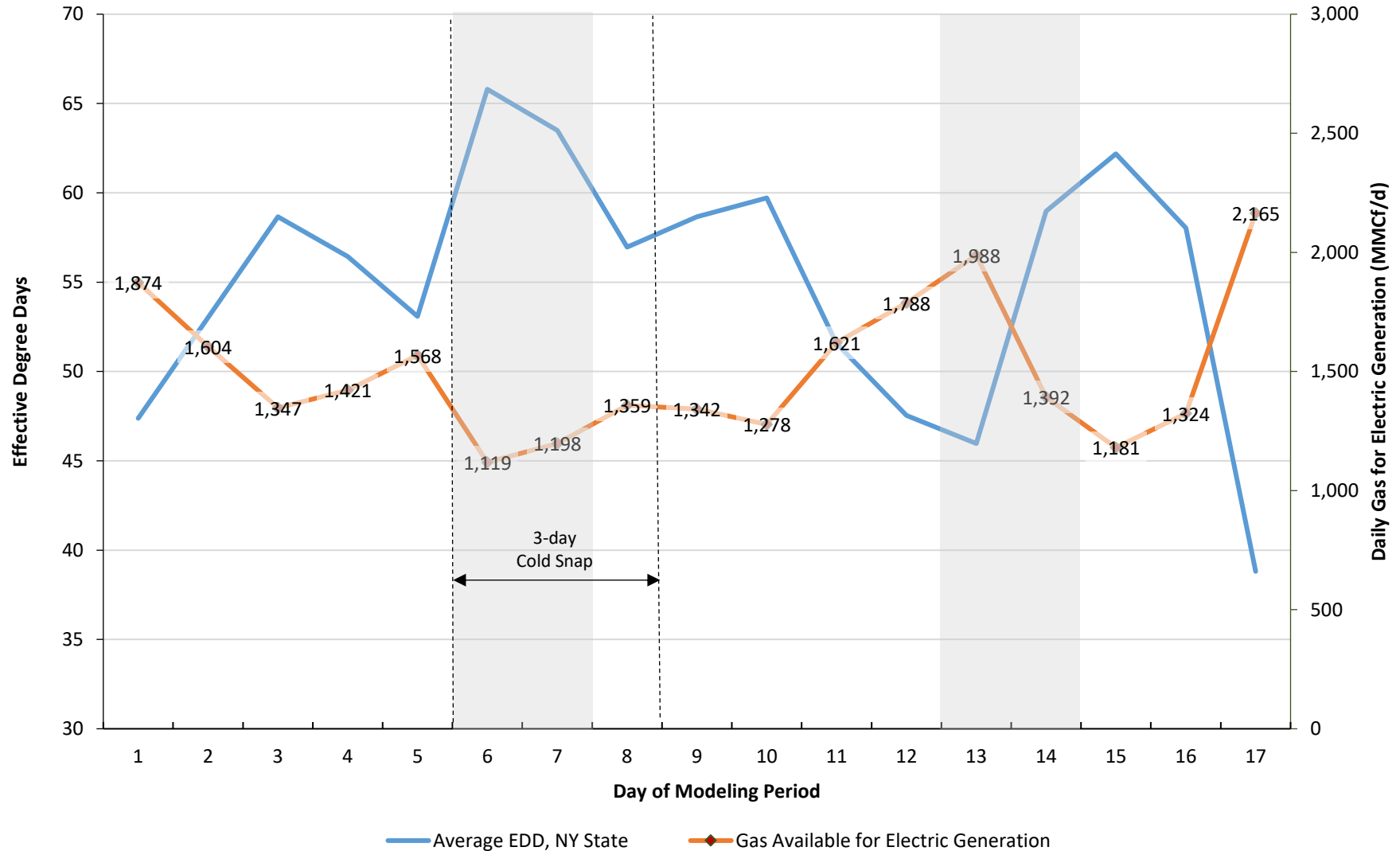


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

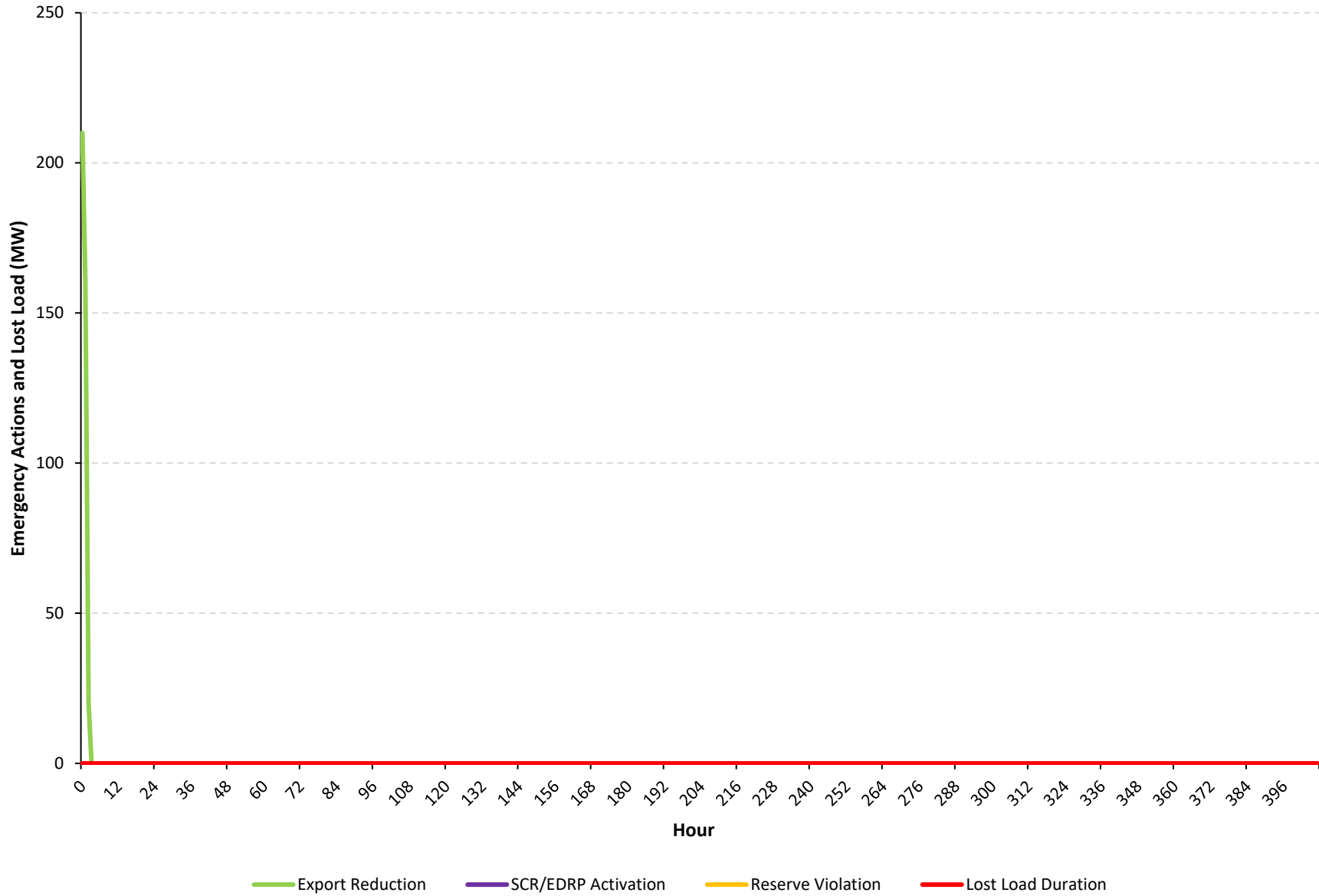
Scenario 1 - PD 5 No Truck Refill



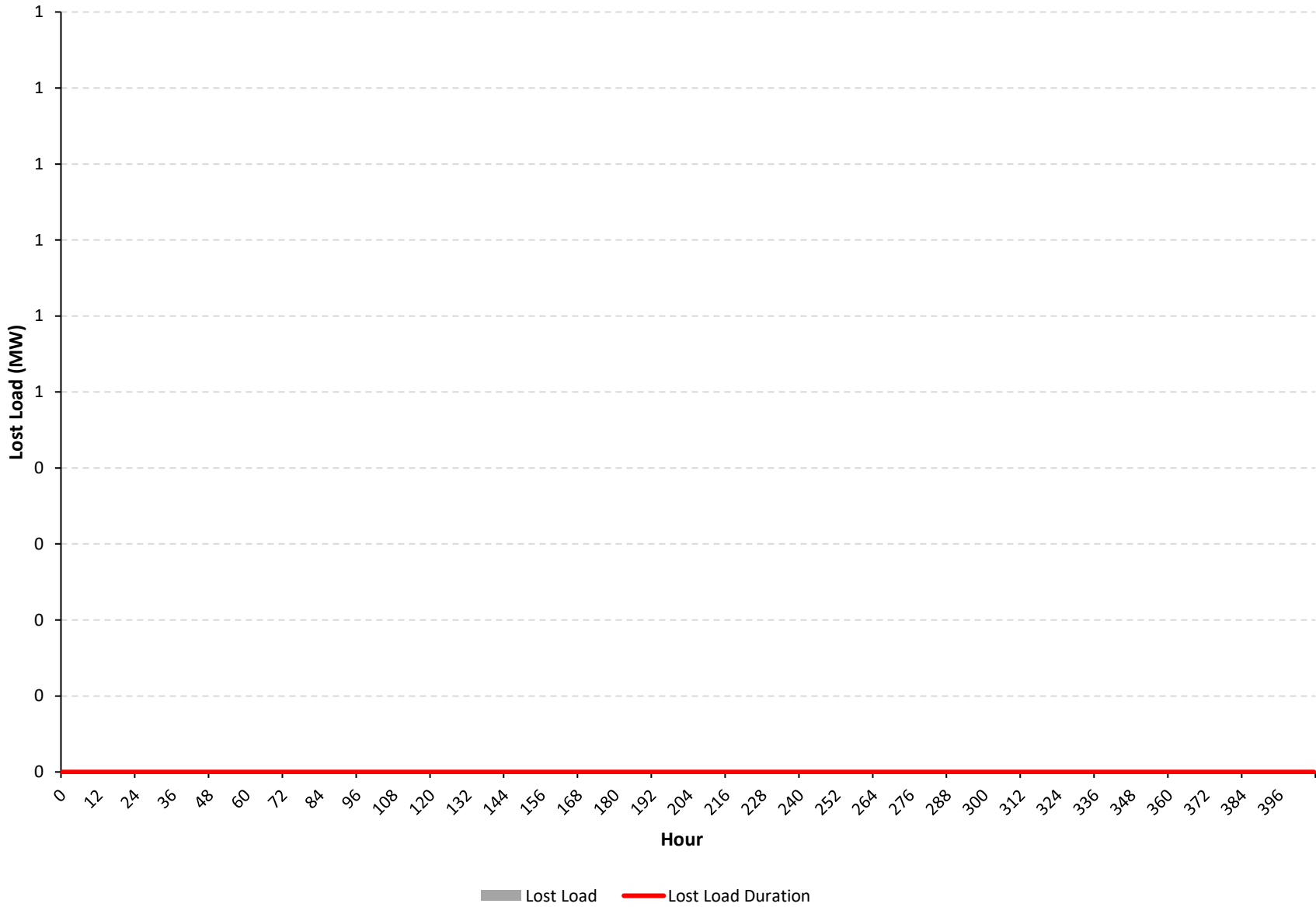
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 5 No Truck Refill



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 5 No Truck Refill



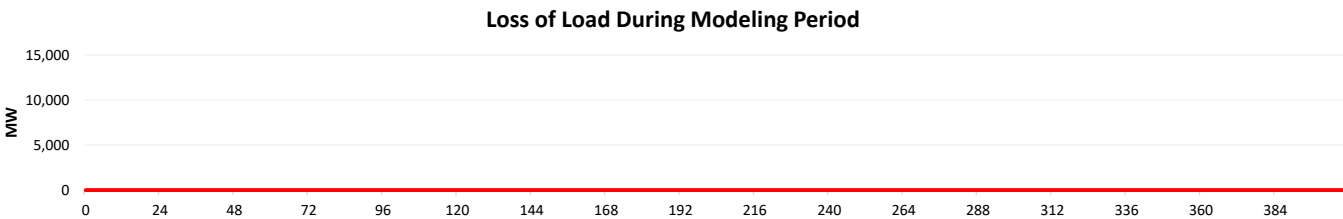
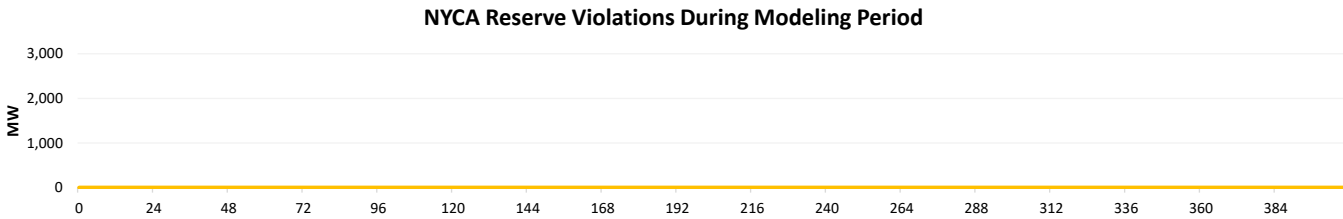
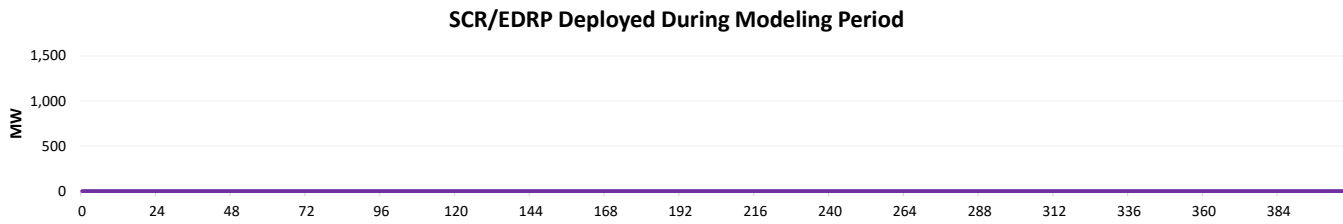
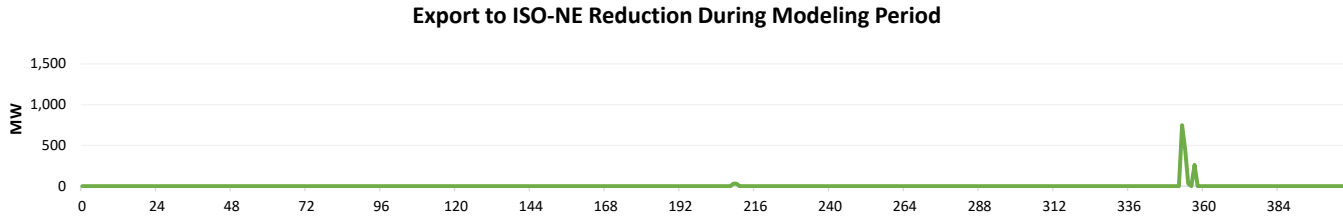
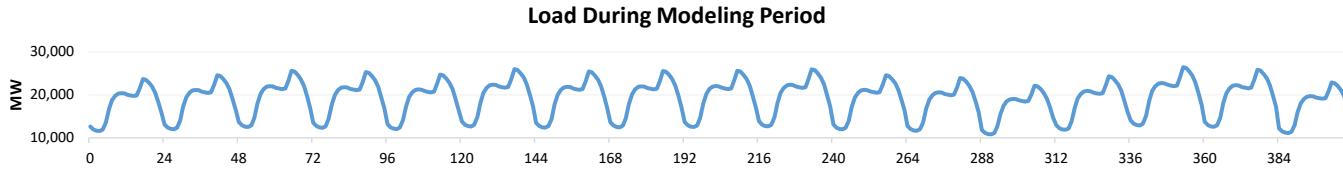
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 1 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	6
Total MWh	1,539
Avg. MW	3.8

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

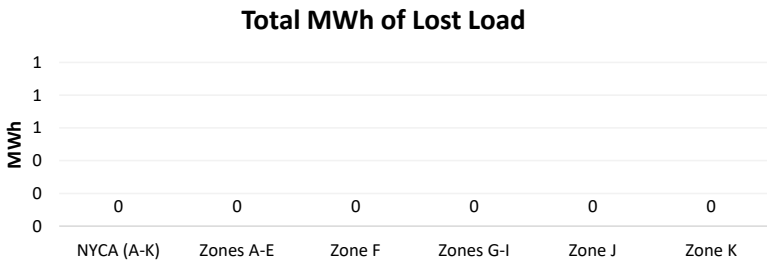
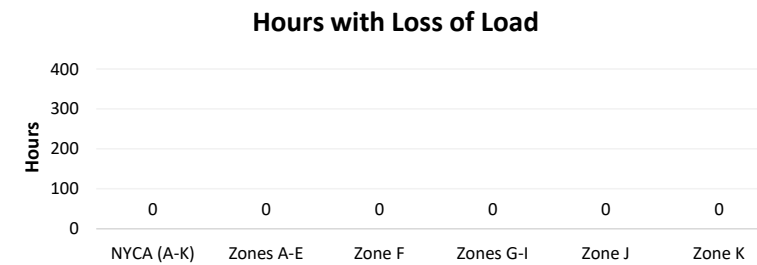
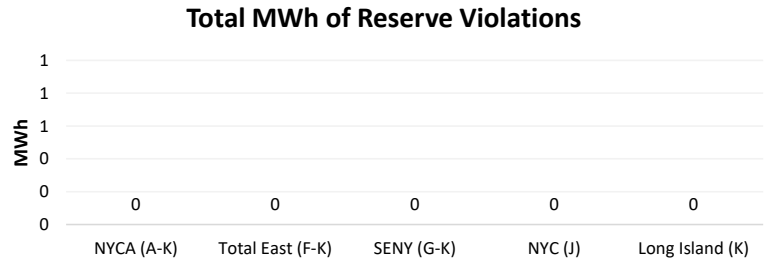
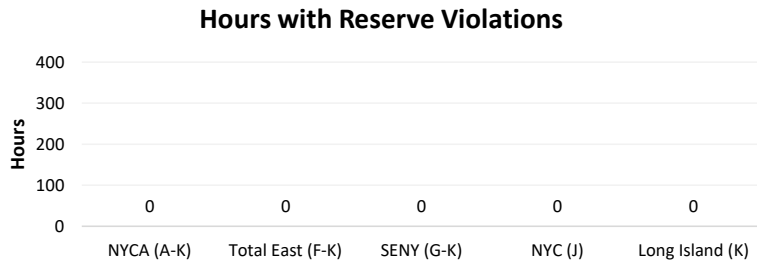
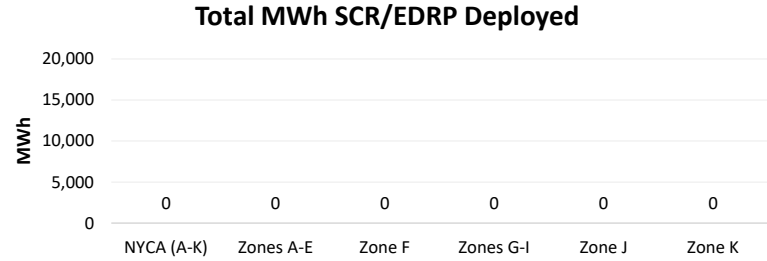
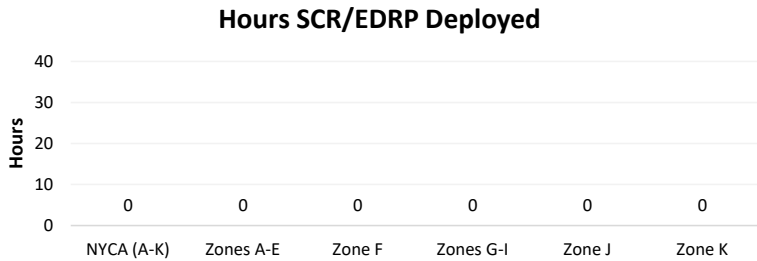
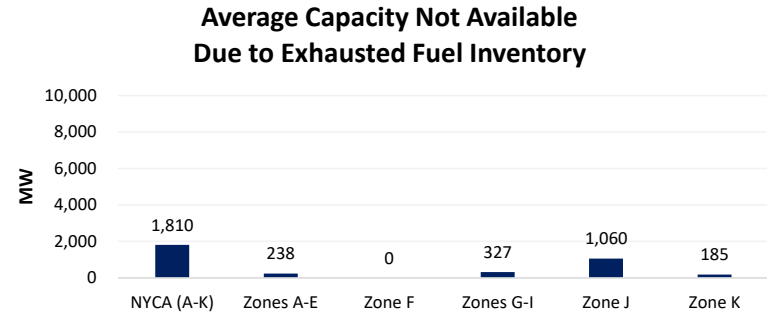
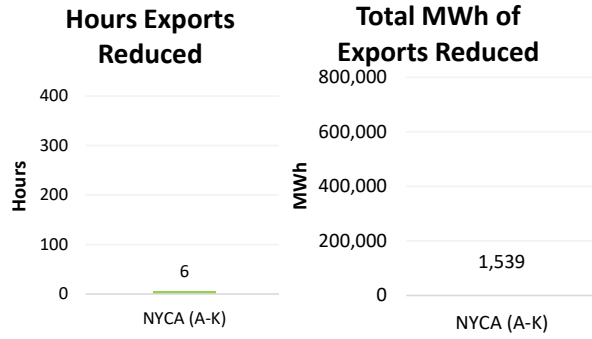
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

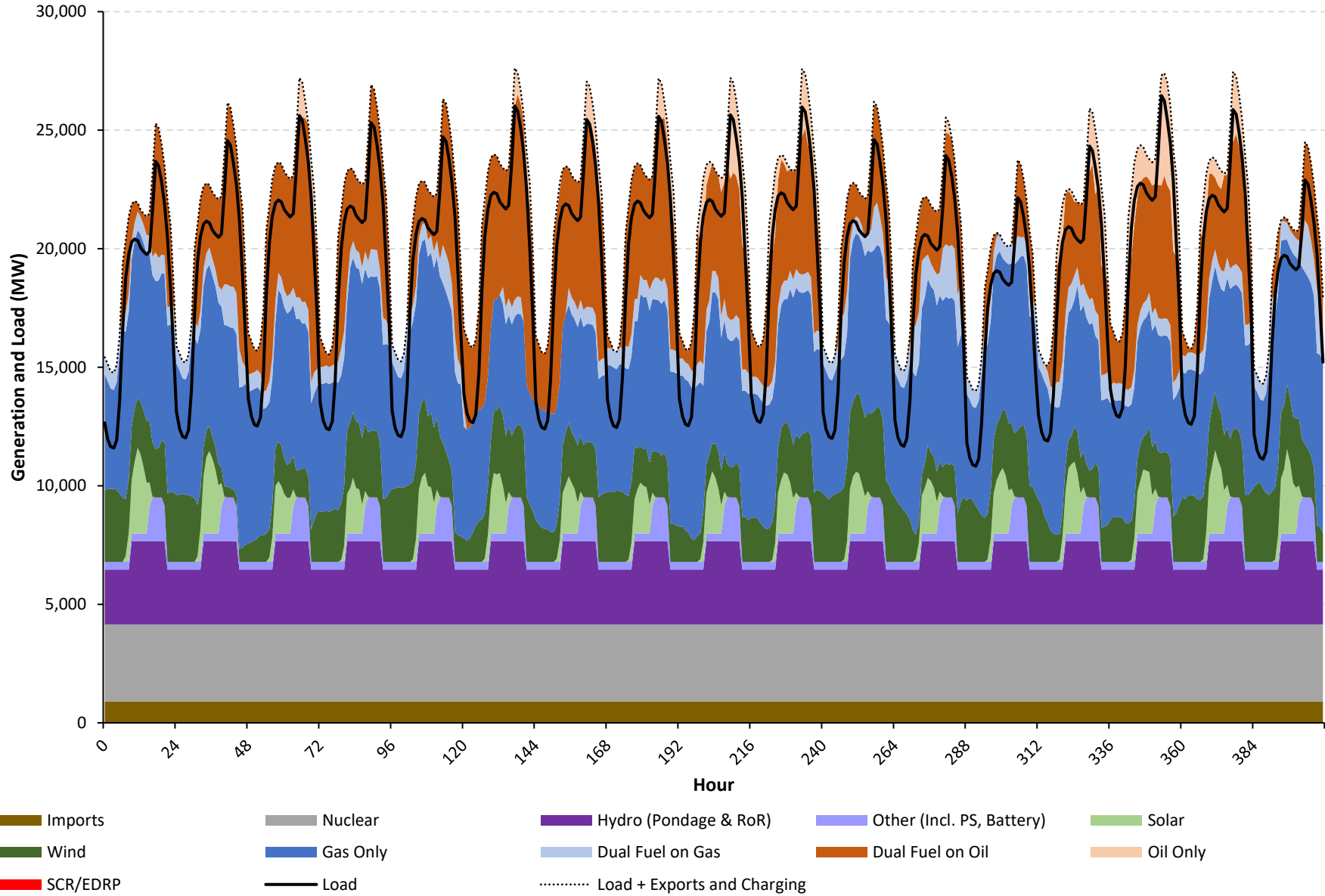
Full Period Results Summary

Case Name: Scenario 1 - PD 6 No Barge Refill

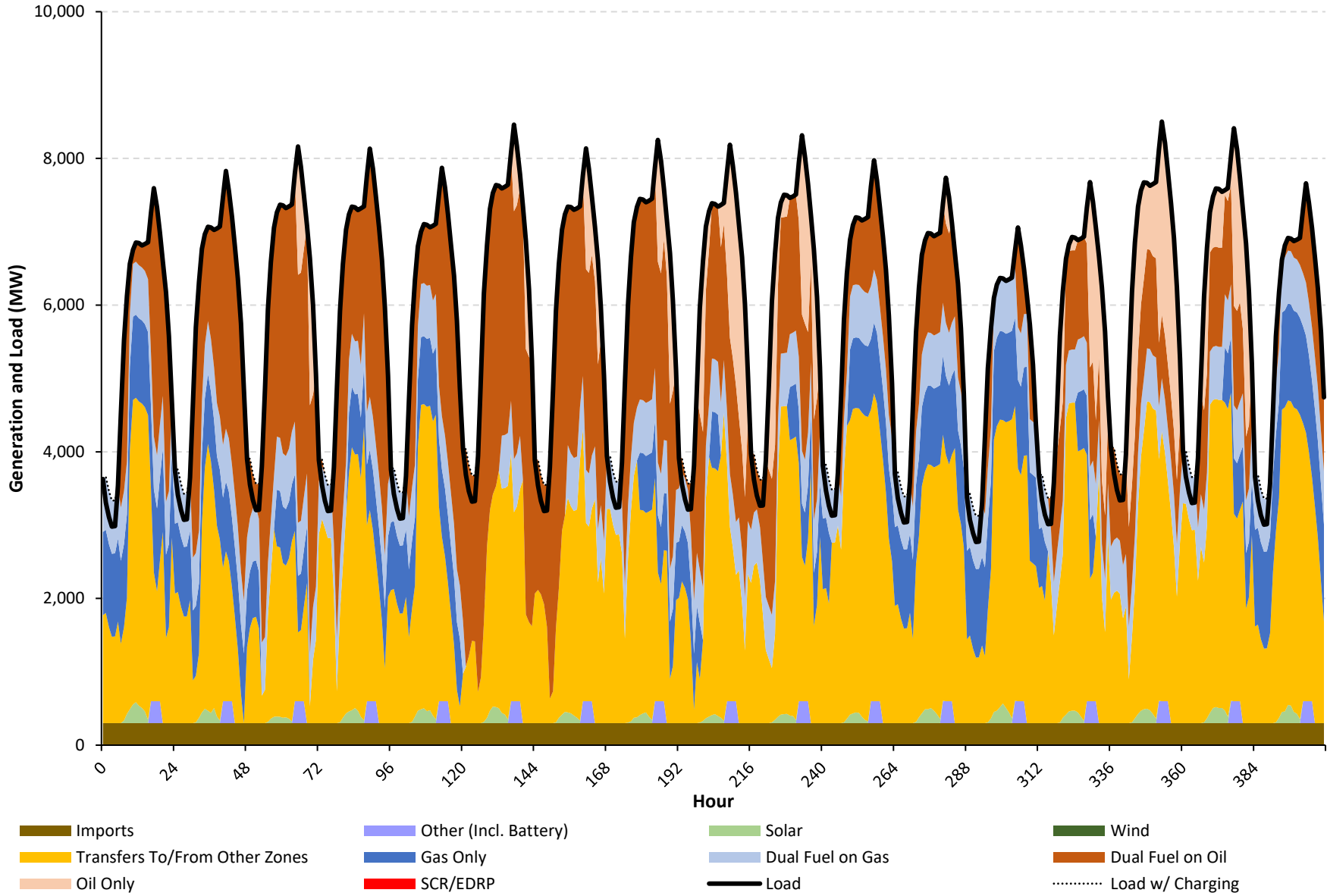
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



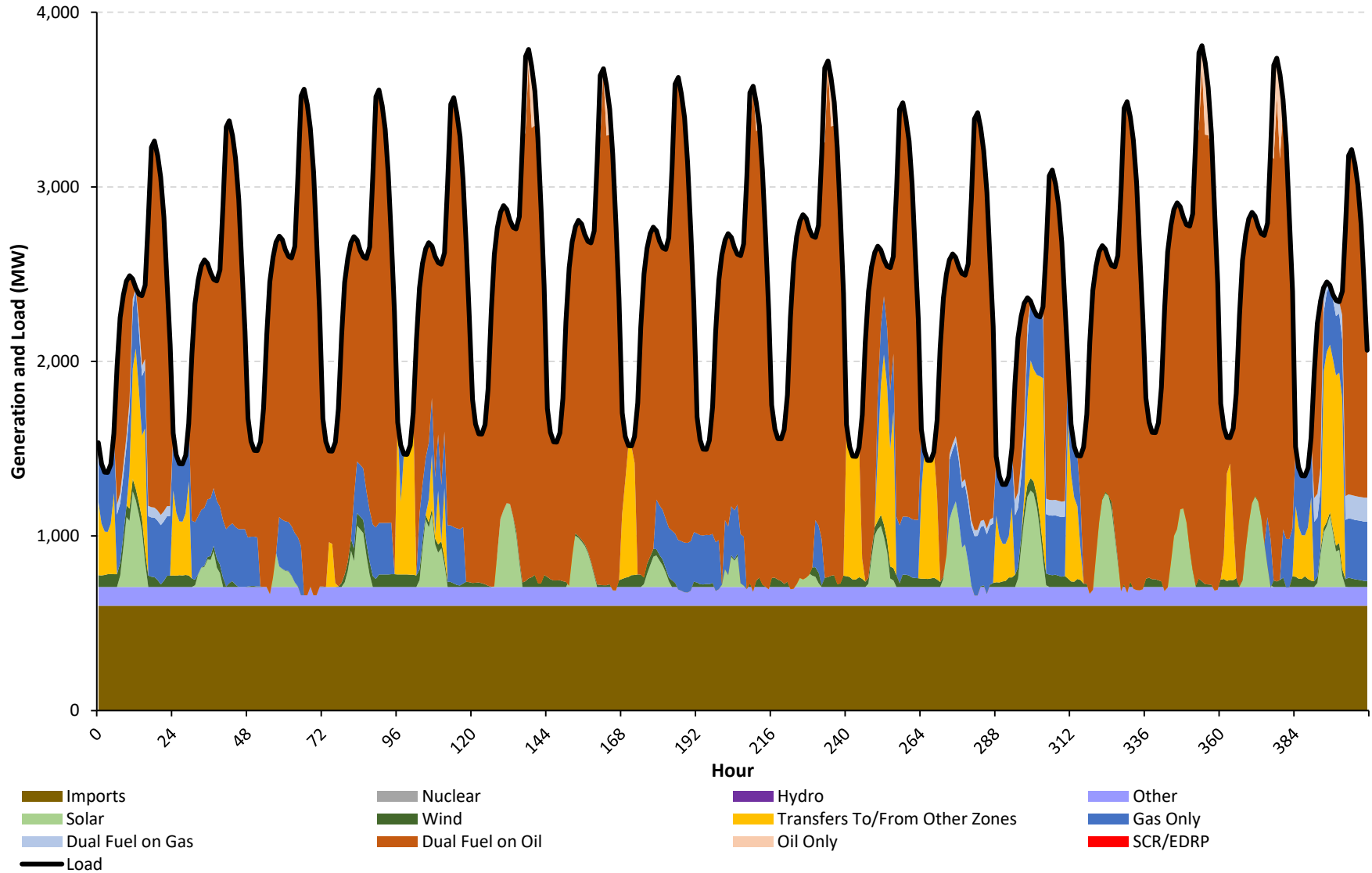
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 6 No Barge Refill



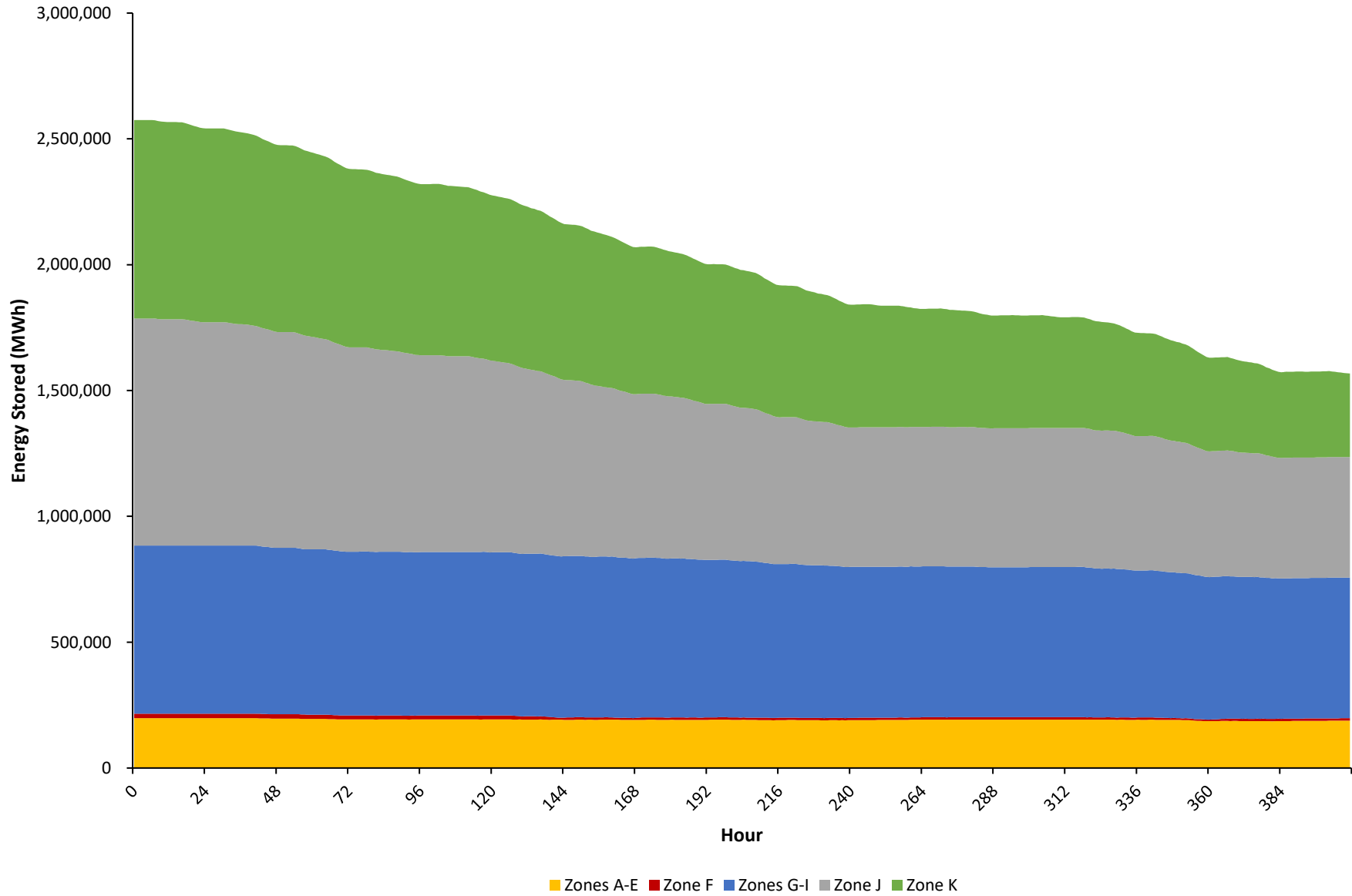
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 6 No Barge Refill

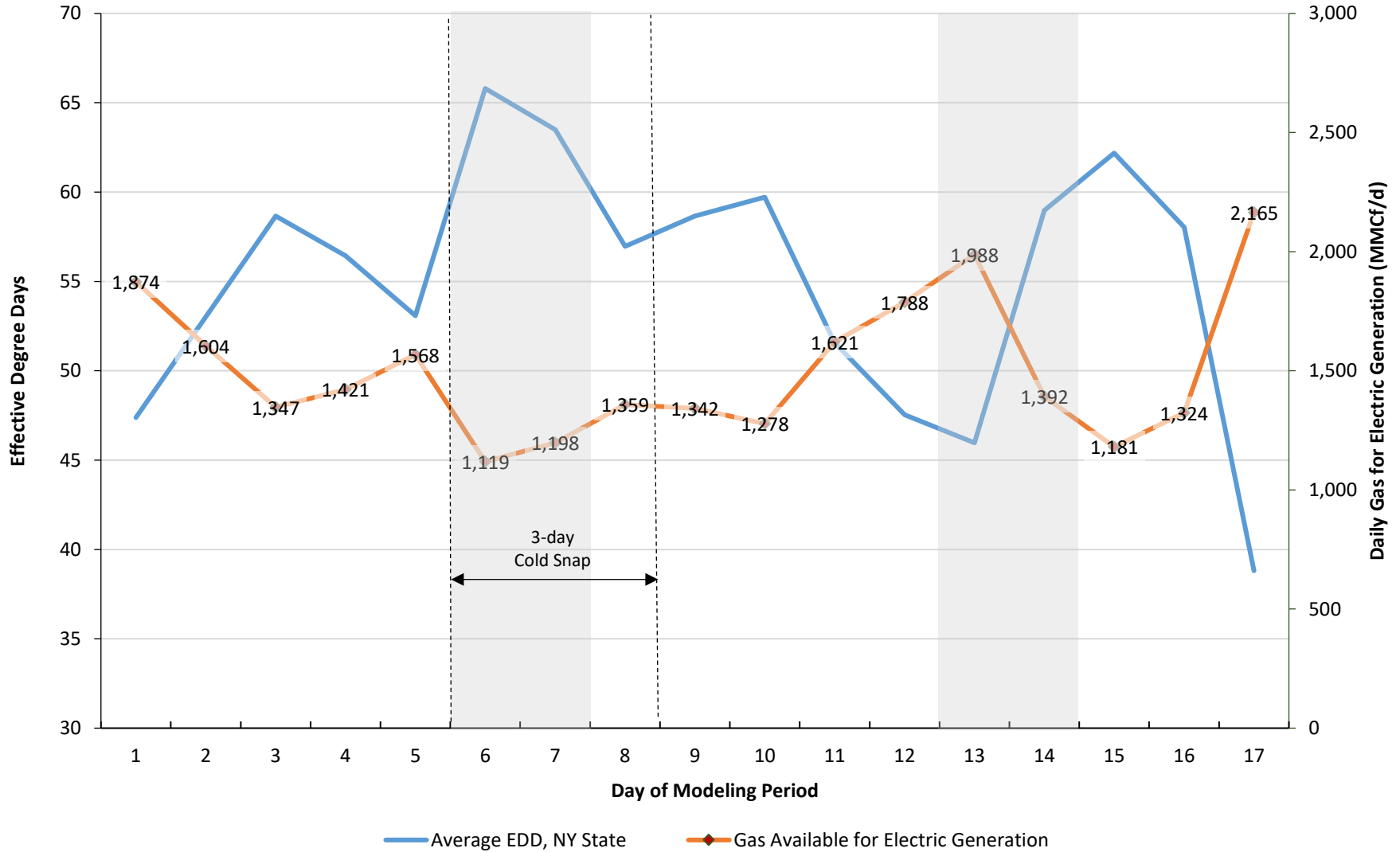


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

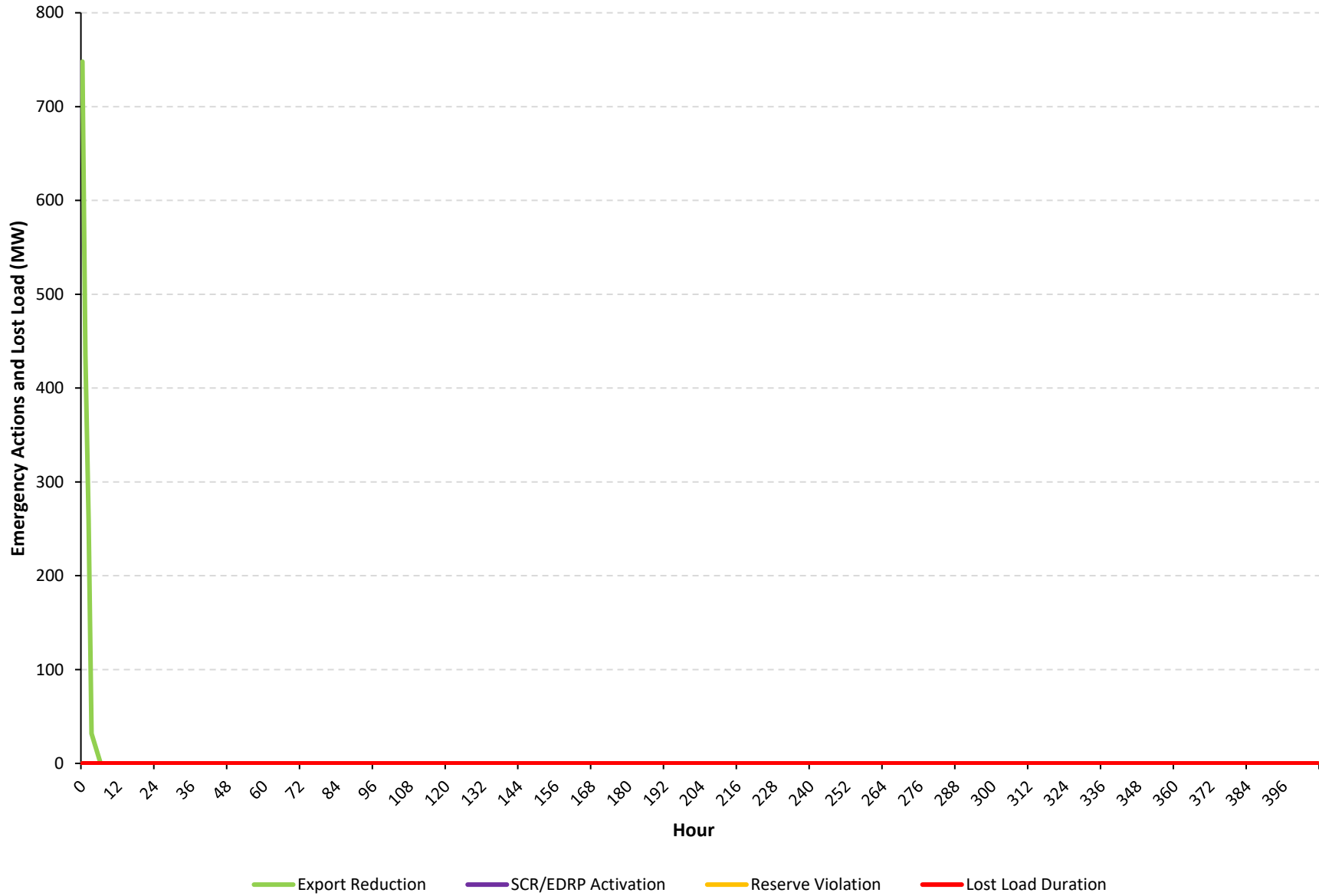
Scenario 1 - PD 6 No Barge Refill



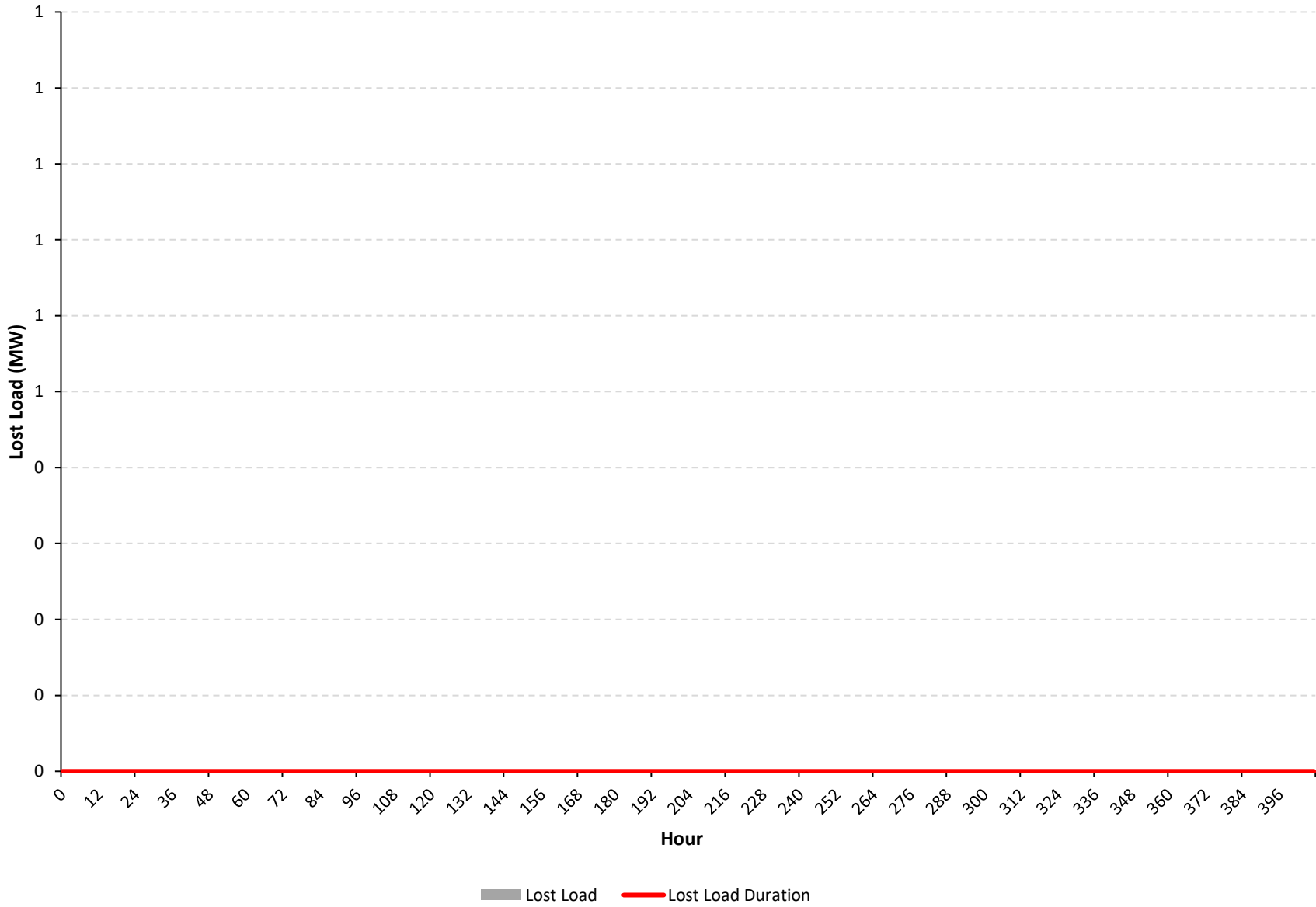
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 6 No Barge Refill



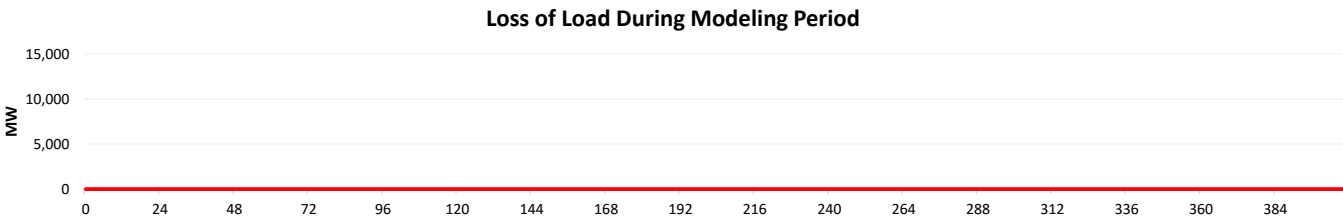
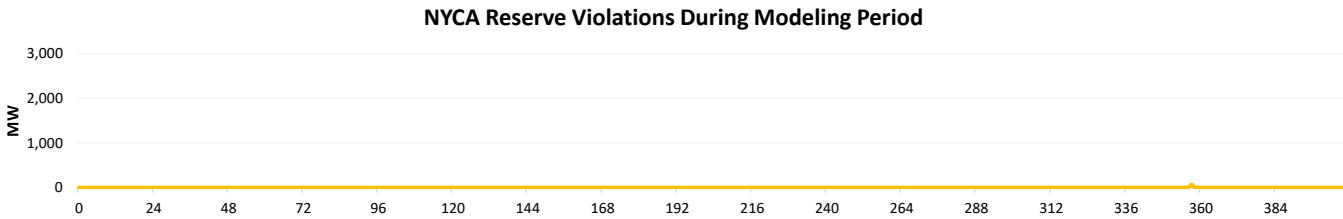
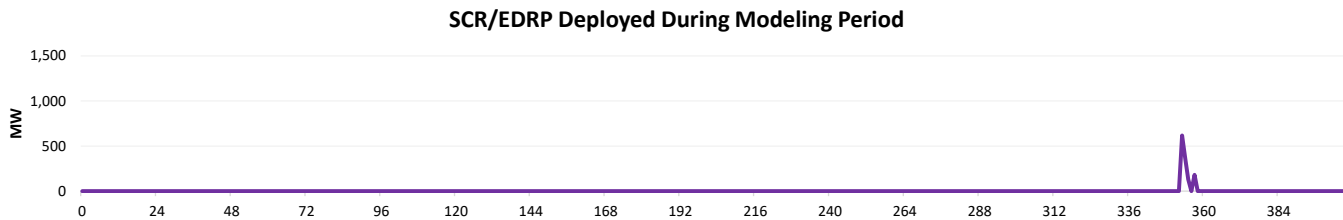
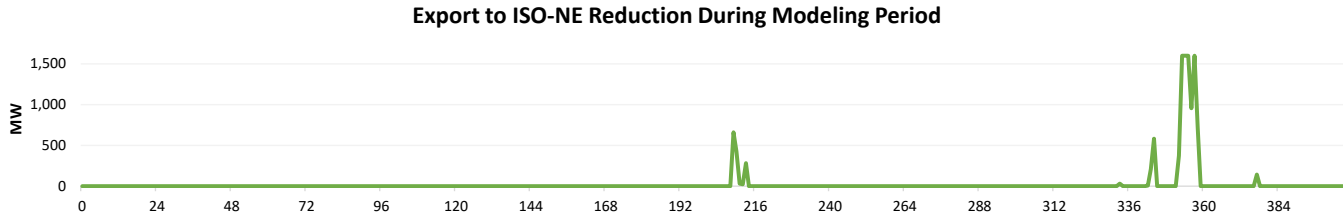
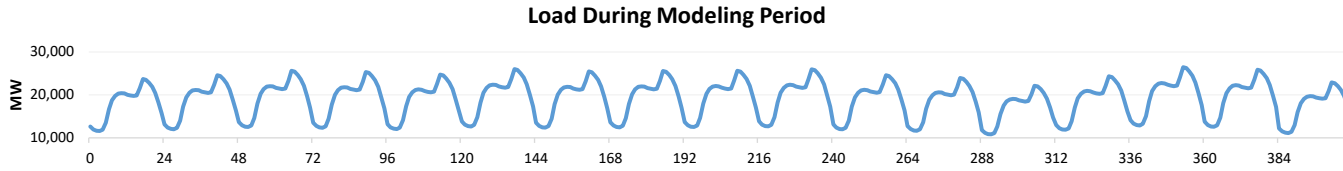
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 1 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	17
Total MWh	10,839
Avg. MW	26.6

SCR Deployment	
Total Hrs.	4
Total MWh	1,290
Avg. MW	3.2

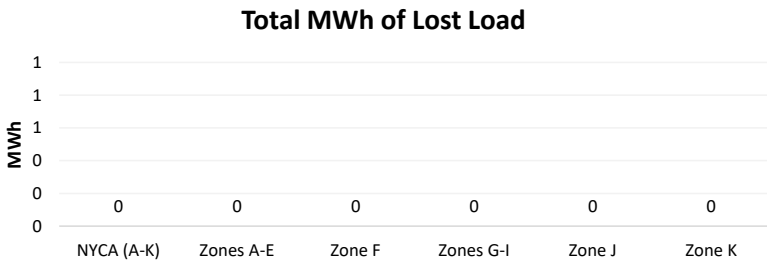
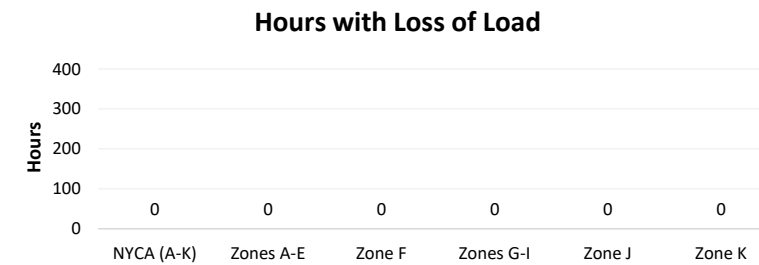
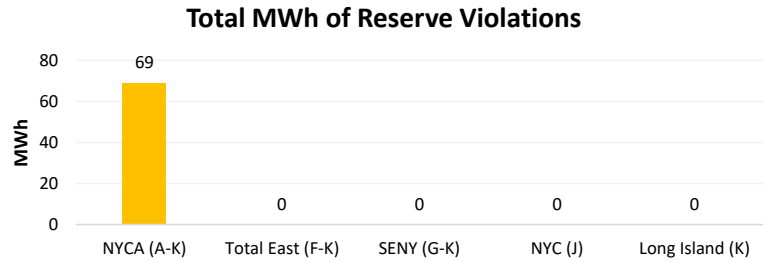
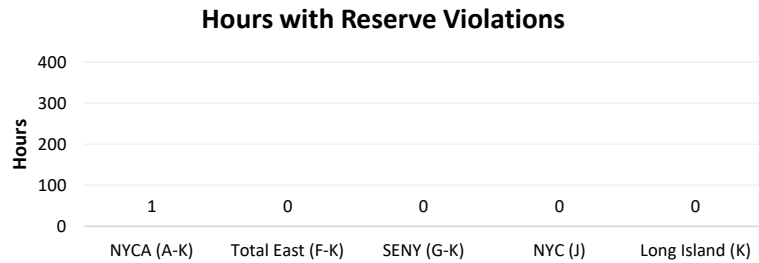
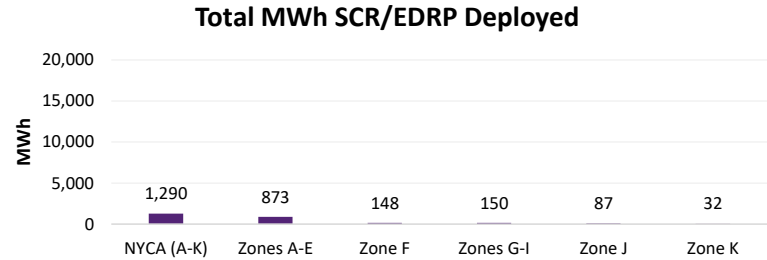
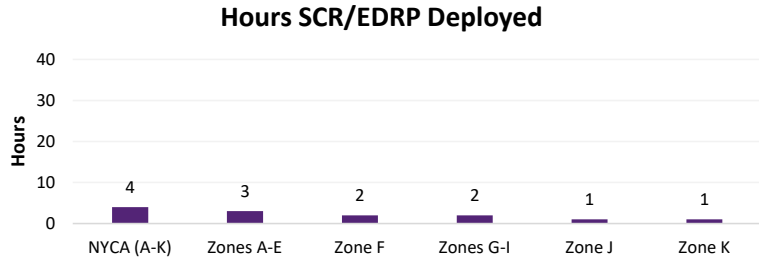
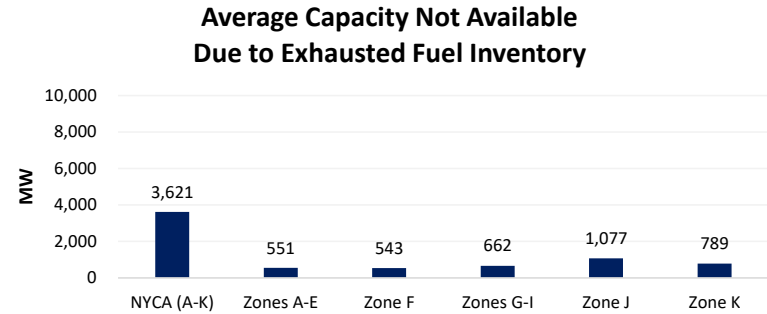
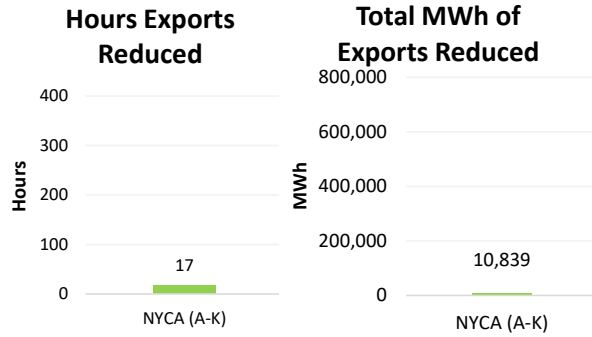
Reserve Violations	
Total Hrs.	1
Total MWh	69
Avg. MW	0.2
First Hour with Viol.	357
First Hour, Zone K	

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

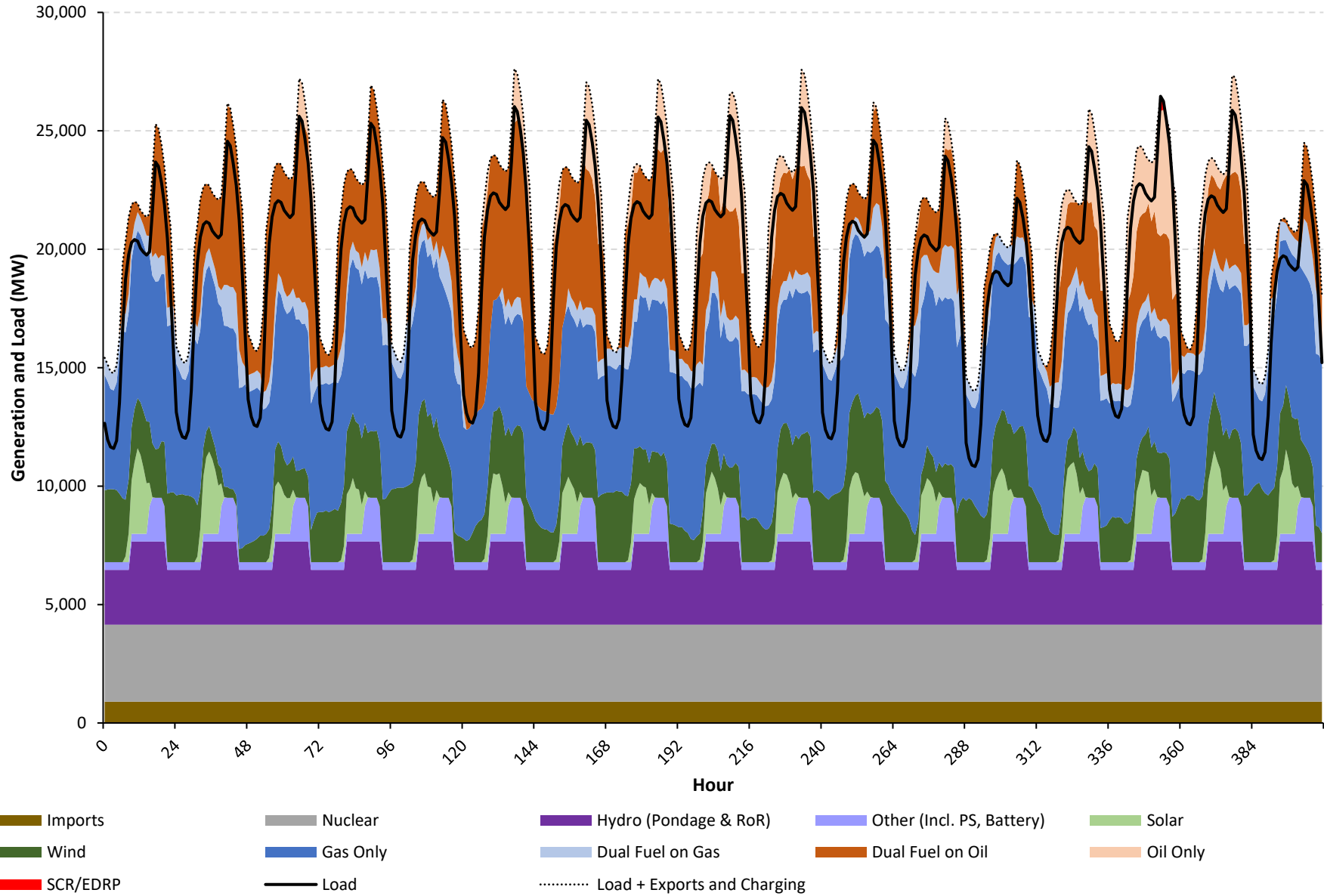
Full Period Results Summary

Case Name: Scenario 1 - PD 7 No Refill

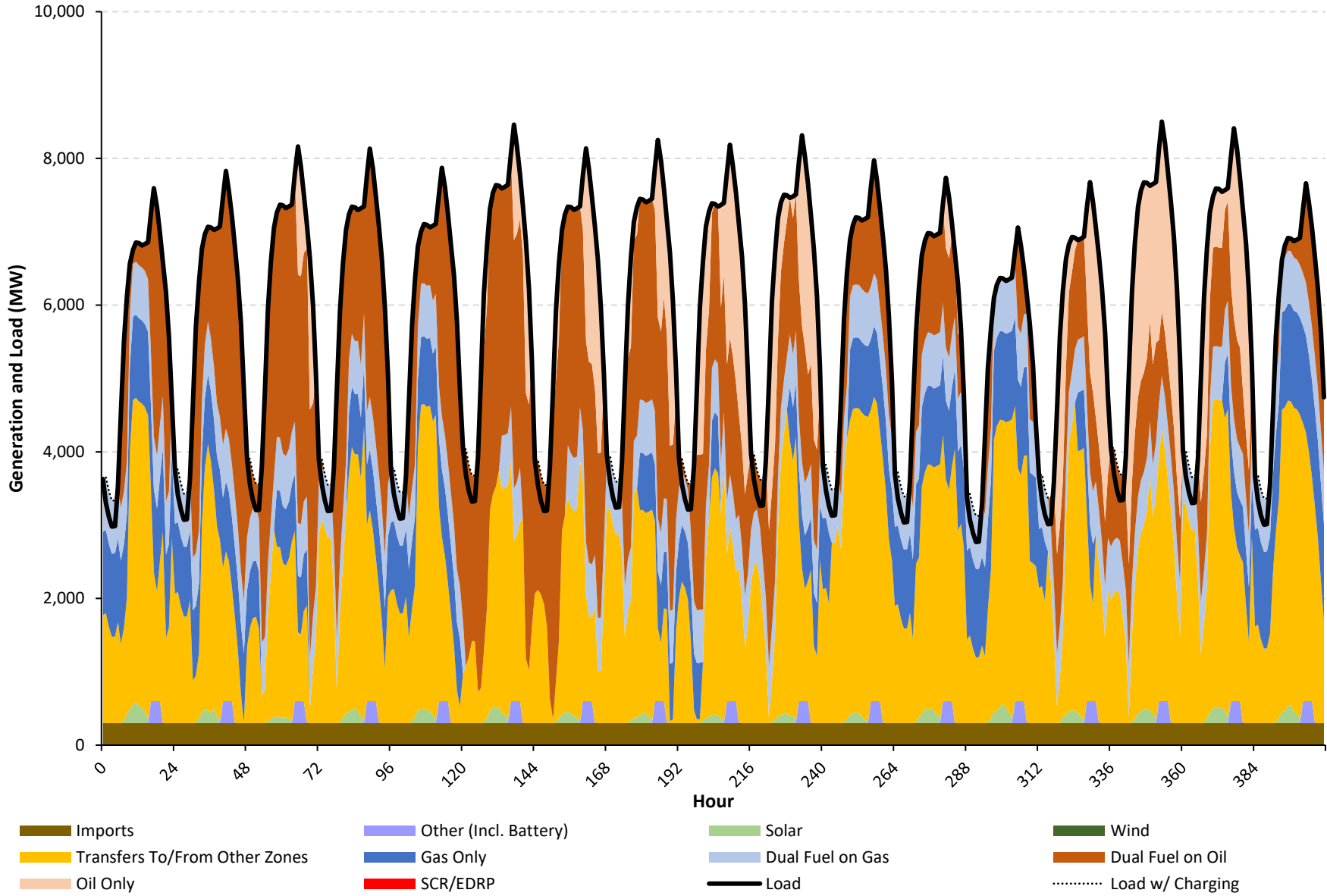
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



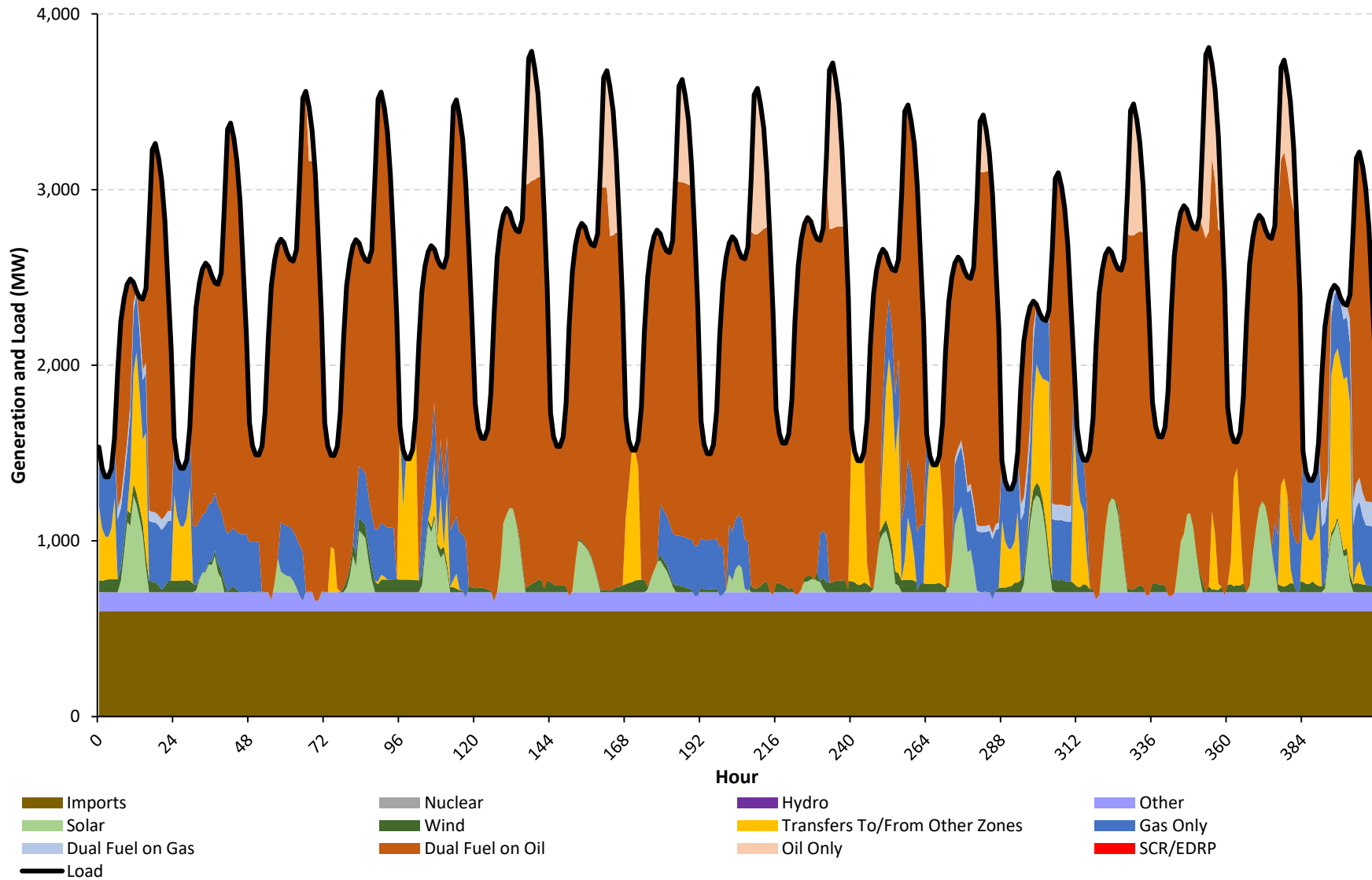
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 7 No Refill



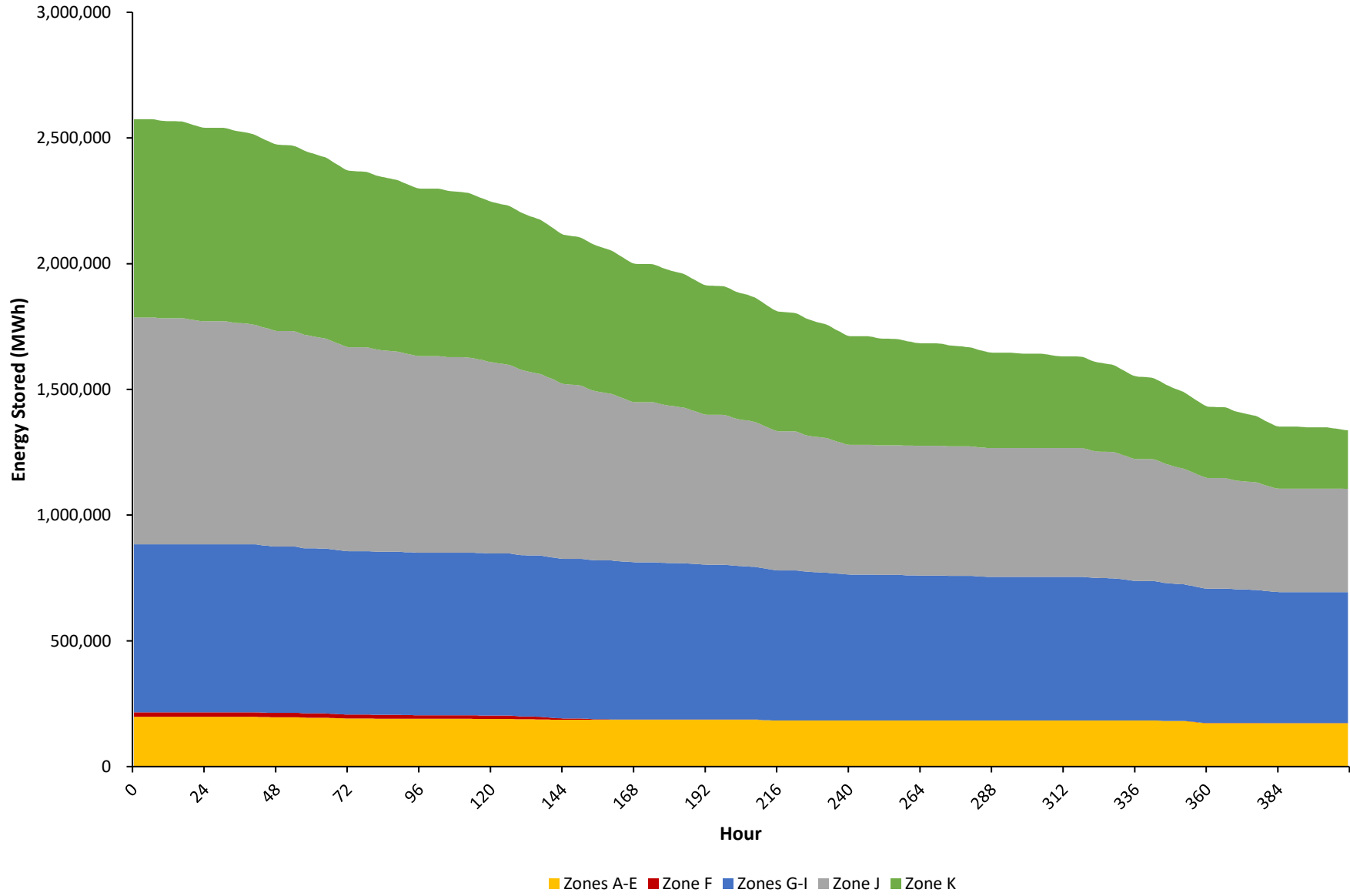
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 7 No Refill

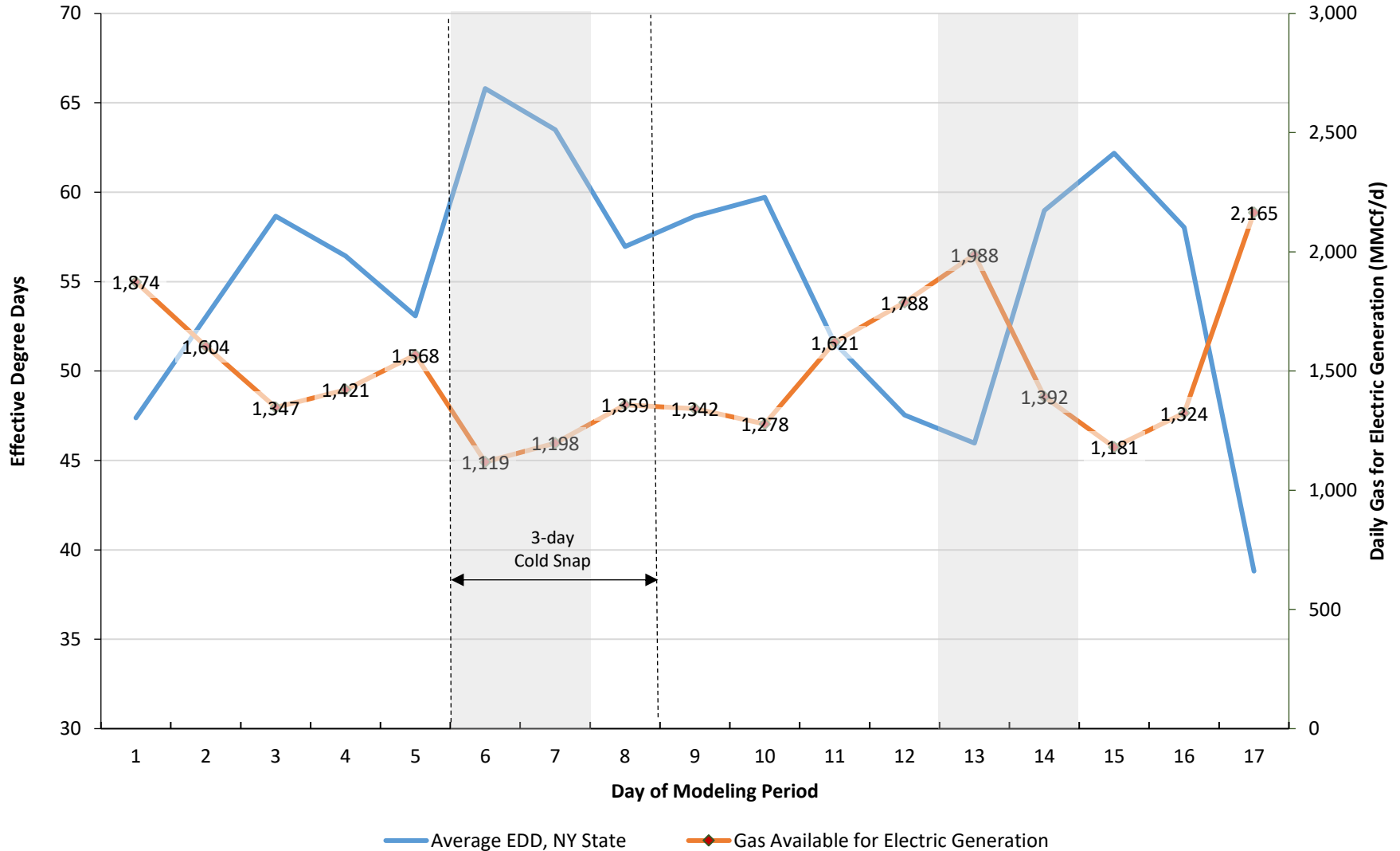


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

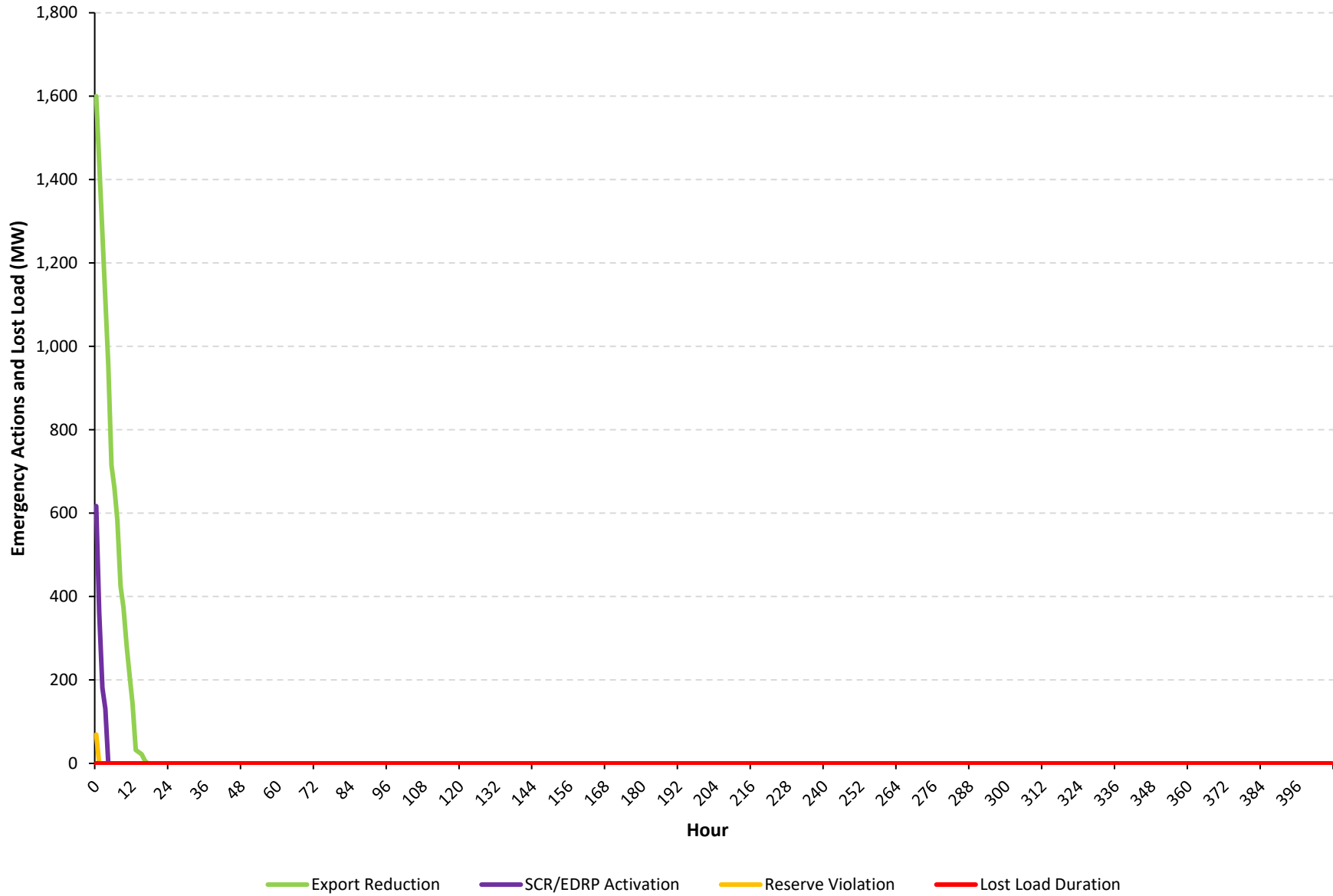
Scenario 1 - PD 7 No Refill



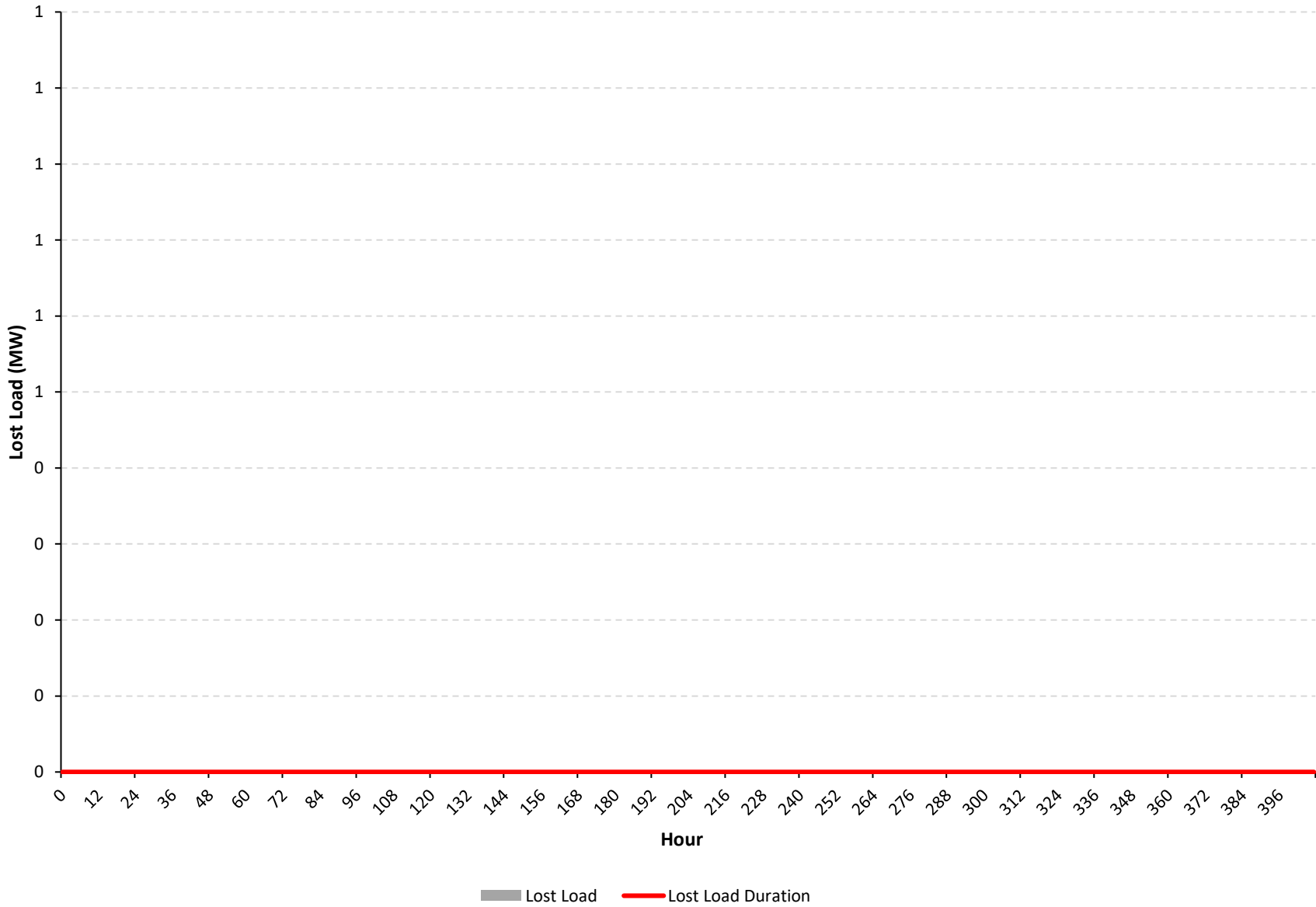
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 7 No Refill



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 7 No Refill



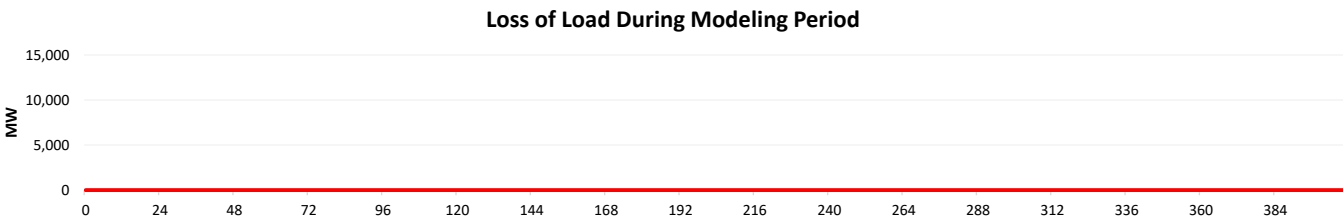
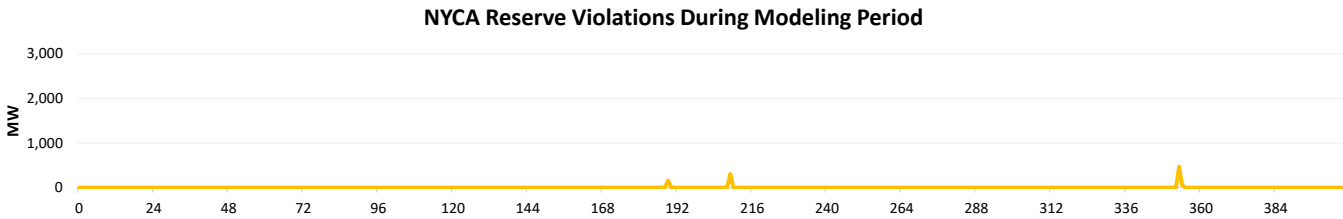
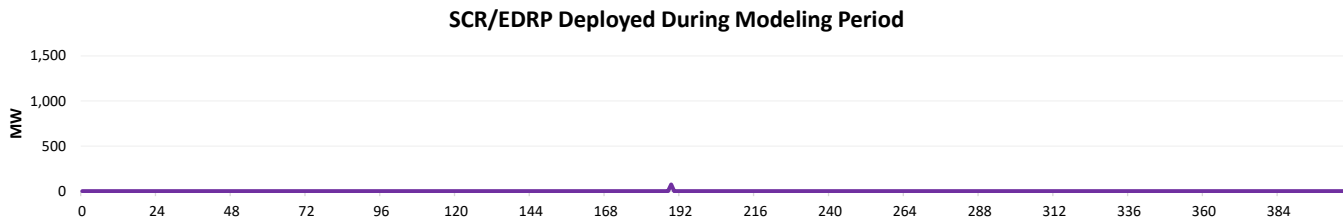
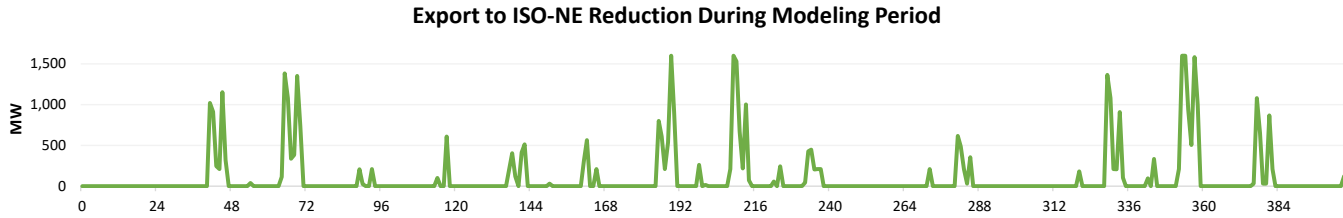
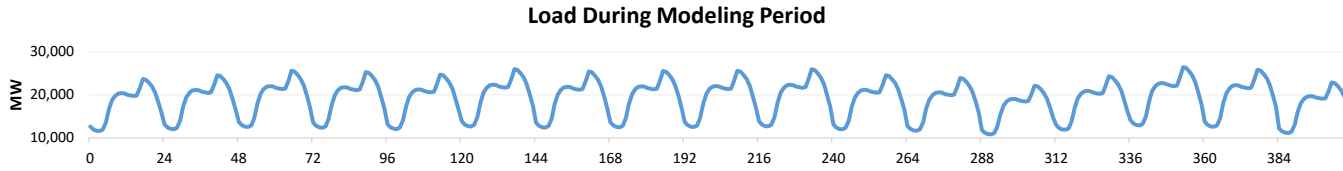
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	81
Total MWh	42,162
Avg. MW	103.3

SCR Deployment	
Total Hrs.	1
Total MWh	74
Avg. MW	0.2

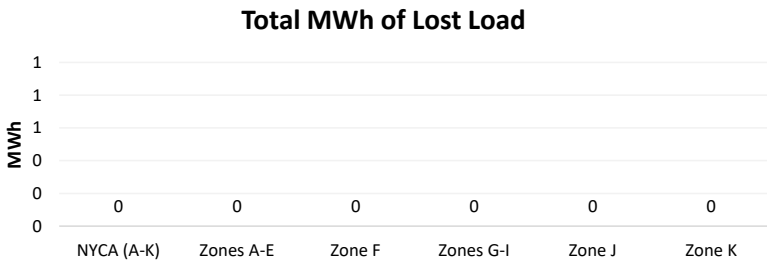
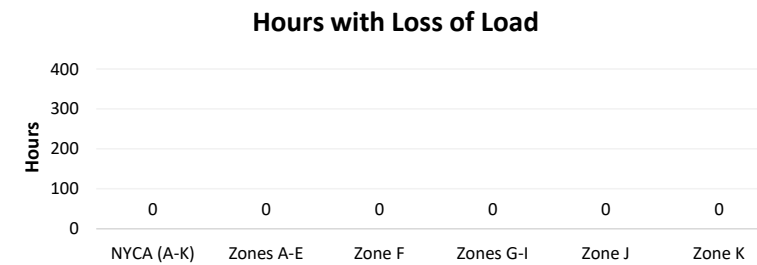
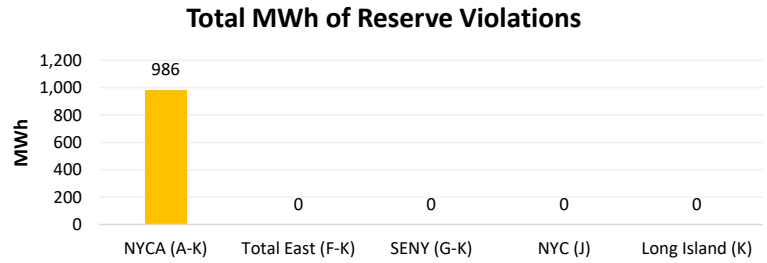
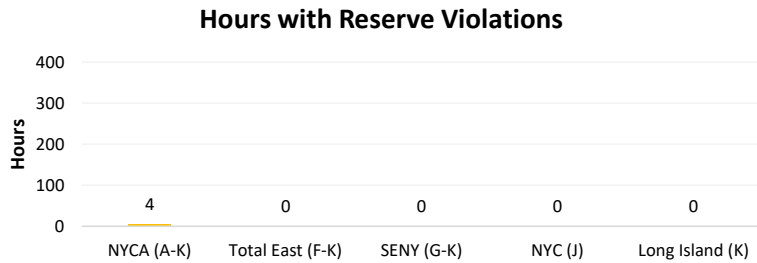
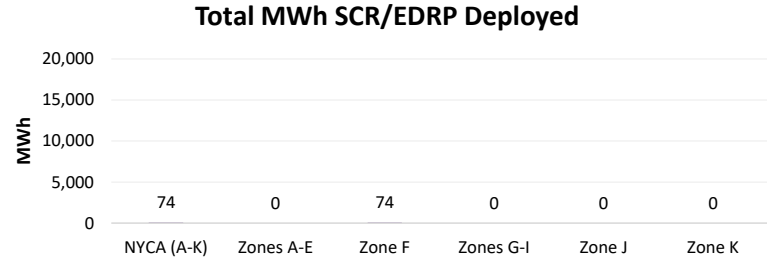
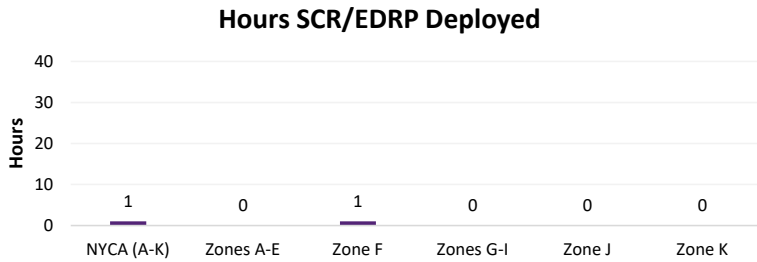
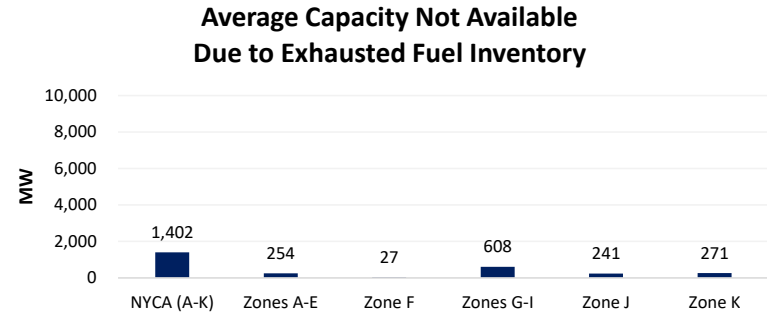
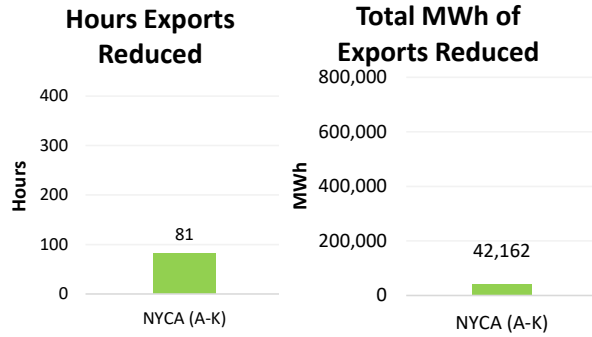
Reserve Violations	
Total Hrs.	4
Total MWh	986
Avg. MW	2.4
First Hour with Viol.	189
First Hour, Zone K	

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

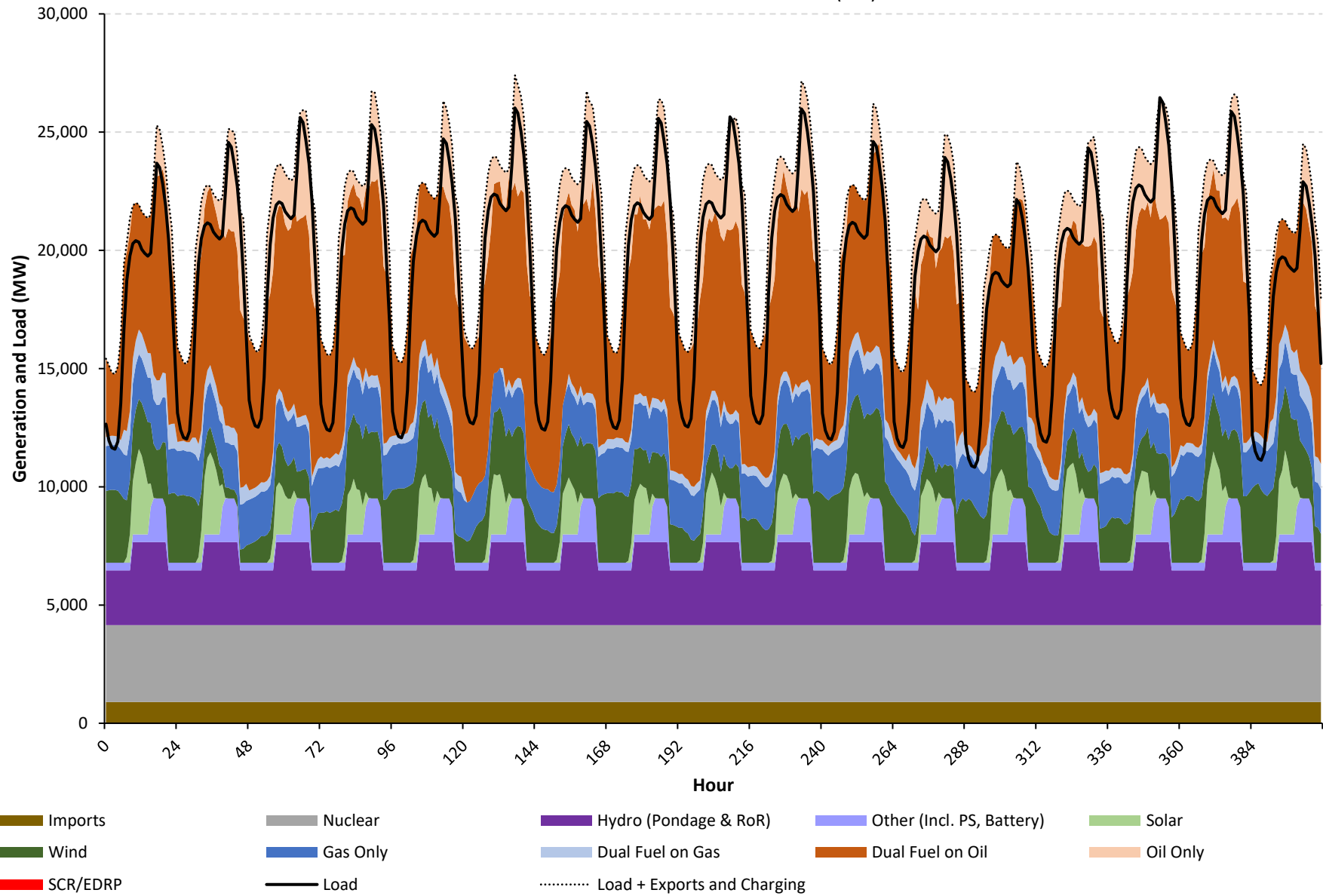
Full Period Results Summary

Case Name: Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)

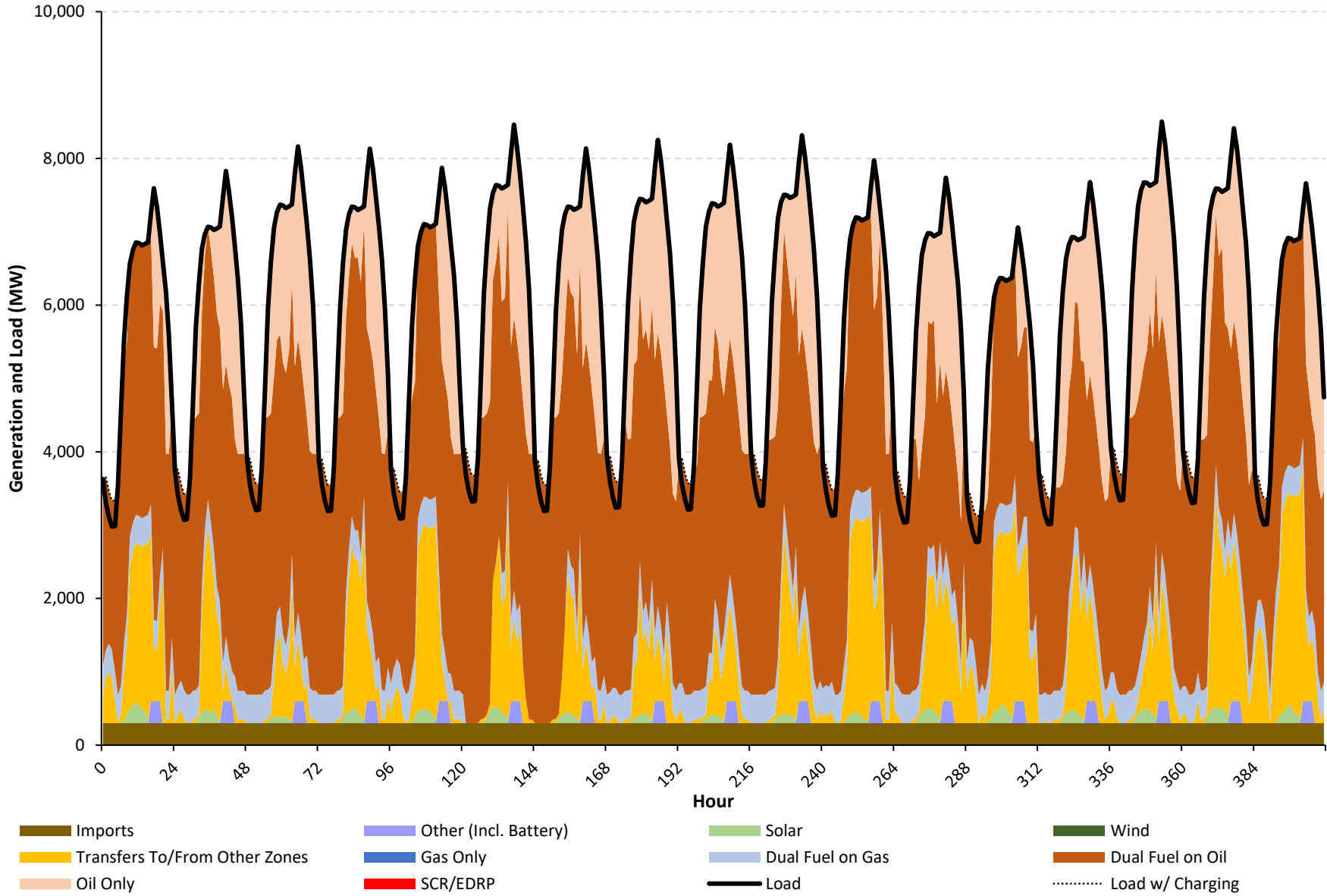
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



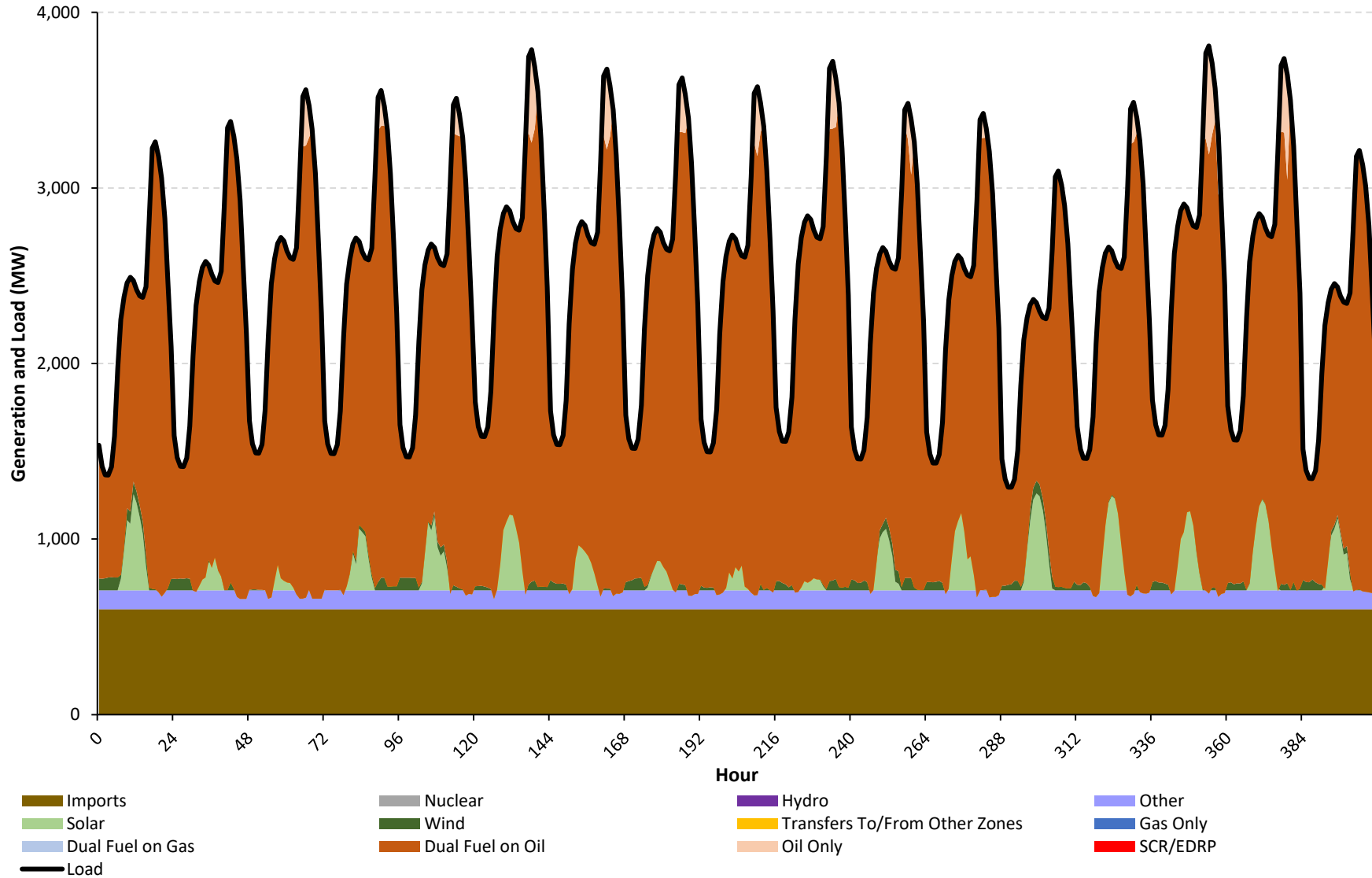
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)



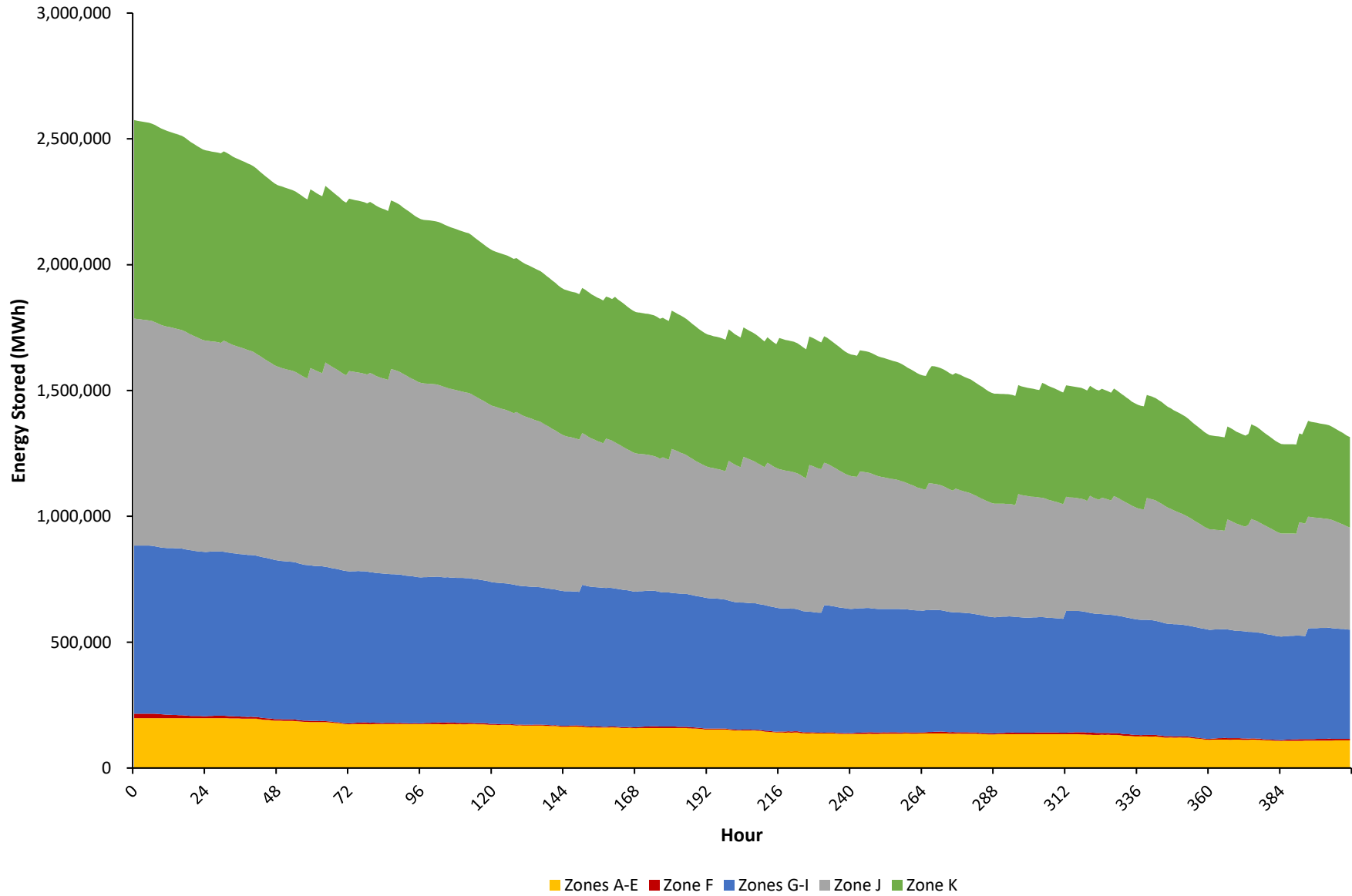
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)

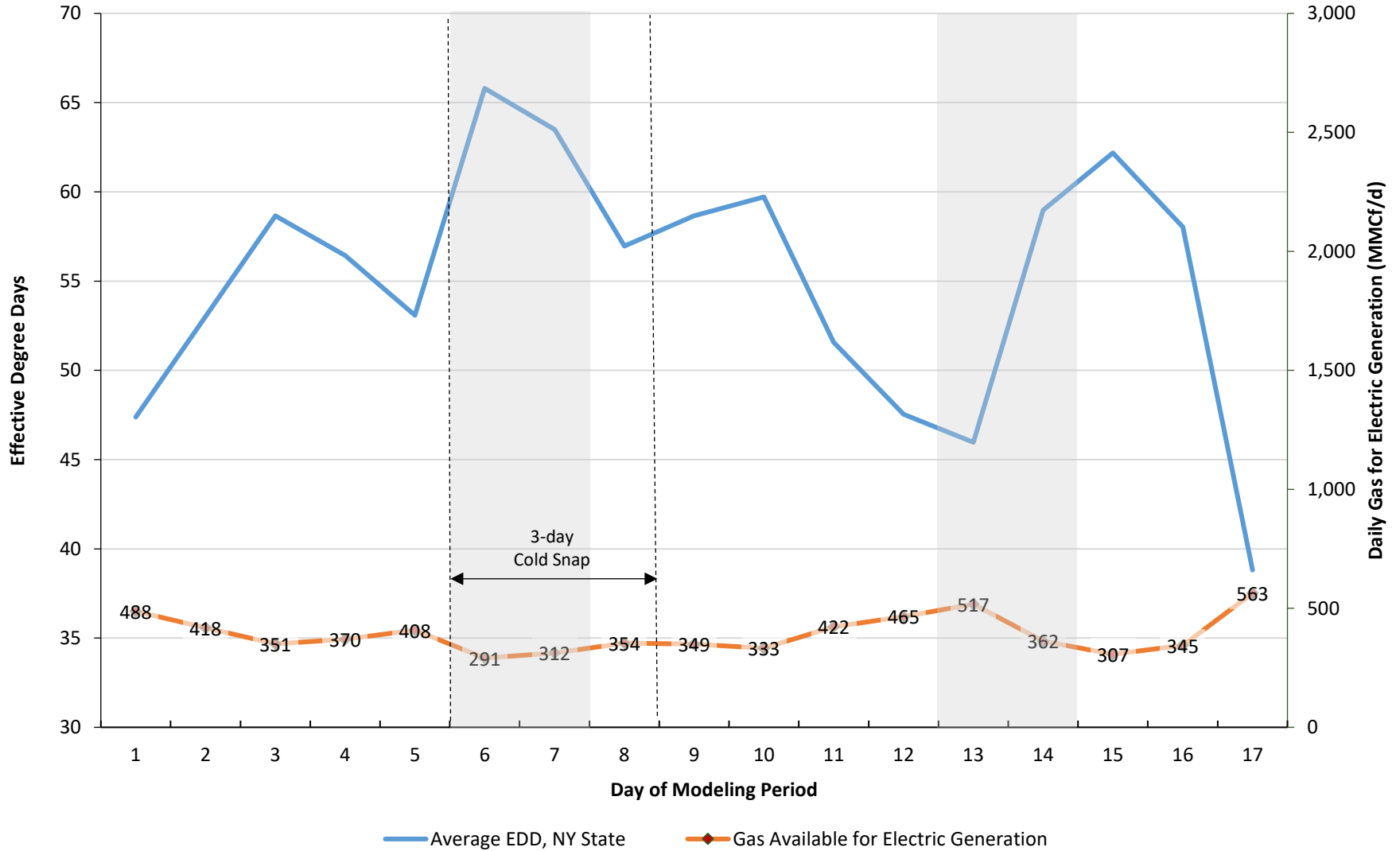


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

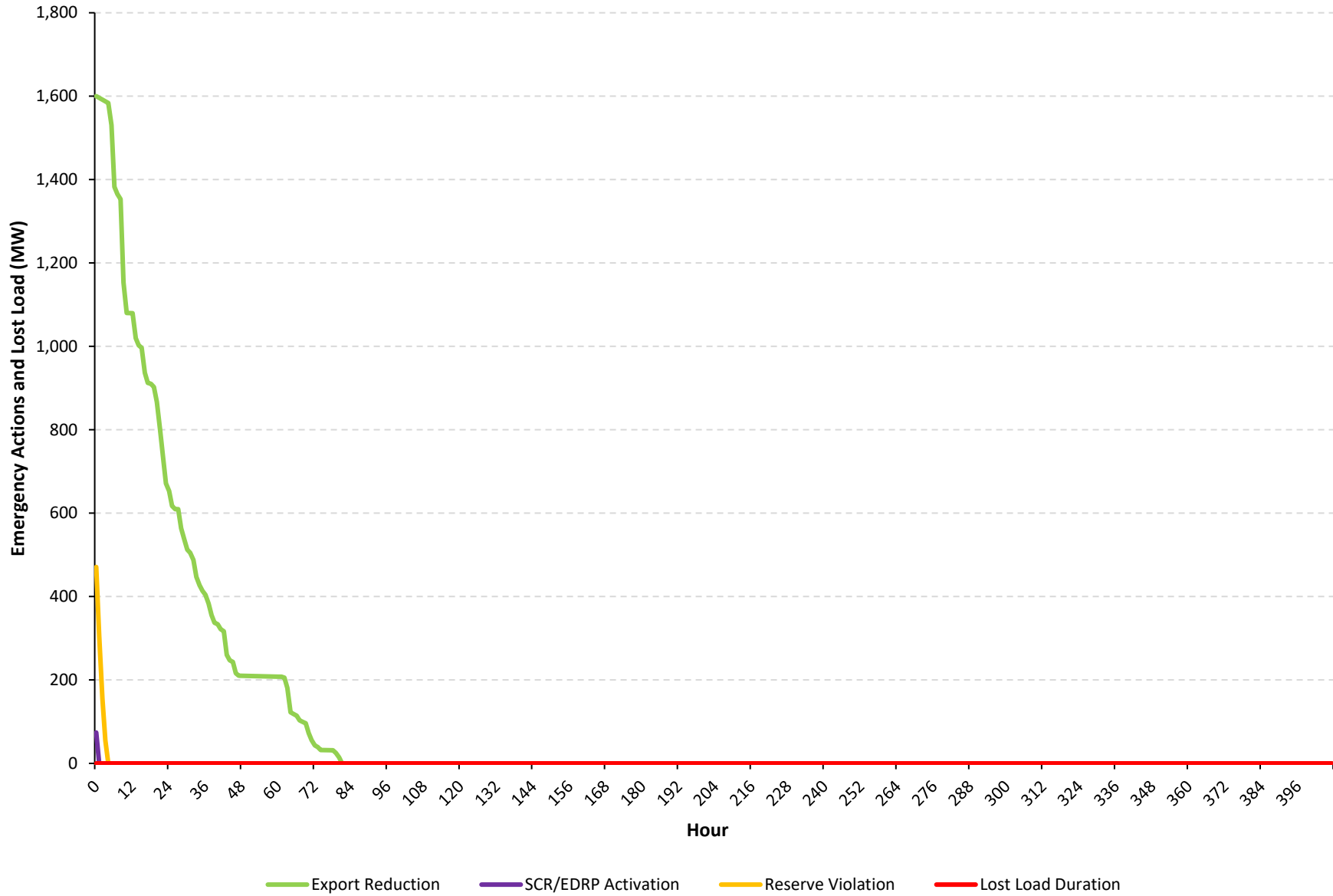
Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)

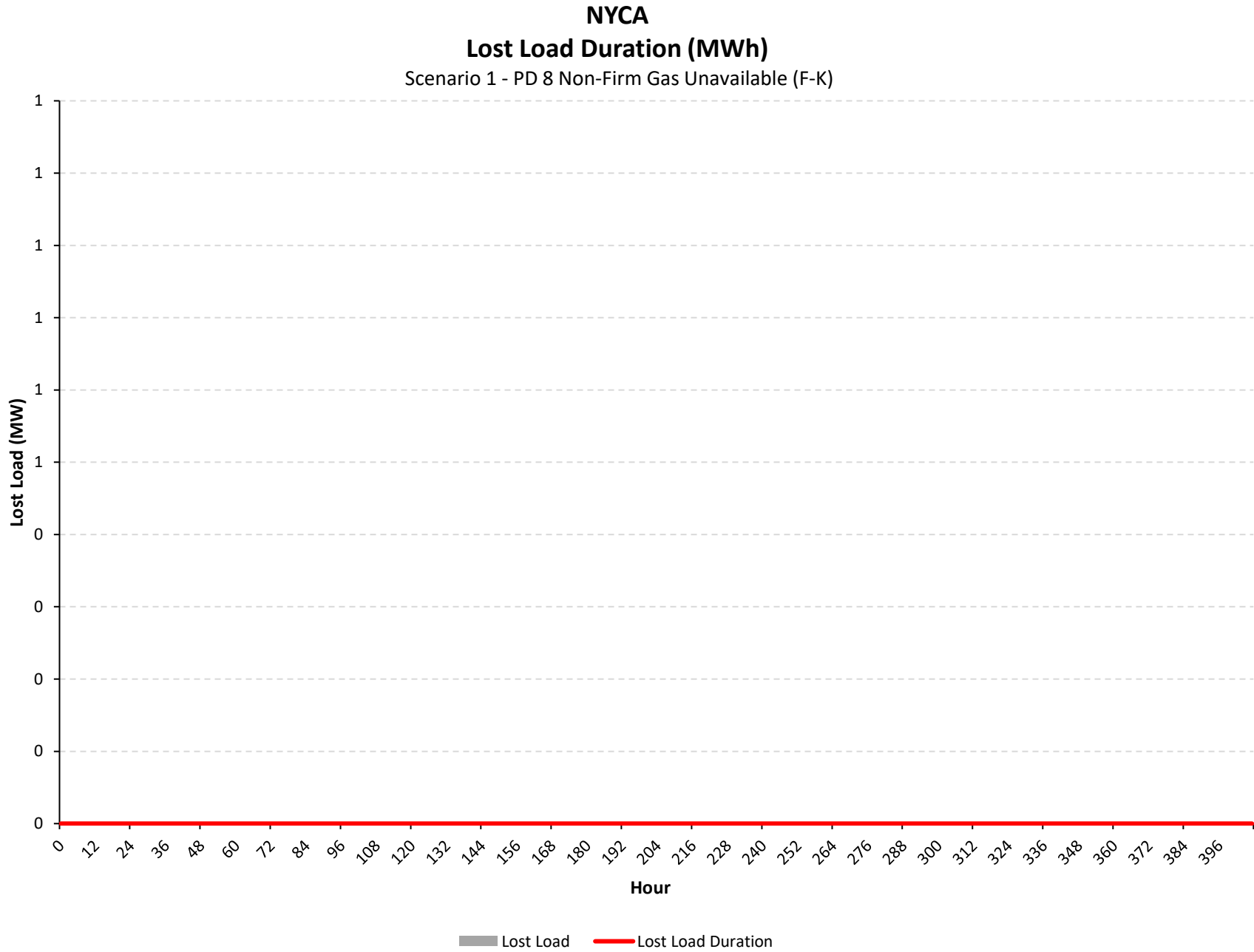


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 8 Non-Firm Gas Unavailable (F-K)



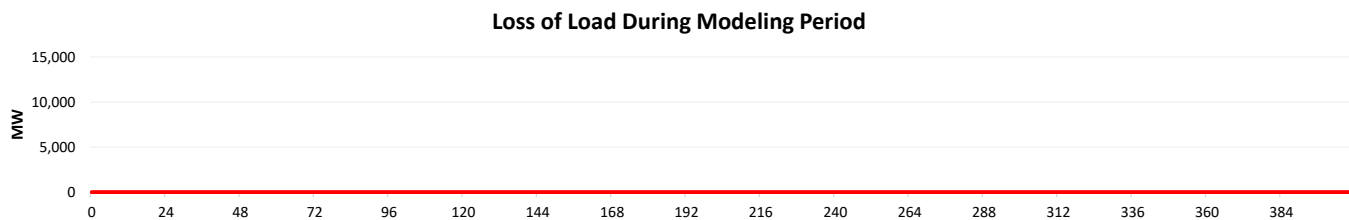
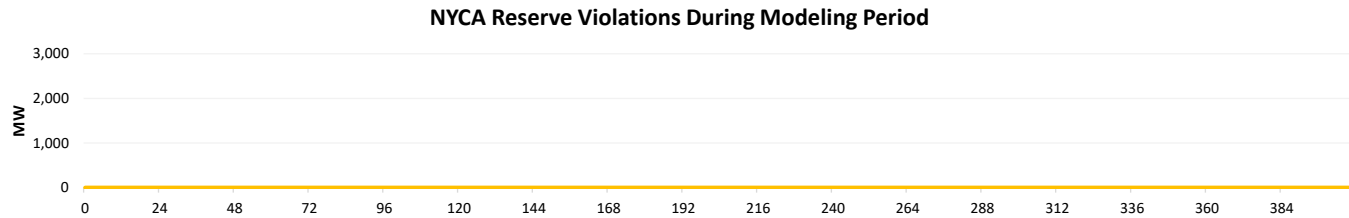
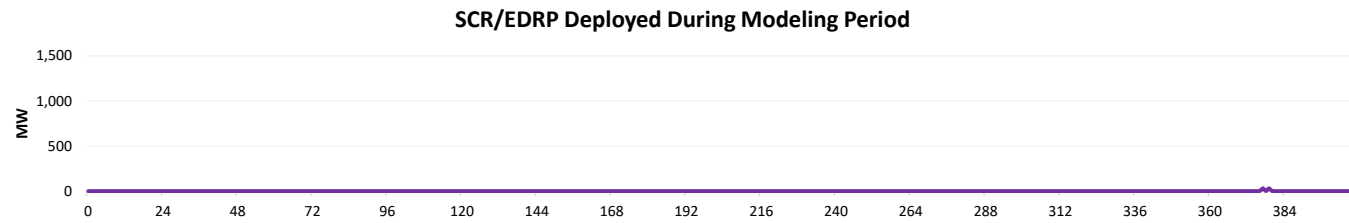
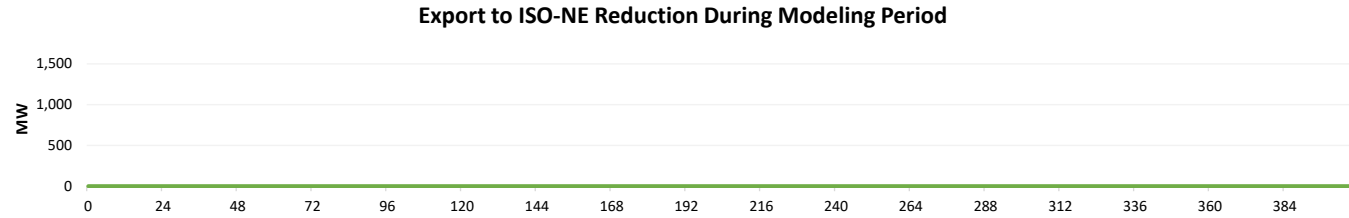
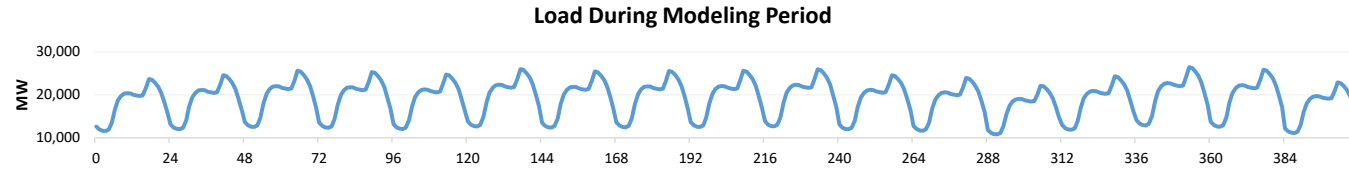


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 1 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

SCR Deployment	
Total Hrs.	2
Total MWh	64
Avg. MW	0.2

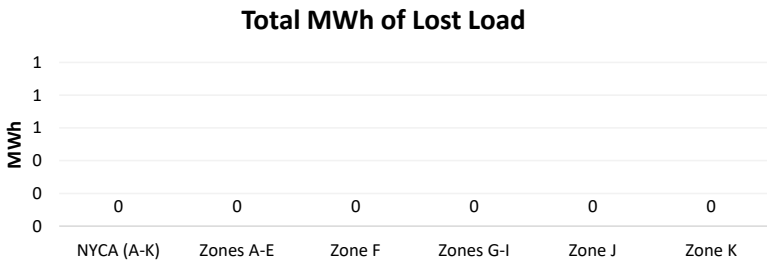
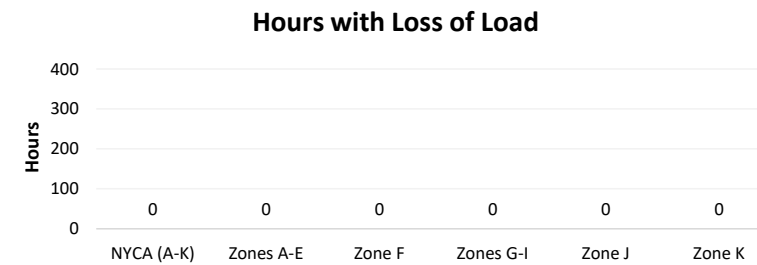
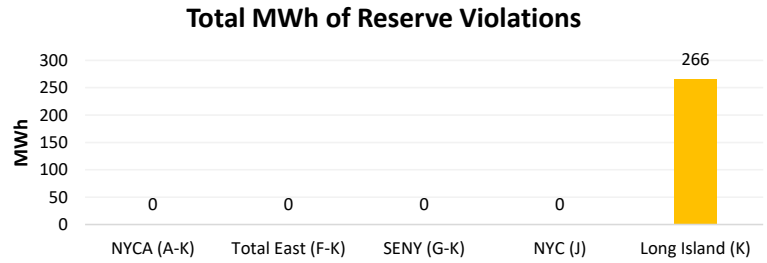
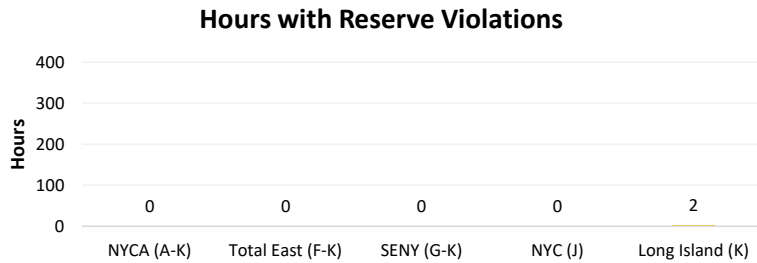
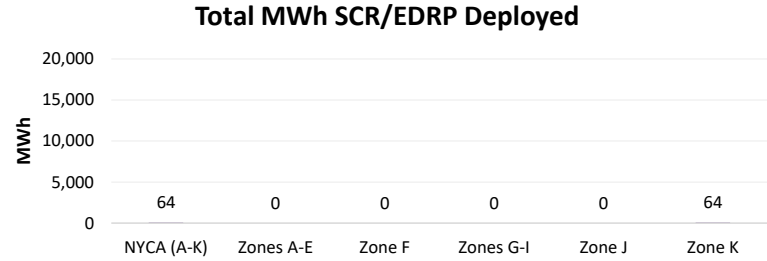
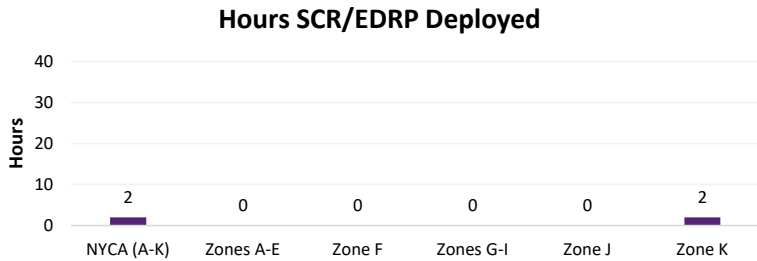
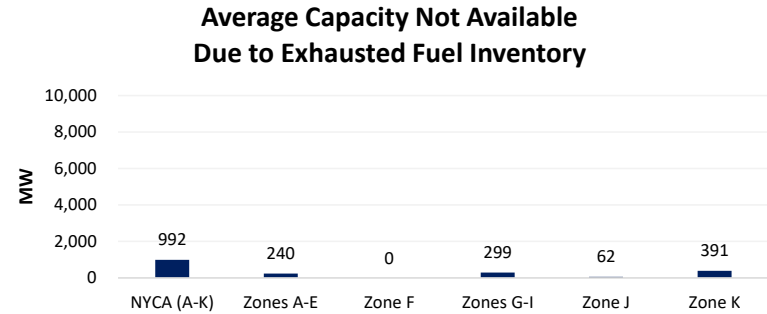
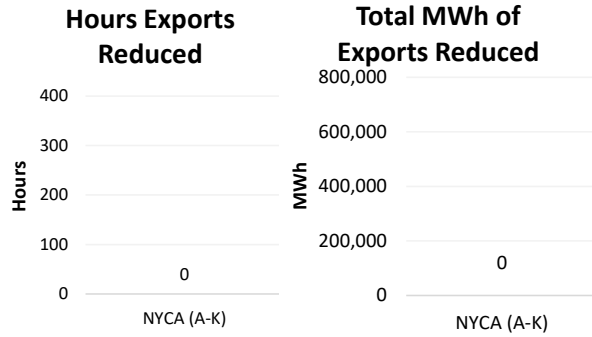
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	377
First Hour, Zone K	377

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

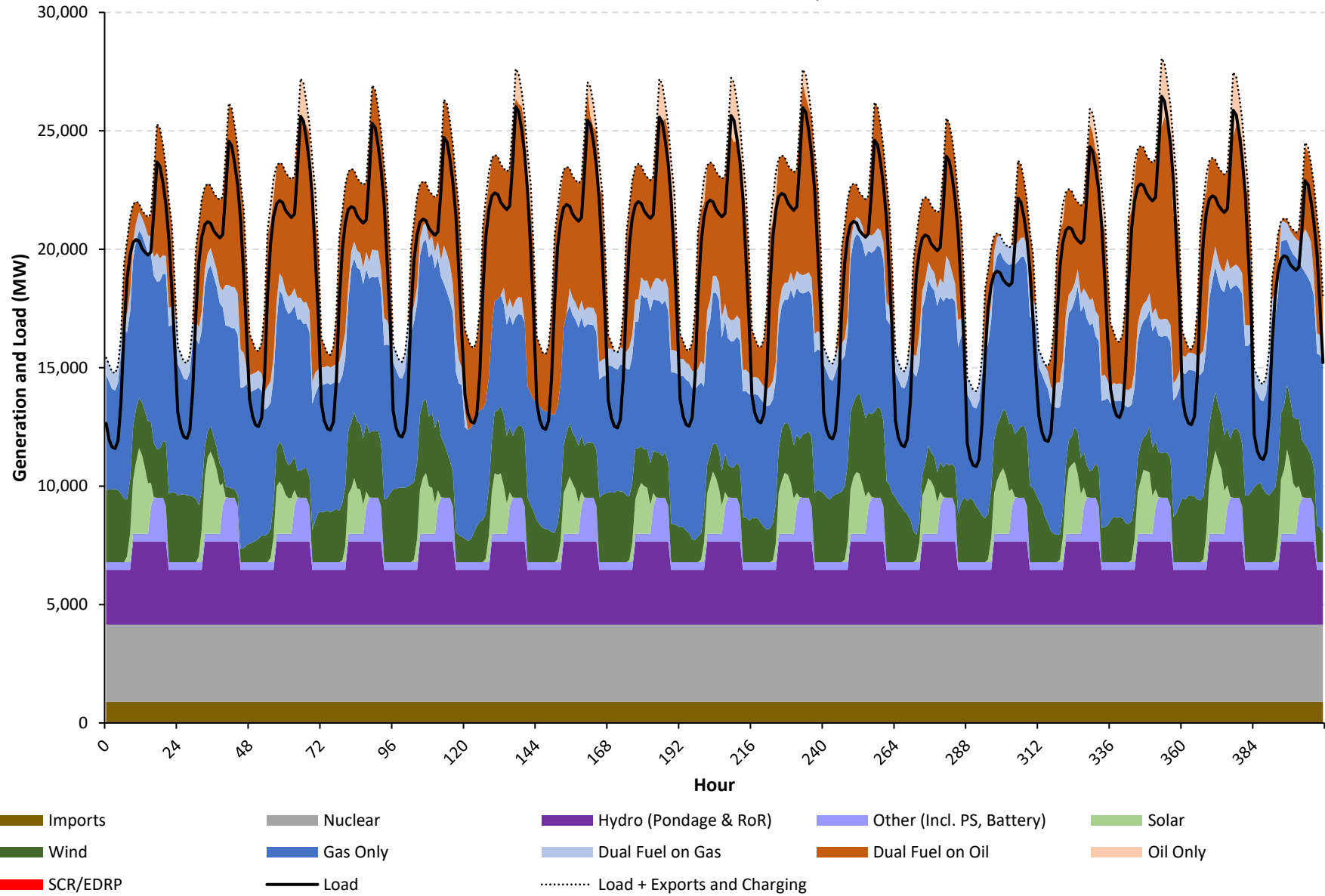
Full Period Results Summary

Case Name: Scenario 1 - PD 9 Low Fuel Inventory

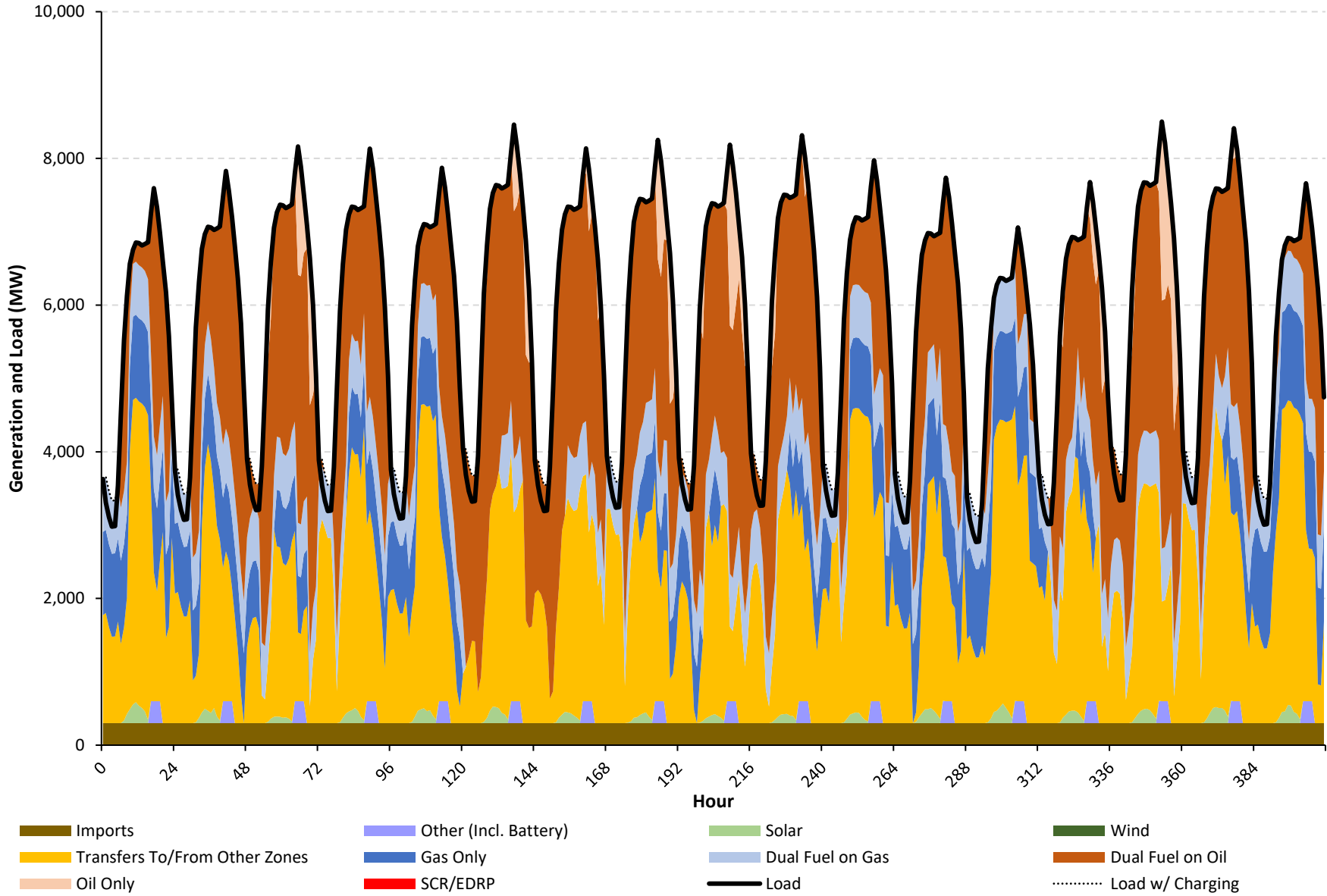
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



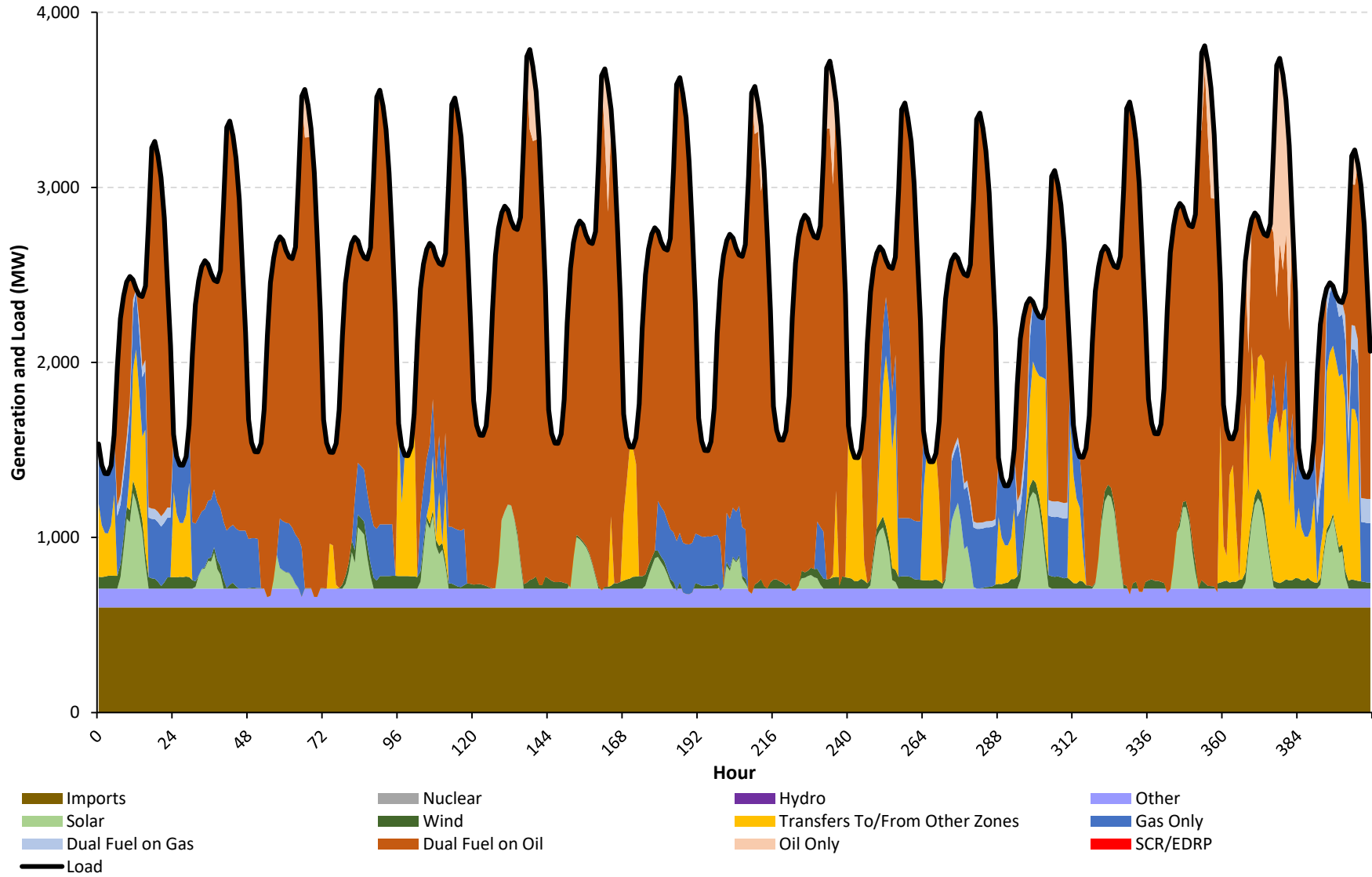
NYCA Hourly Generation (MWh) by Fuel Group Scenario 1 - PD 9 Low Fuel Inventory



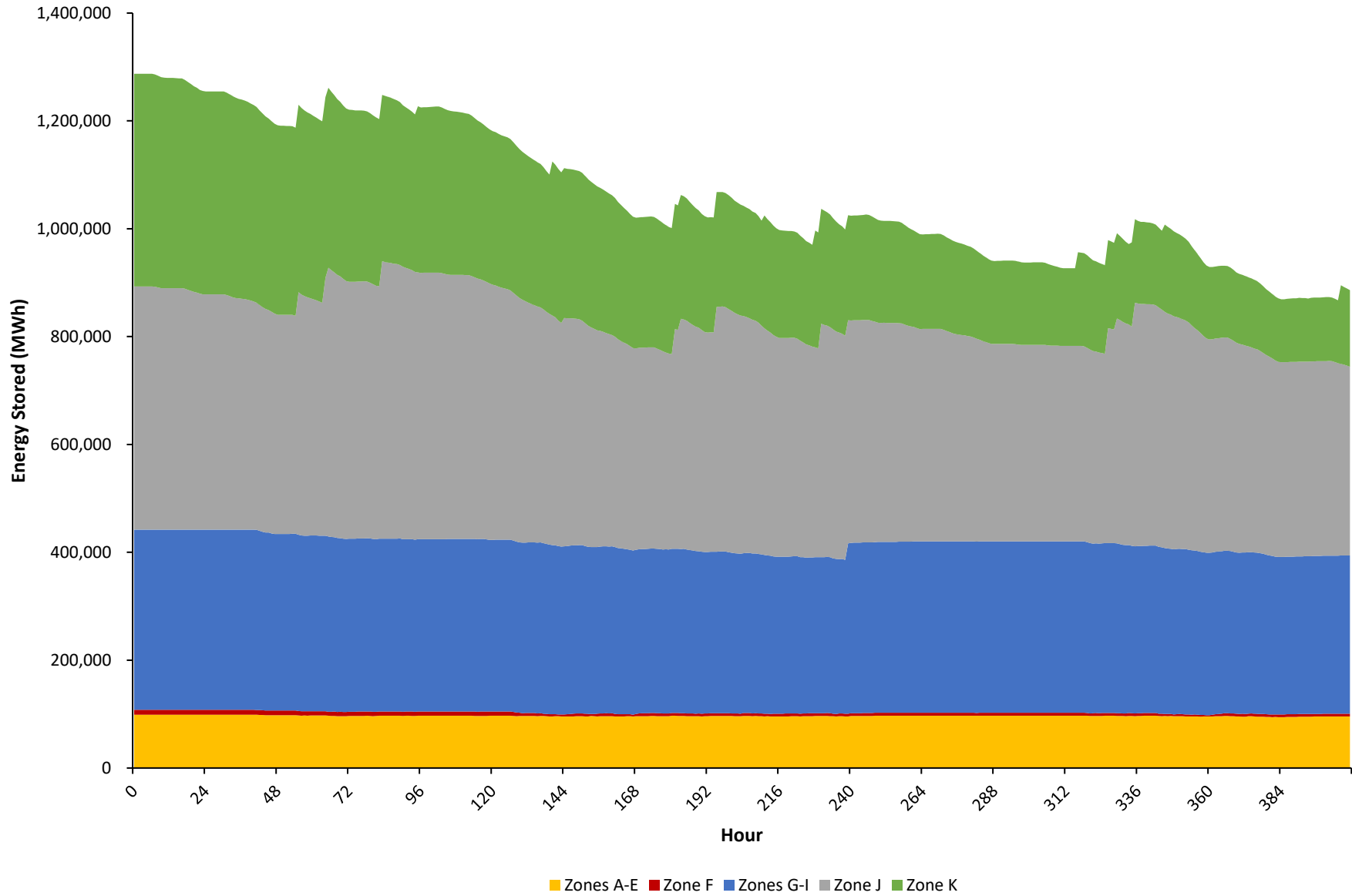
Zone J Hourly Generation (MW) by Fuel Group Scenario 1 - PD 9 Low Fuel Inventory



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 9 Low Fuel Inventory

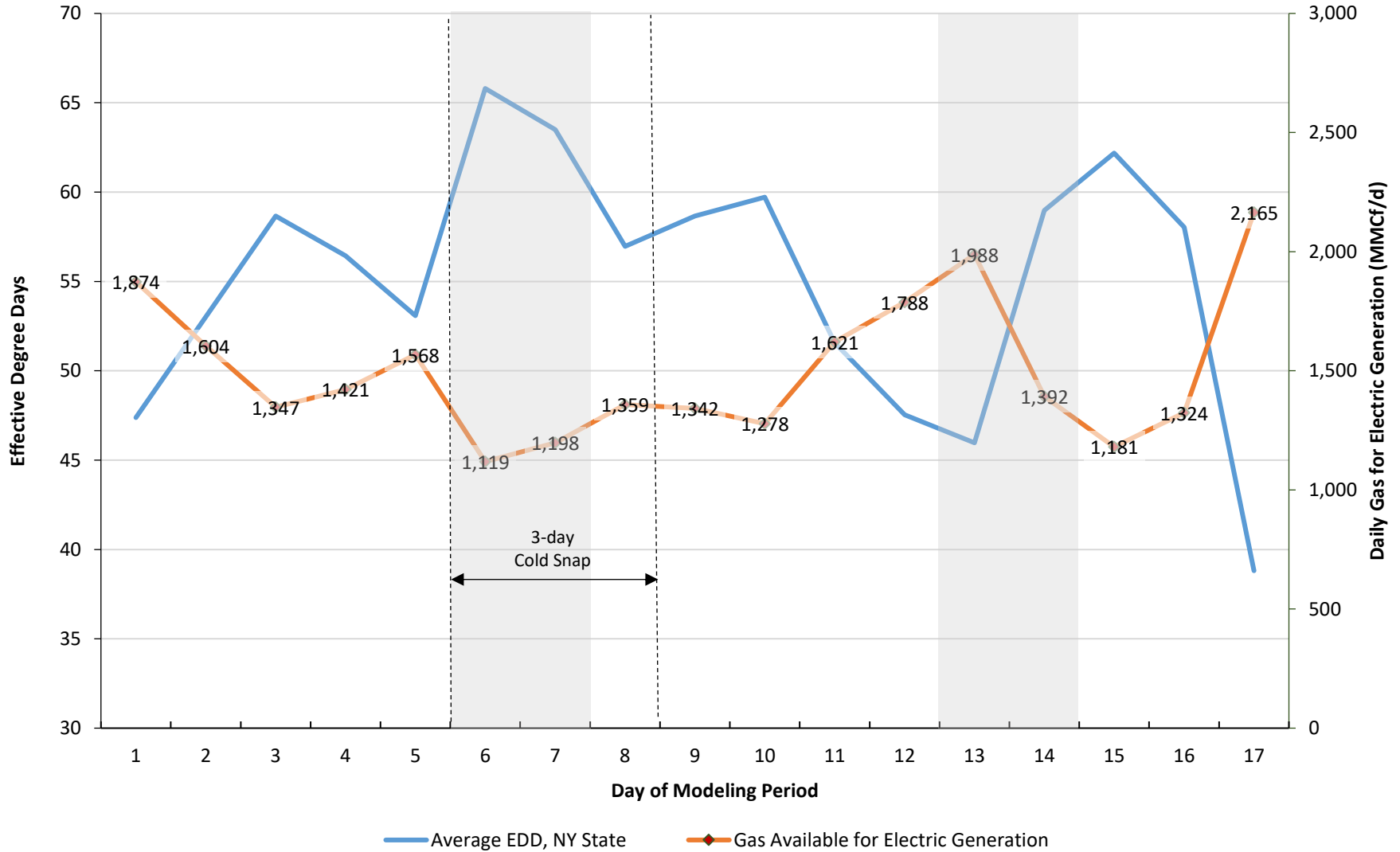


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 9 Low Fuel Inventory



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

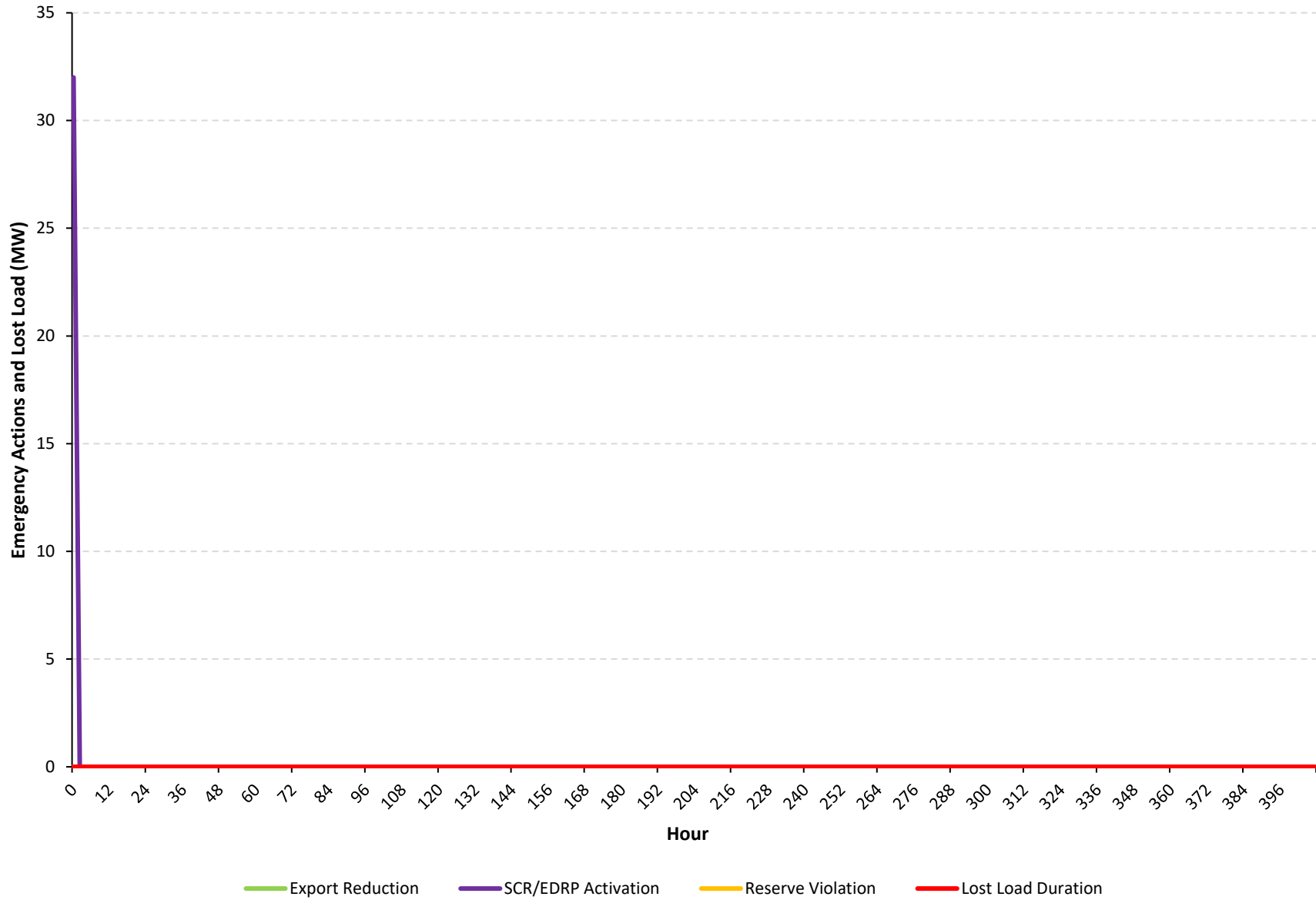
Scenario 1 - PD 9 Low Fuel Inventory

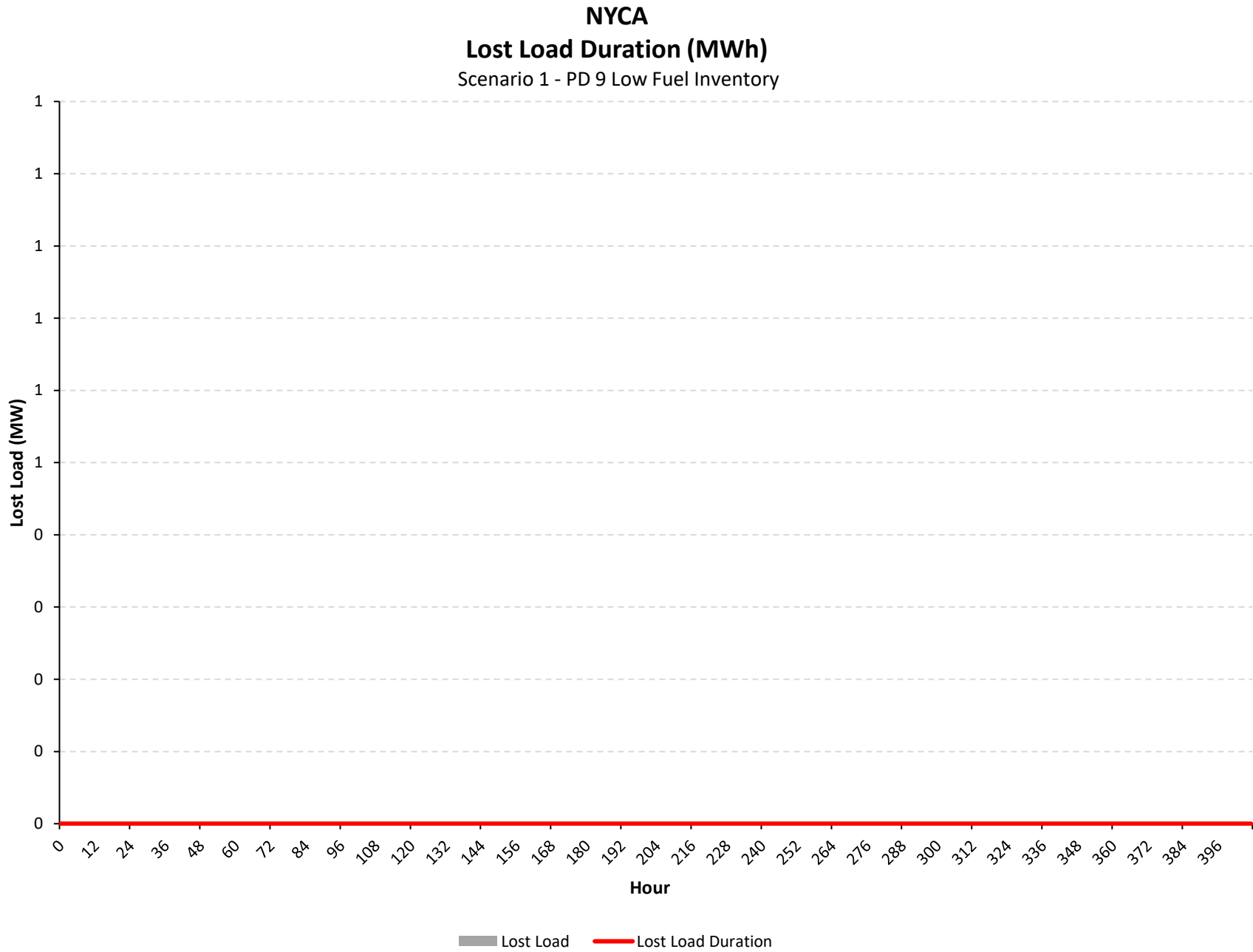


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 9 Low Fuel Inventory



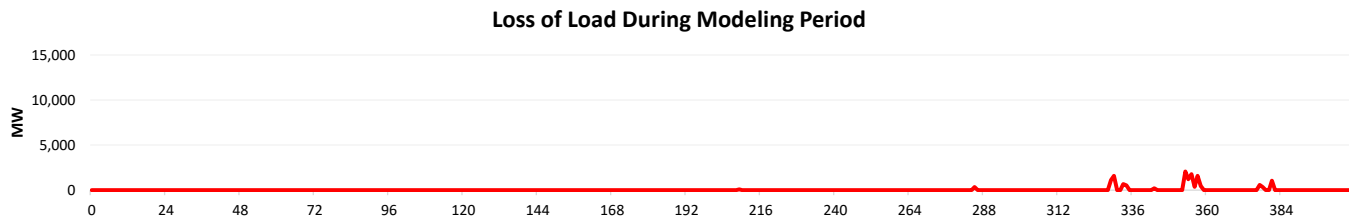
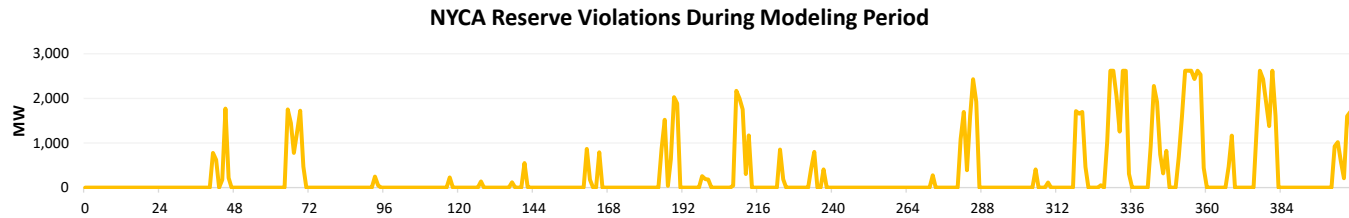
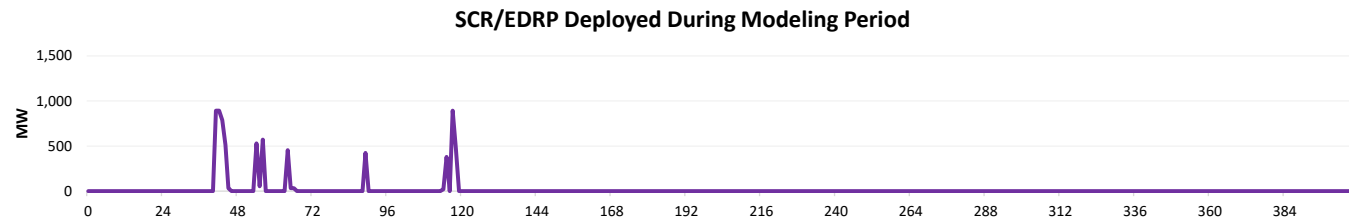
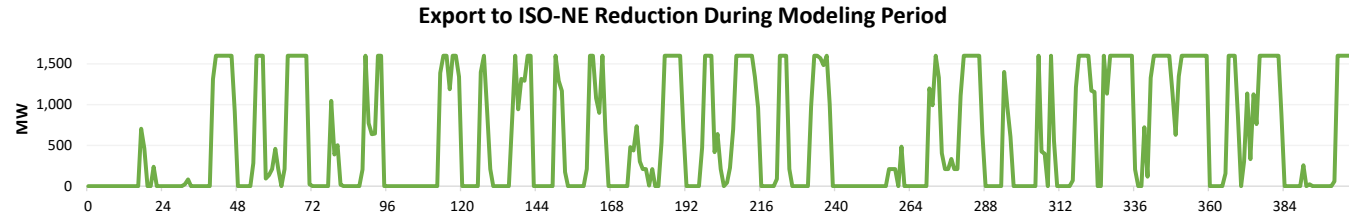
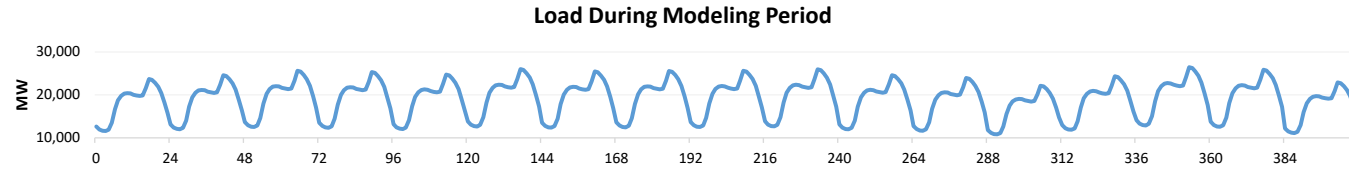


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	216
Total MWh	237,623
Avg. MW	582.4

SCR Deployment	
Total Hrs.	16
Total MWh	6,983
Avg. MW	17.1

Reserve Violations	
Total Hrs.	93
Total MWh	109,259
Avg. MW	267.8

First Hour with Viol.	41	First Hour, Zone K
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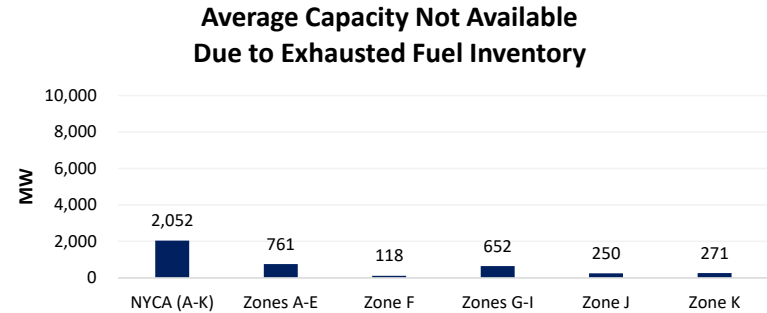
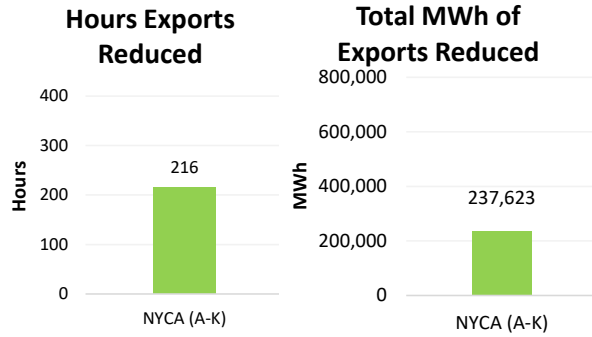
Loss of Load	
Total Hrs.	16
Total MWh	13,965
Avg. MW	34.2

First Hour with Losses	209	First Hour, Zone K
------------------------	-----	--------------------

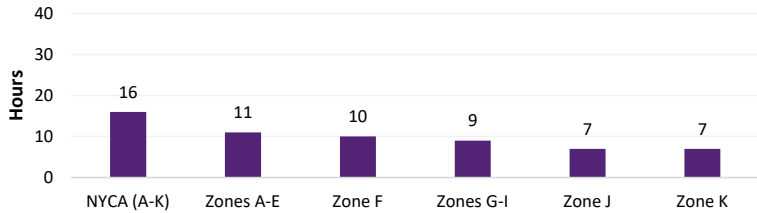
Full Period Results Summary

Case Name: Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)

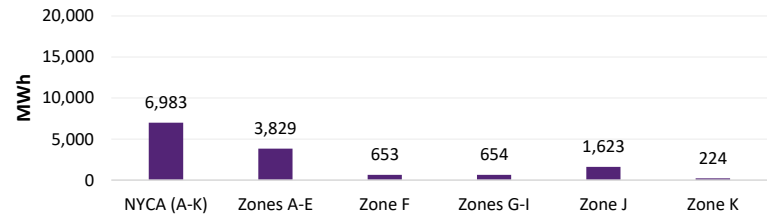
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



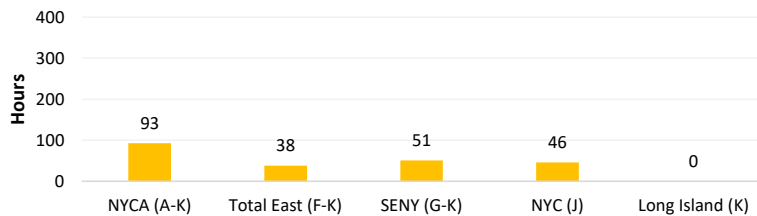
Hours SCR/EDRP Deployed



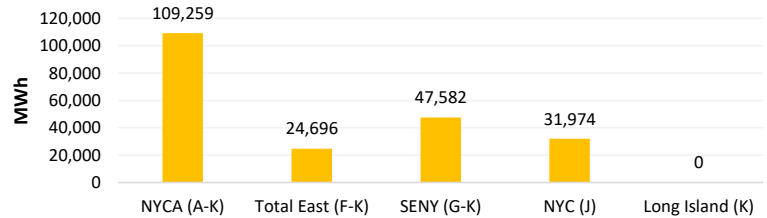
Total MWh SCR/EDRP Deployed



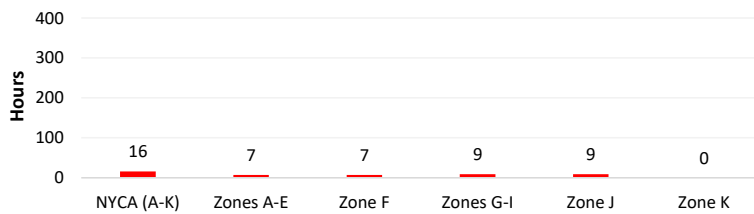
Hours with Reserve Violations



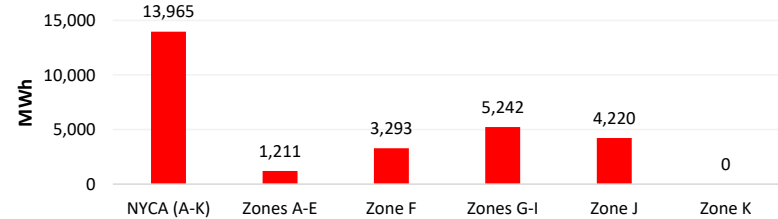
Total MWh of Reserve Violations



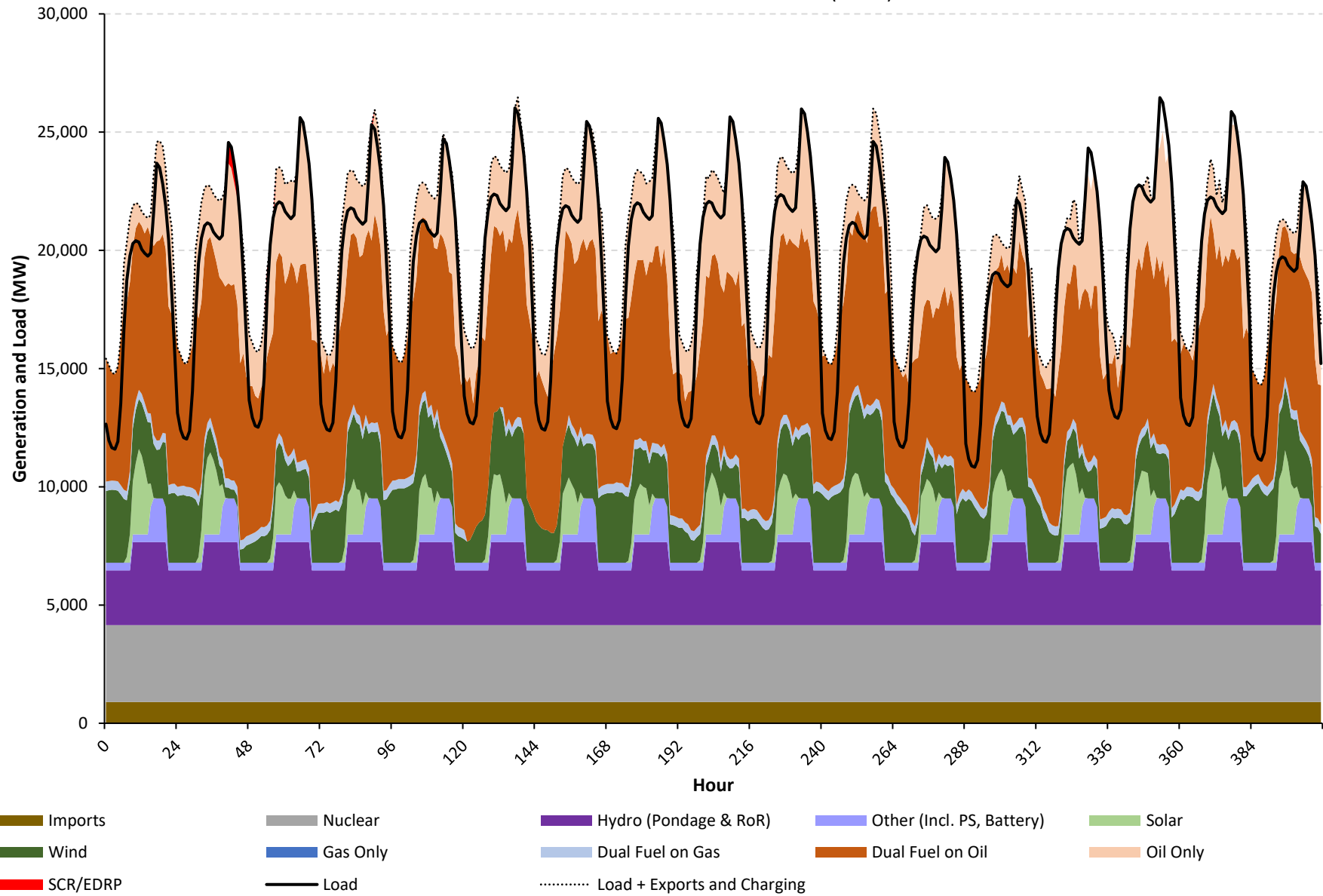
Hours with Loss of Load



Total MWh of Lost Load



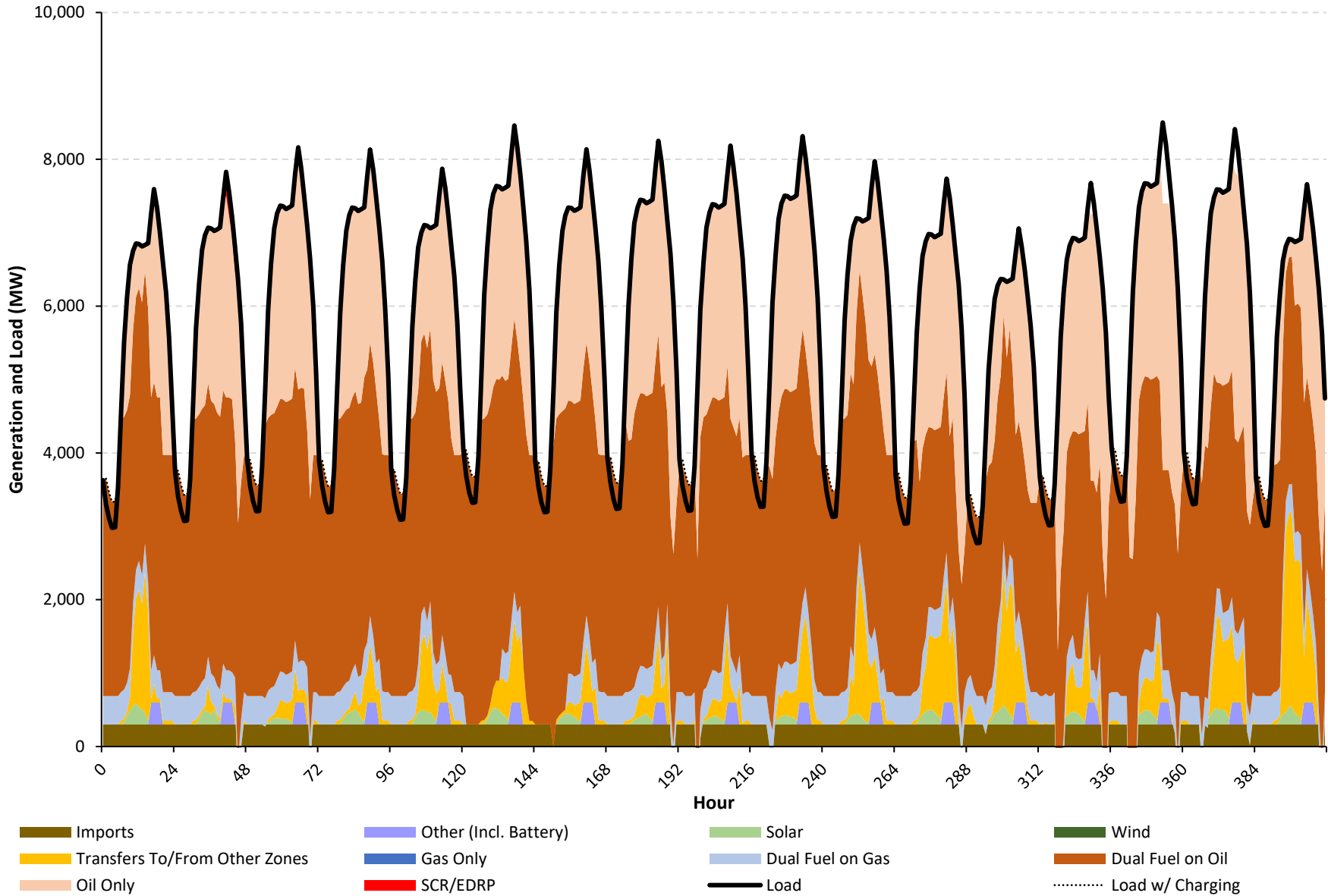
NYCA
Hourly Generation (MWh) by Fuel Group
 Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



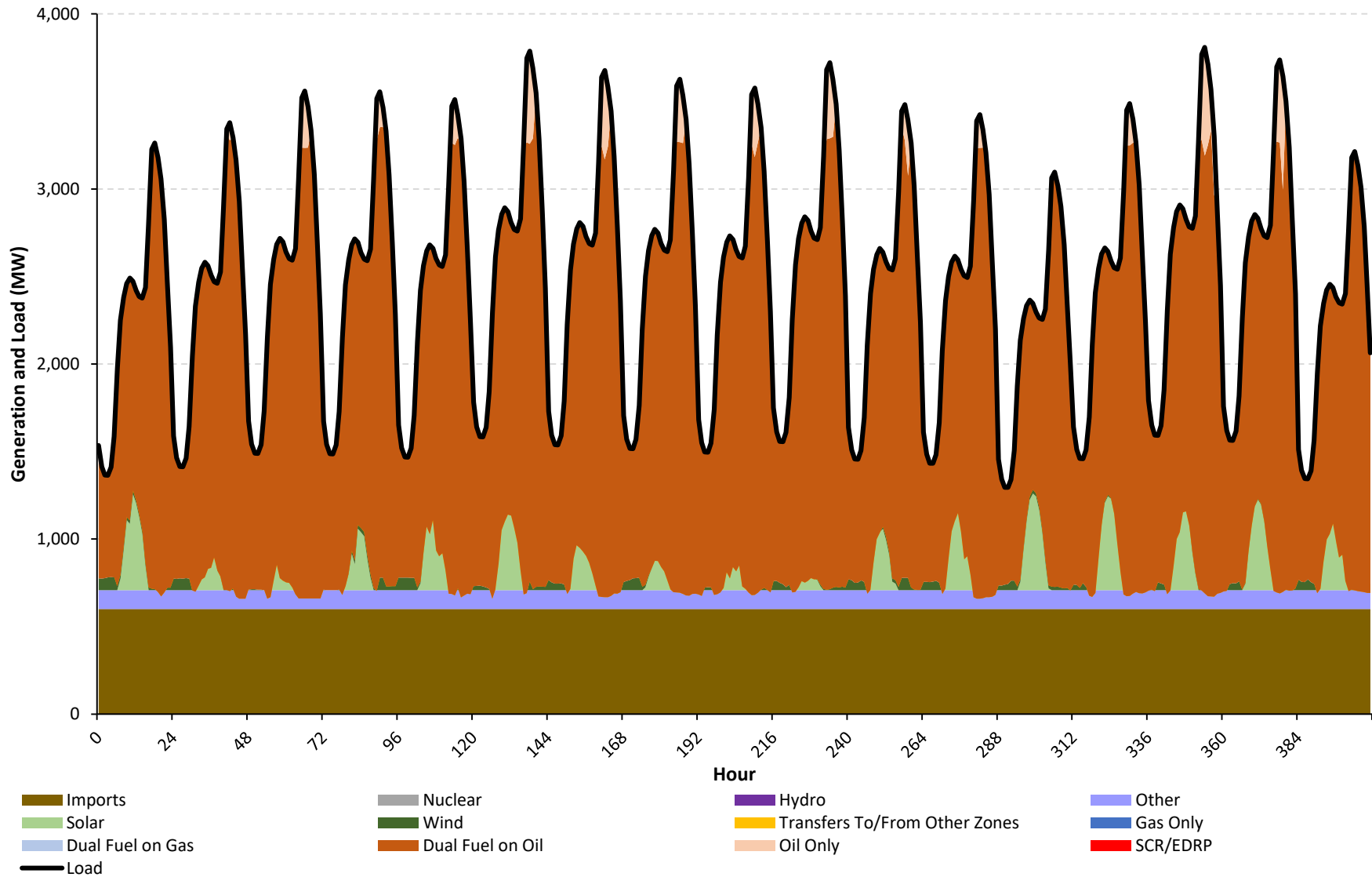
Zone J

Hourly Generation (MW) by Fuel Group

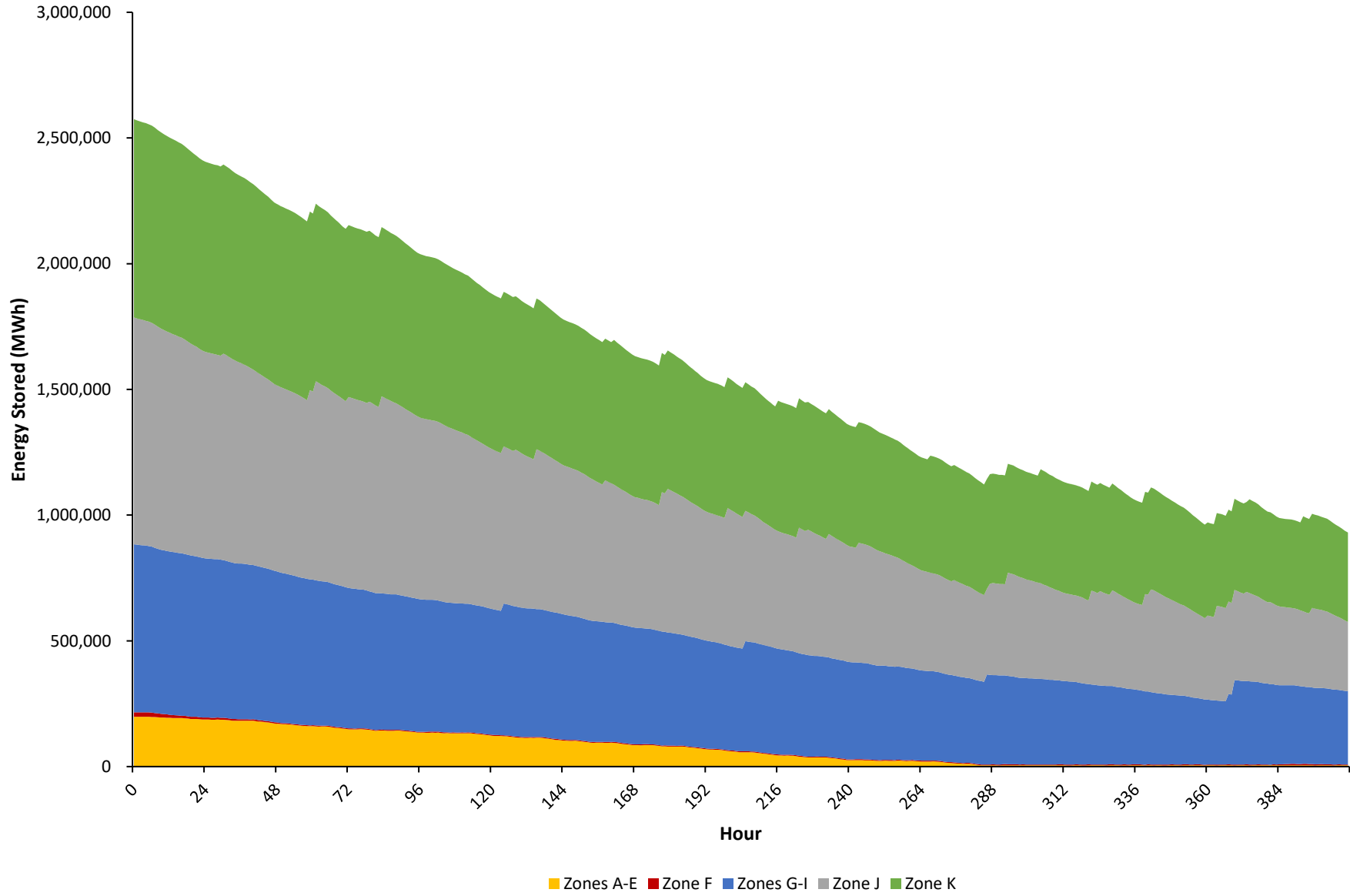
Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)

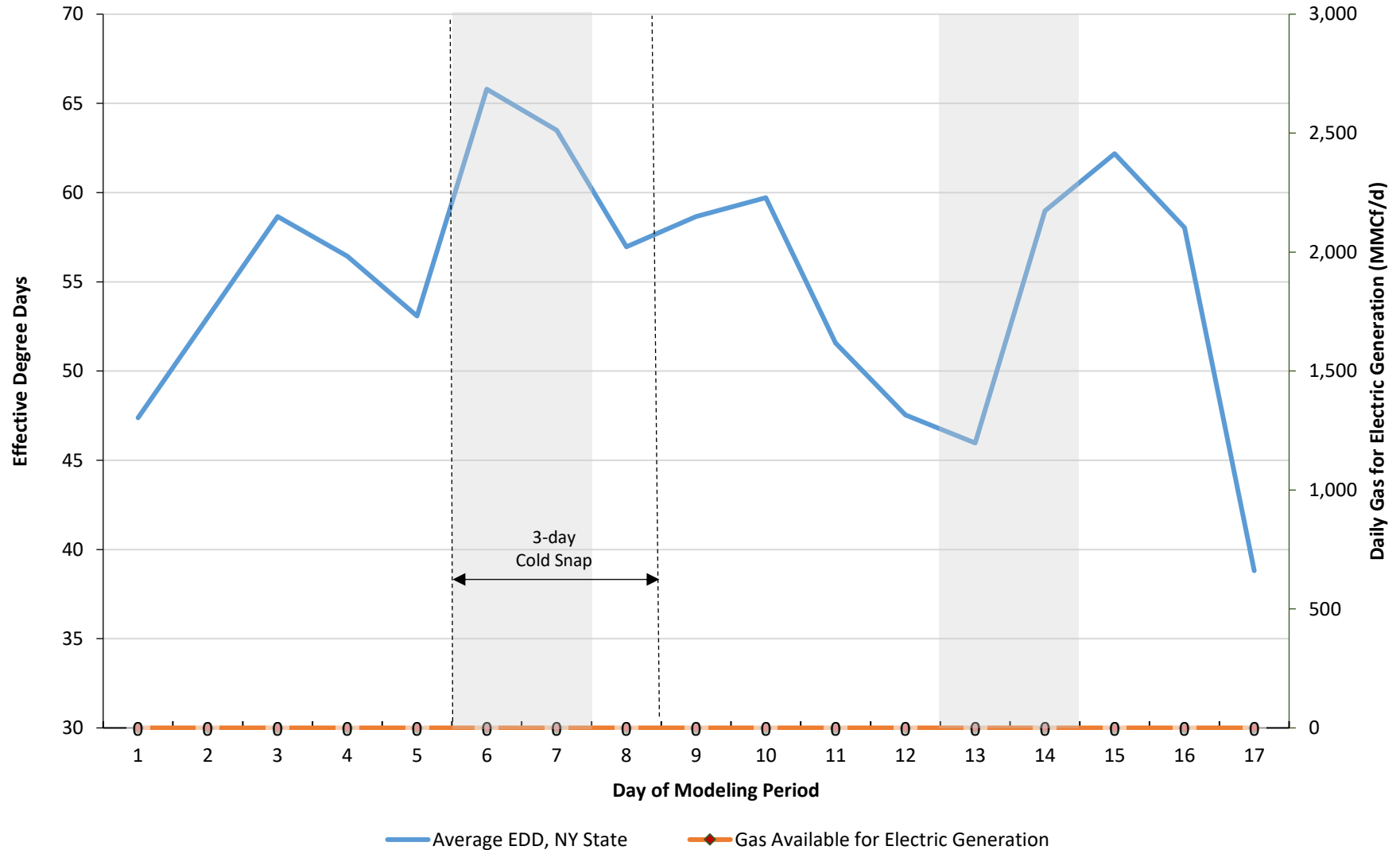


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

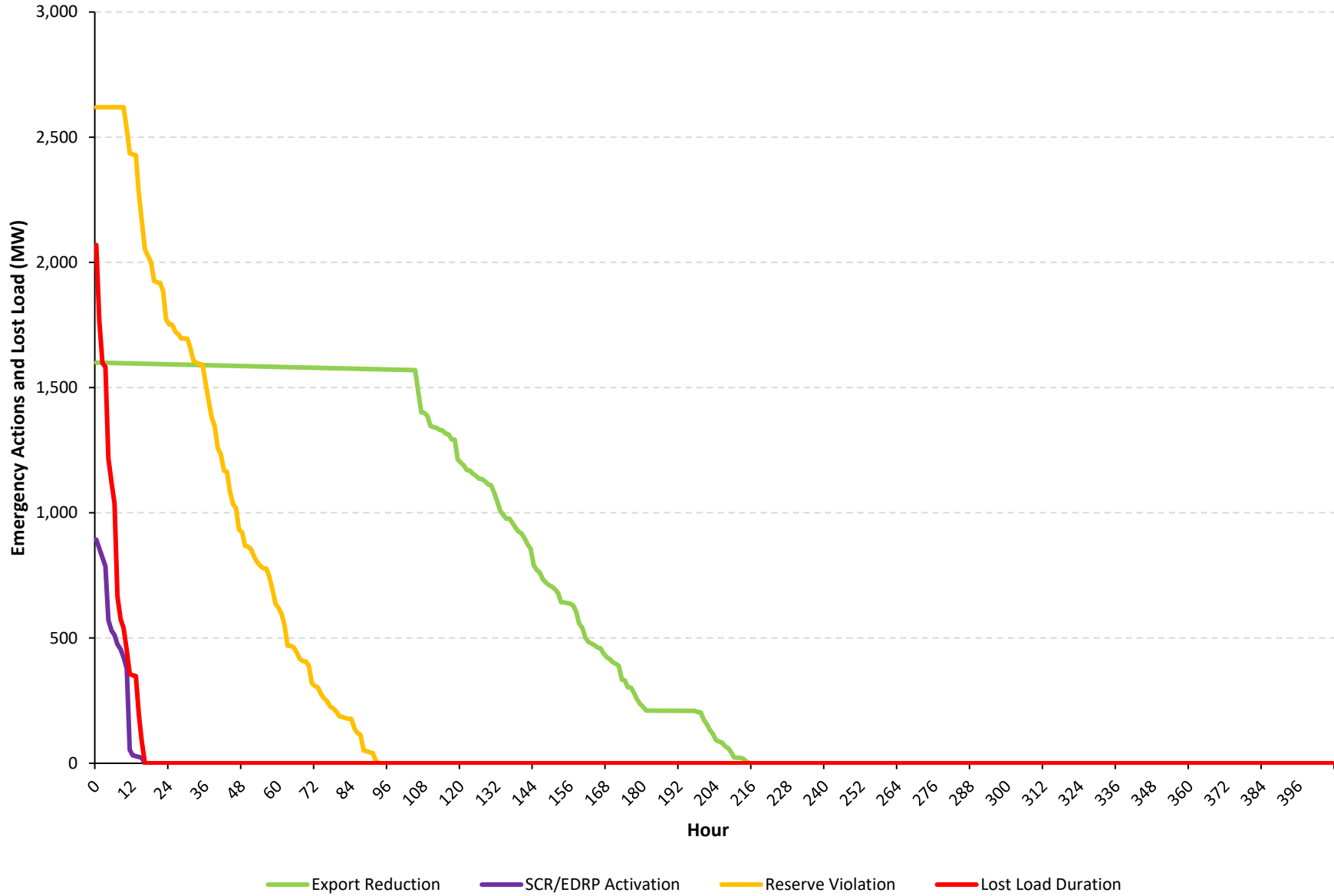
Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



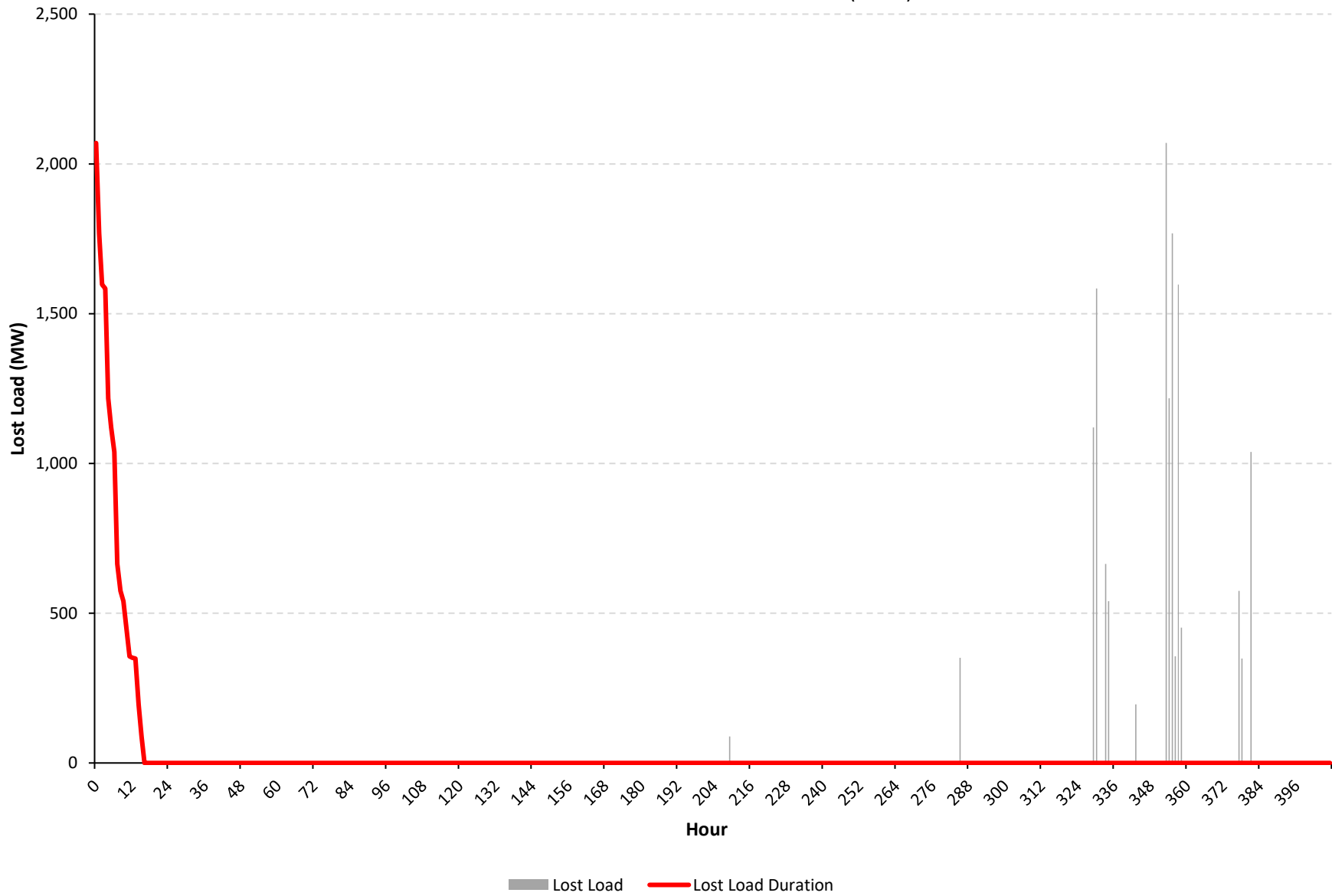
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 1 - PD 10 Non-Firm Gas Unavailable (NYCA)



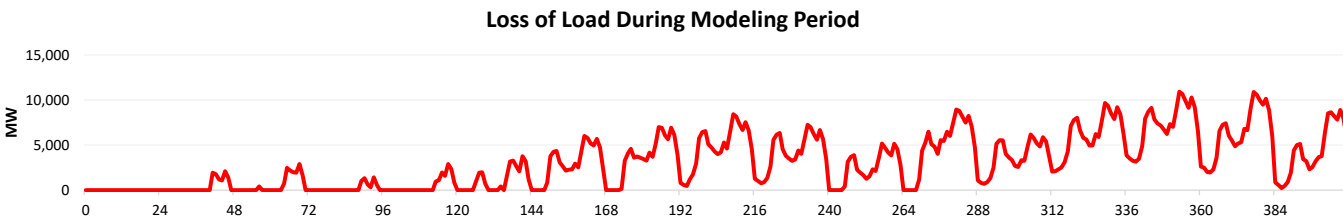
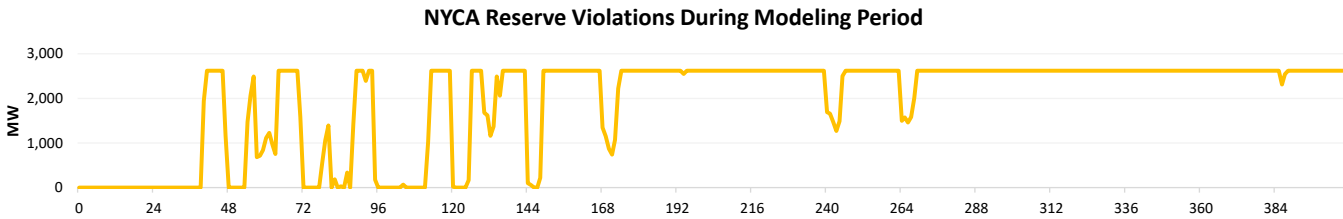
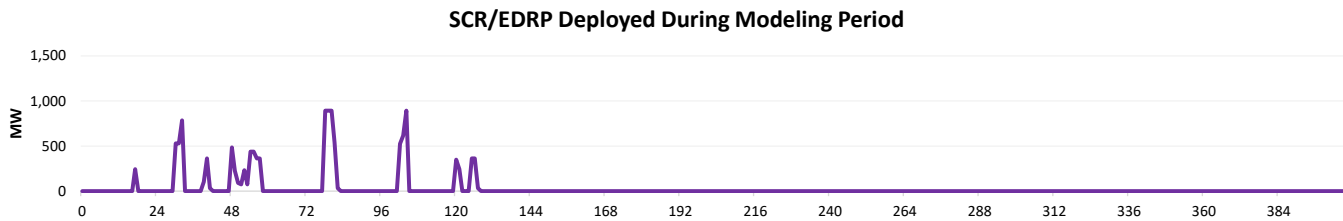
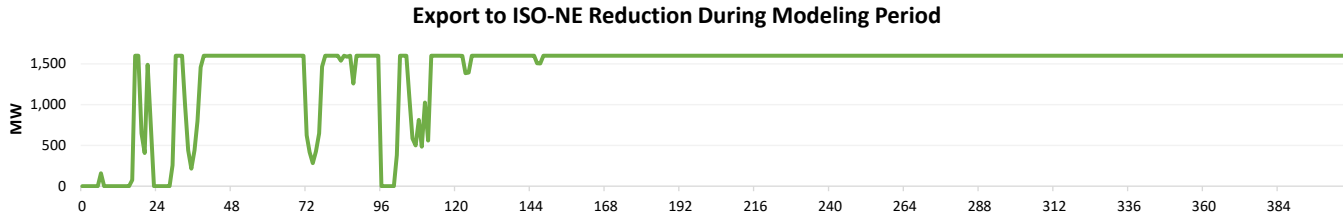
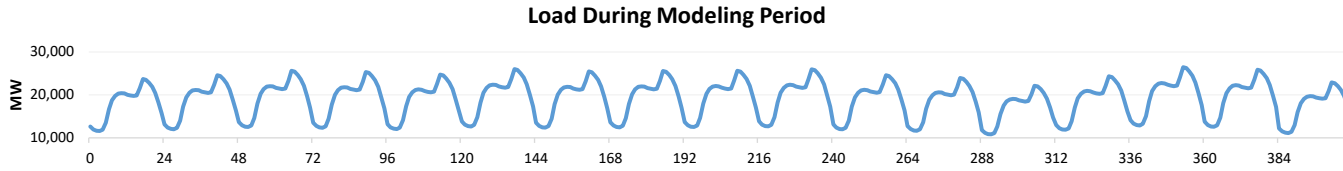
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	382
Total MWh	584,410
Avg. MW	1,432.4

SCR Deployment	
Total Hrs.	30
Total MWh	12,003
Avg. MW	29.4

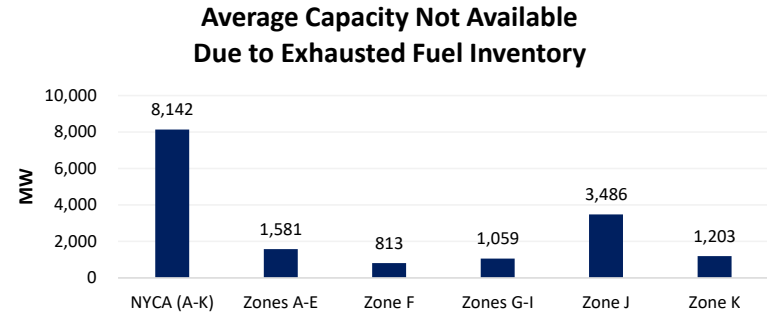
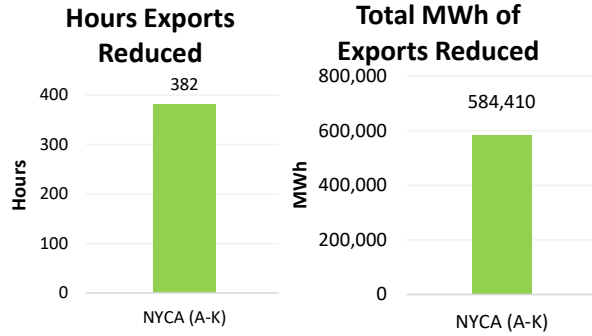
Reserve Violations	
Total Hrs.	331
Total MWh	792,708
Avg. MW	1,942.9
First Hour with Viol.	40
First Hour, Zone K	138

Loss of Load	
Total Hrs.	284
Total MWh	1,275,041
Avg. MW	3,125.1
First Hour with Losses	41
First Hour, Zone K	353

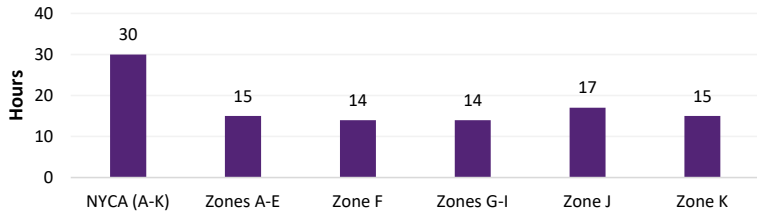
Full Period Results Summary

Case Name: Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

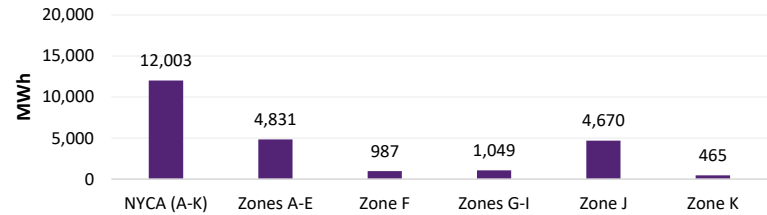
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



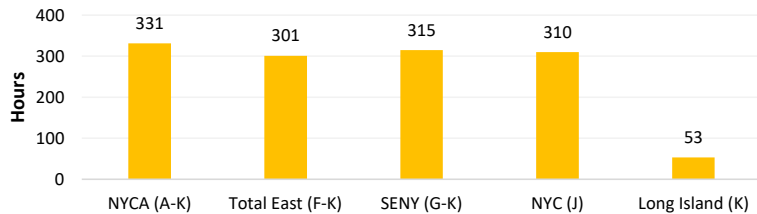
Hours SCR/EDRP Deployed



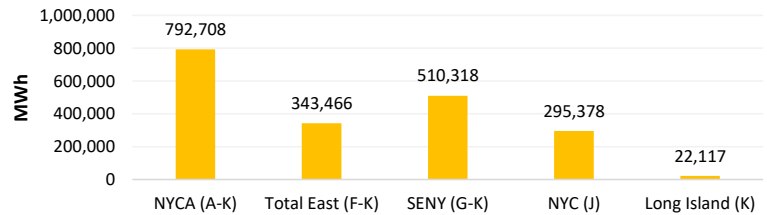
Total MWh SCR/EDRP Deployed



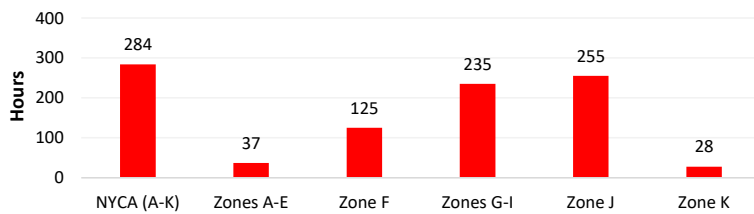
Hours with Reserve Violations



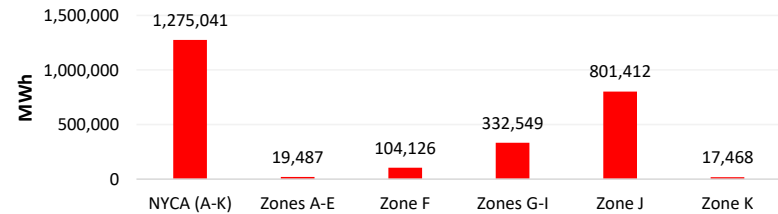
Total MWh of Reserve Violations



Hours with Loss of Load



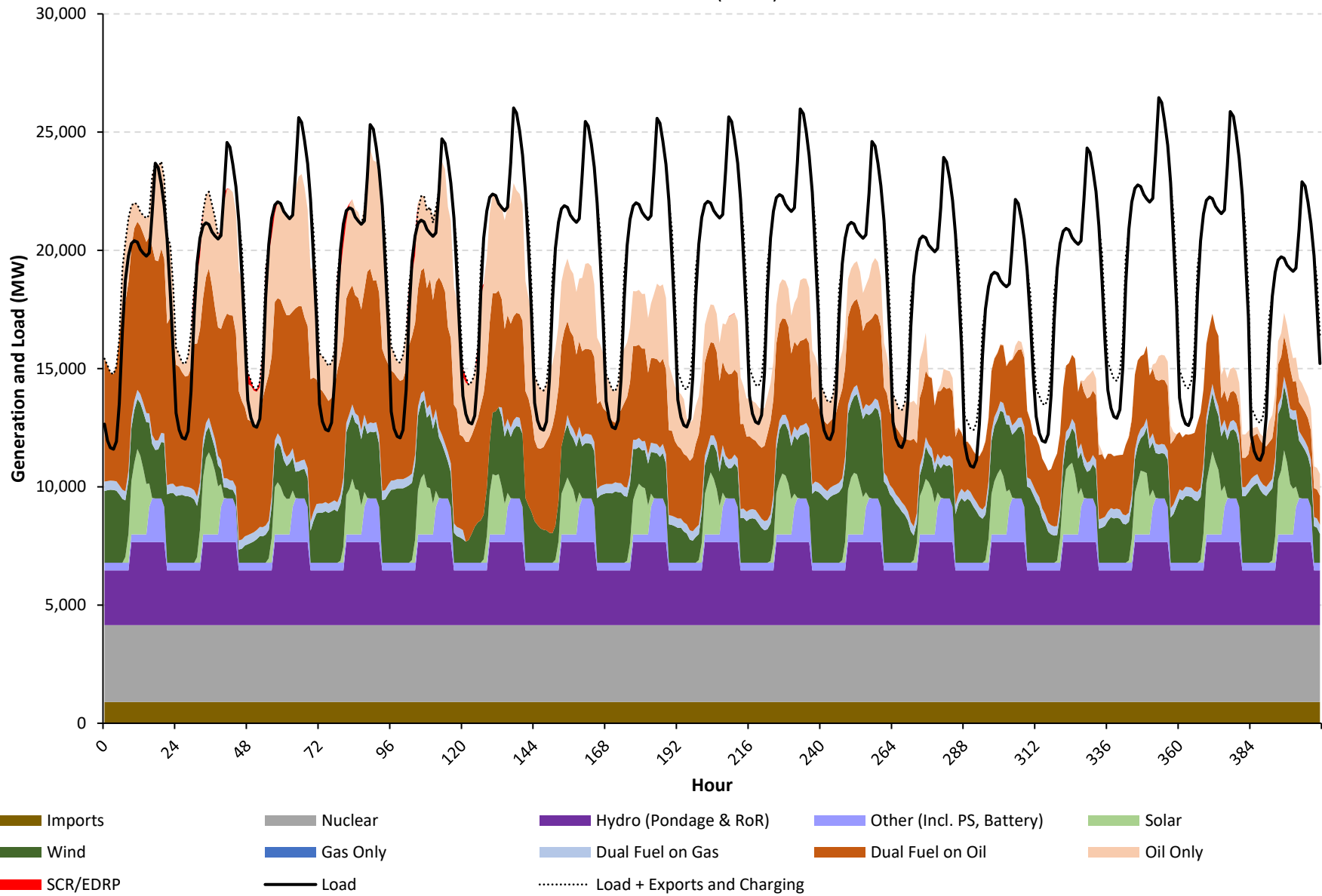
Total MWh of Lost Load



NYCA

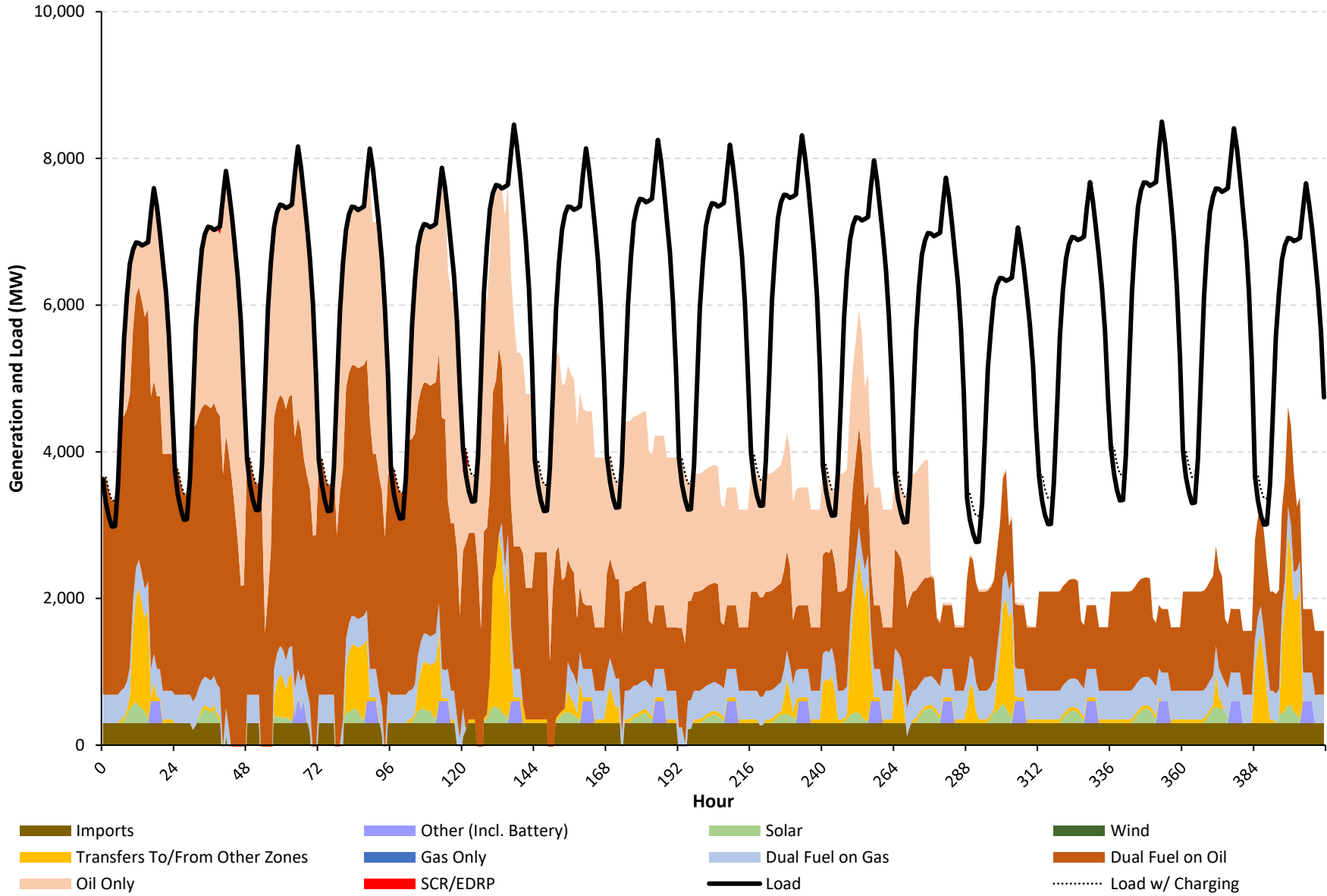
Hourly Generation (MWh) by Fuel Group

Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



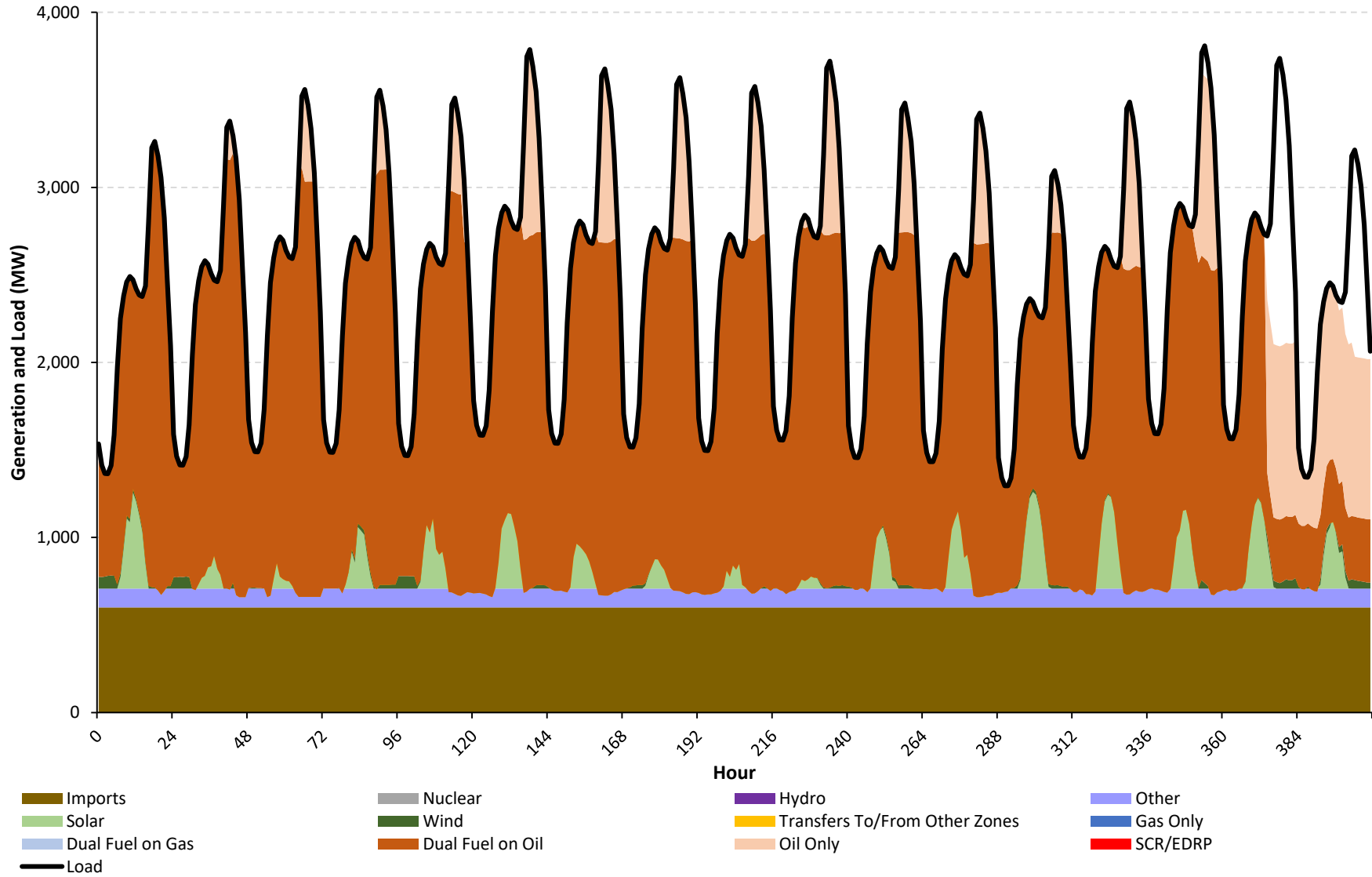
Zone J Hourly Generation (MW) by Fuel Group

Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

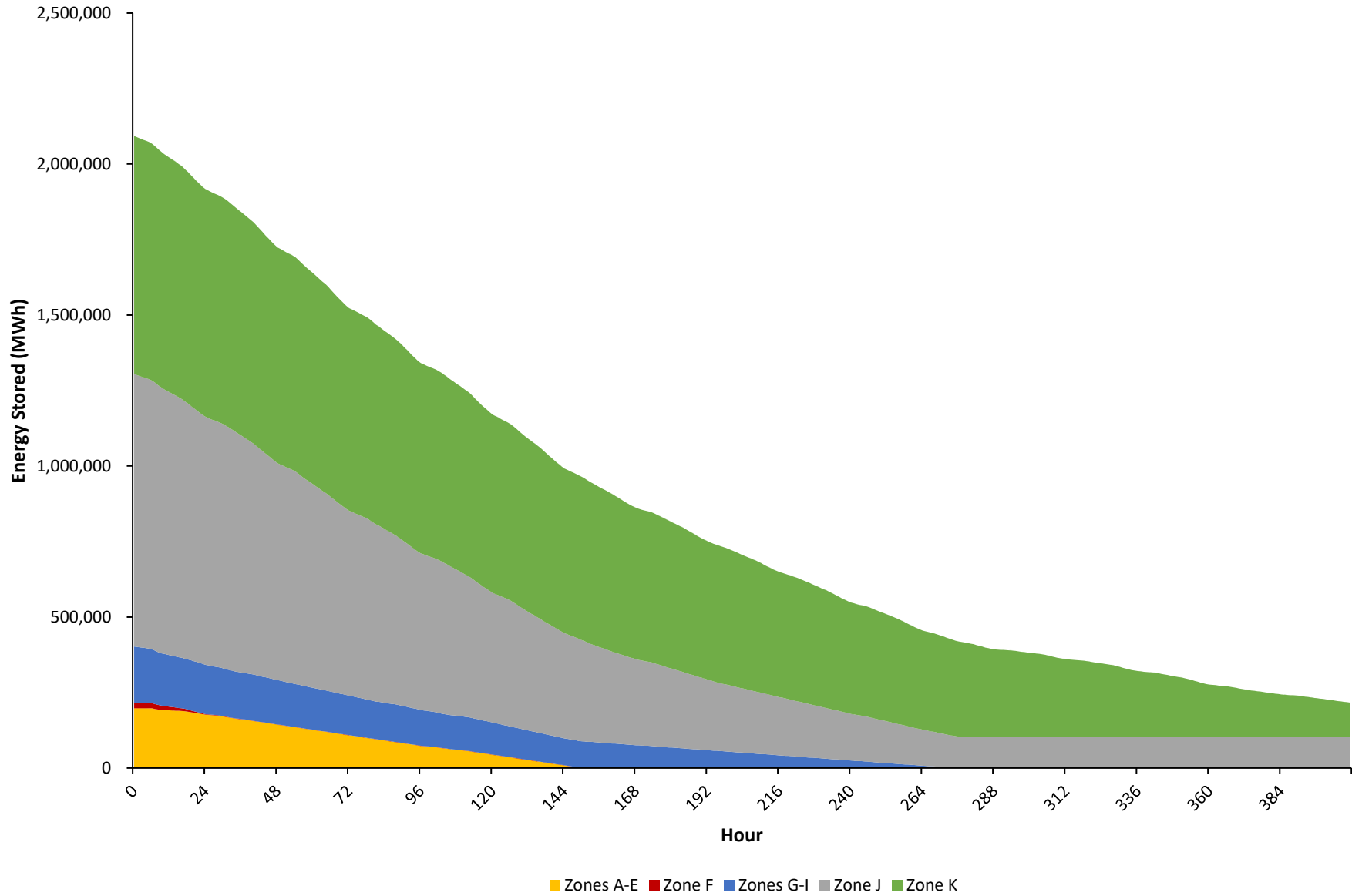


Zone K Hourly Generation (MW) by Fuel Group

Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

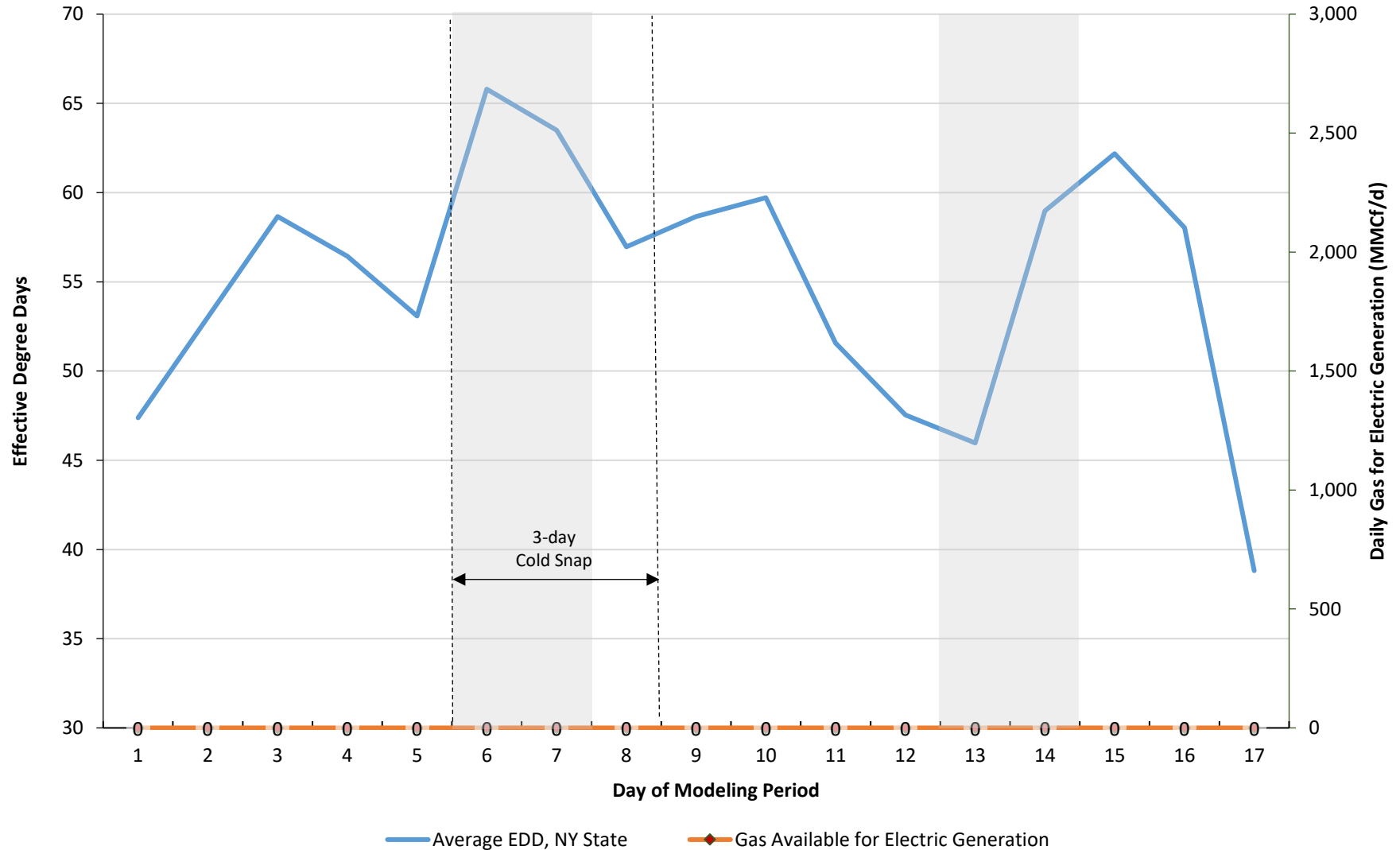


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

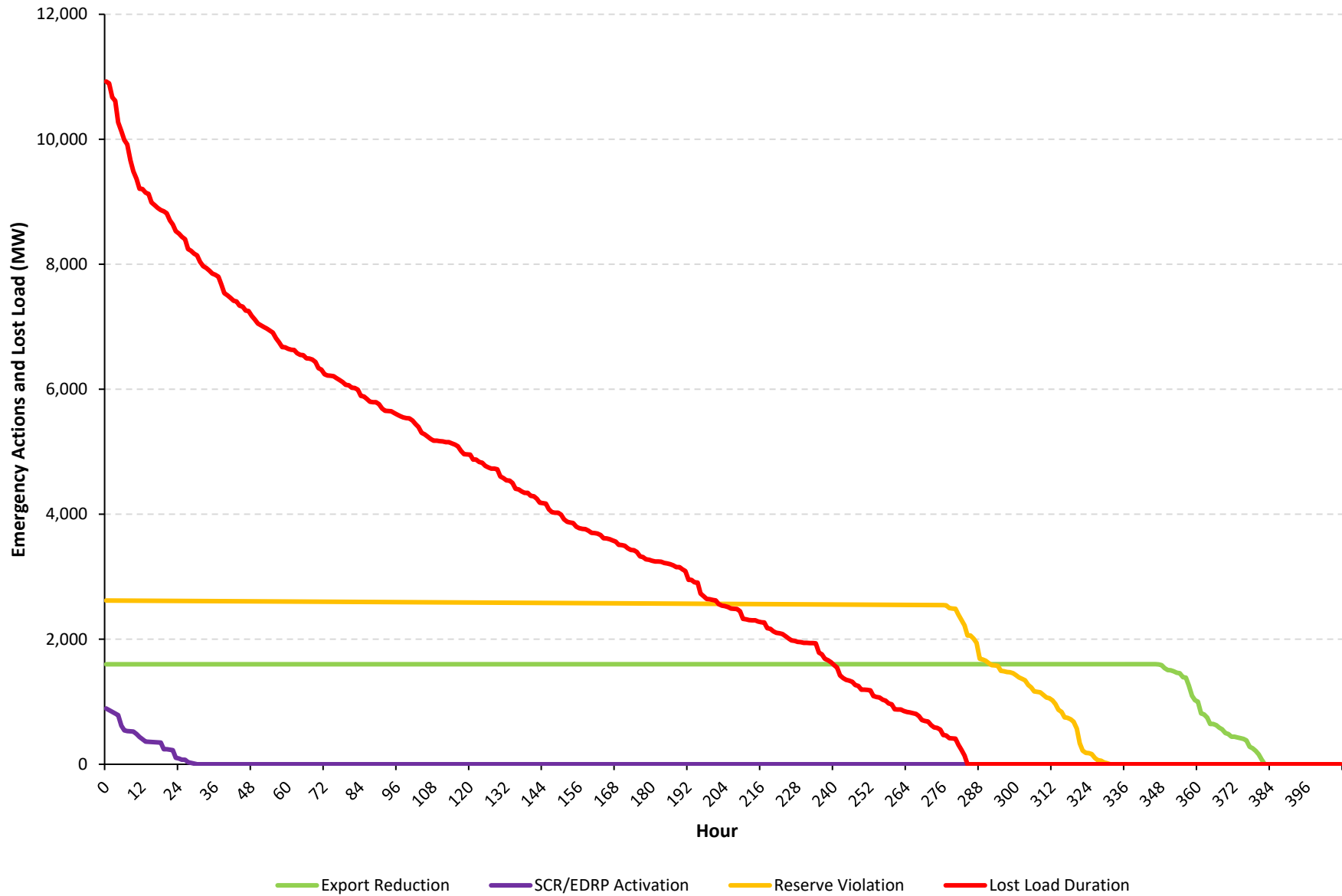
Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

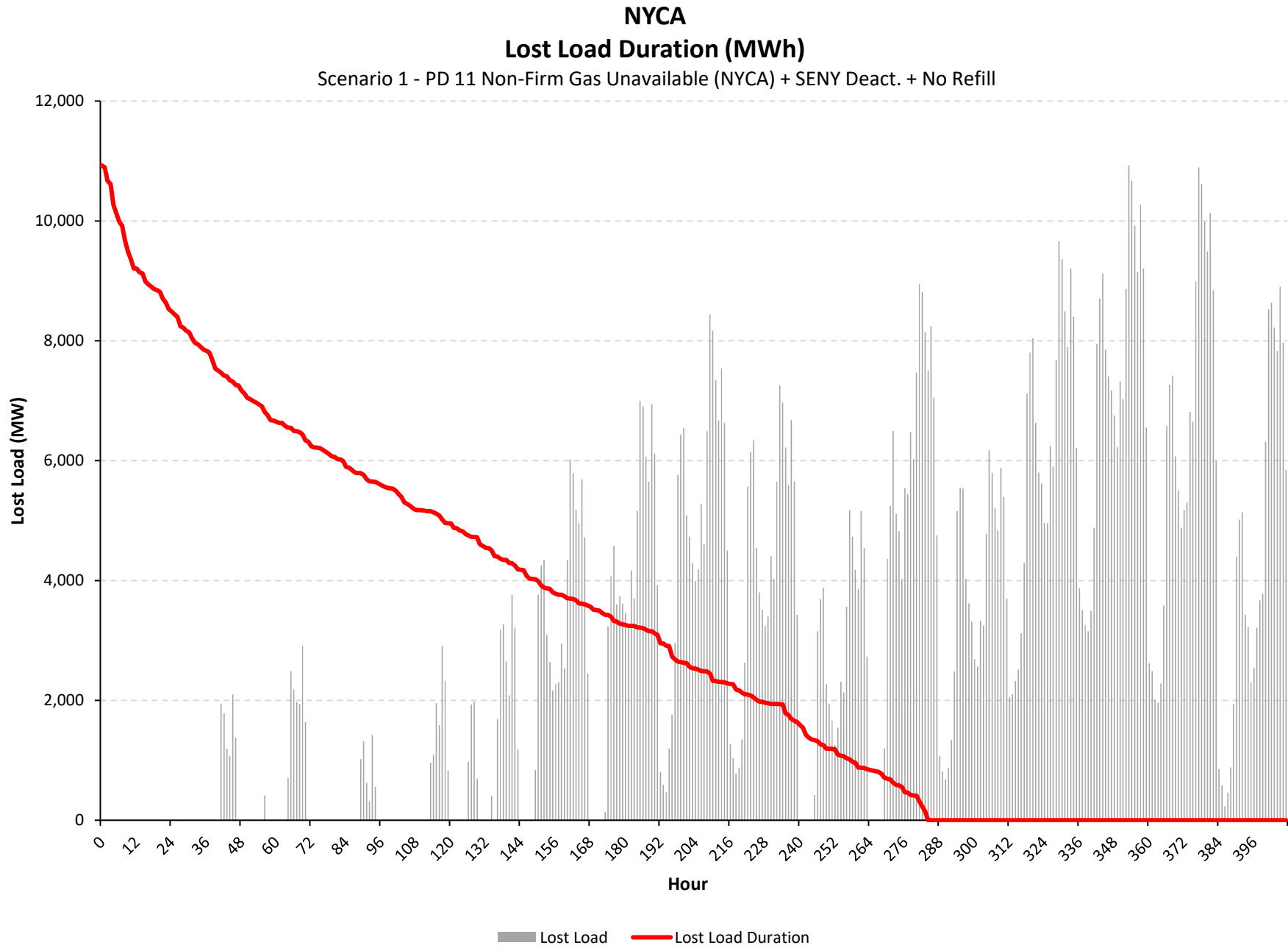


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 1 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill





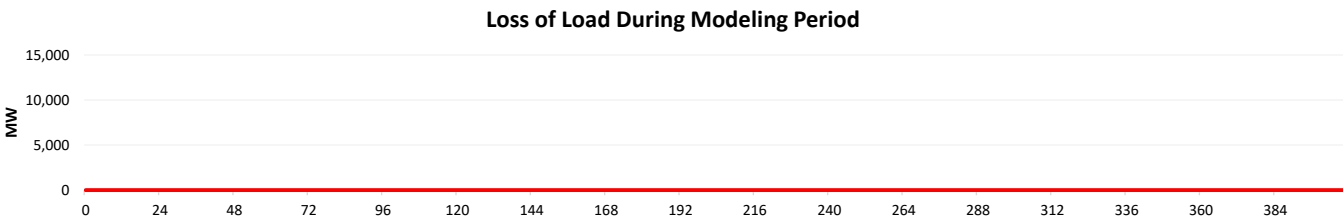
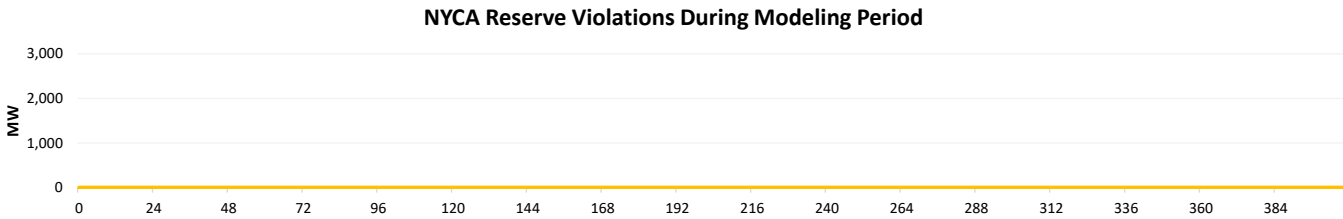
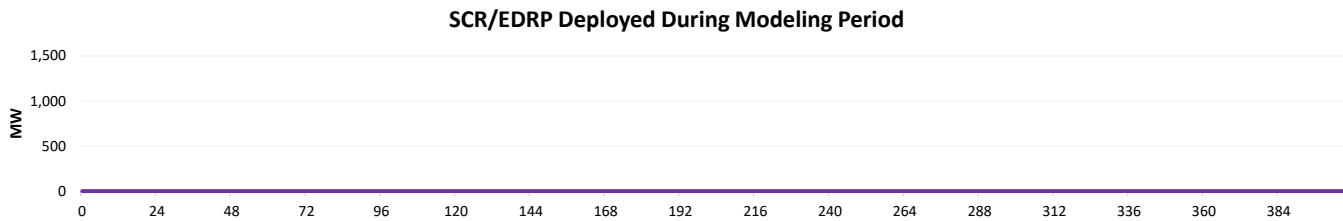
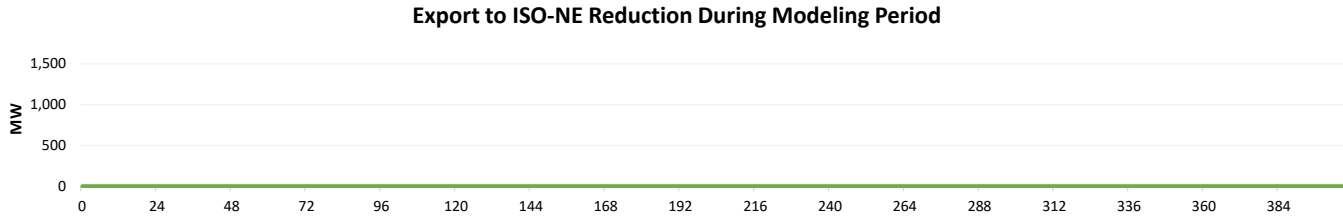
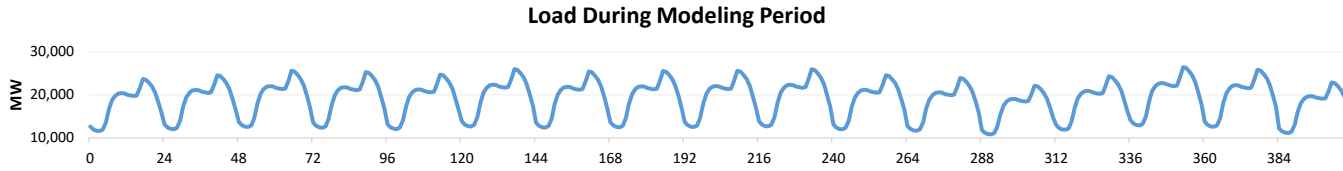
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 2 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

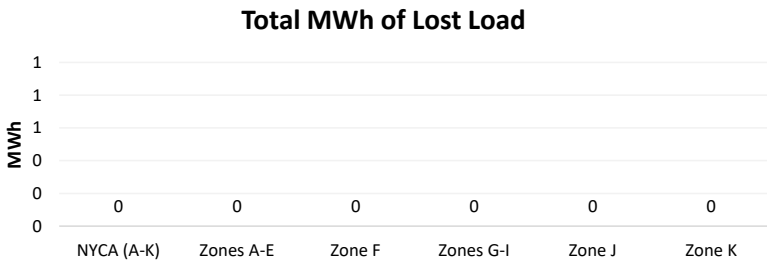
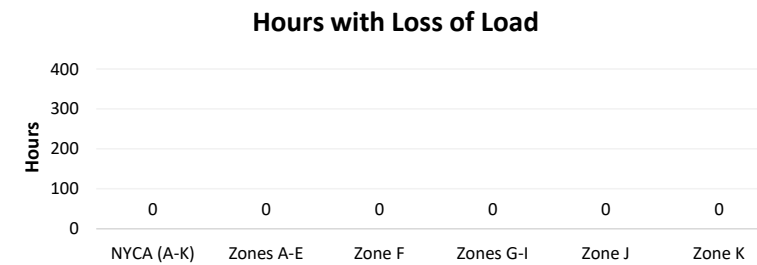
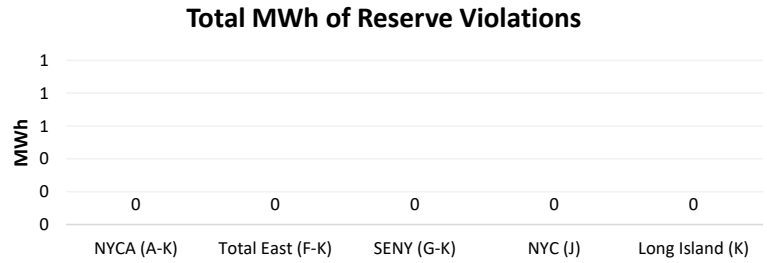
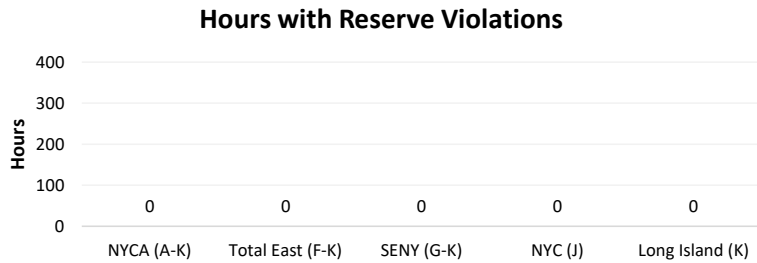
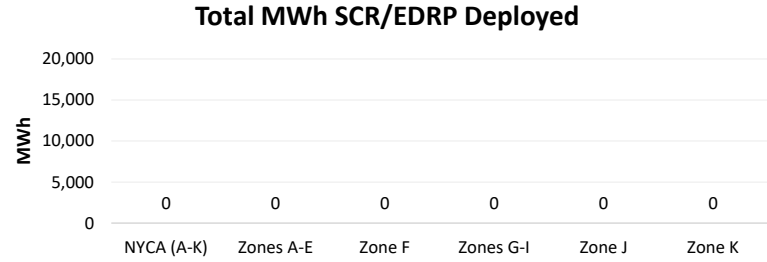
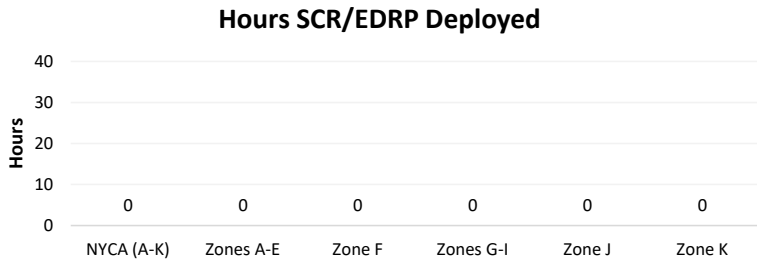
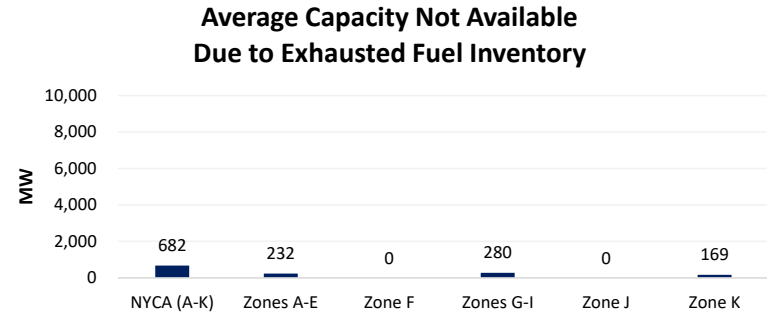
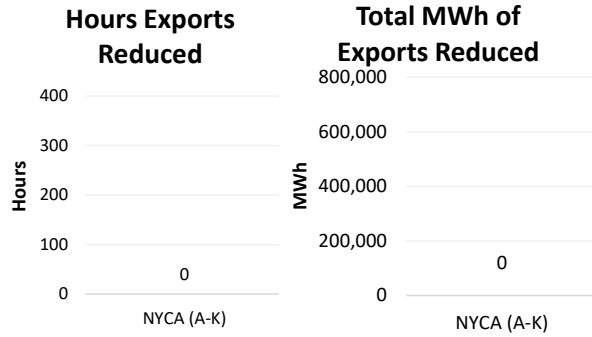
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

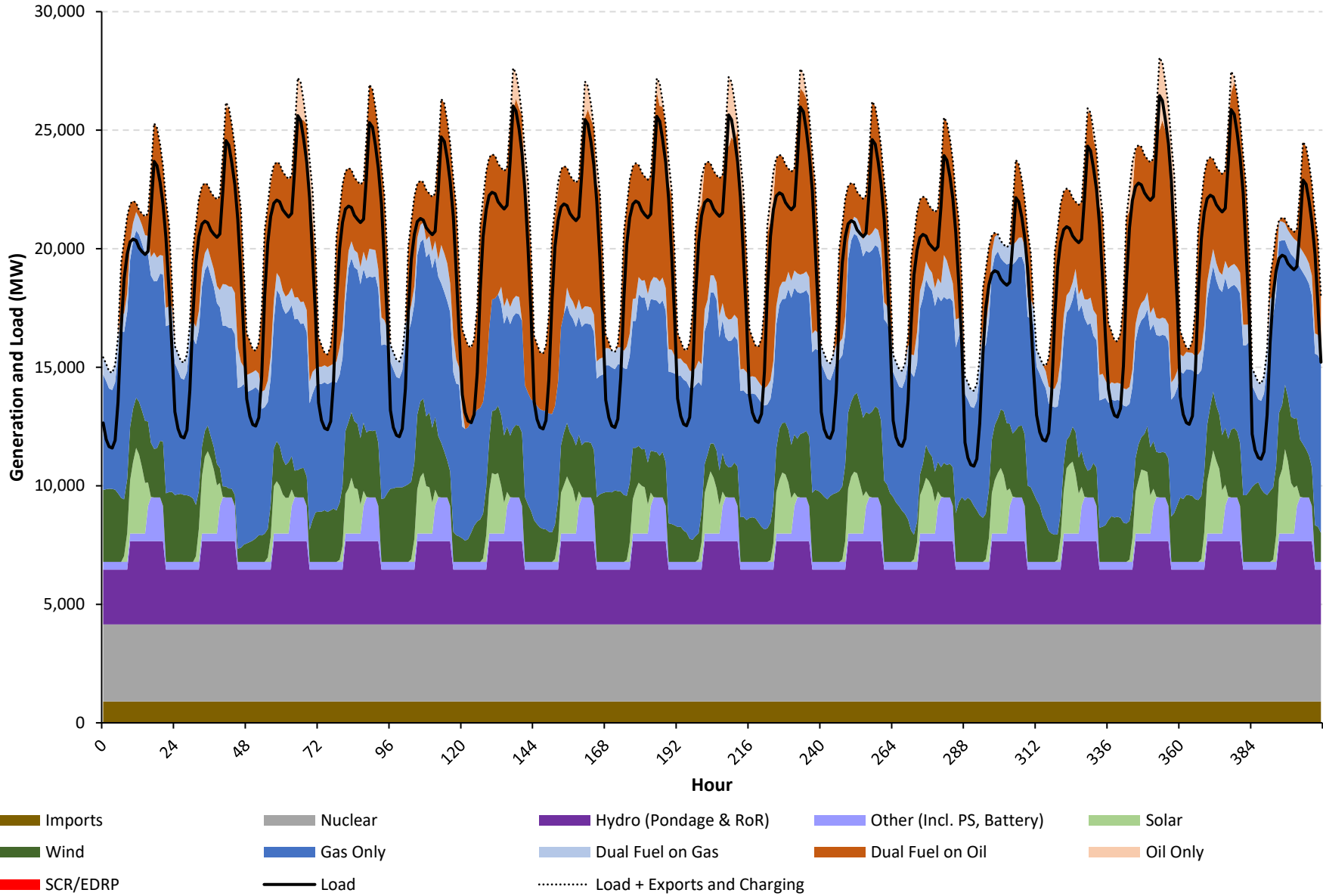
Full Period Results Summary

Case Name: Scenario 2 - PD 1 No Disruptions

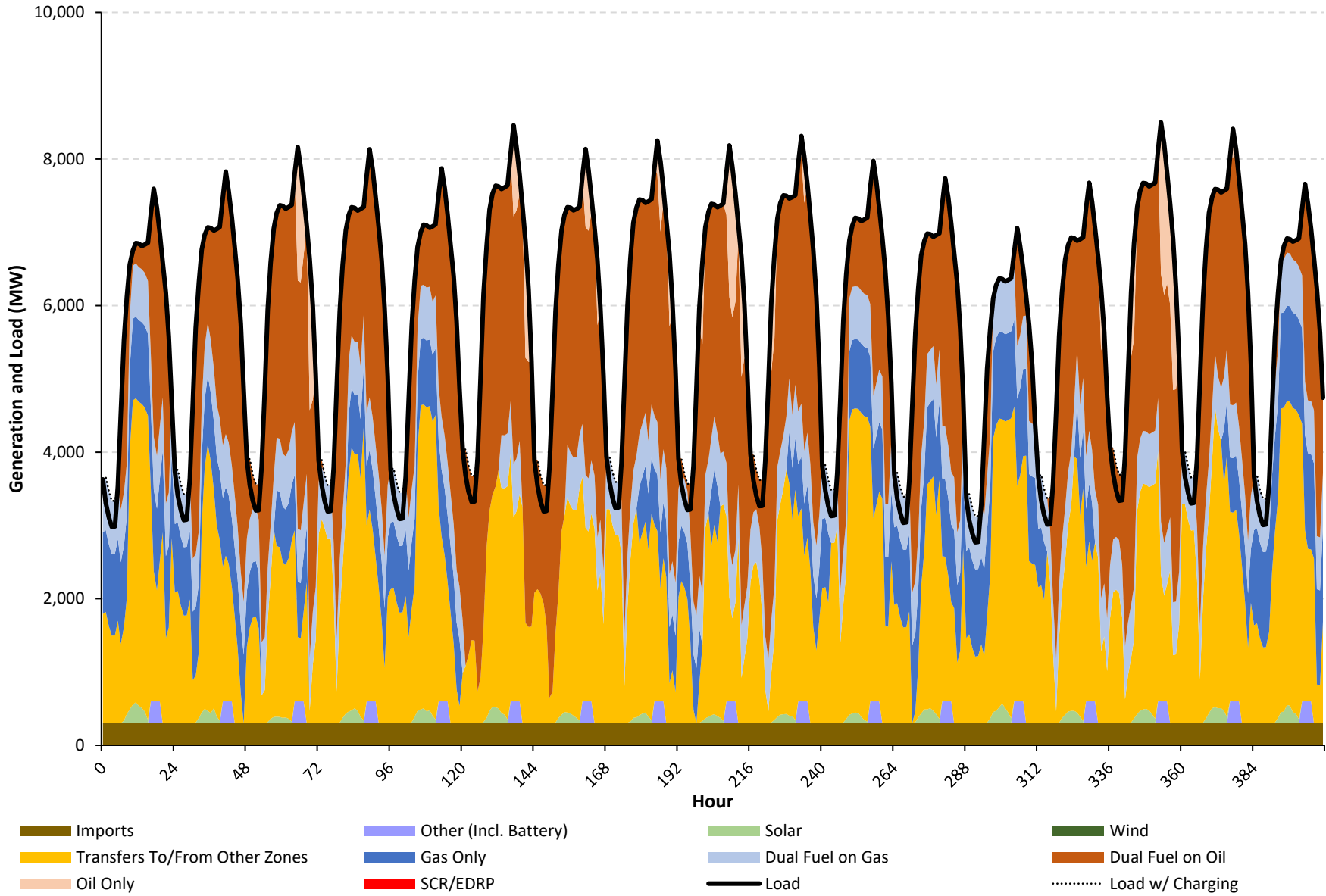
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



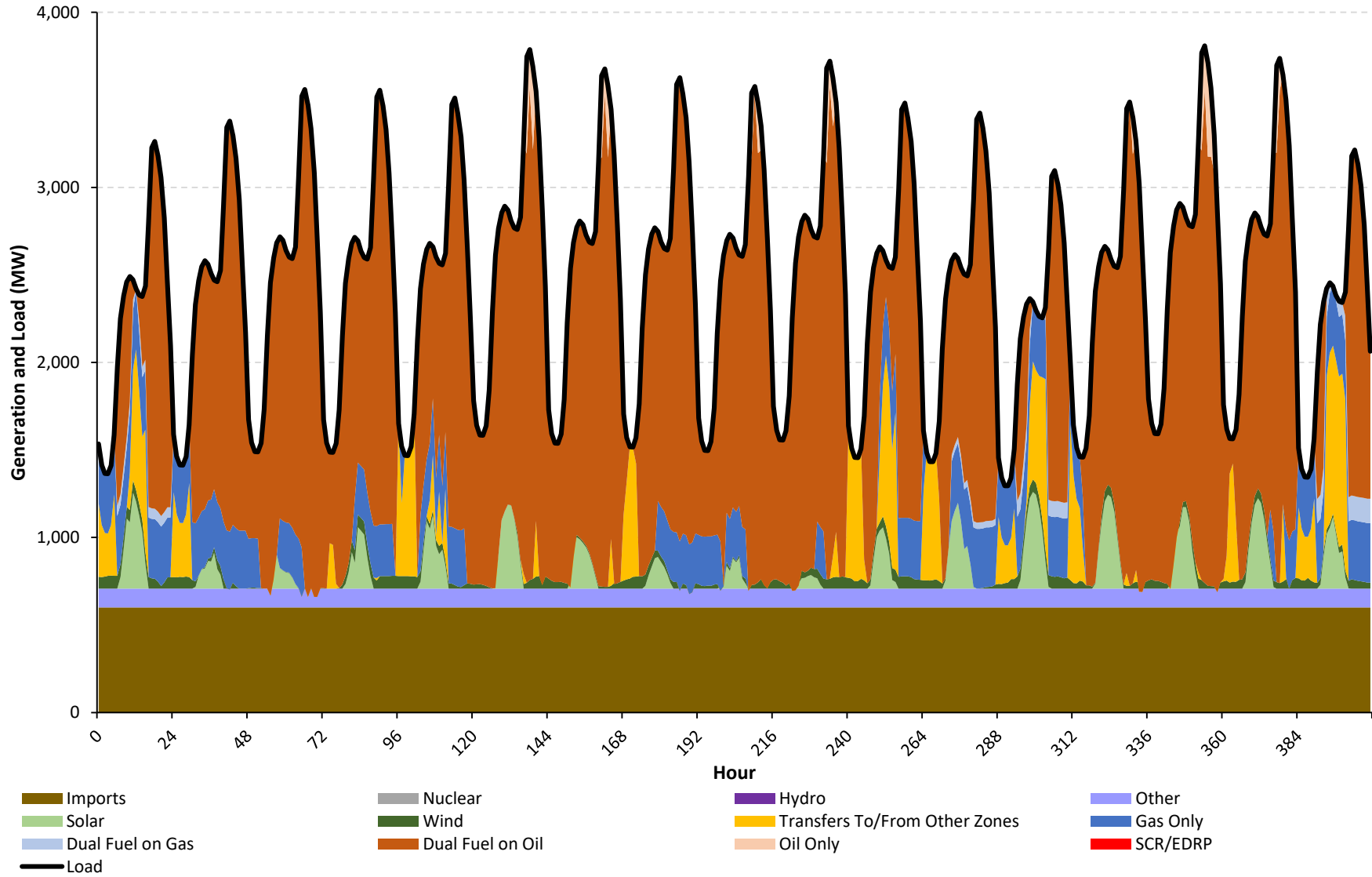
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 1 No Disruptions



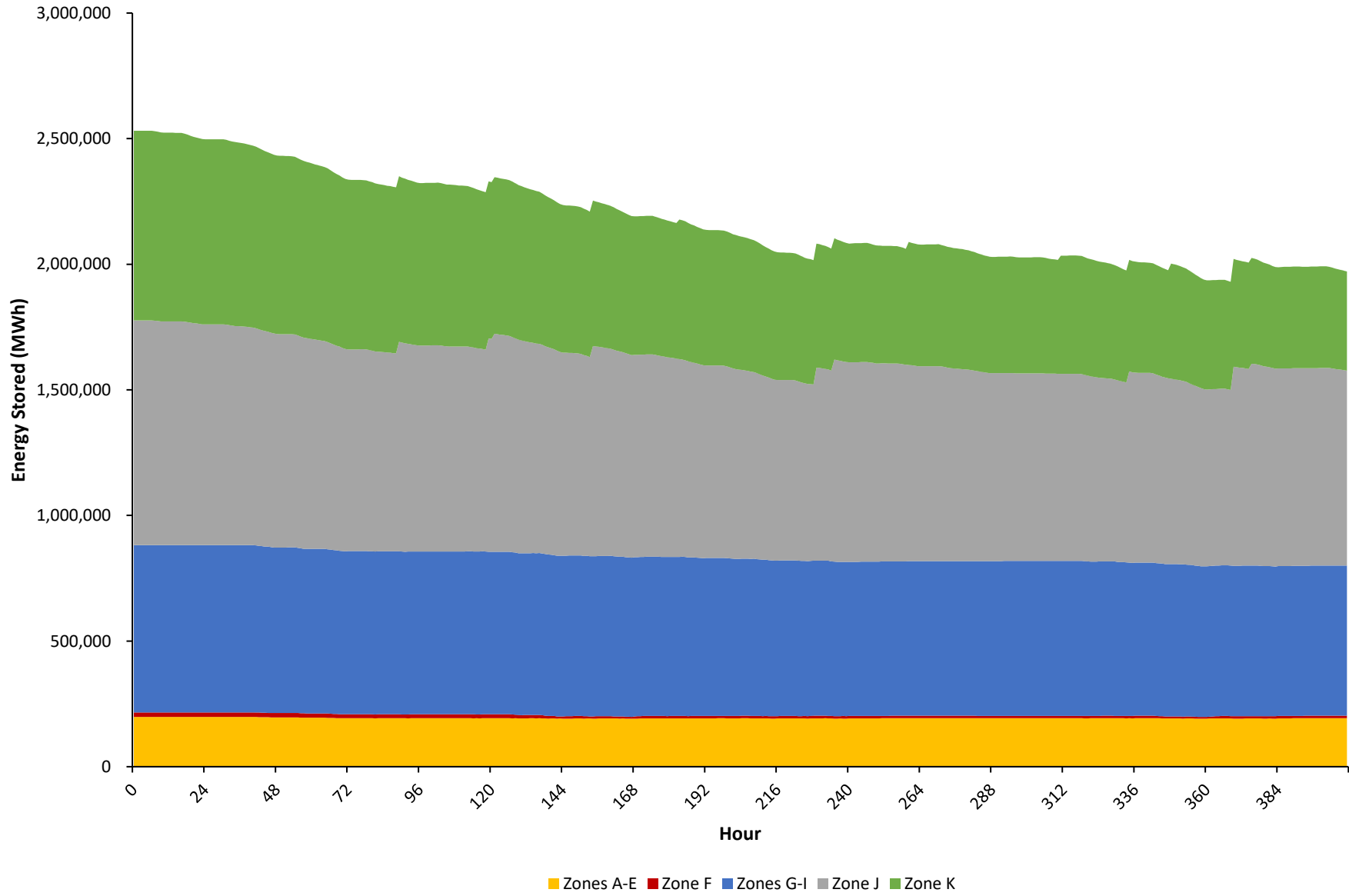
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 1 No Disruptions

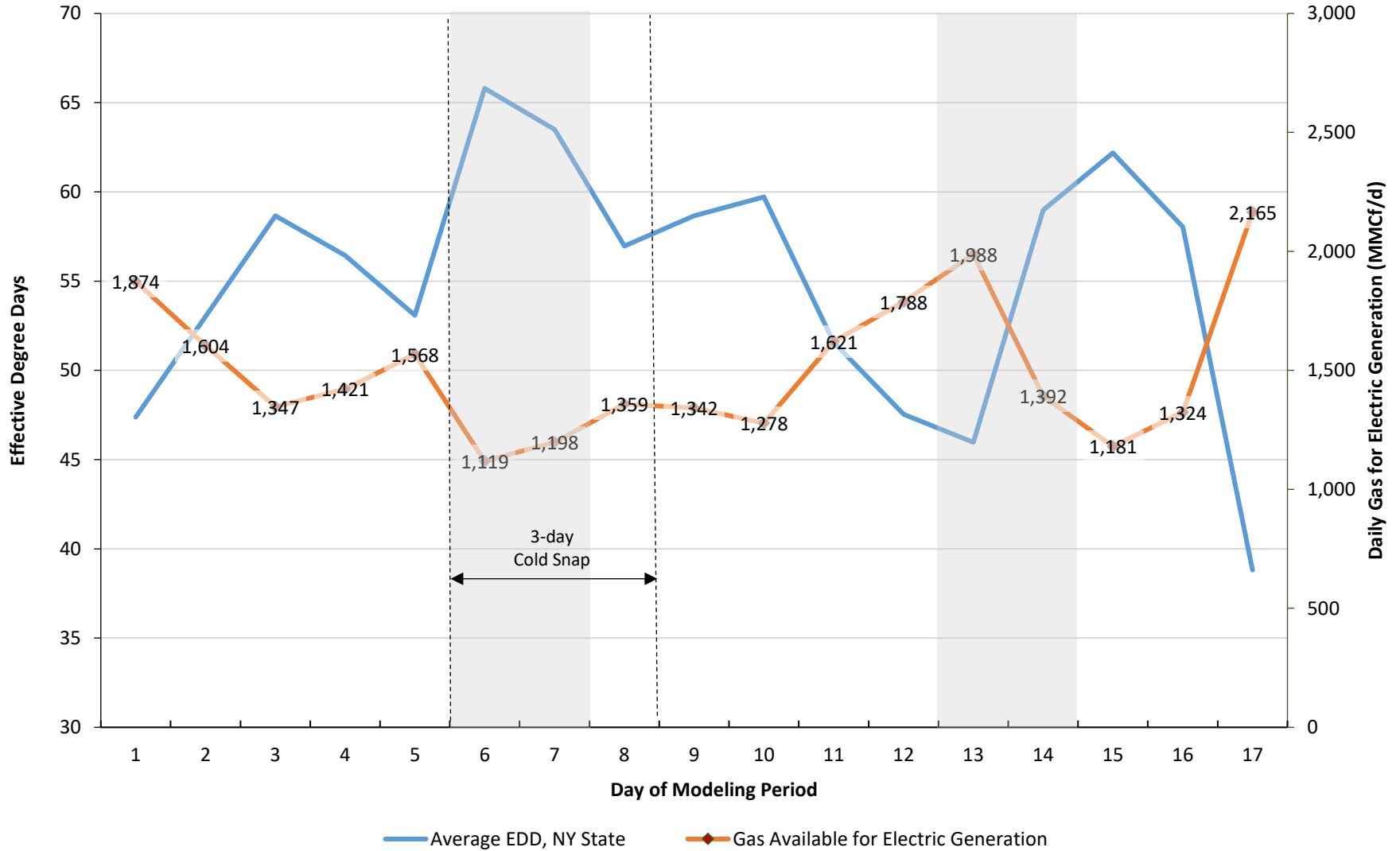


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

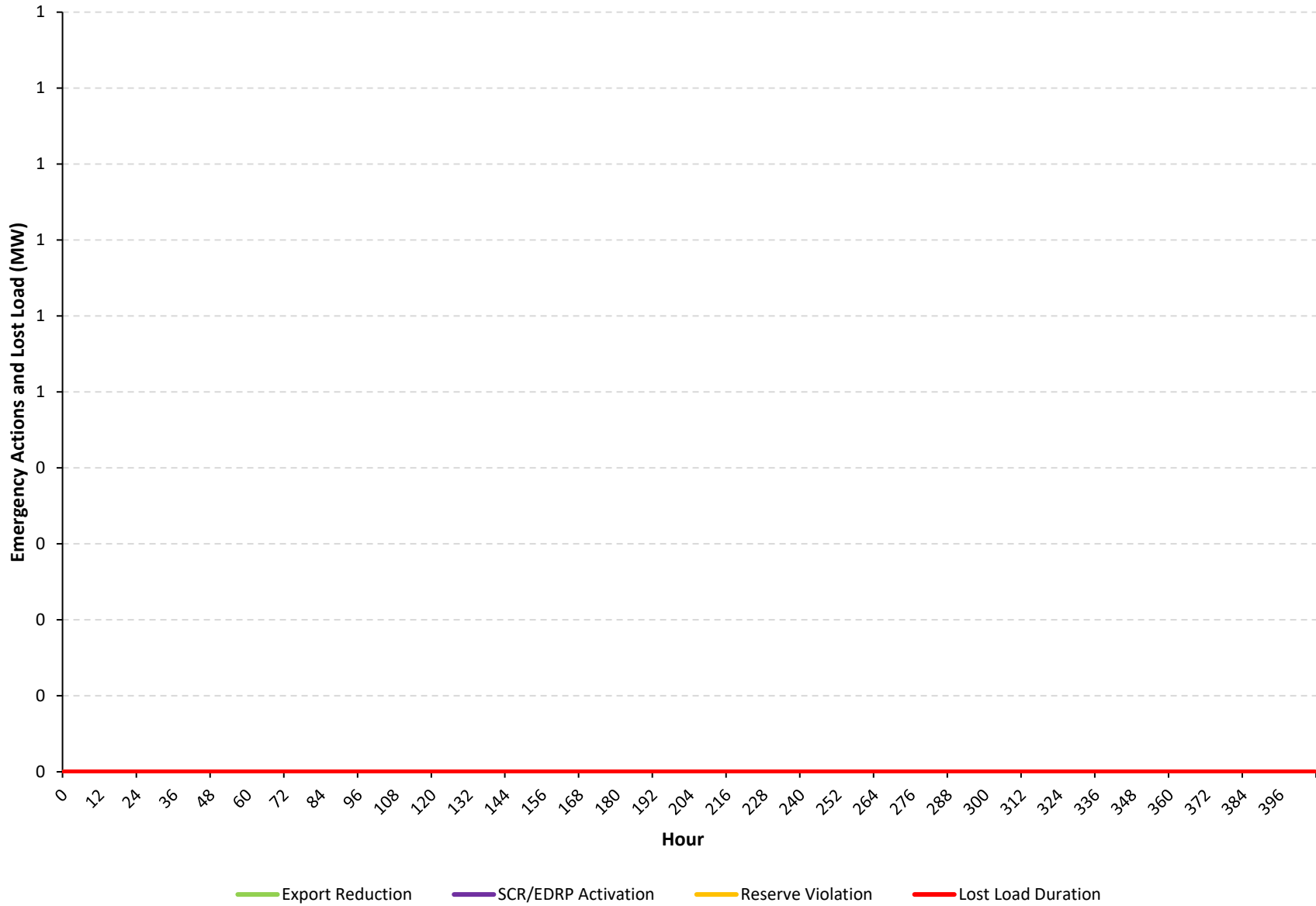
Scenario 2 - PD 1 No Disruptions



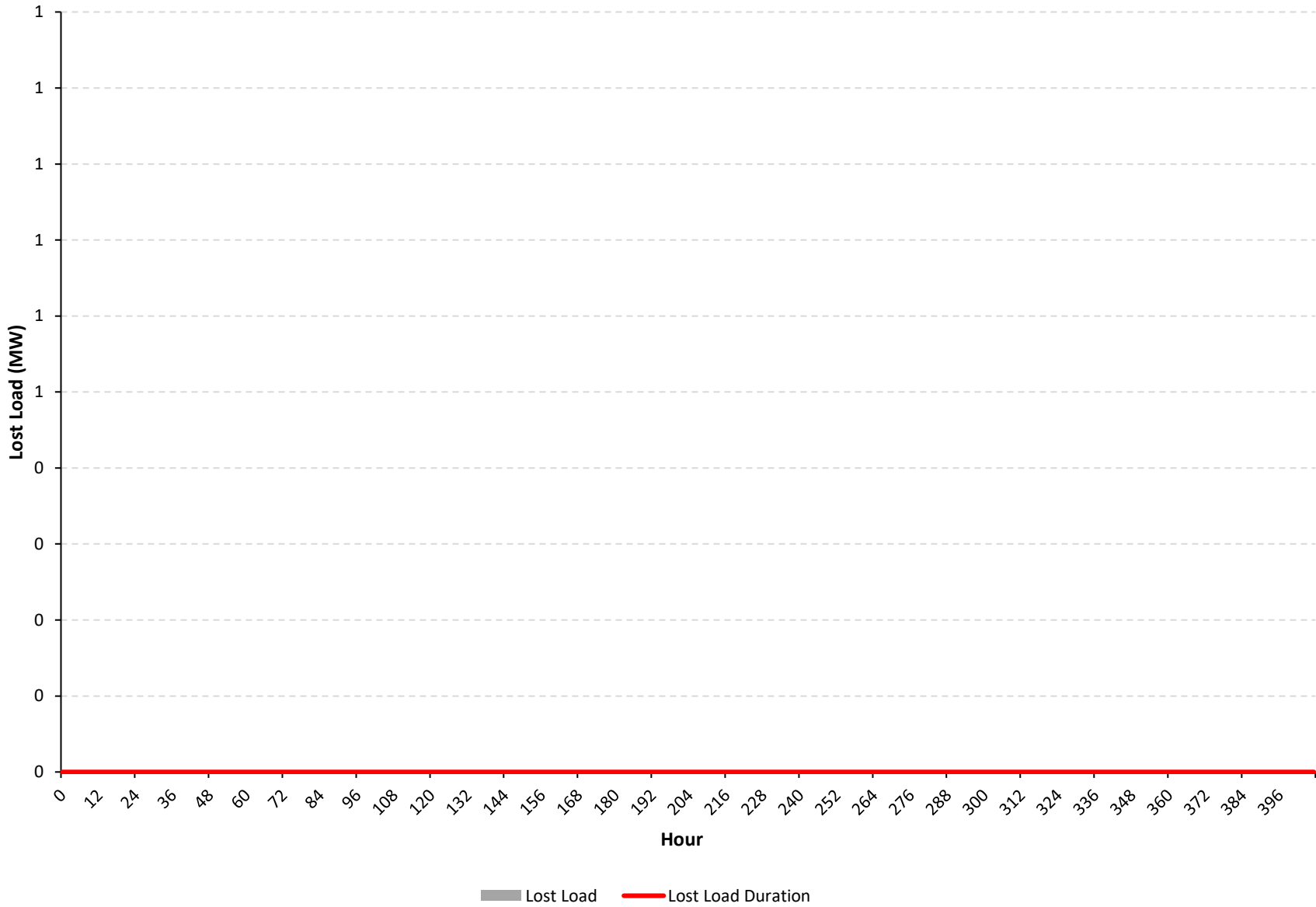
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 1 No Disruptions



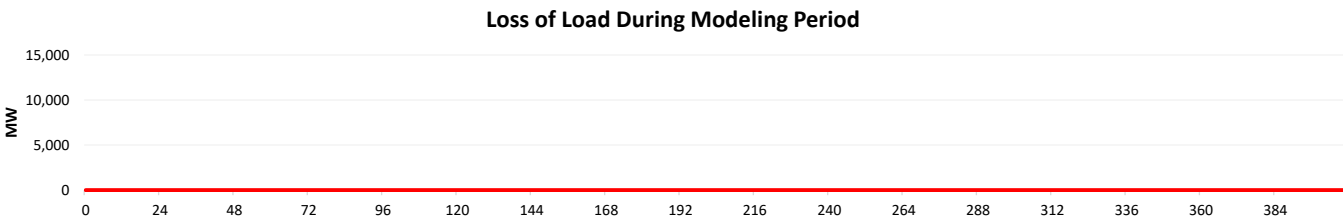
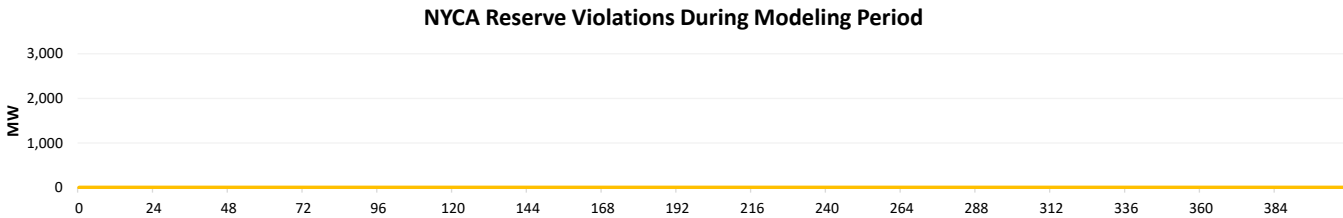
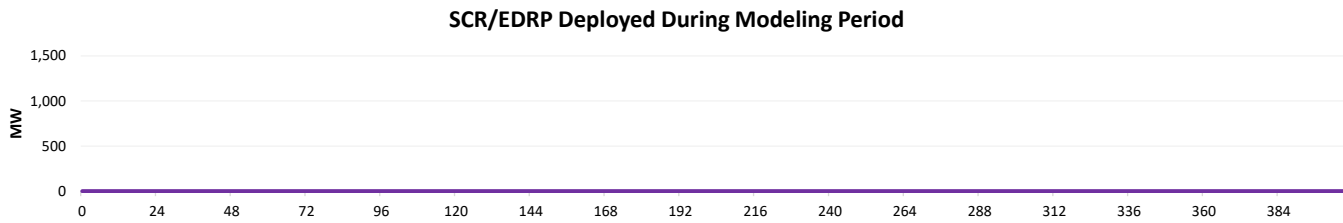
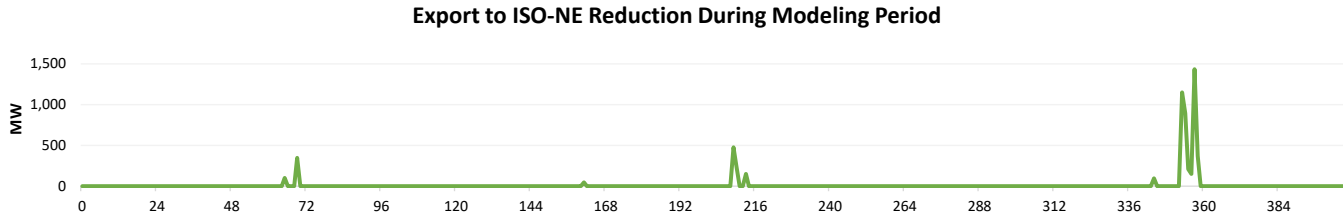
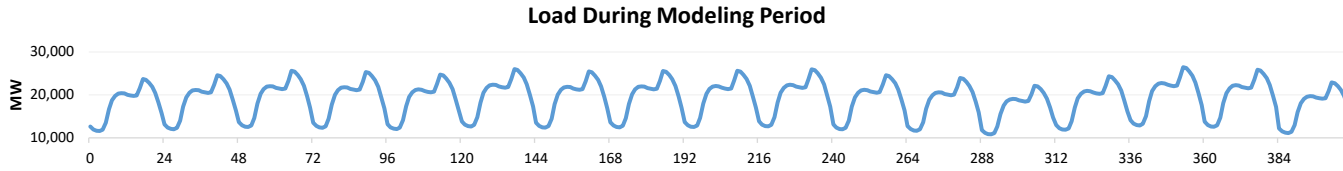
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 2 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	13
Total MWh	5,664
Avg. MW	13.9

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

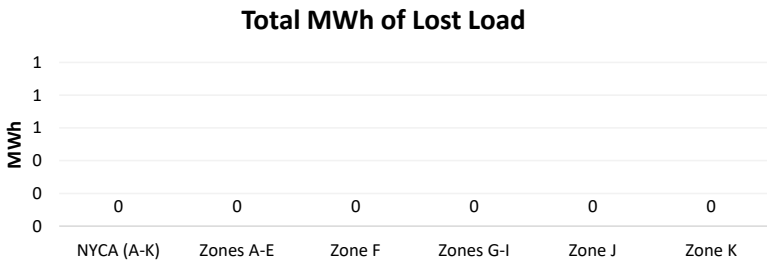
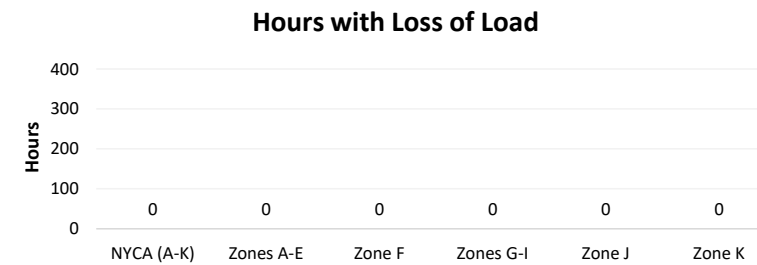
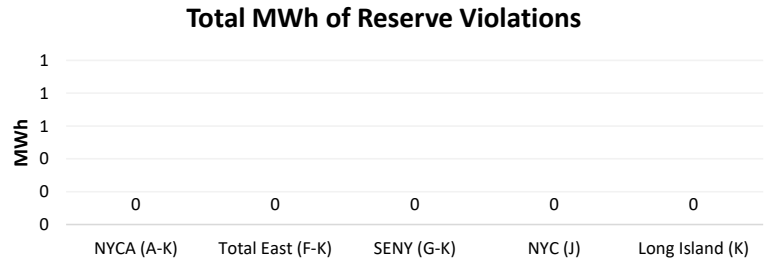
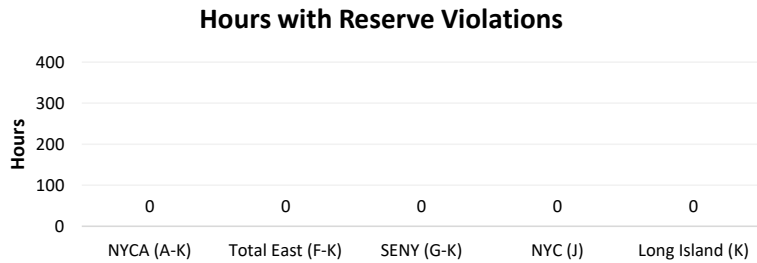
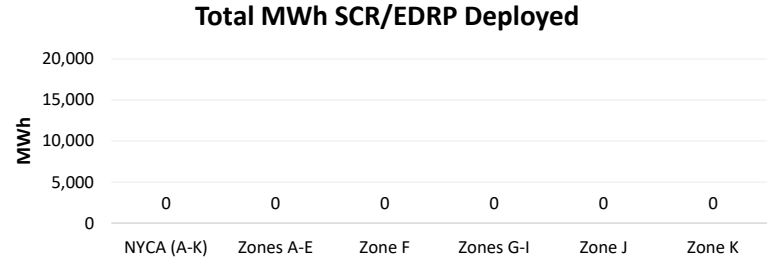
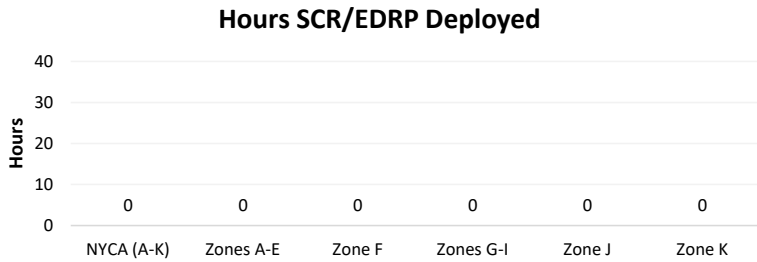
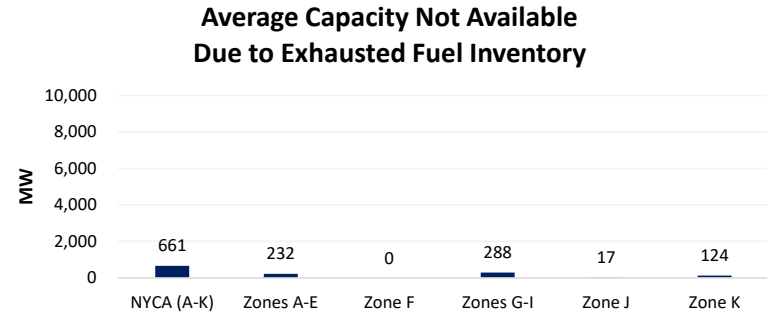
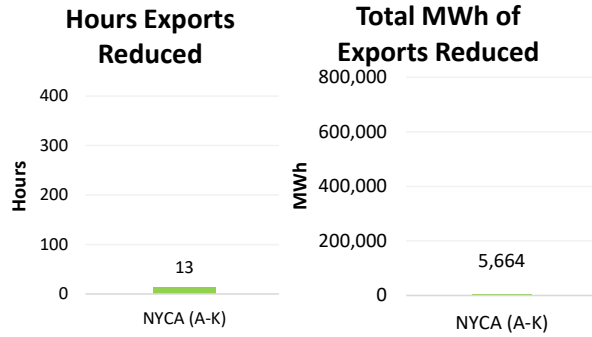
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

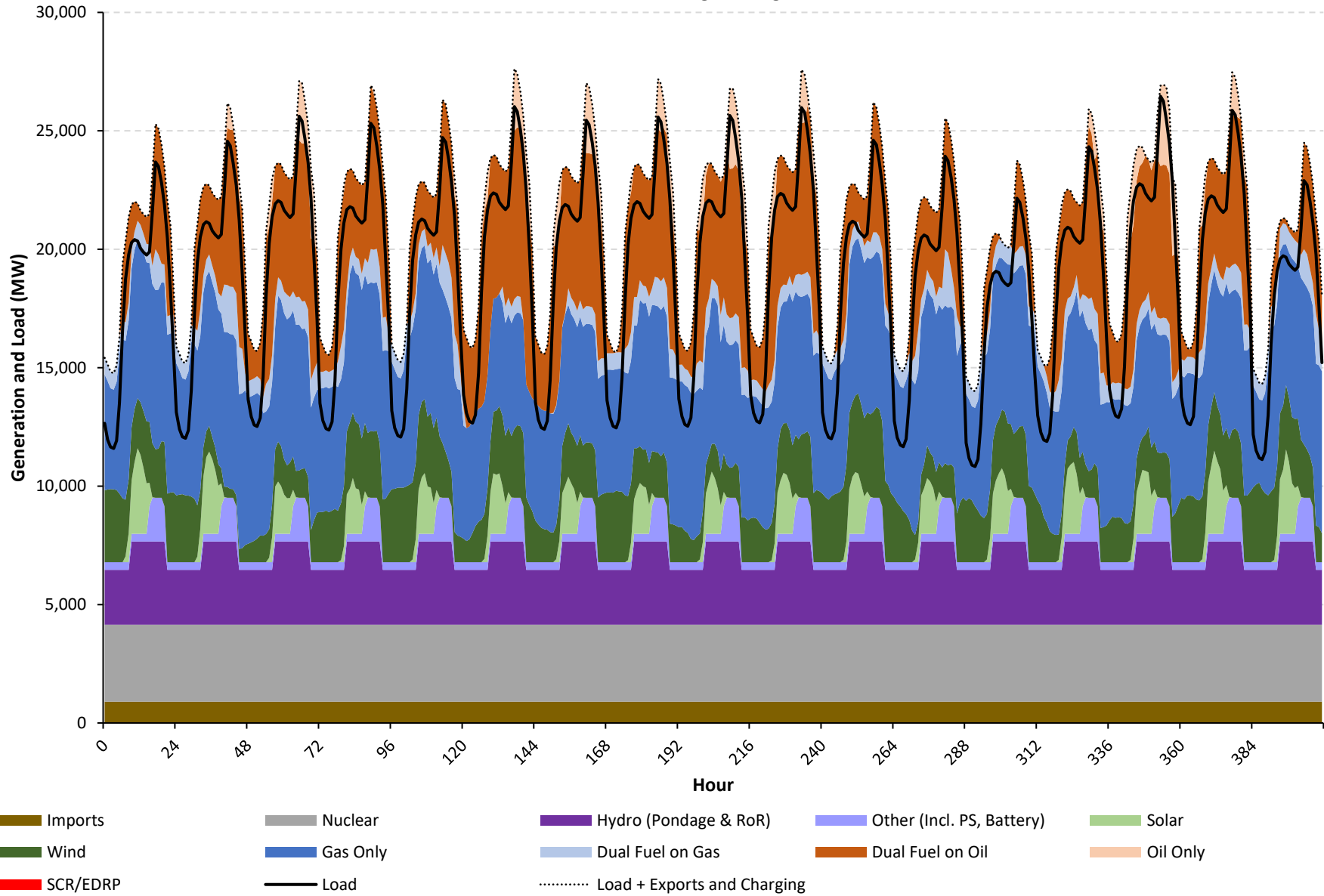
Full Period Results Summary

Case Name: Scenario 2 - PD 2 High Outage

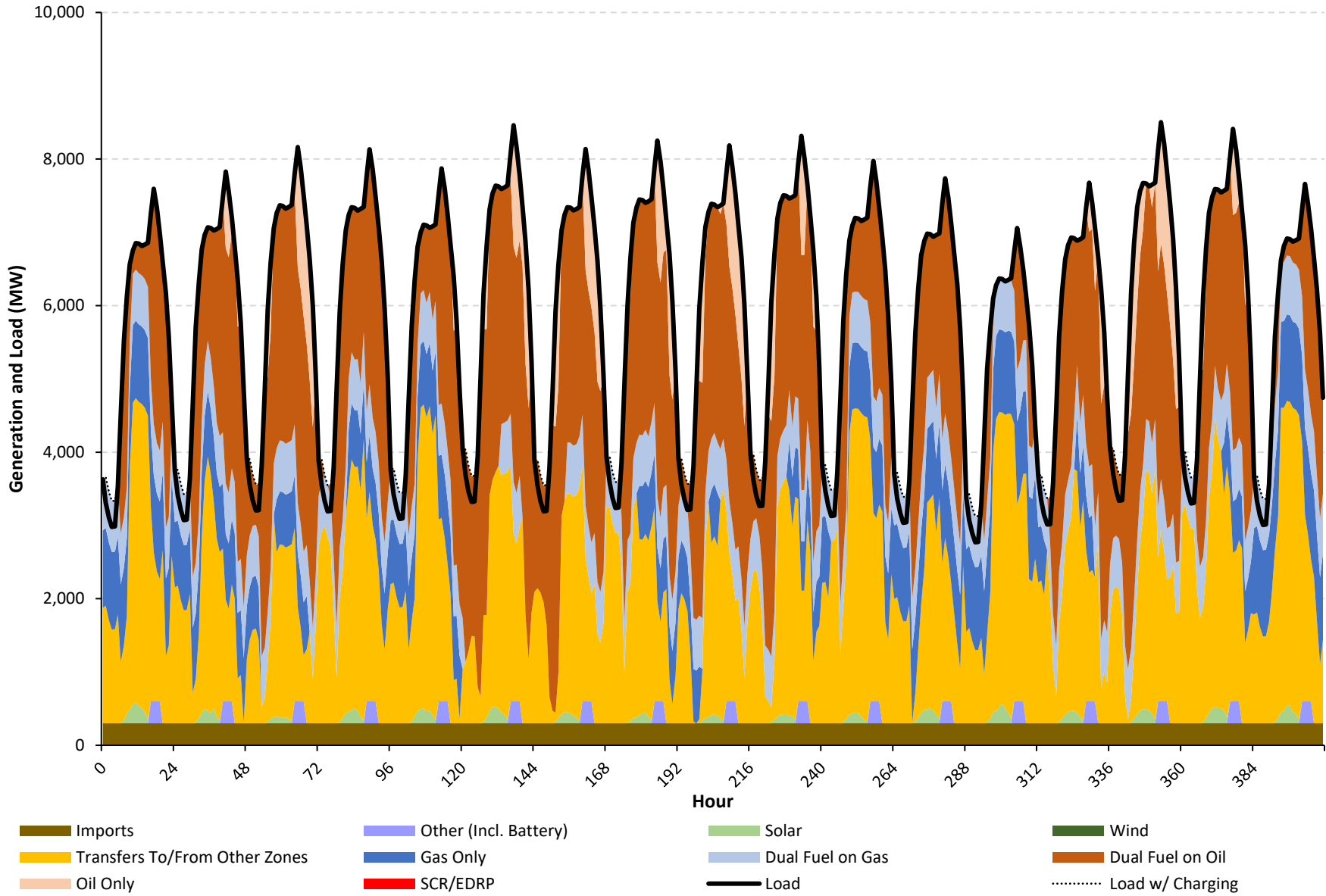
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



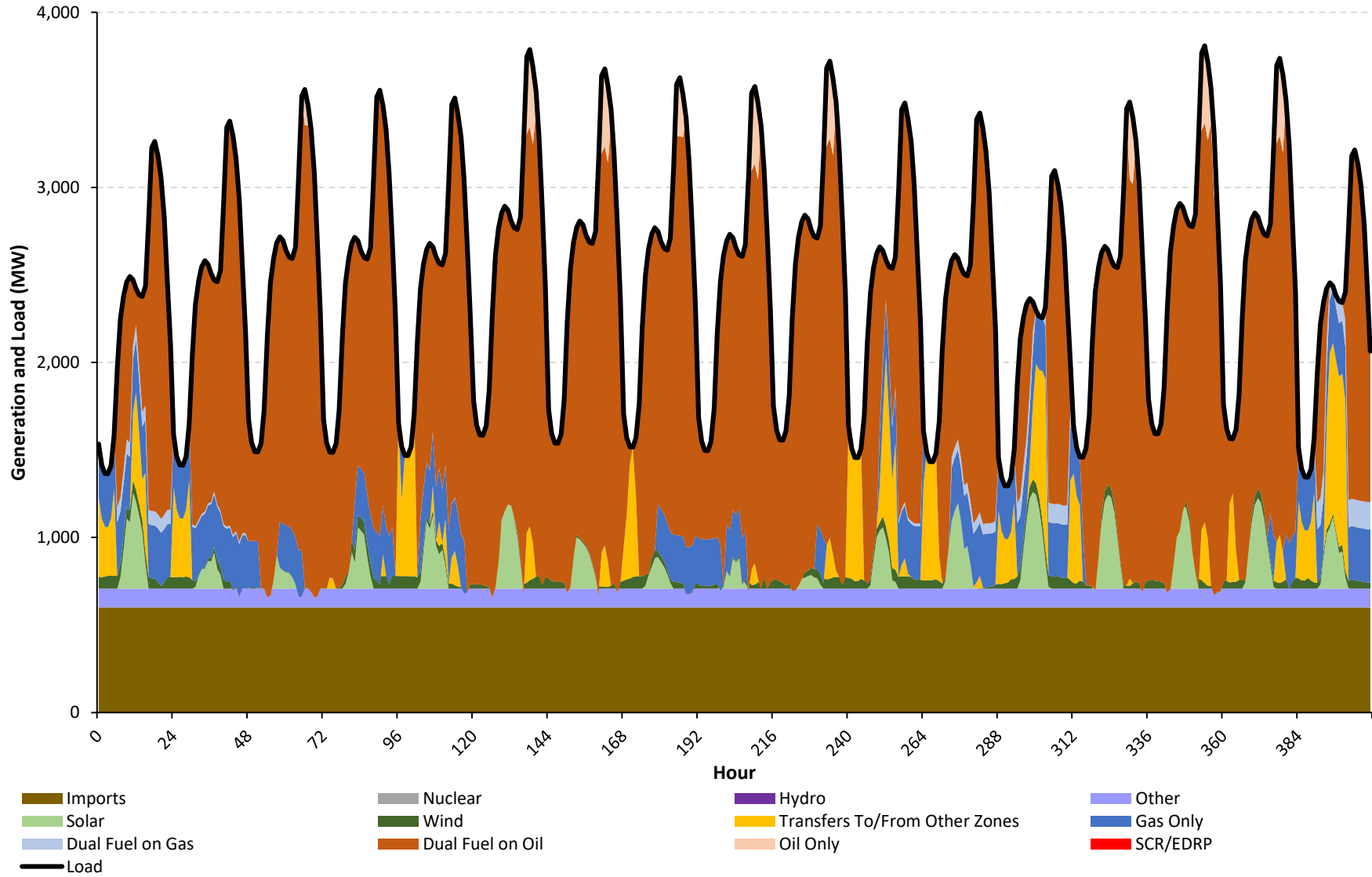
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 2 High Outage



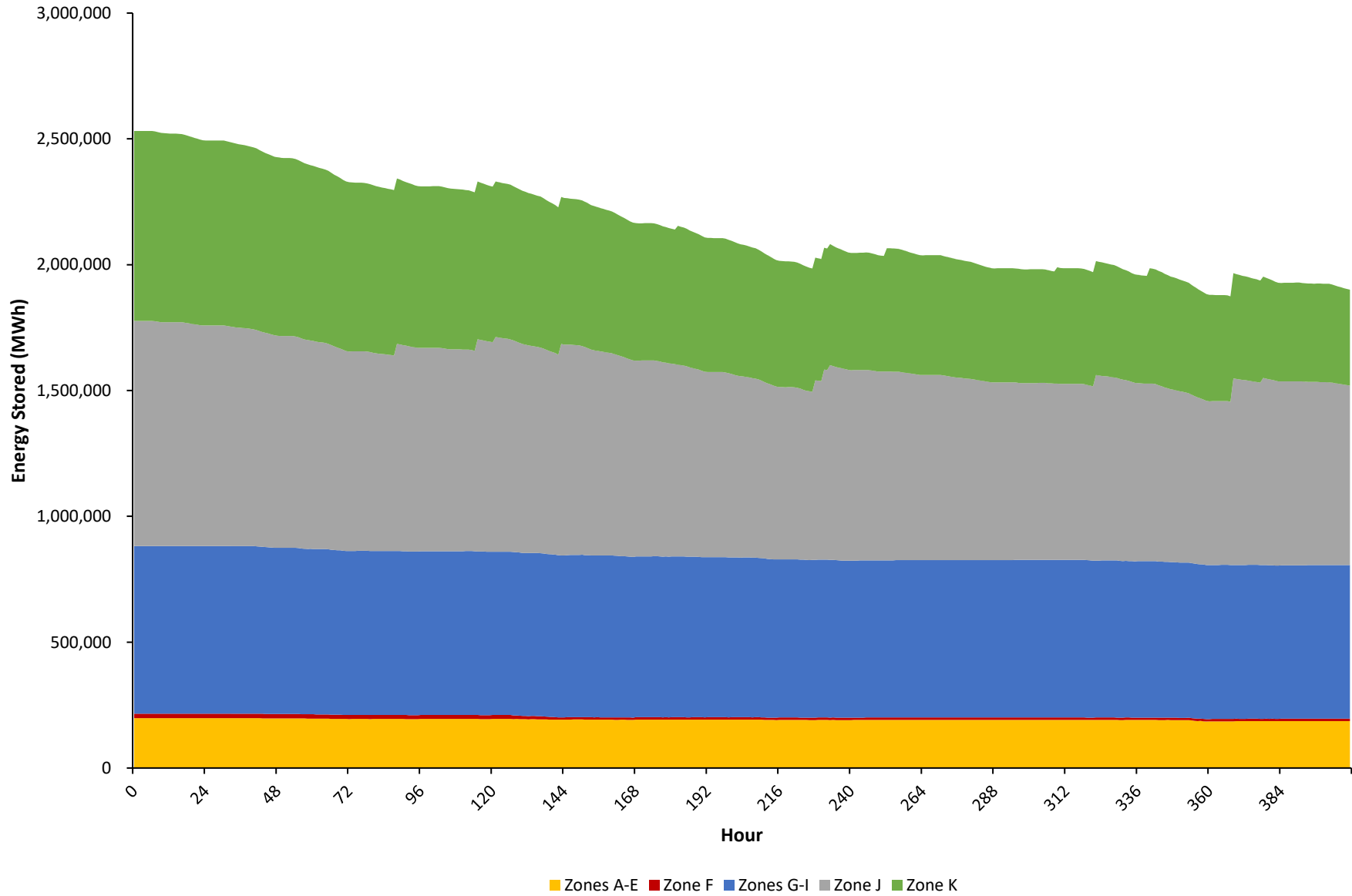
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 2 High Outage

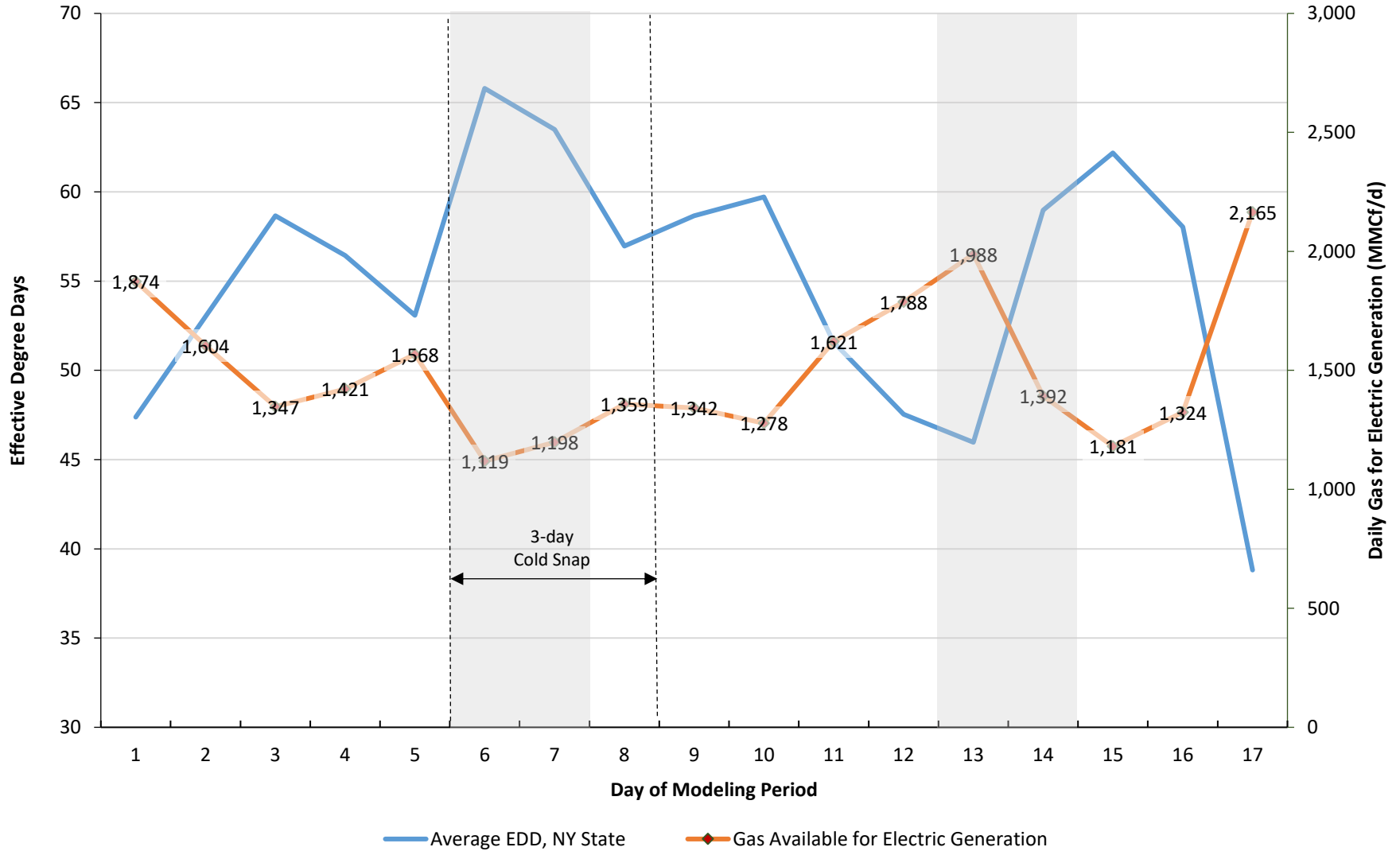


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

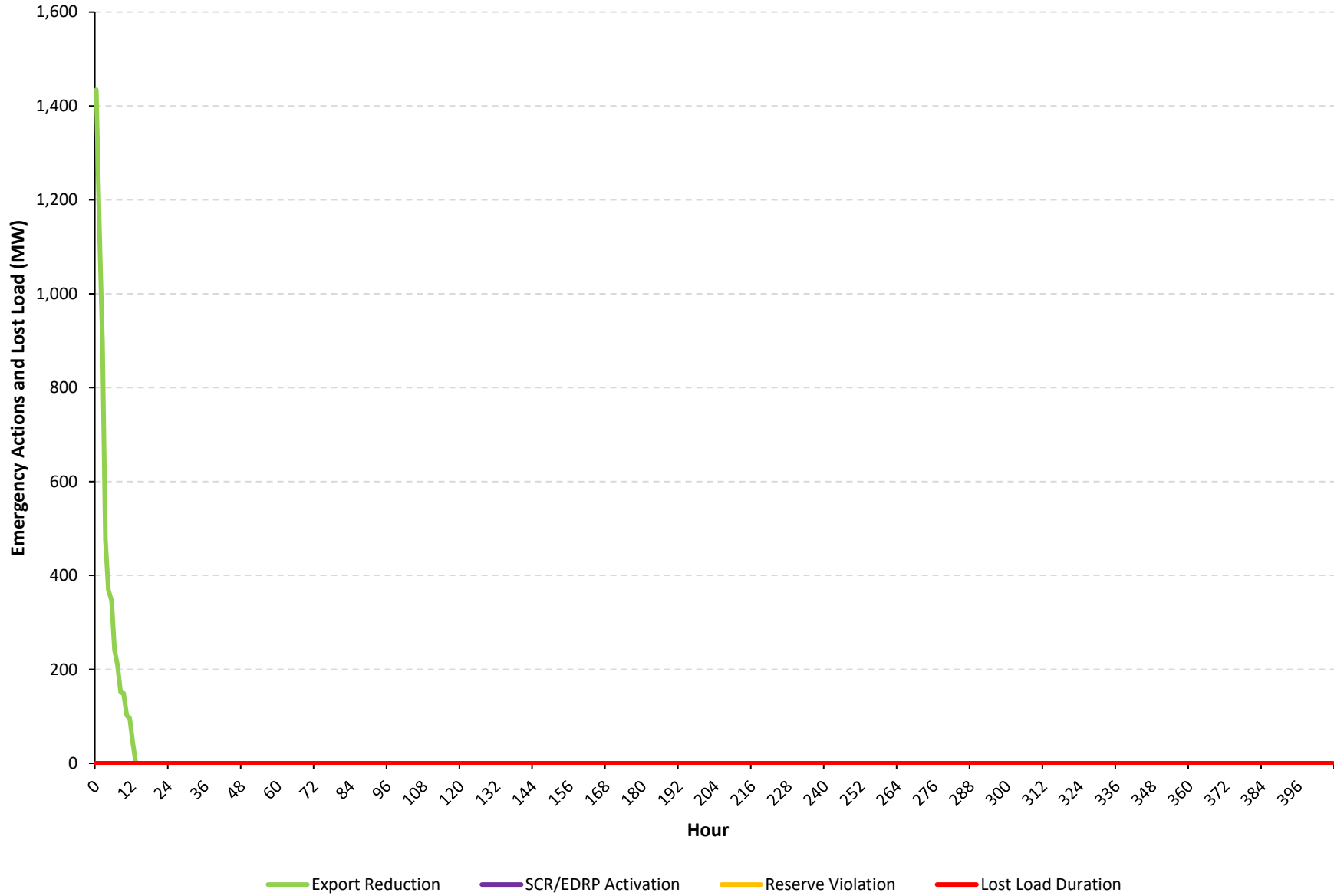
Scenario 2 - PD 2 High Outage



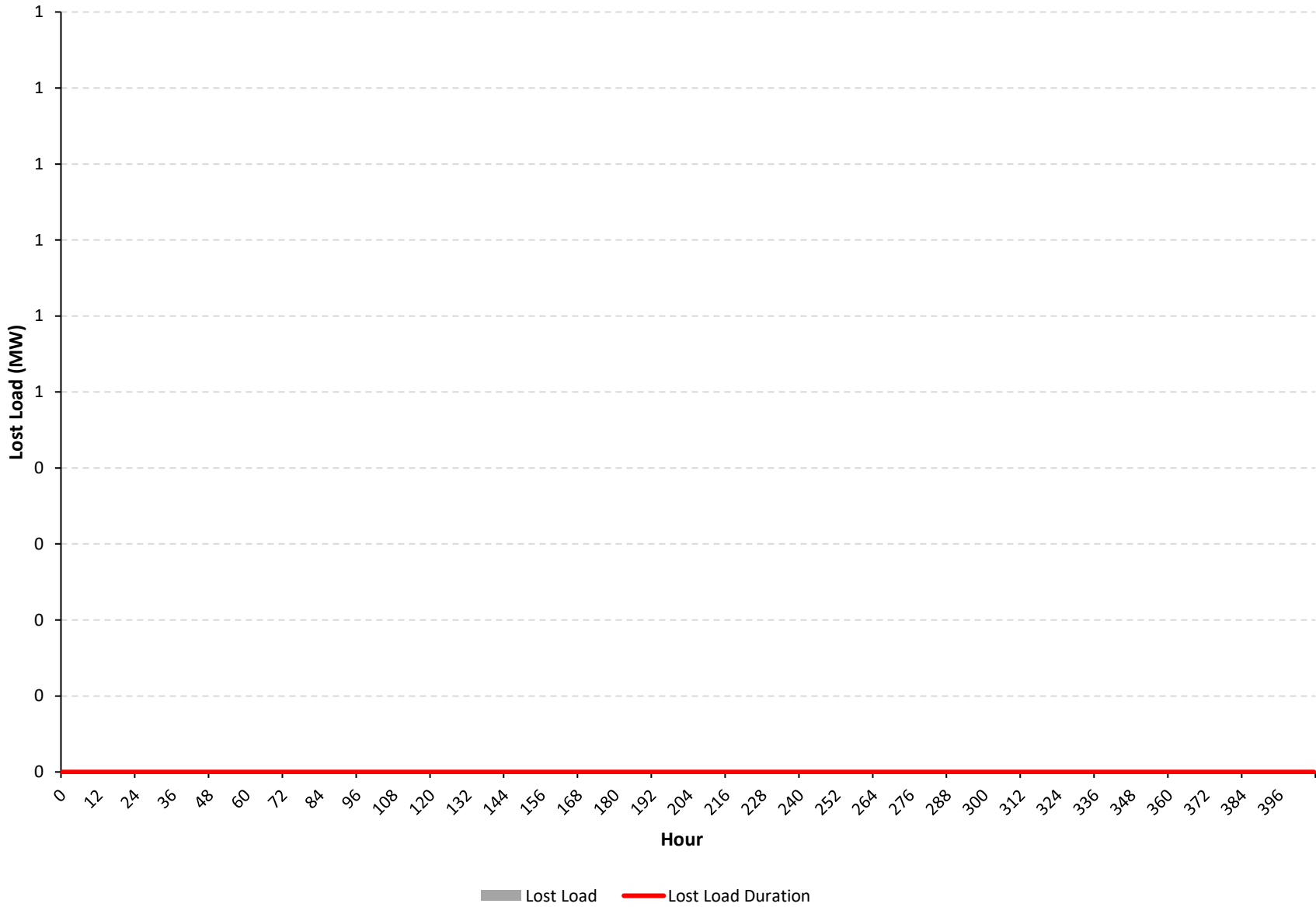
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 2 High Outage

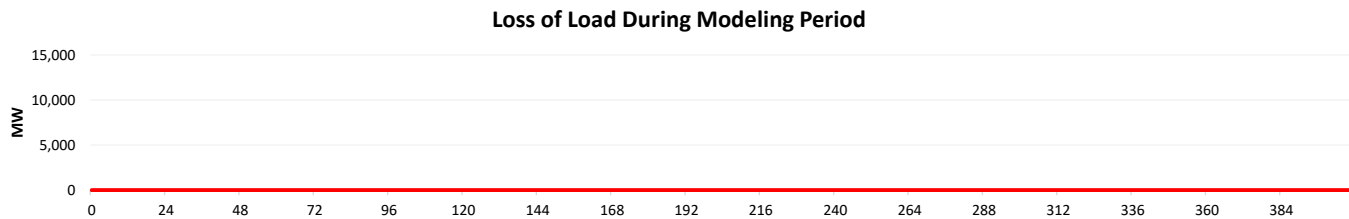
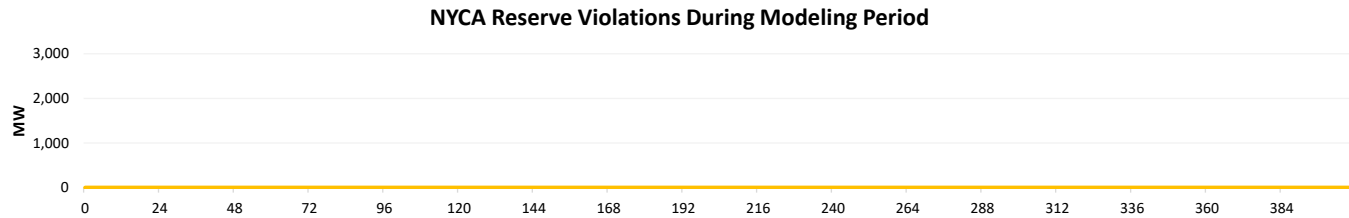
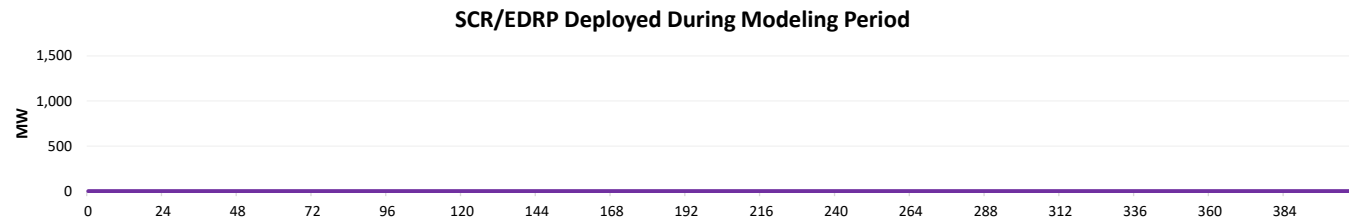
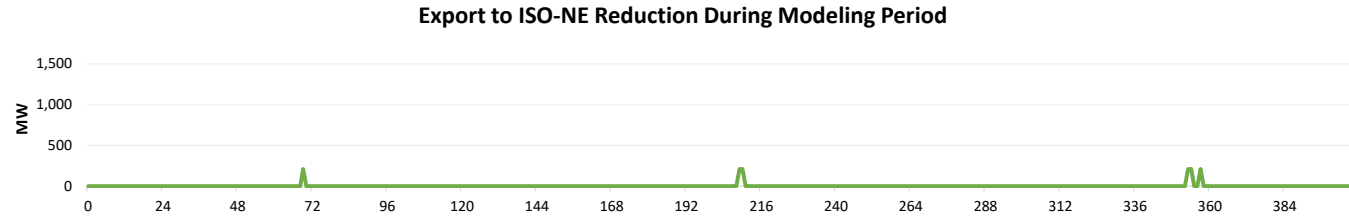
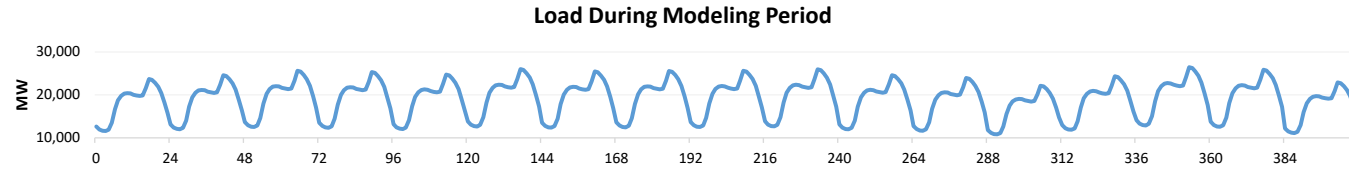


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 2 - PD 3 SENY Deactivation



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	6
Total MWh	1,260
Avg. MW	3.1

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

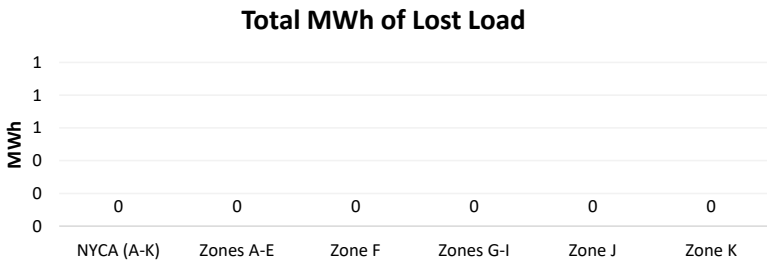
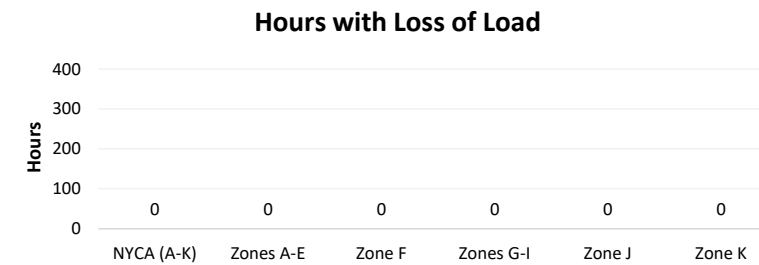
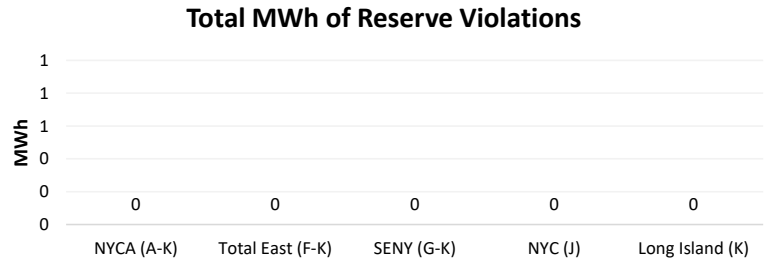
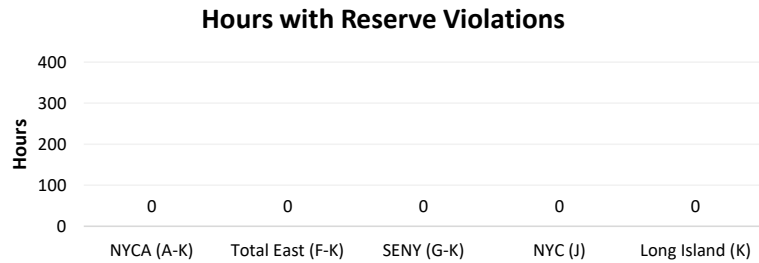
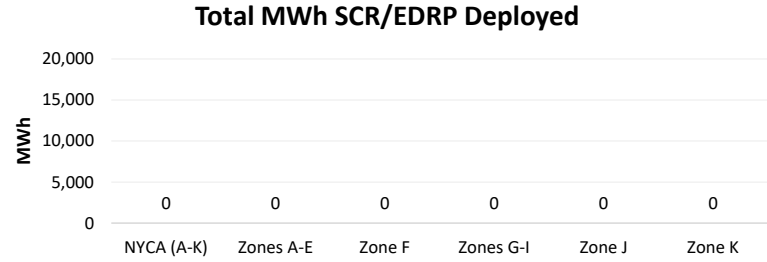
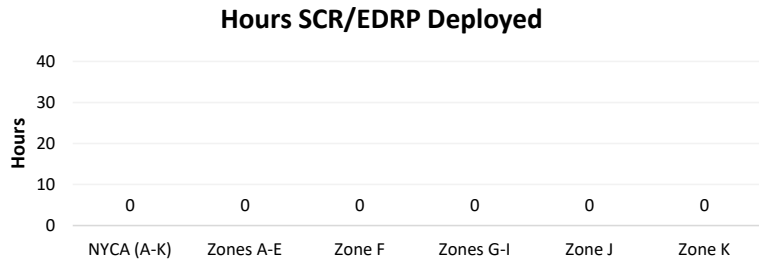
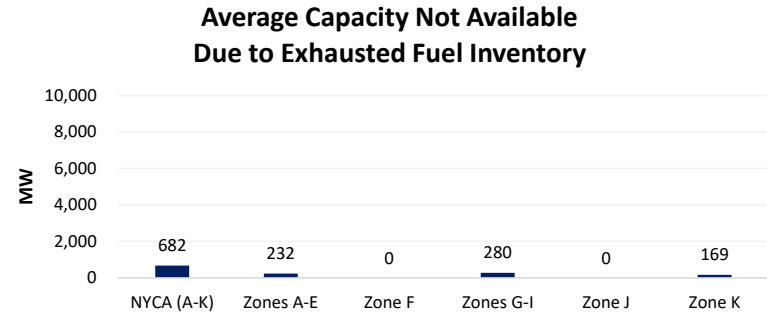
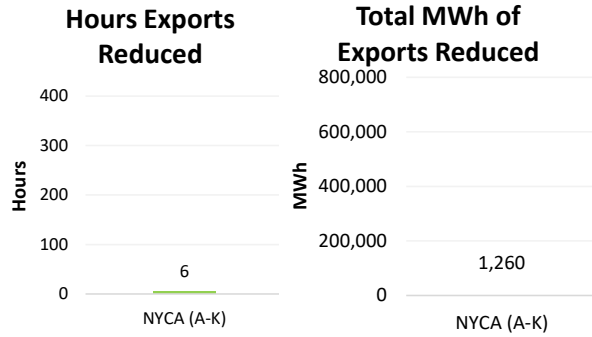
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

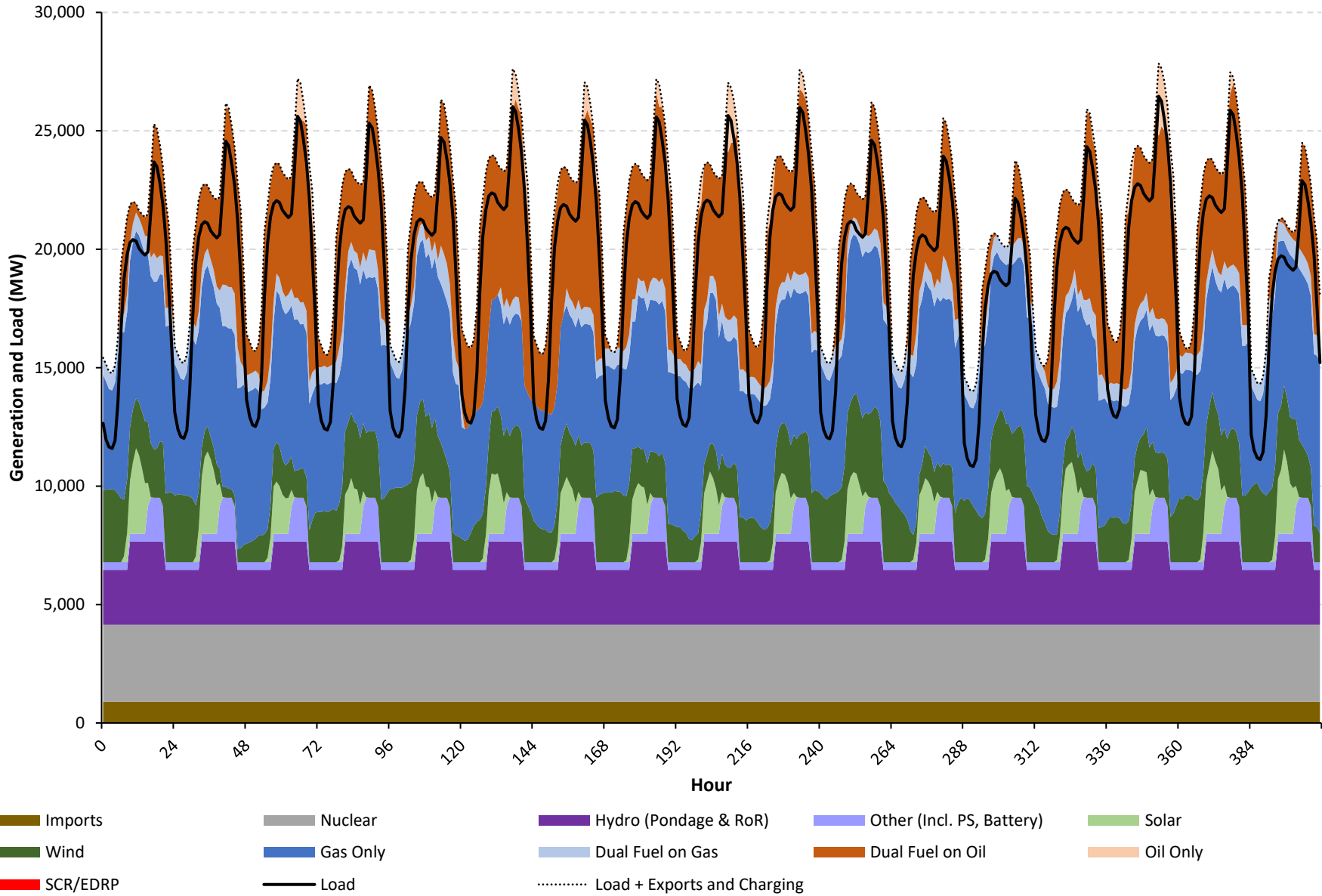
Full Period Results Summary

Case Name: Scenario 2 - PD 3 SENY Deactivation

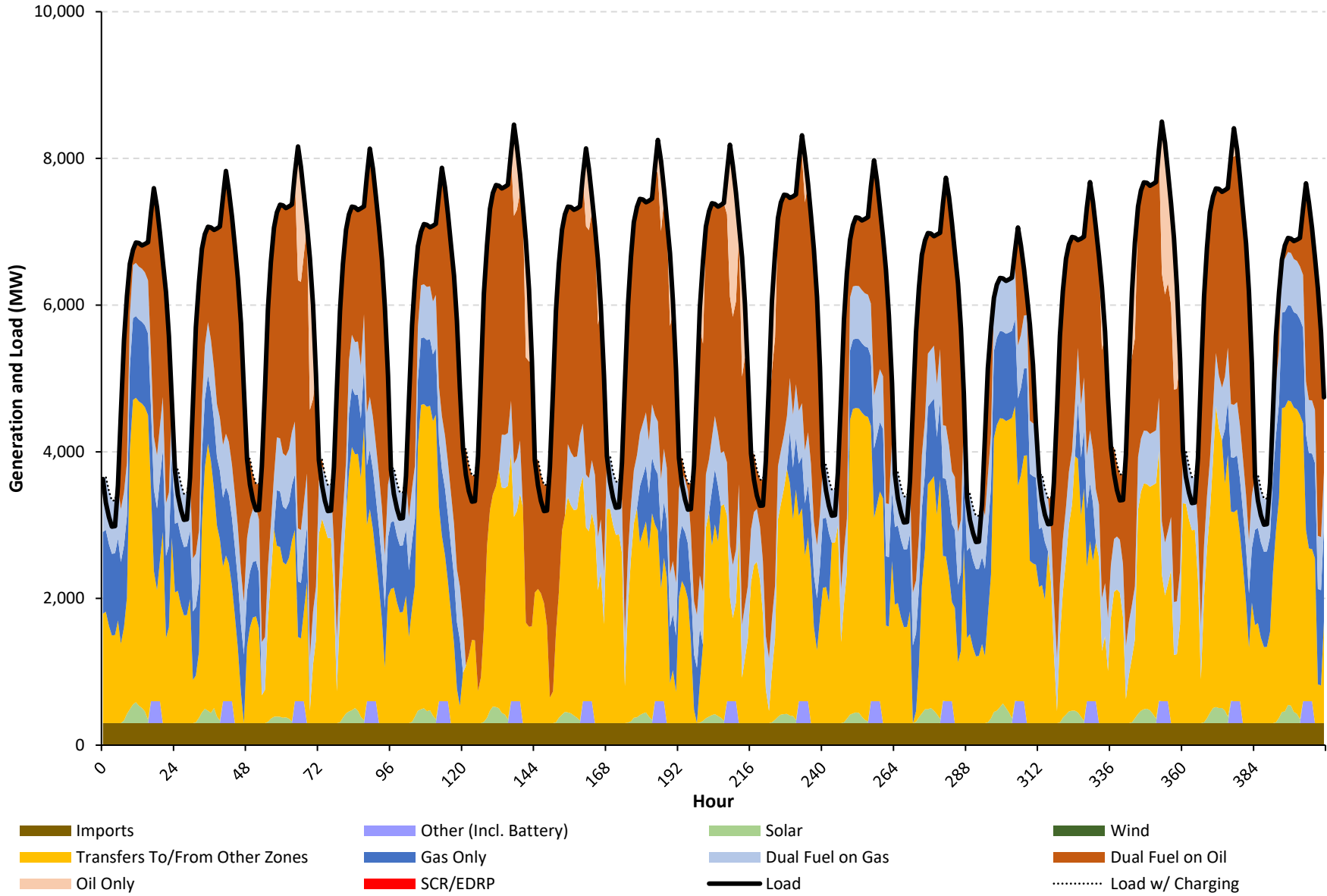
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



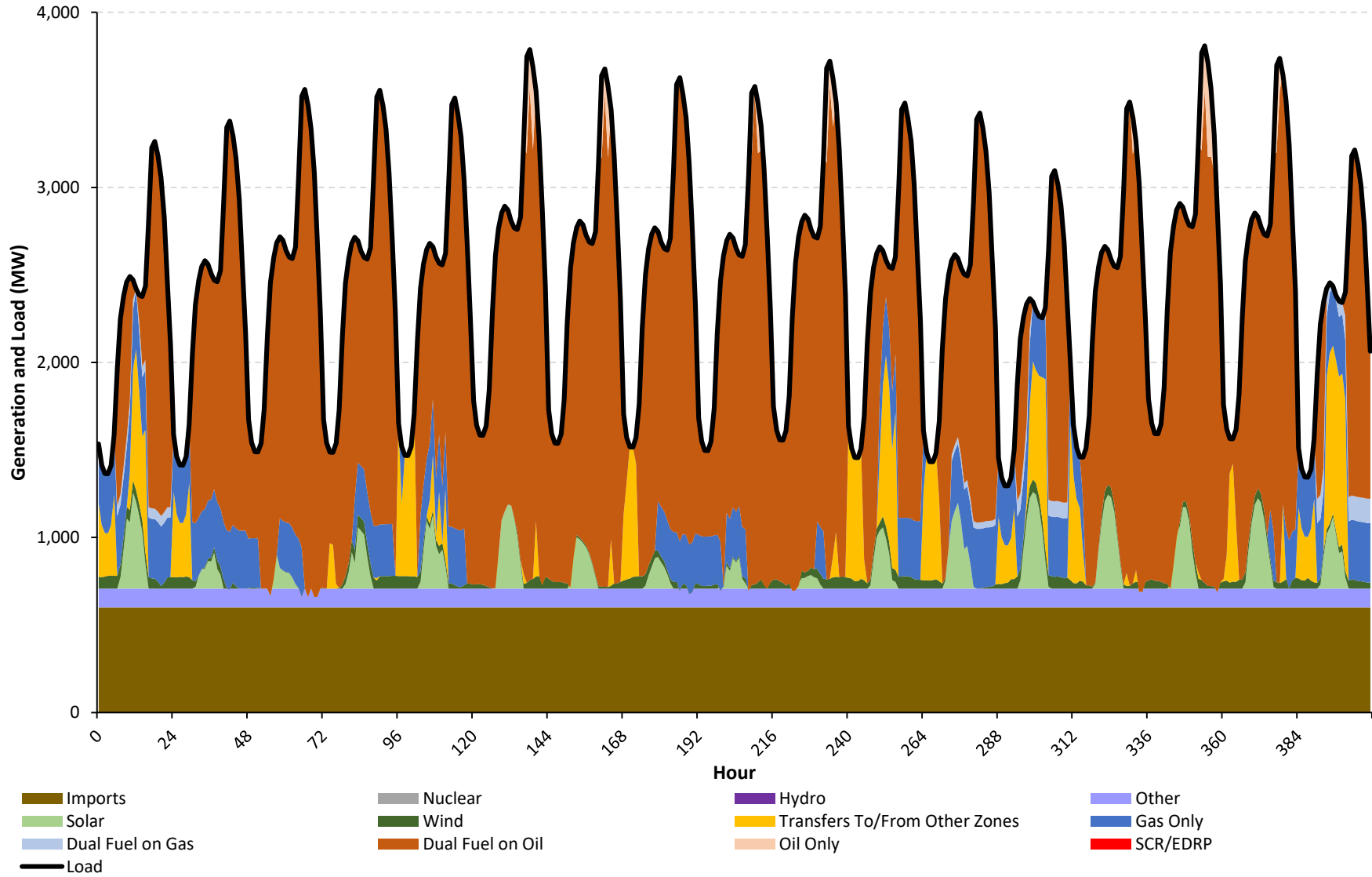
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 3 SENY Deactivation



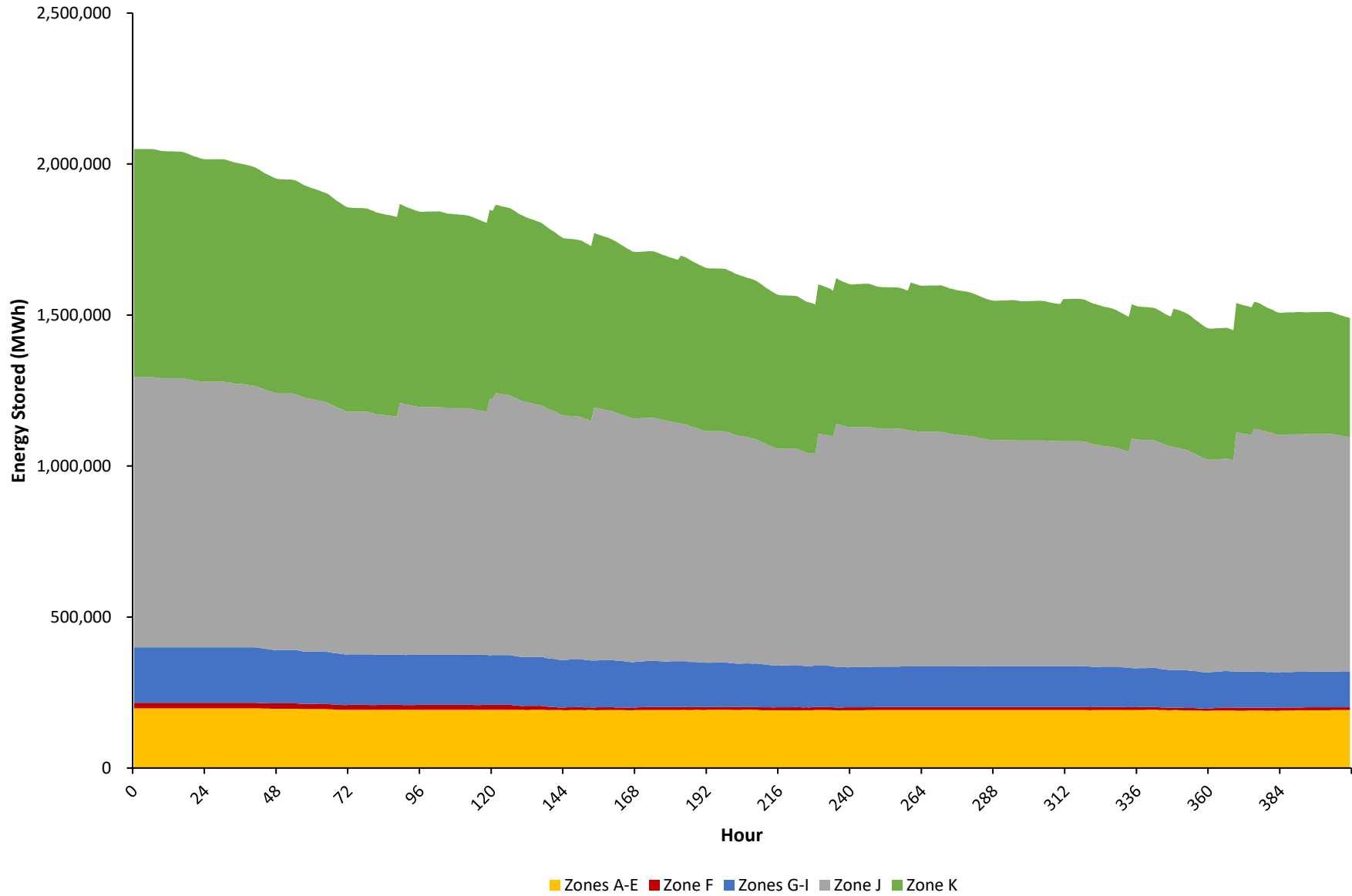
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 3 SENY Deactivation

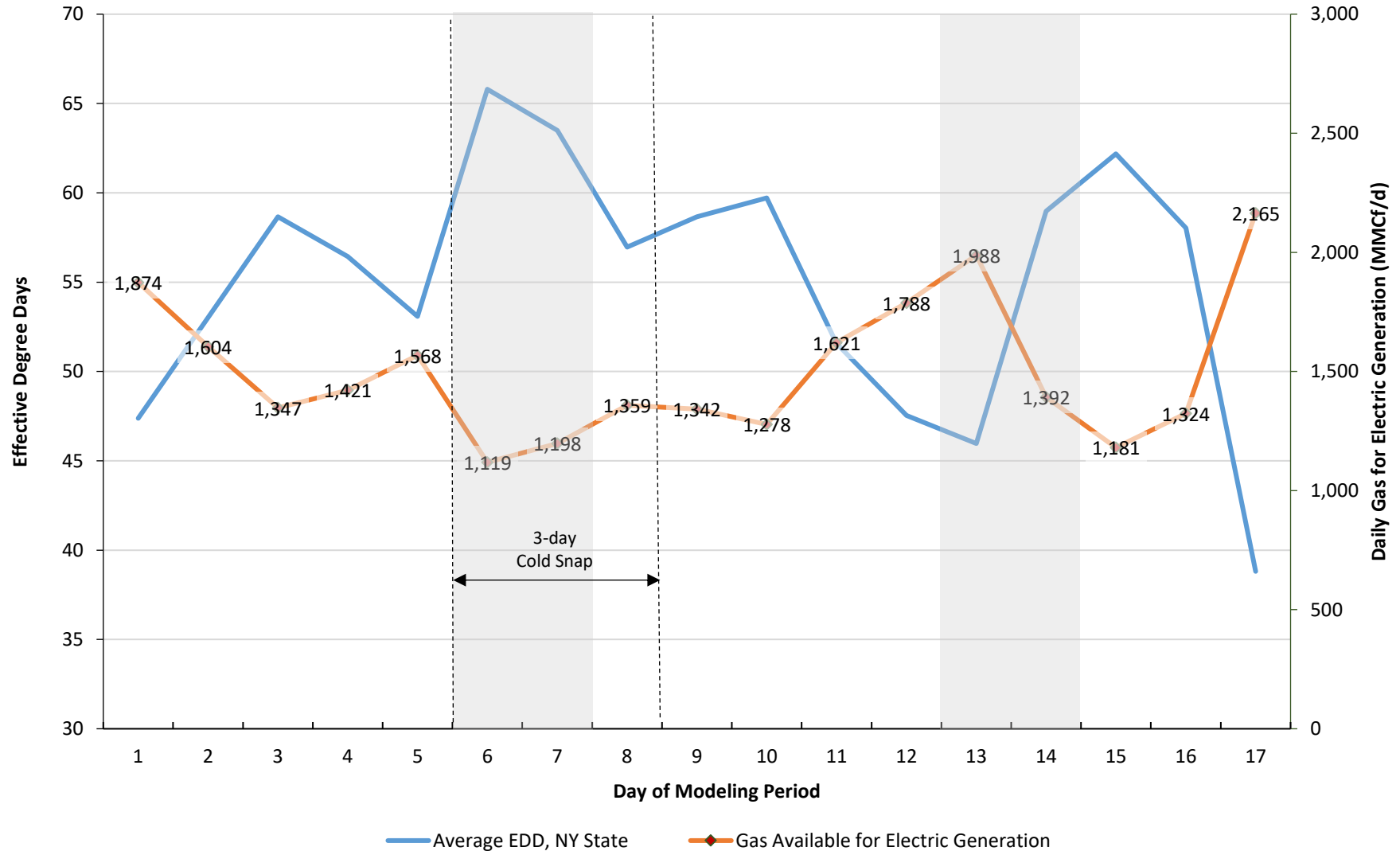


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

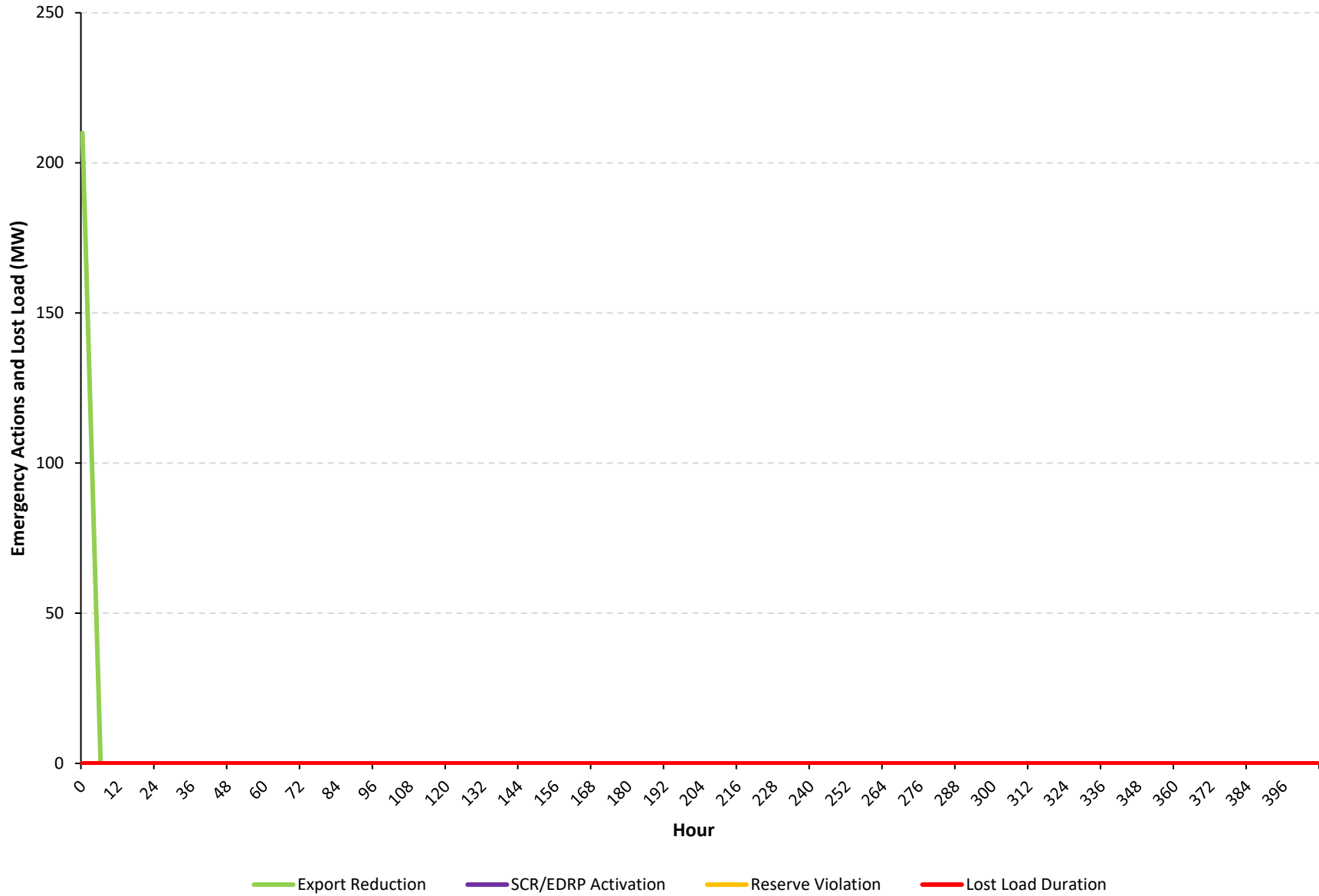
Scenario 2 - PD 3 SENY Deactivation

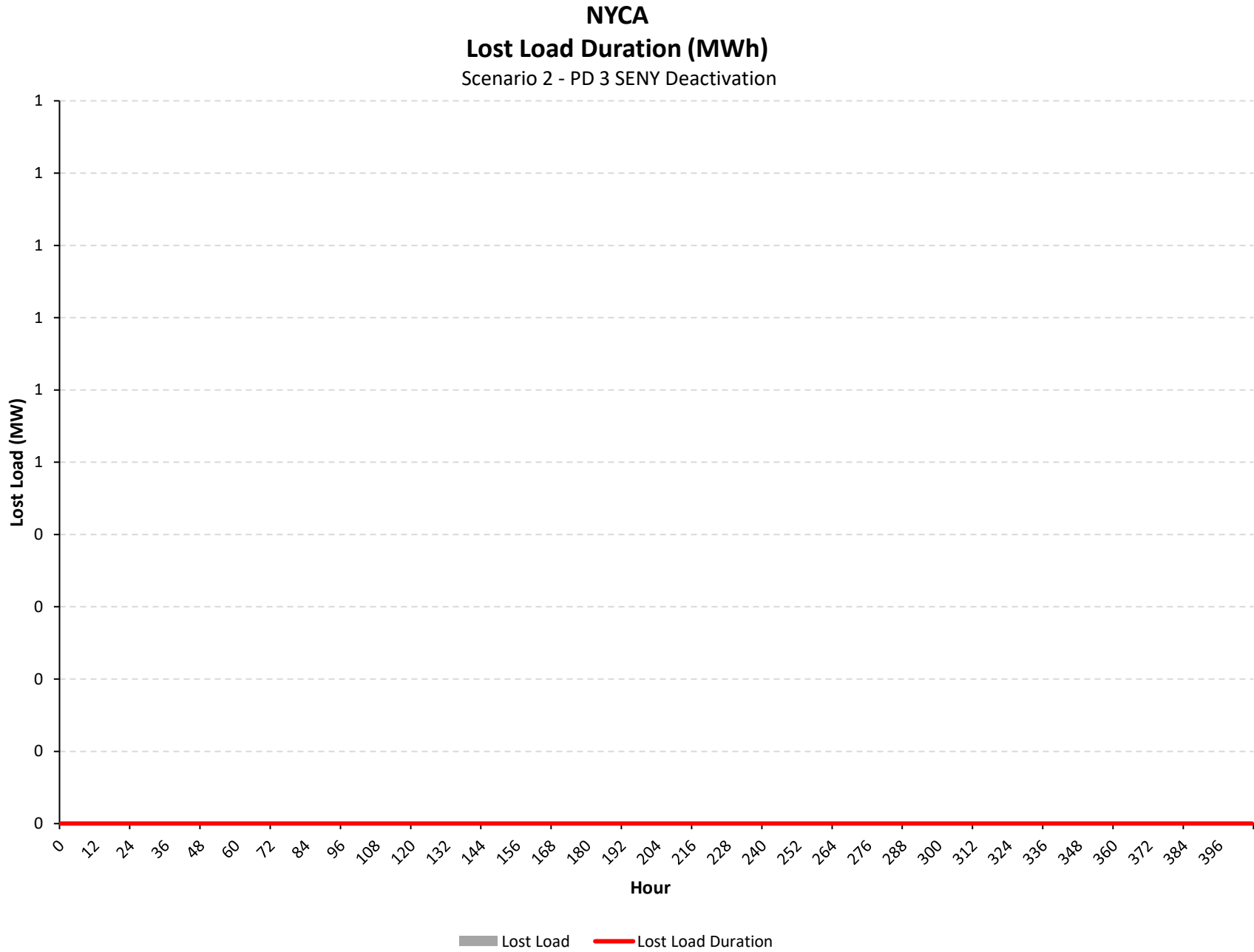


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 3 SENY Deactivation



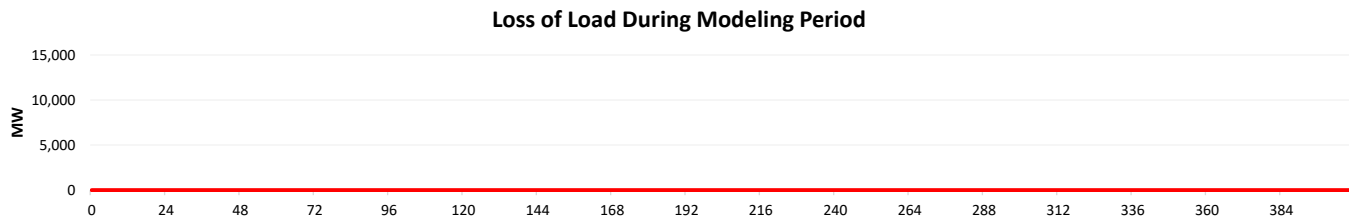
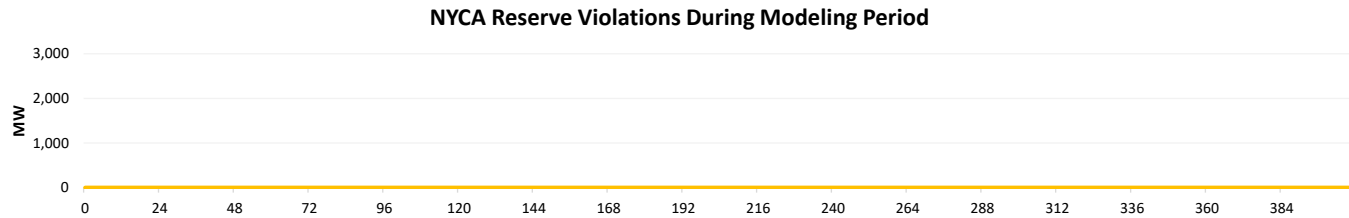
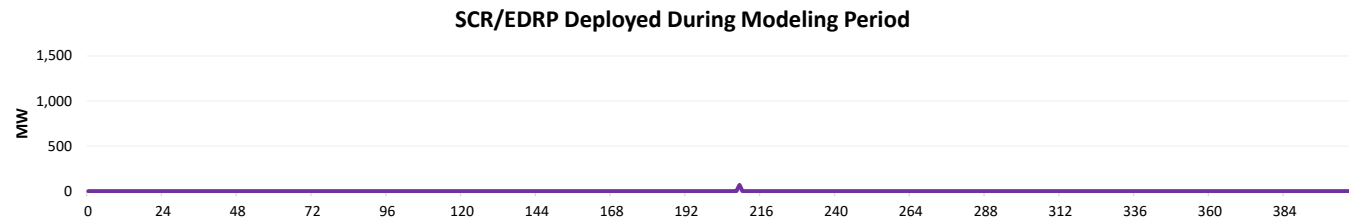
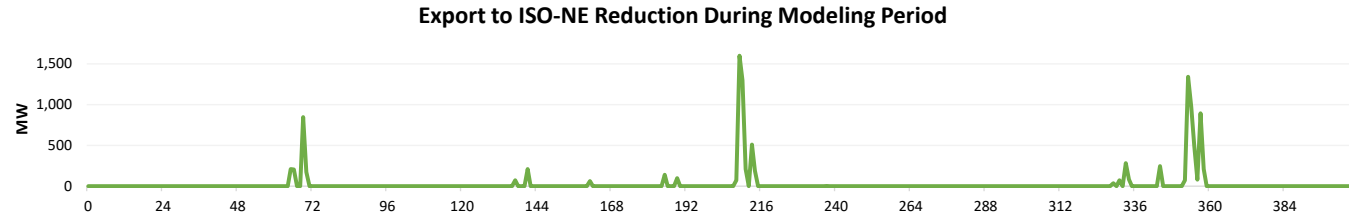
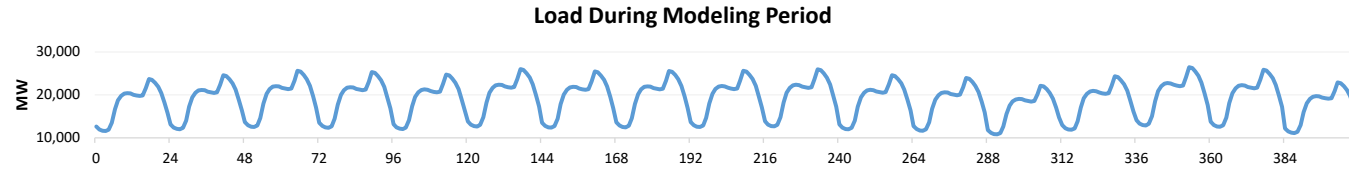


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 2 - PD 4 Nuclear Outage



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	28
Total MWh	10,689
Avg. MW	26.2

SCR Deployment	
Total Hrs.	1
Total MWh	69
Avg. MW	0.2

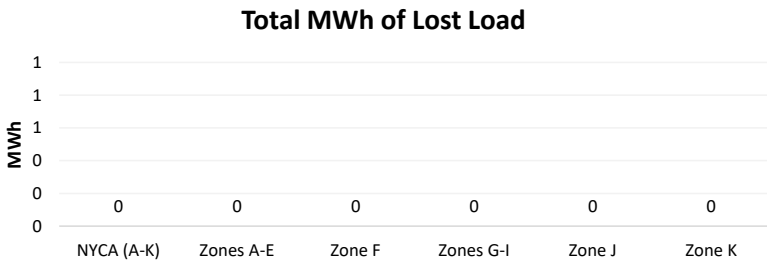
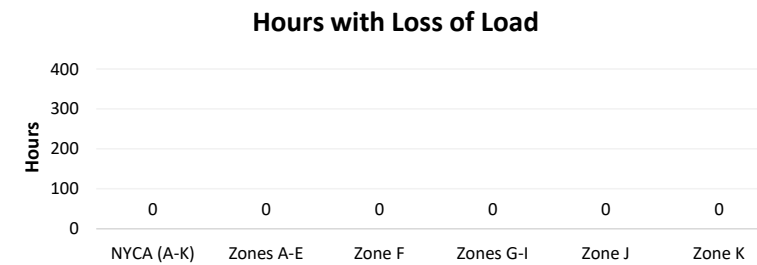
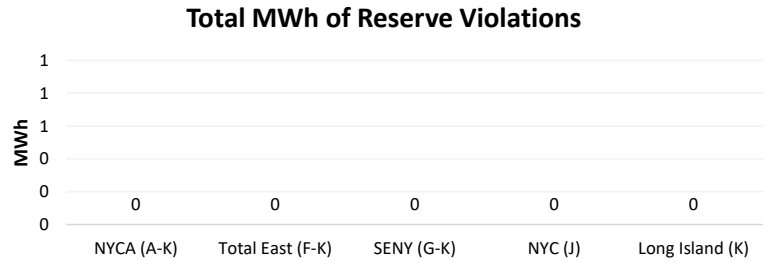
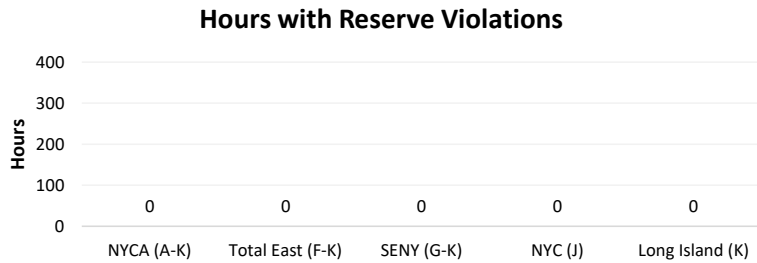
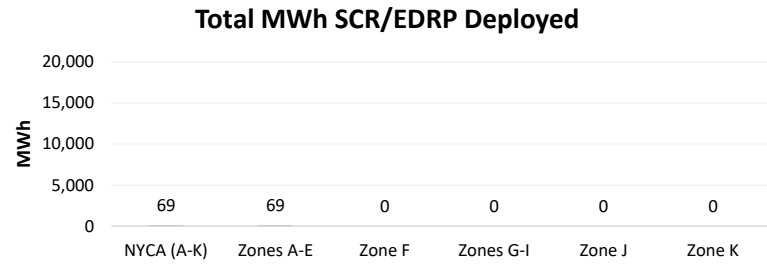
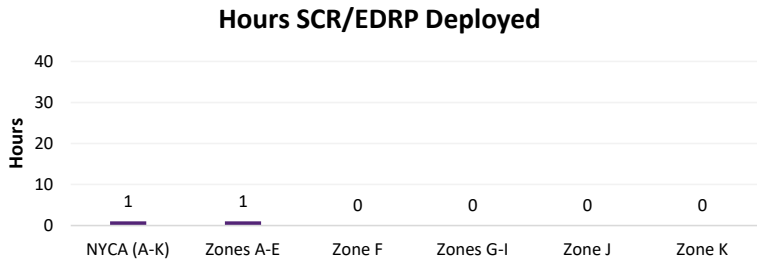
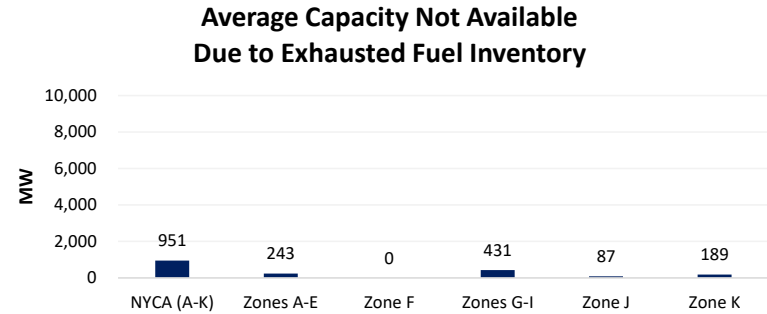
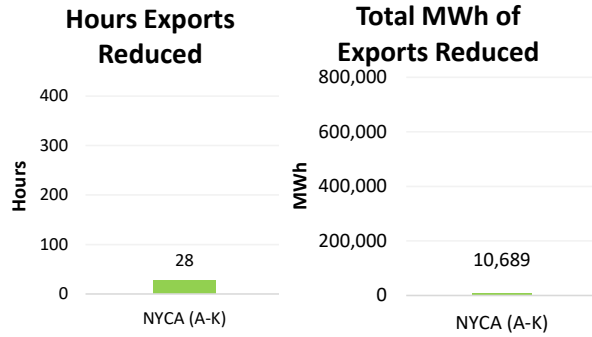
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

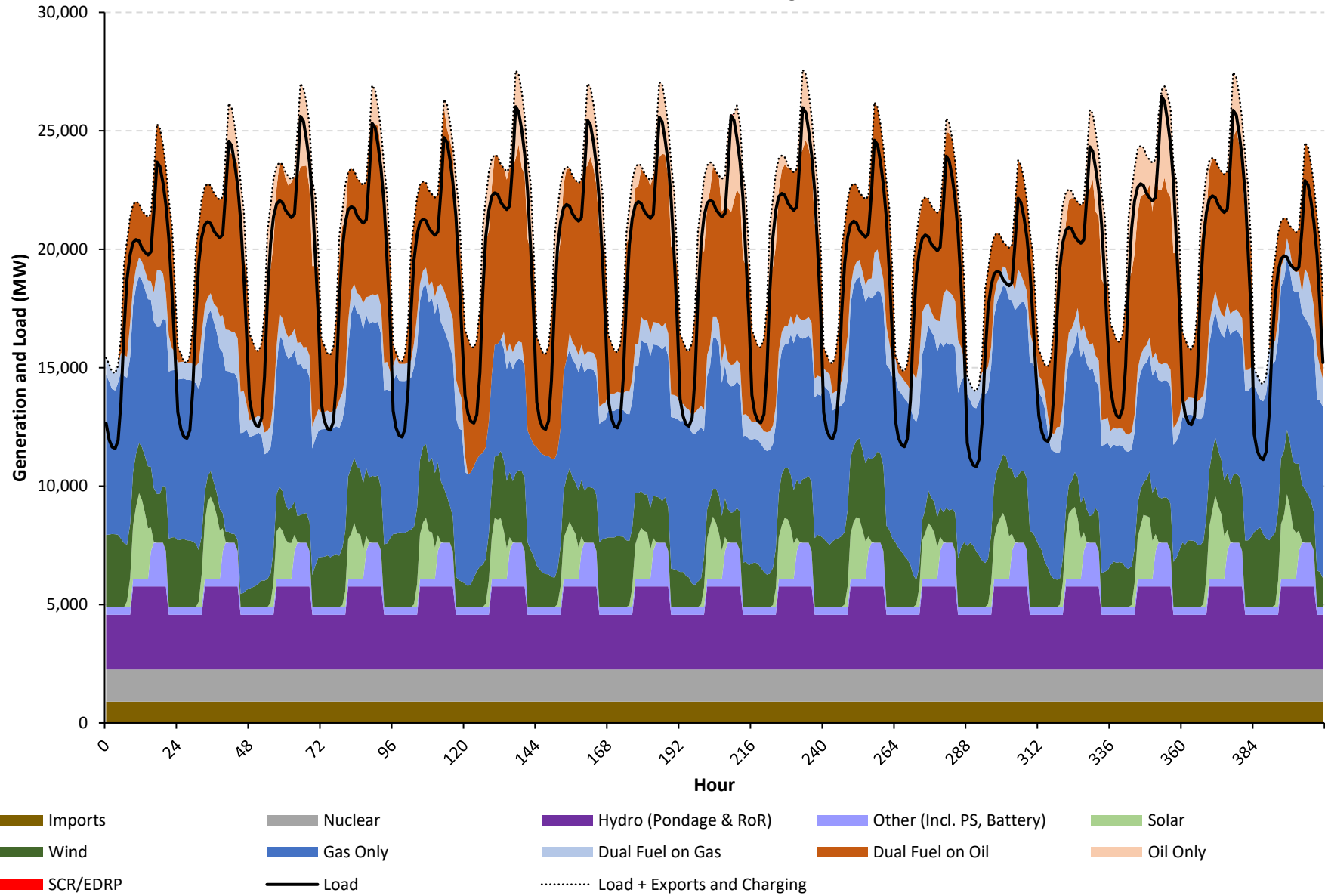
Full Period Results Summary

Case Name: Scenario 2 - PD 4 Nuclear Outage

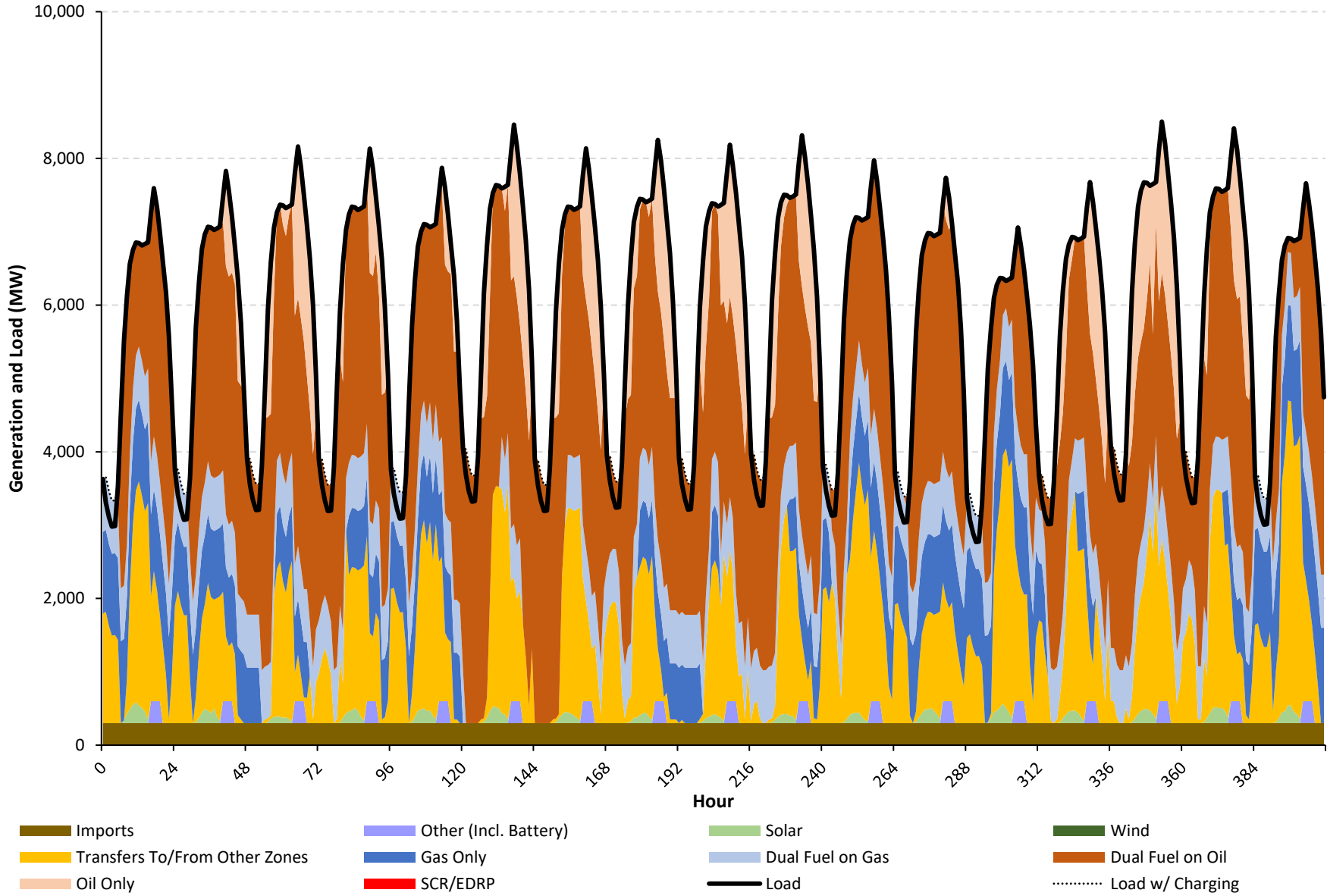
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW



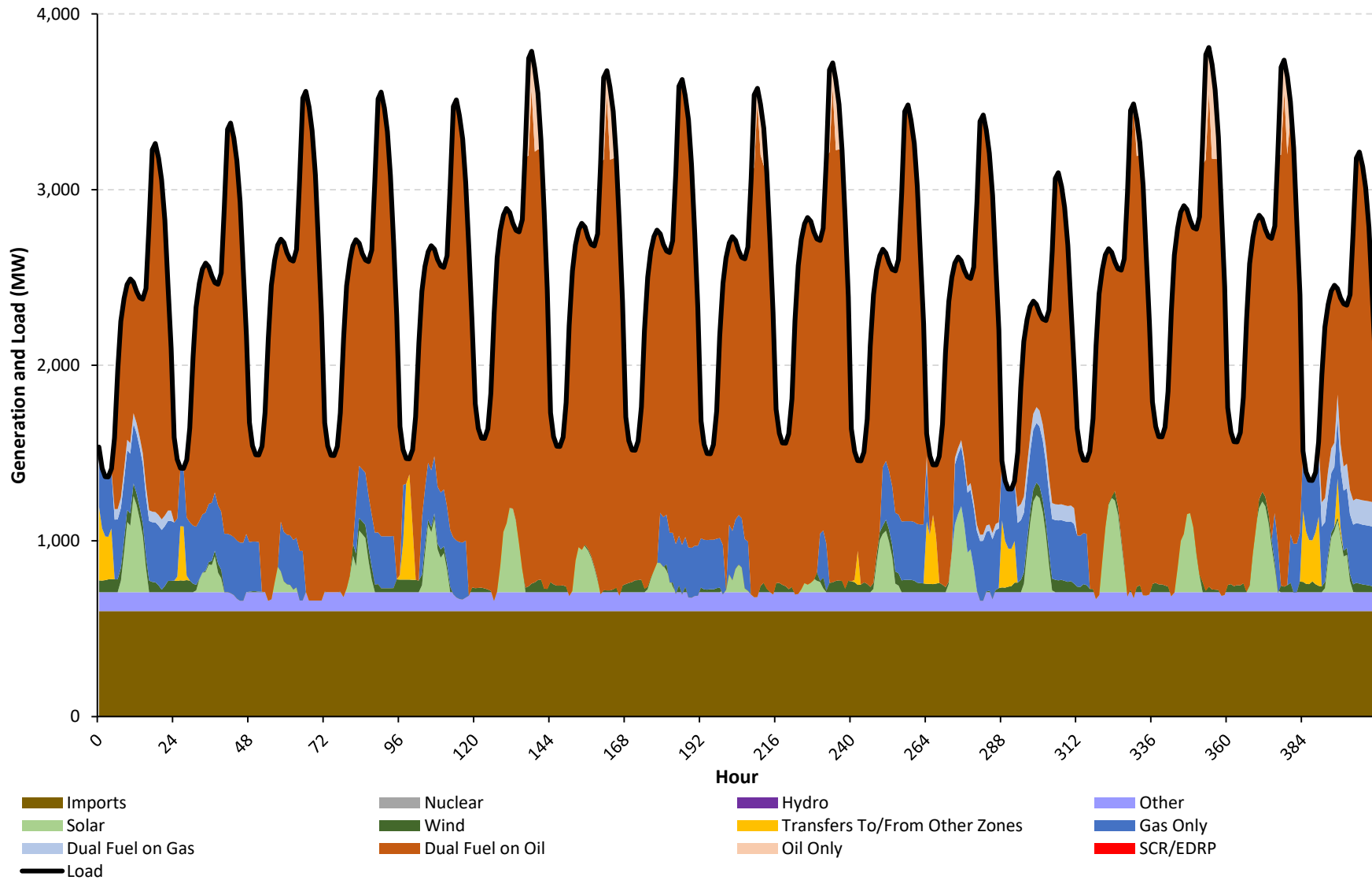
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 4 Nuclear Outage



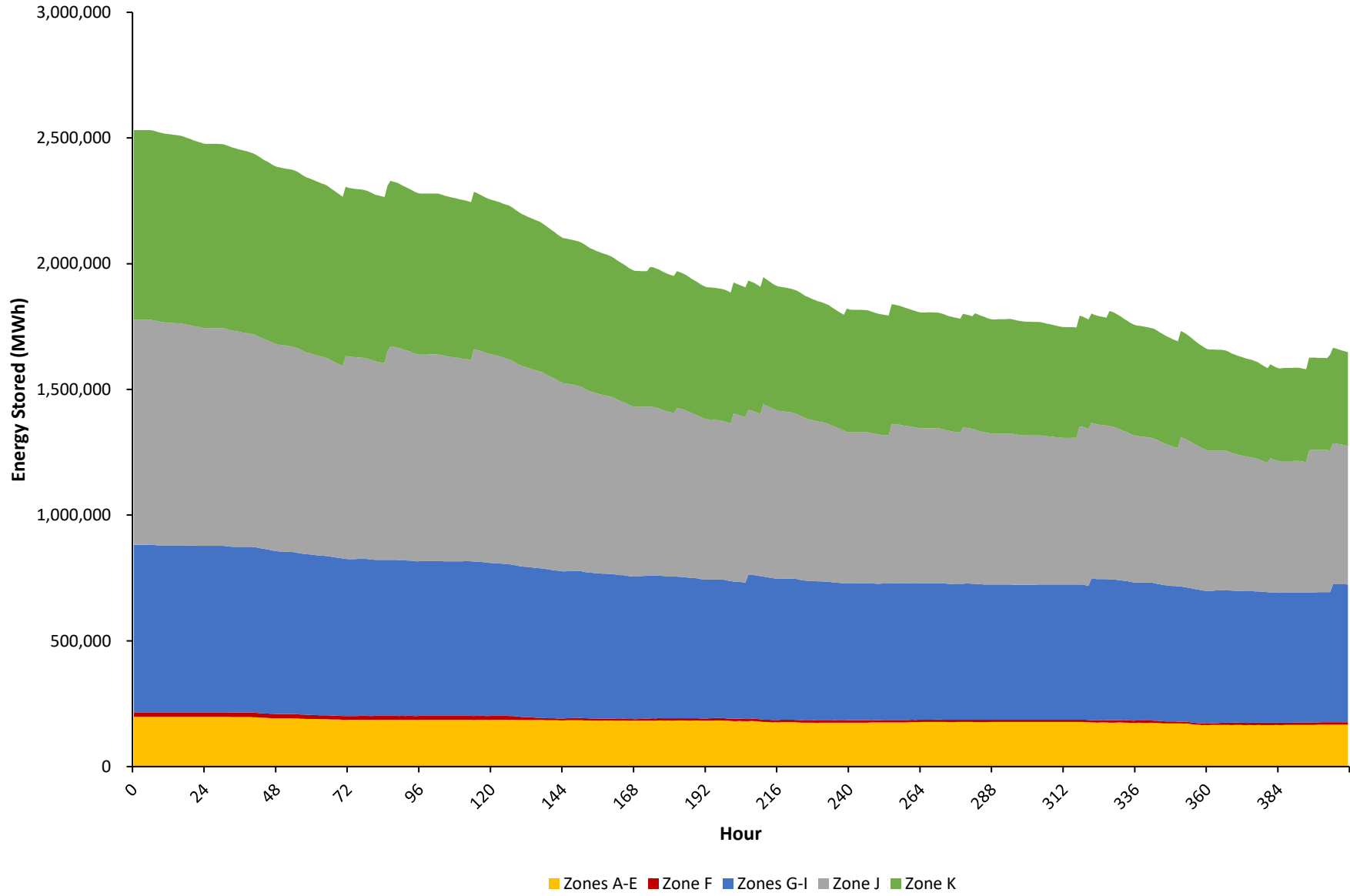
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 4 Nuclear Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 4 Nuclear Outage

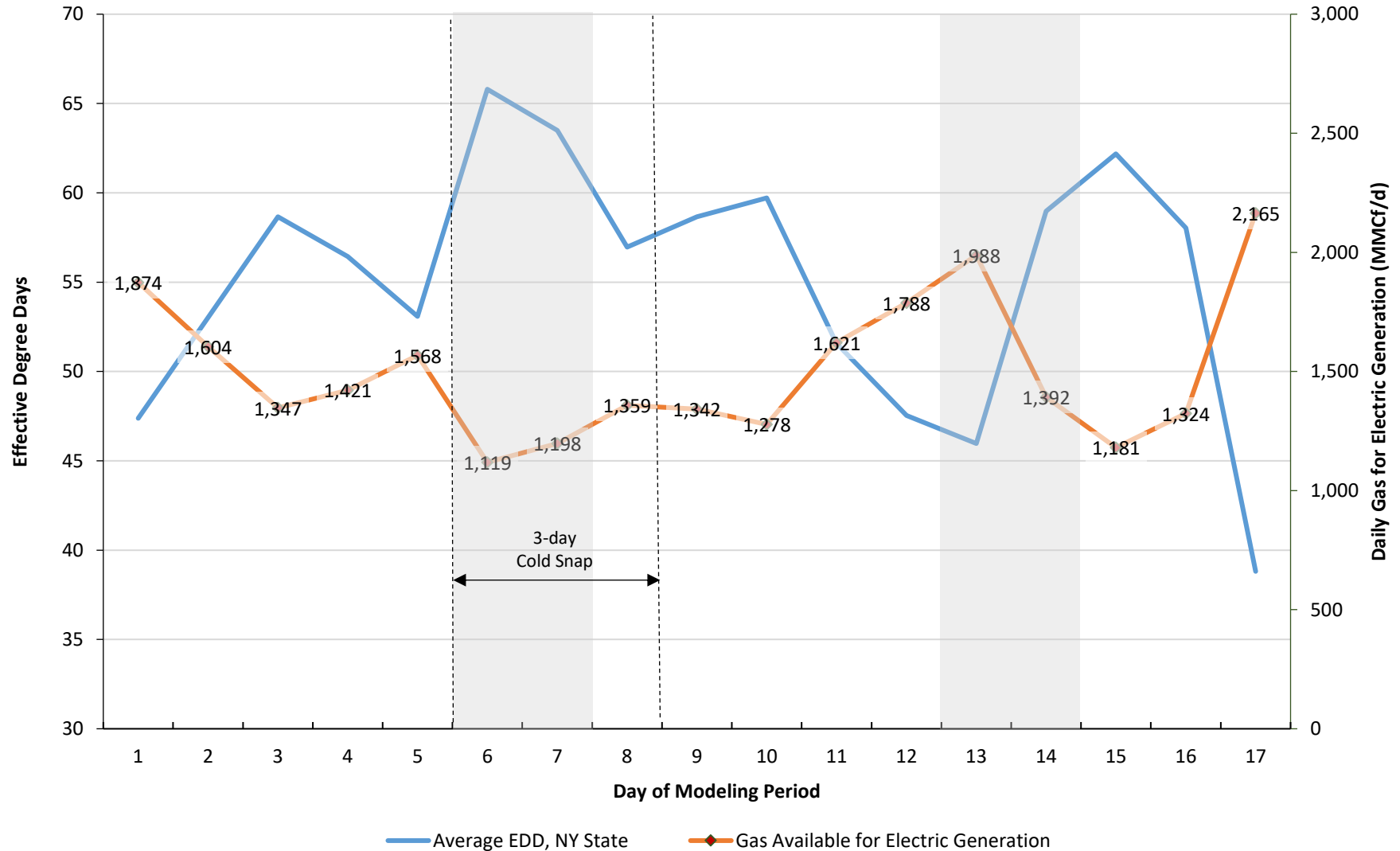


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 4 Nuclear Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

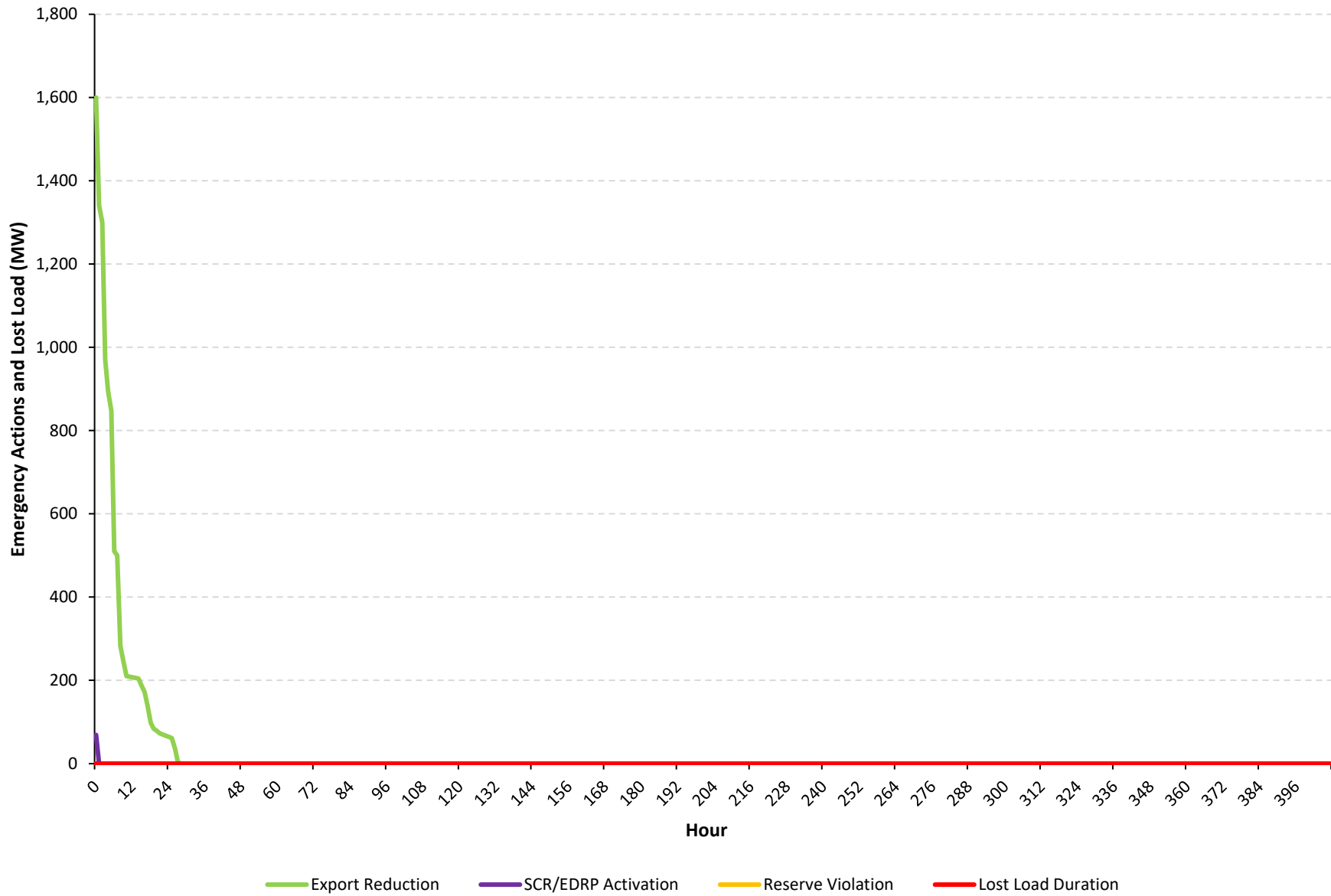
Scenario 2 - PD 4 Nuclear Outage



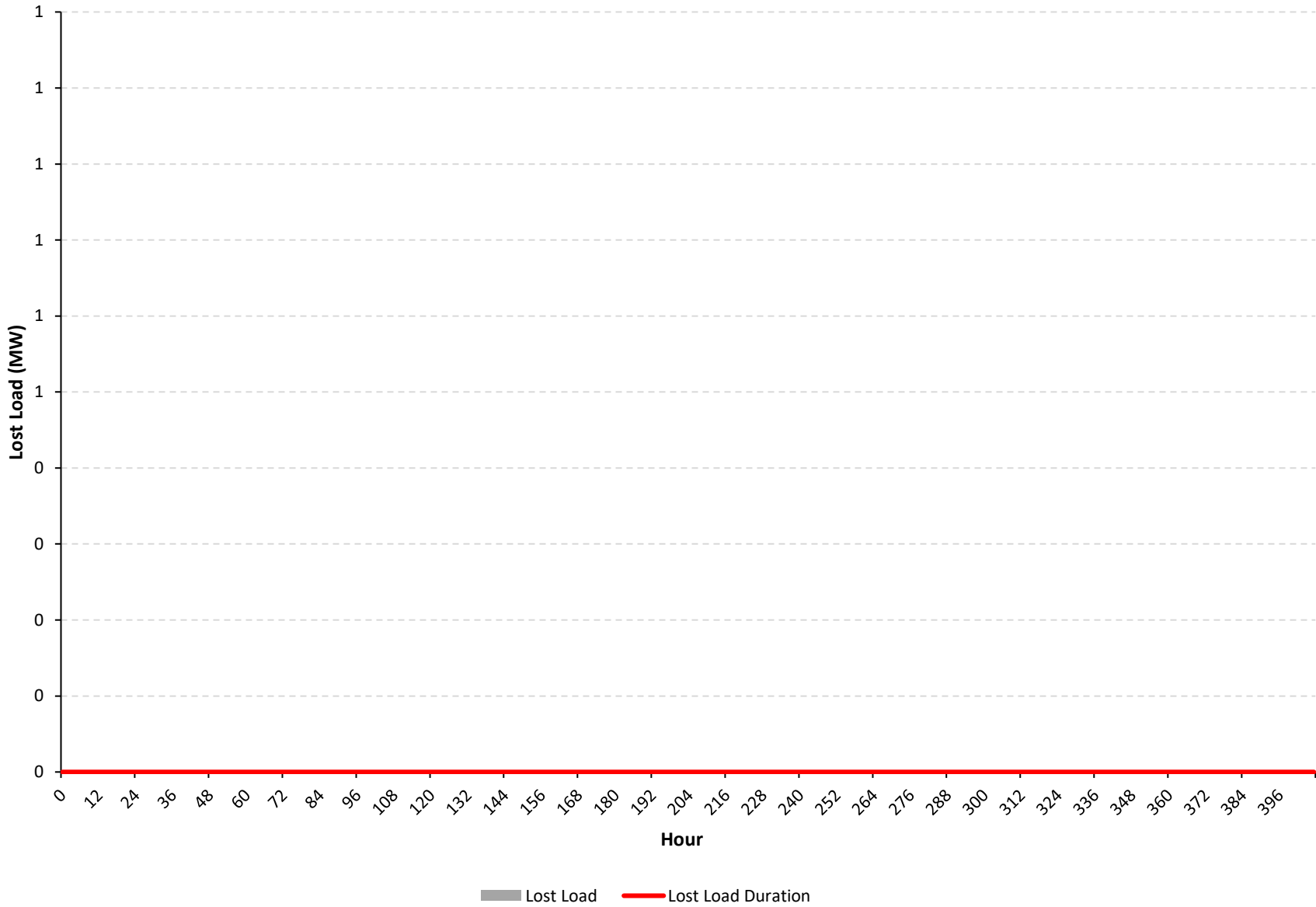
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 4 Nuclear Outage



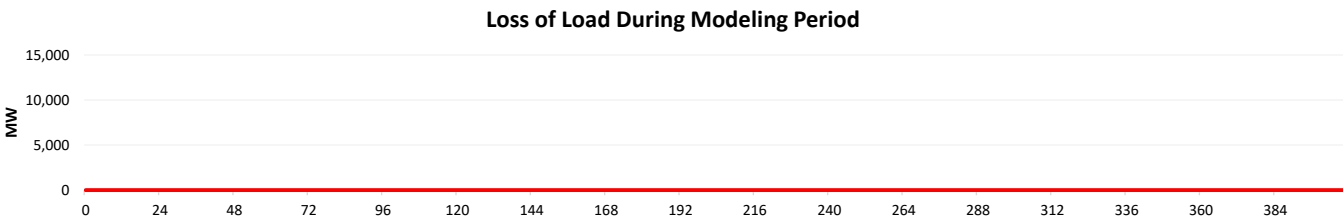
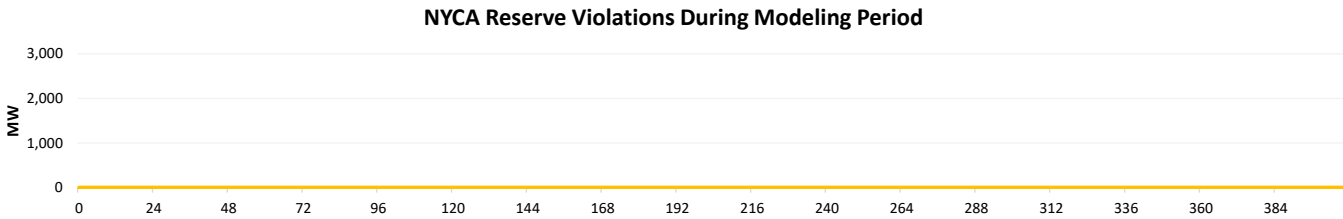
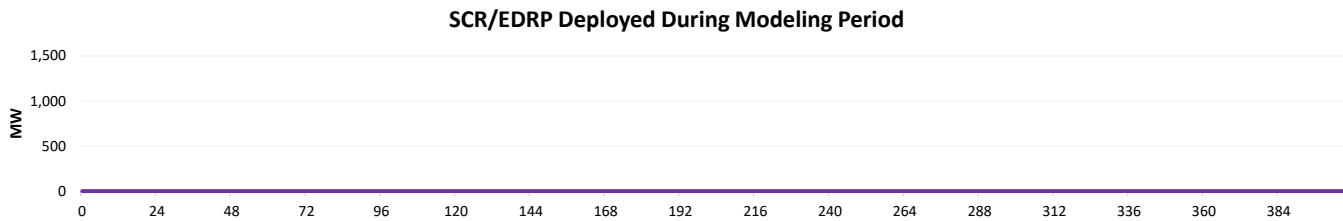
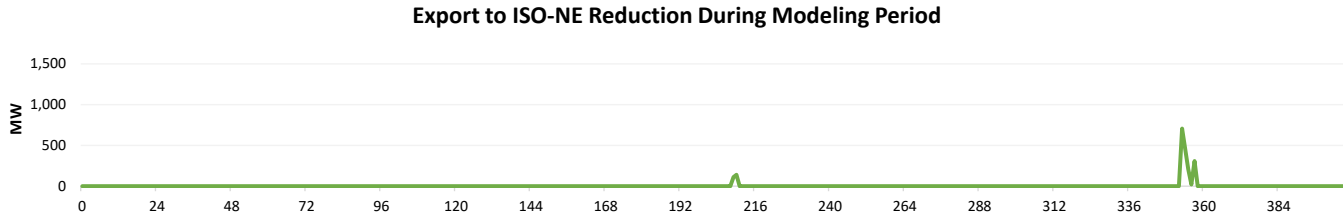
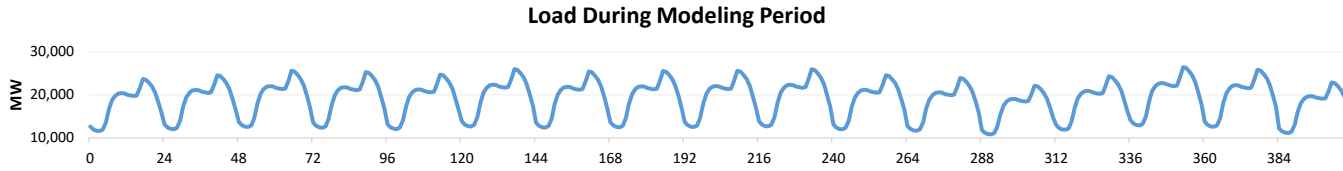
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 2 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	7
Total MWh	1,949
Avg. MW	4.8

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

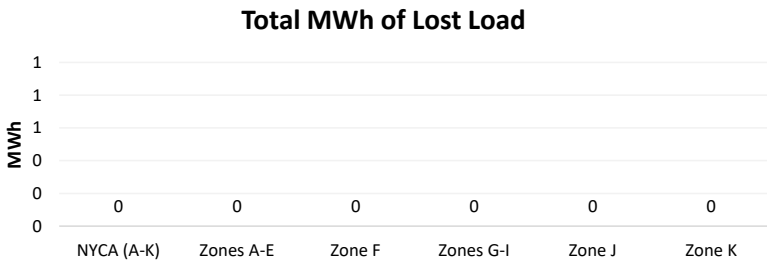
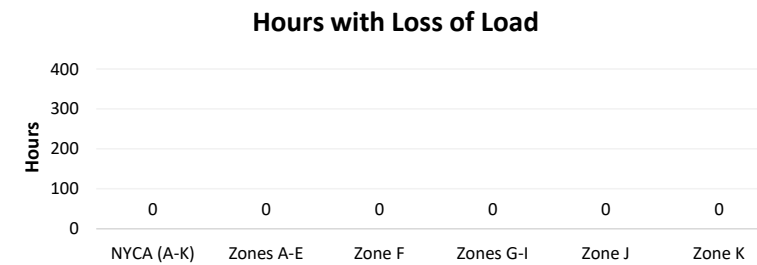
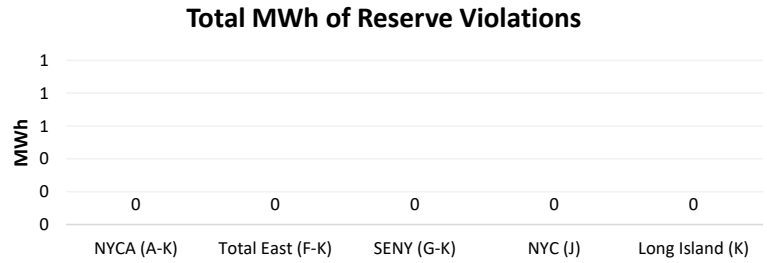
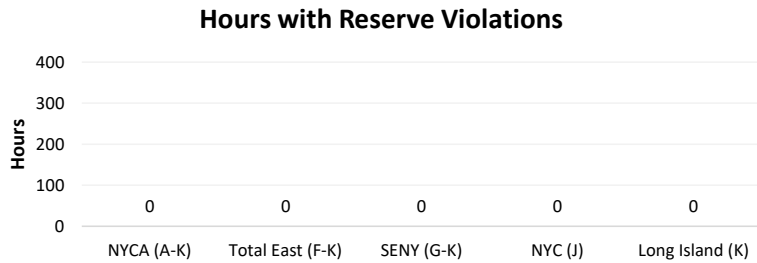
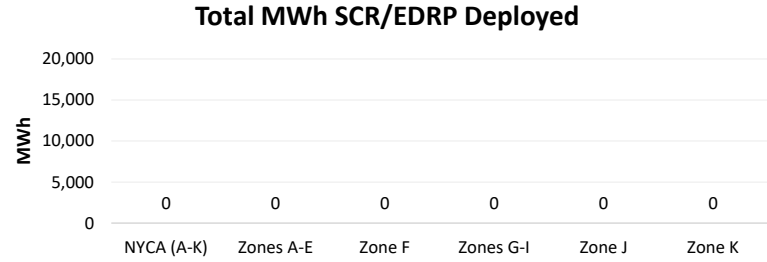
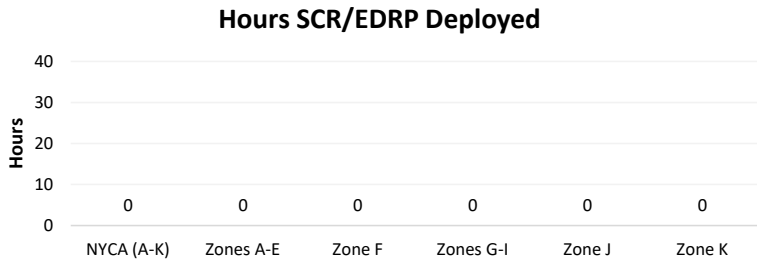
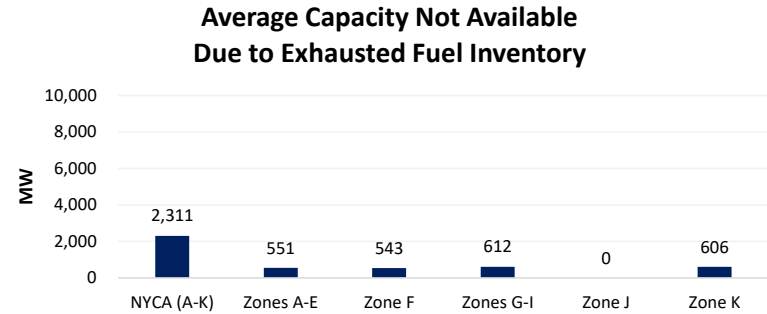
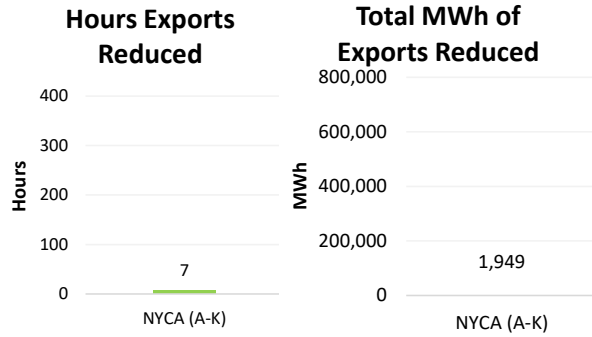
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

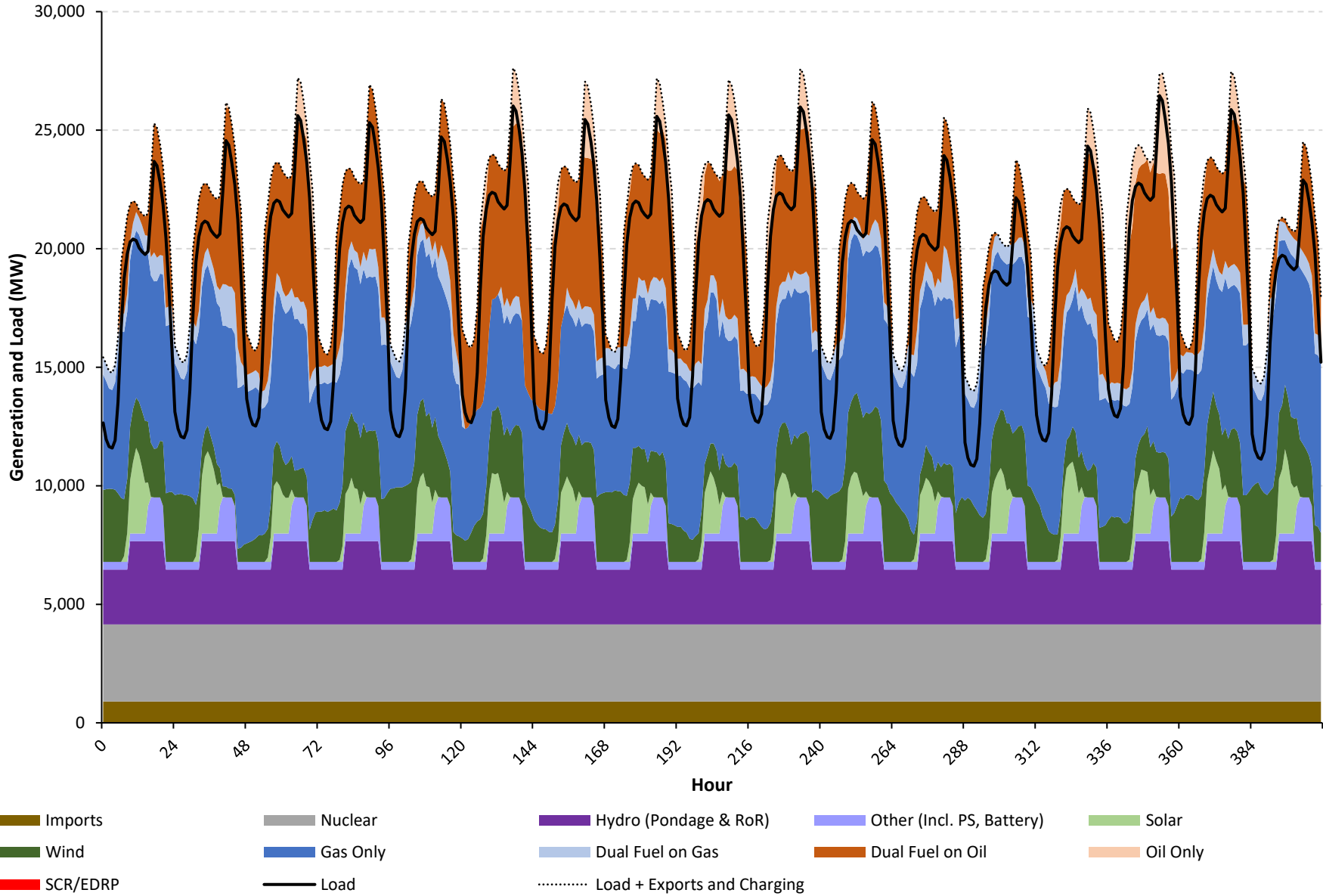
Full Period Results Summary

Case Name: Scenario 2 - PD 5 No Truck Refill

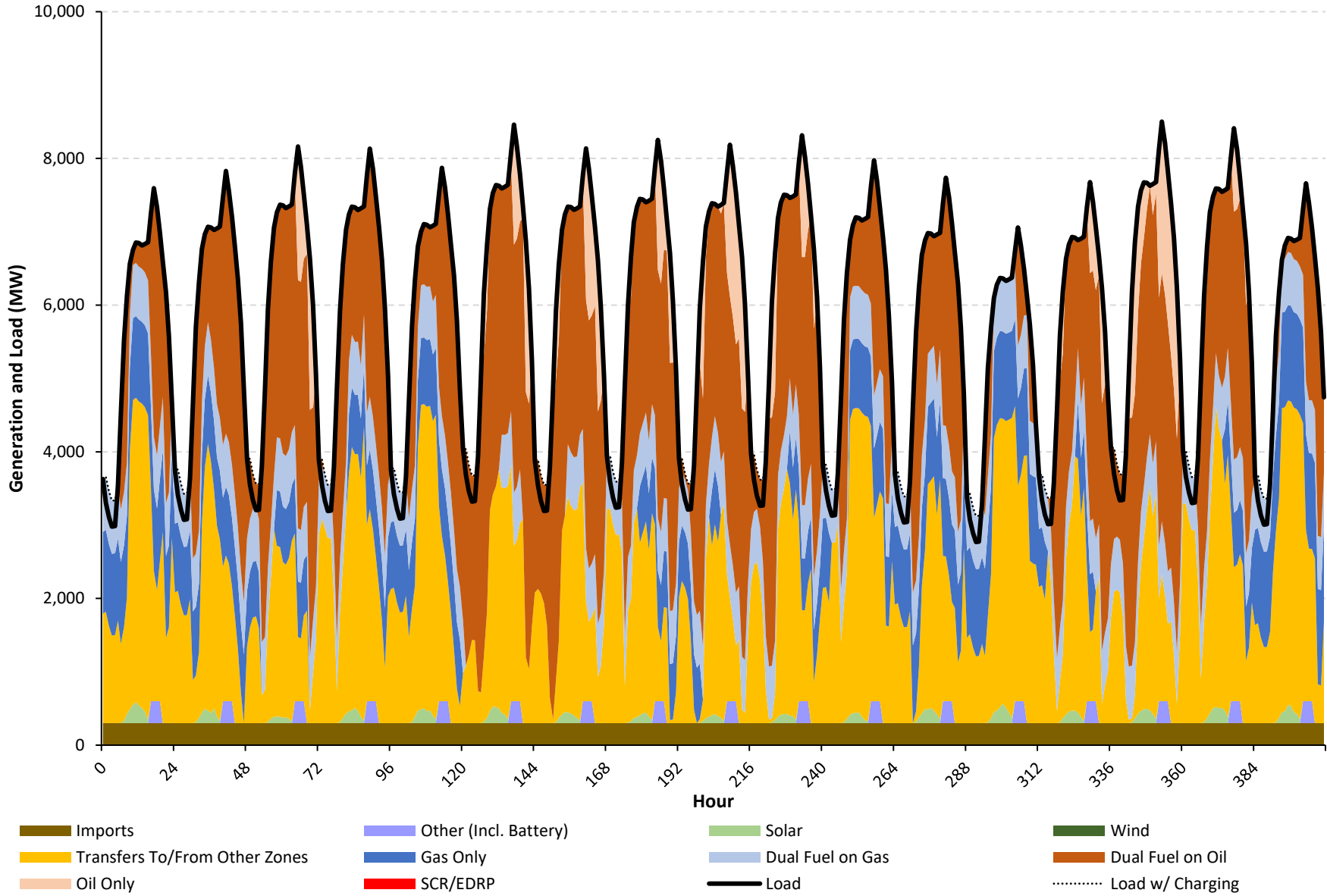
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



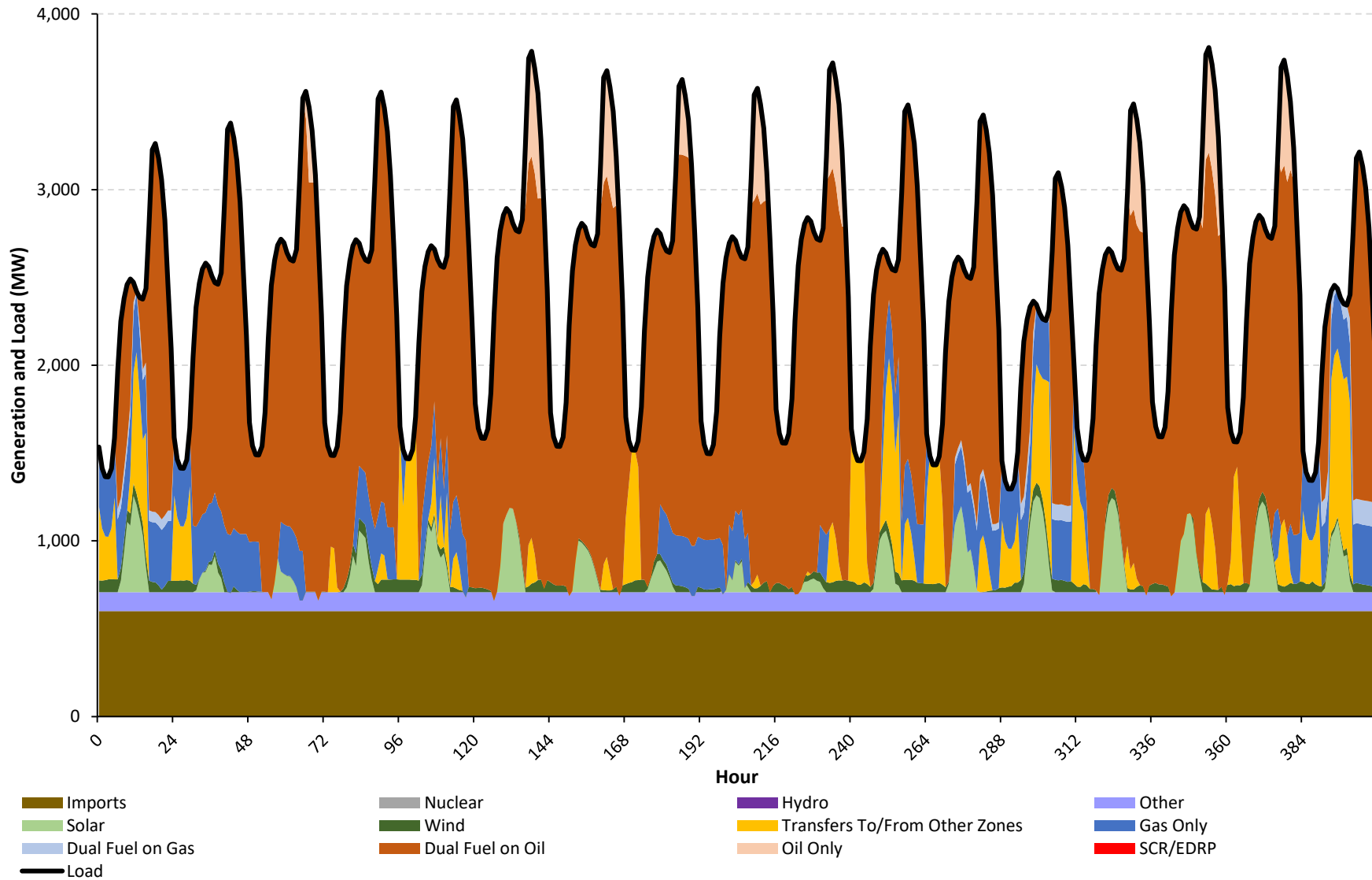
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 5 No Truck Refill



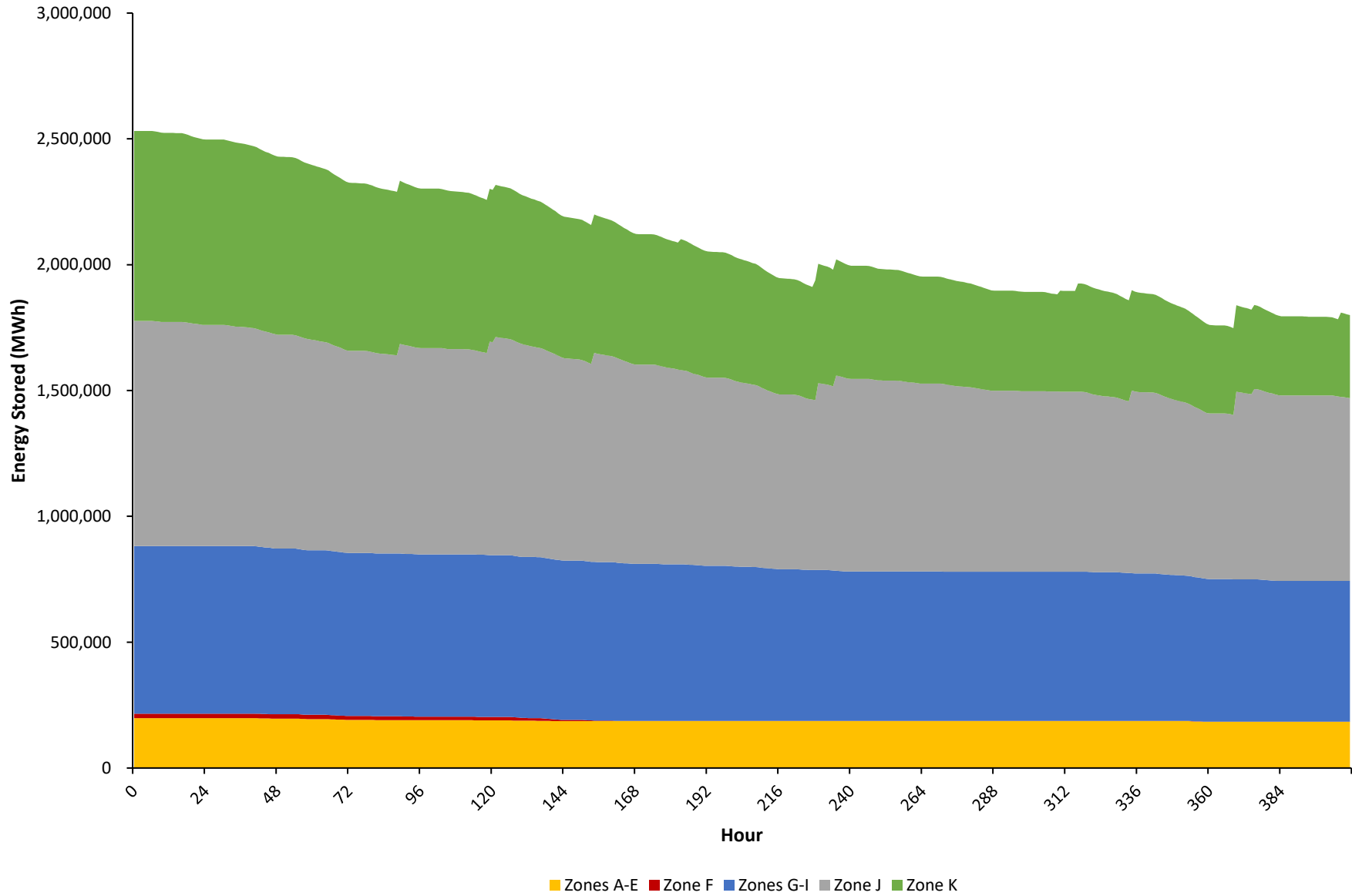
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 5 No Truck Refill

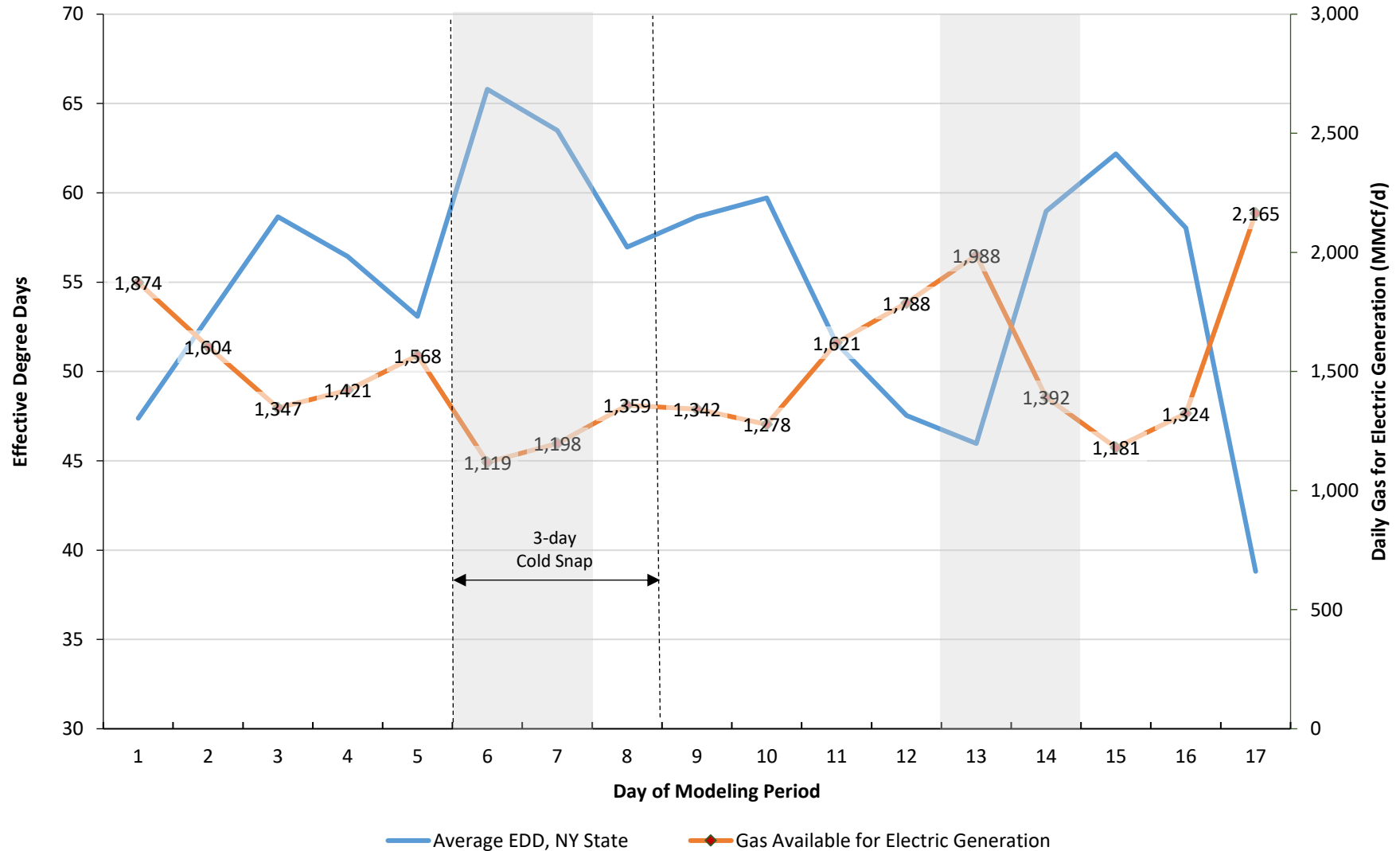


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

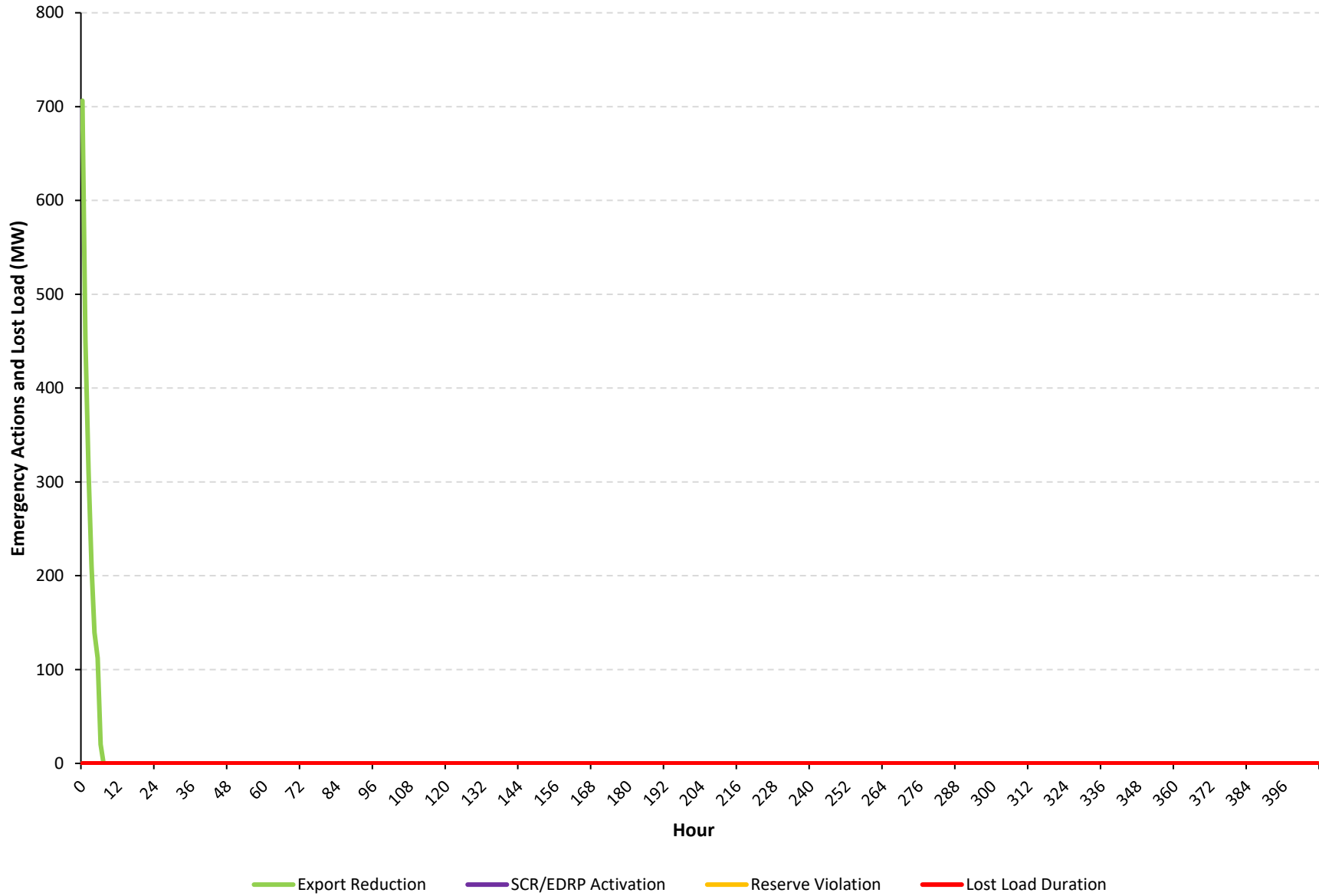
Scenario 2 - PD 5 No Truck Refill



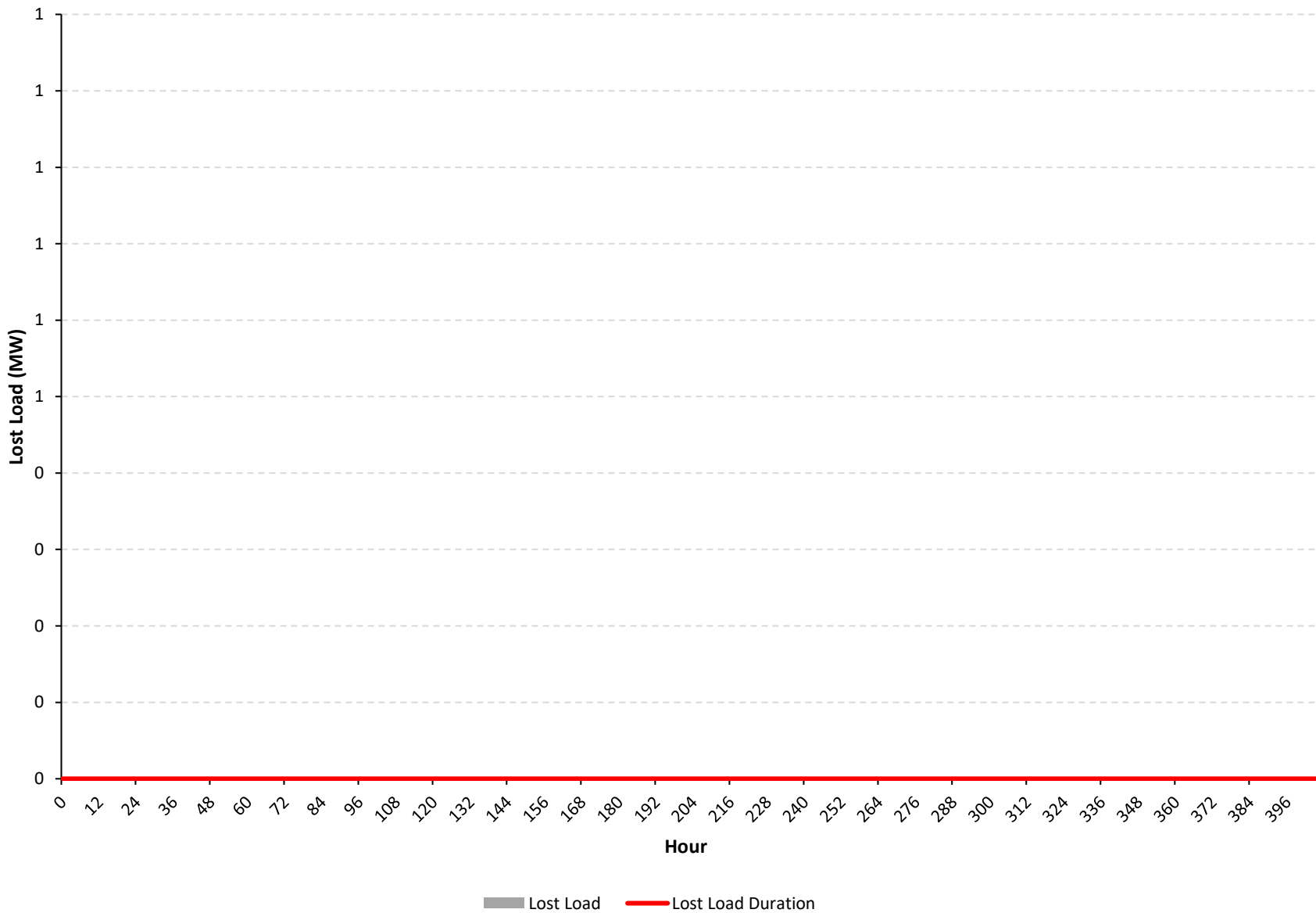
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 5 No Truck Refill



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 5 No Truck Refill



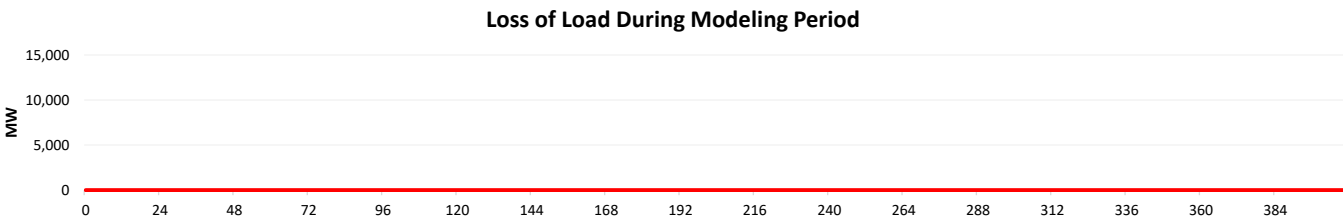
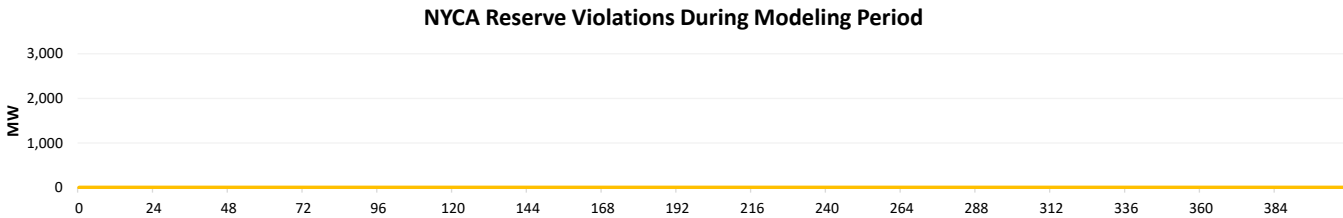
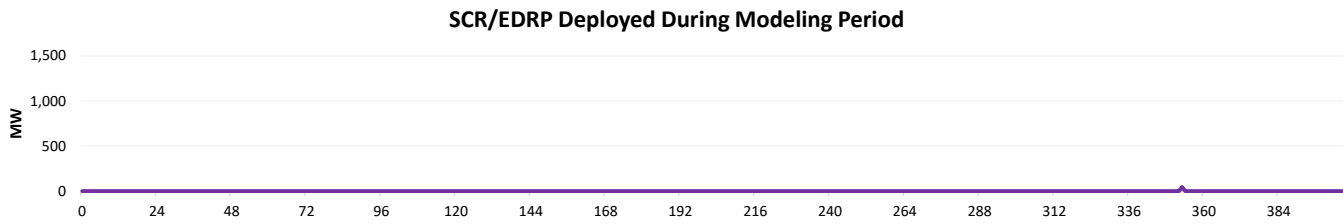
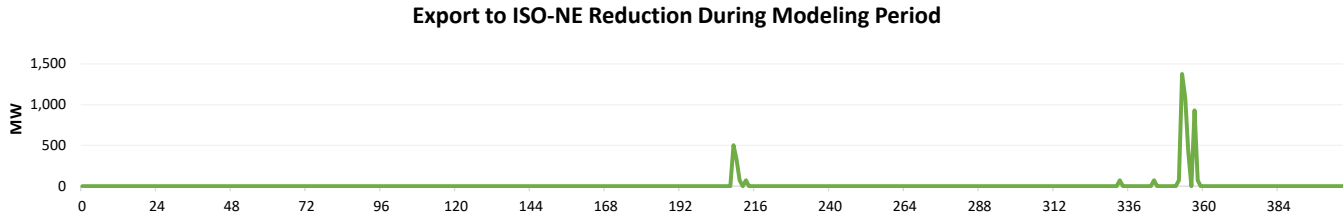
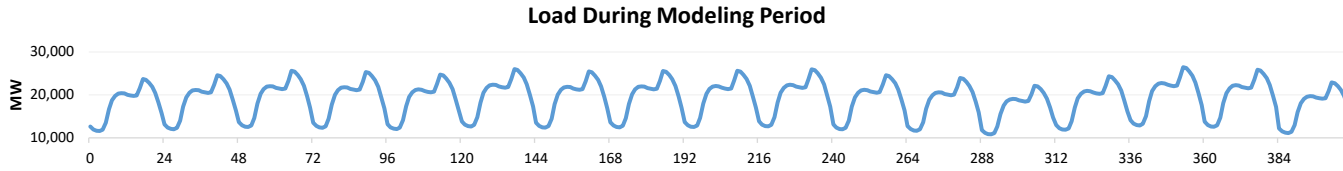
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 2 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	12
Total MWh	5,089
Avg. MW	12.5

SCR Deployment	
Total Hrs.	1
Total MWh	46
Avg. MW	0.1

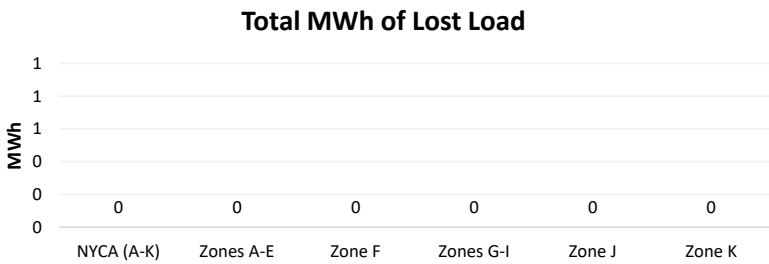
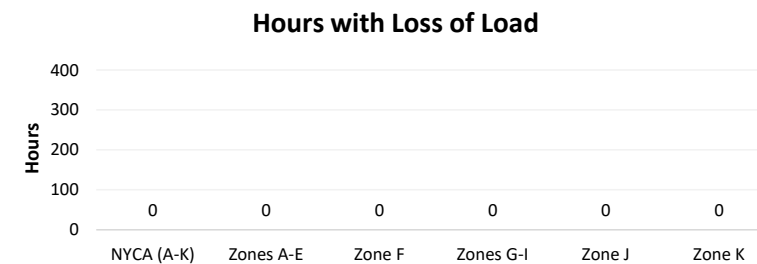
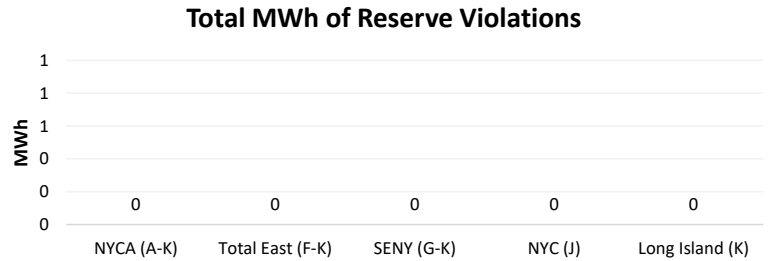
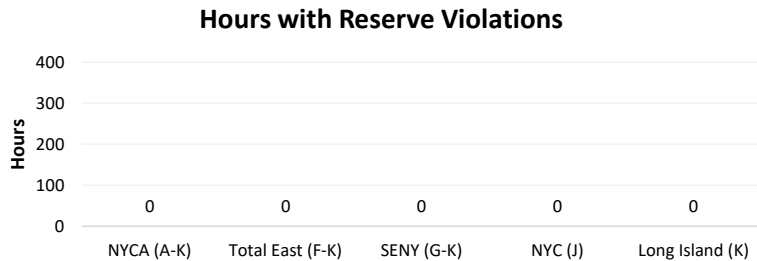
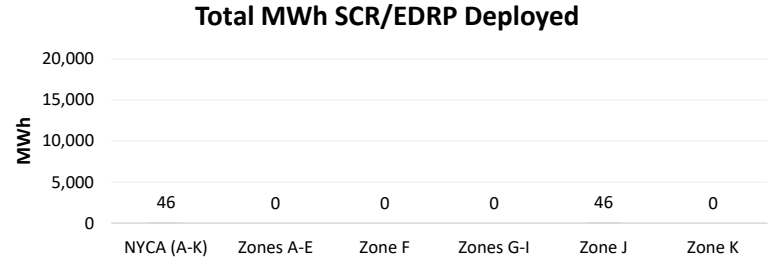
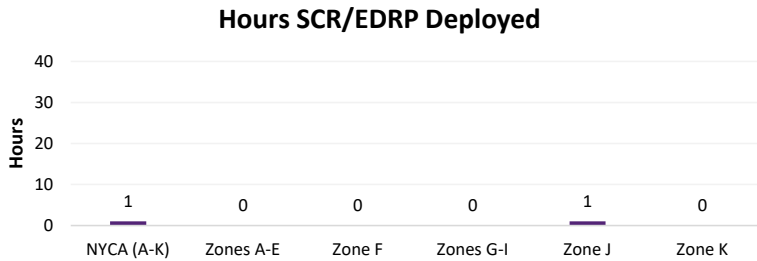
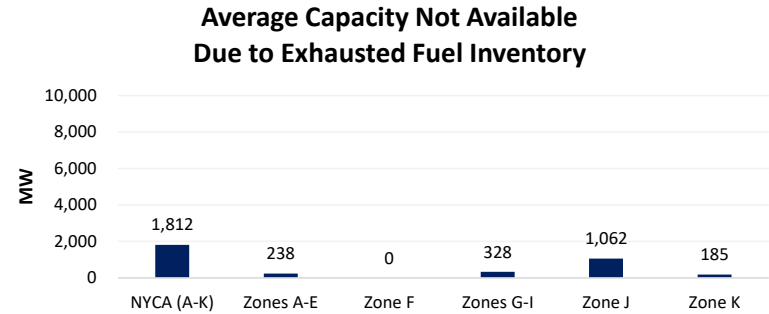
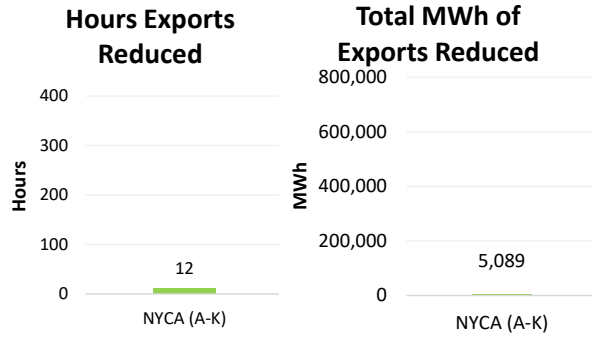
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

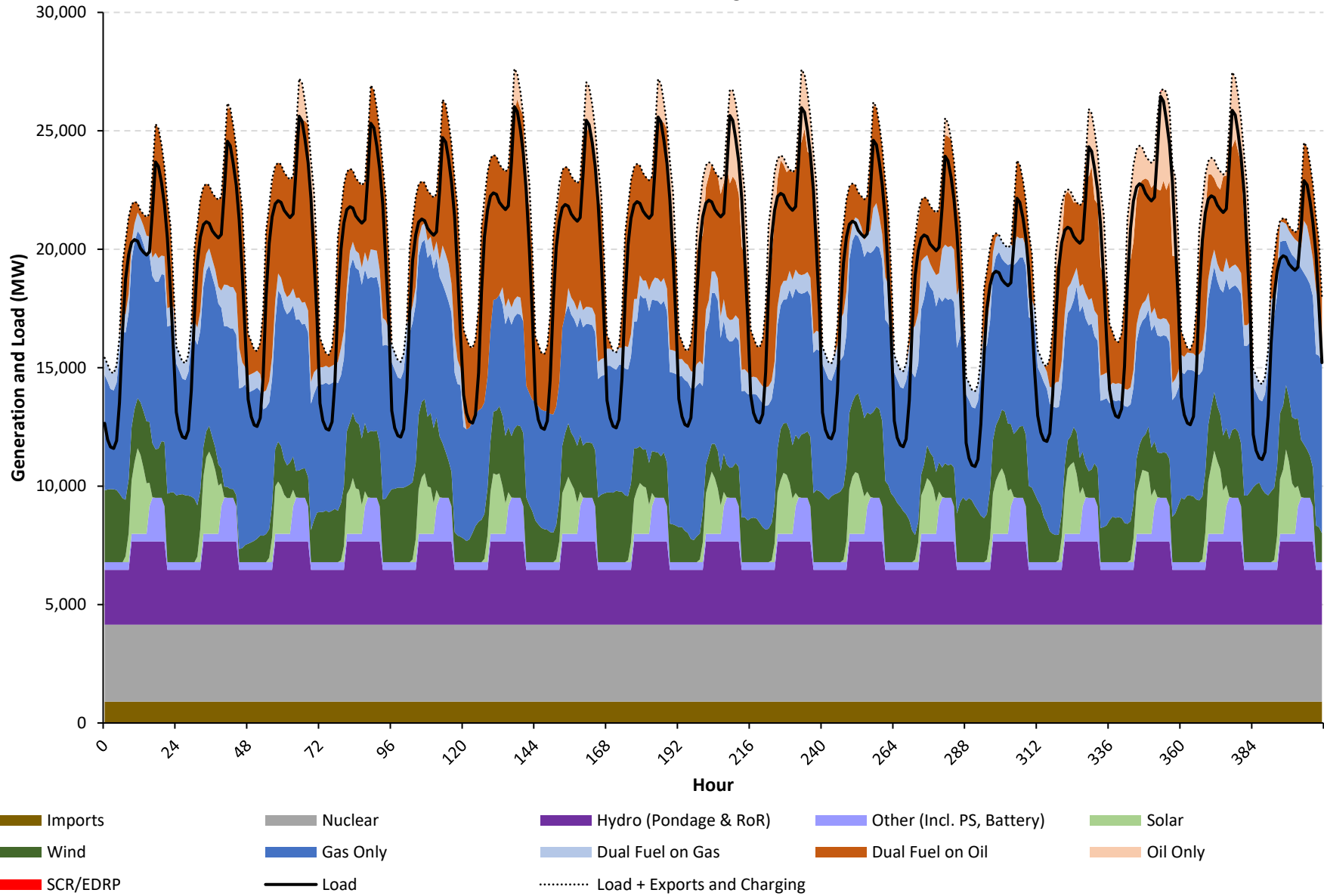
Full Period Results Summary

Case Name: Scenario 2 - PD 6 No Barge Refill

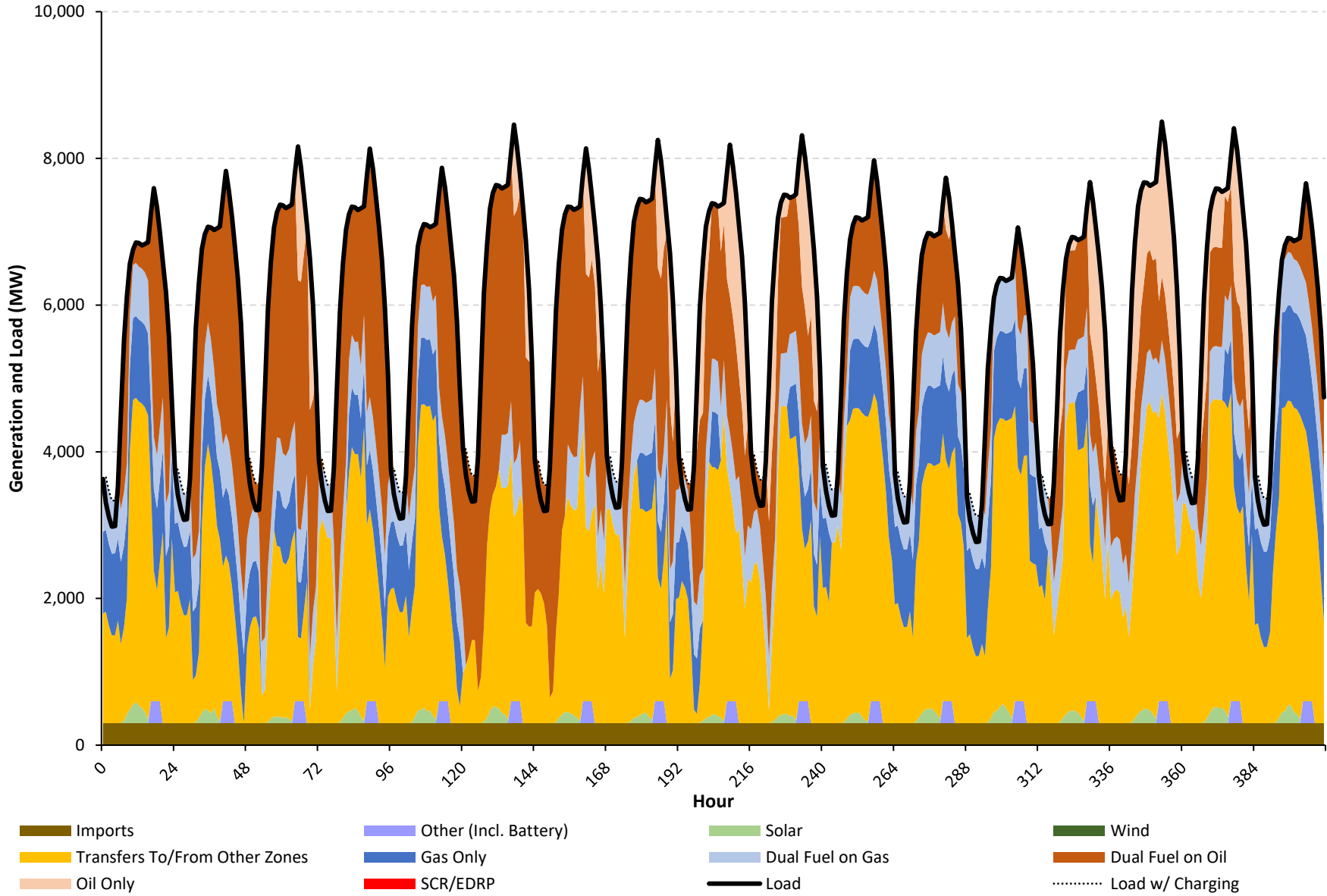
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



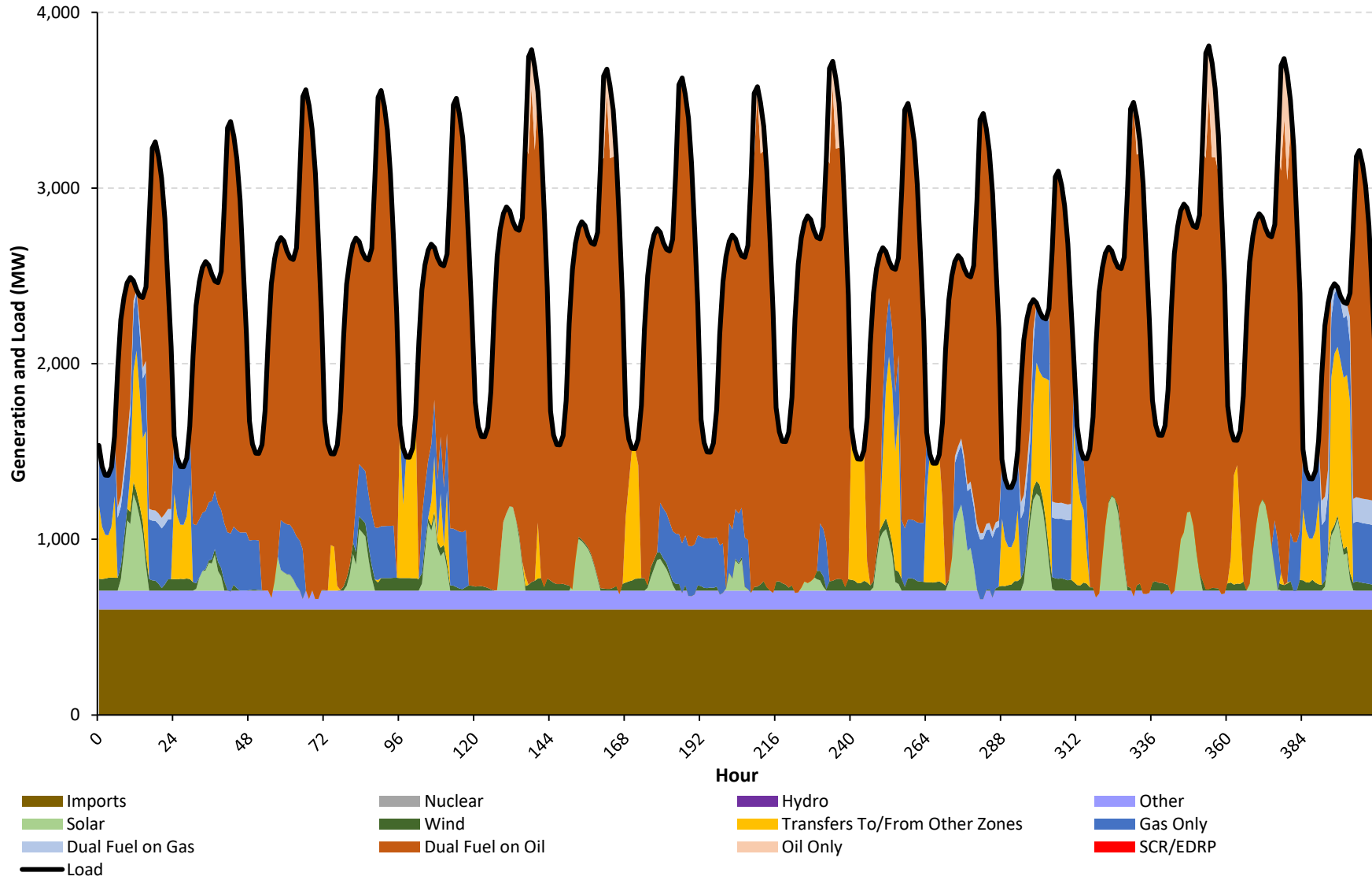
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 6 No Barge Refill



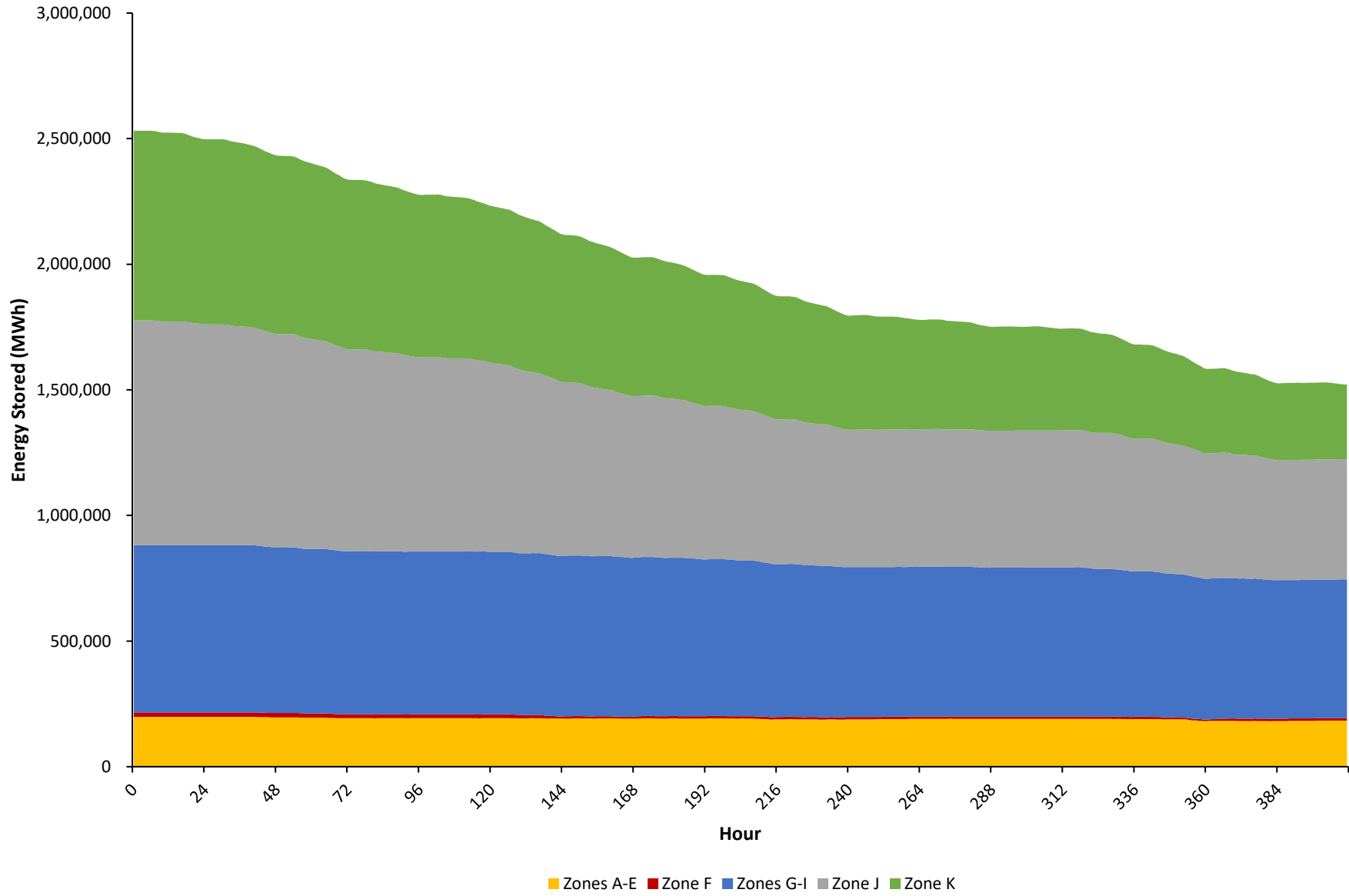
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 6 No Barge Refill

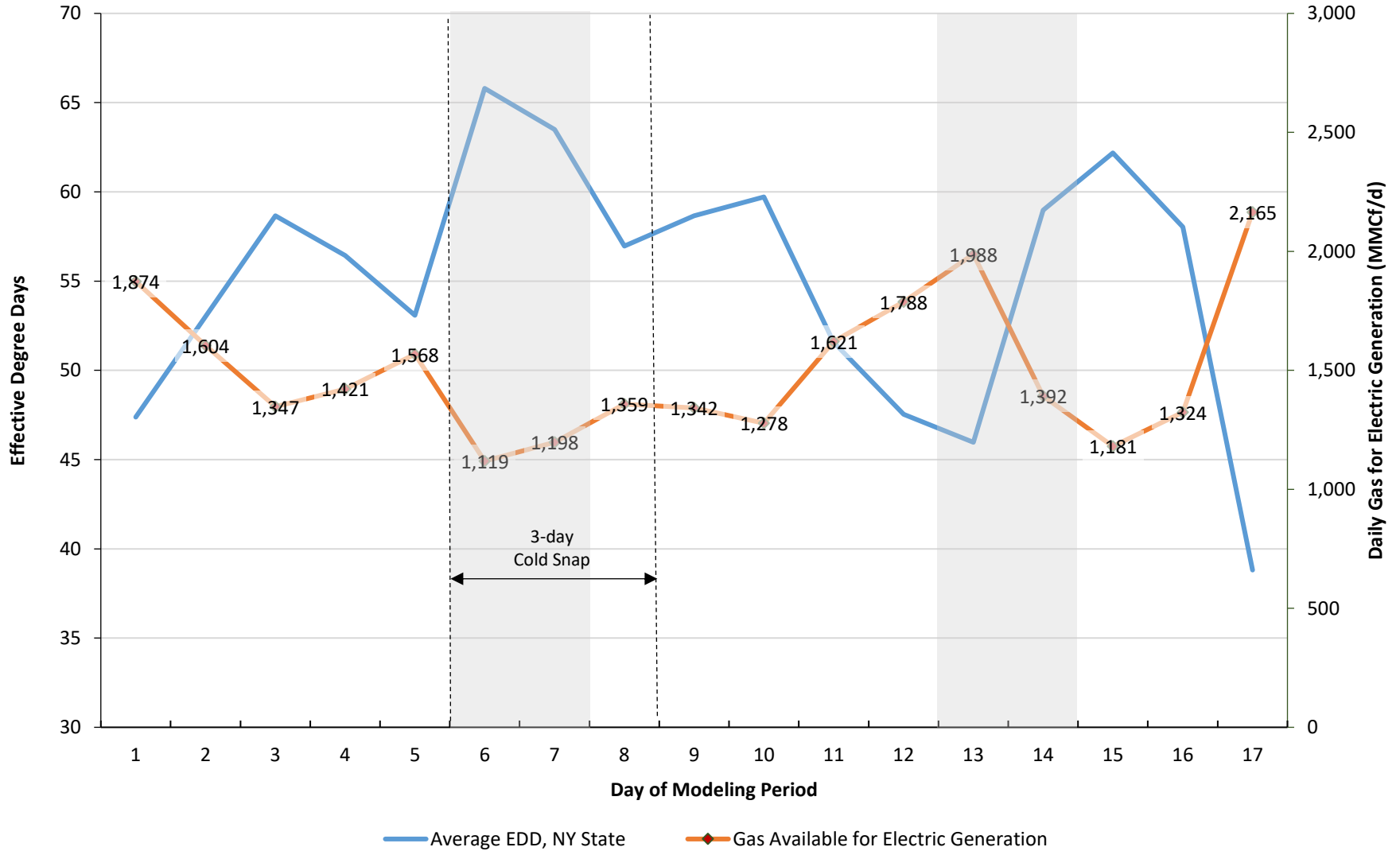


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

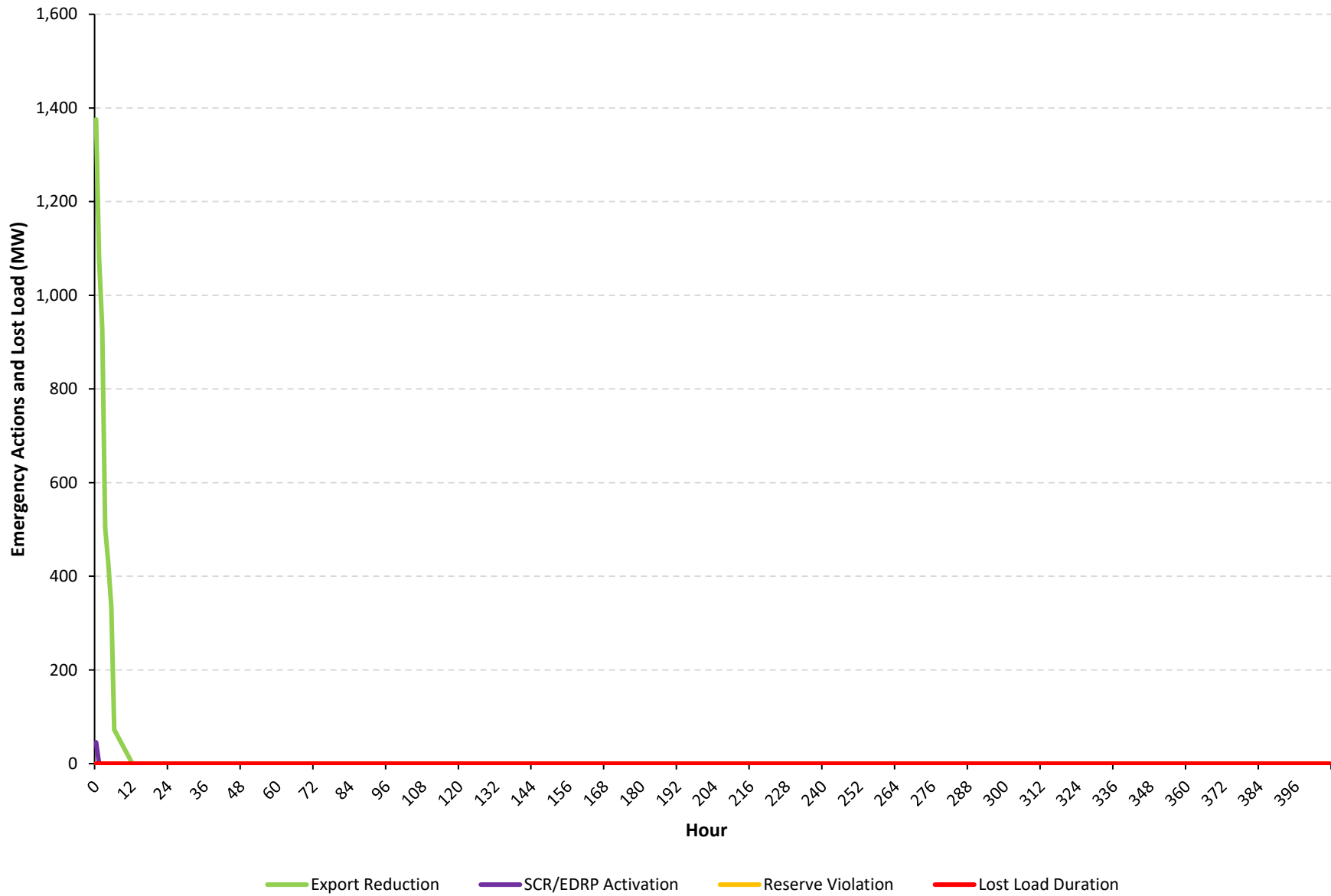
Scenario 2 - PD 6 No Barge Refill



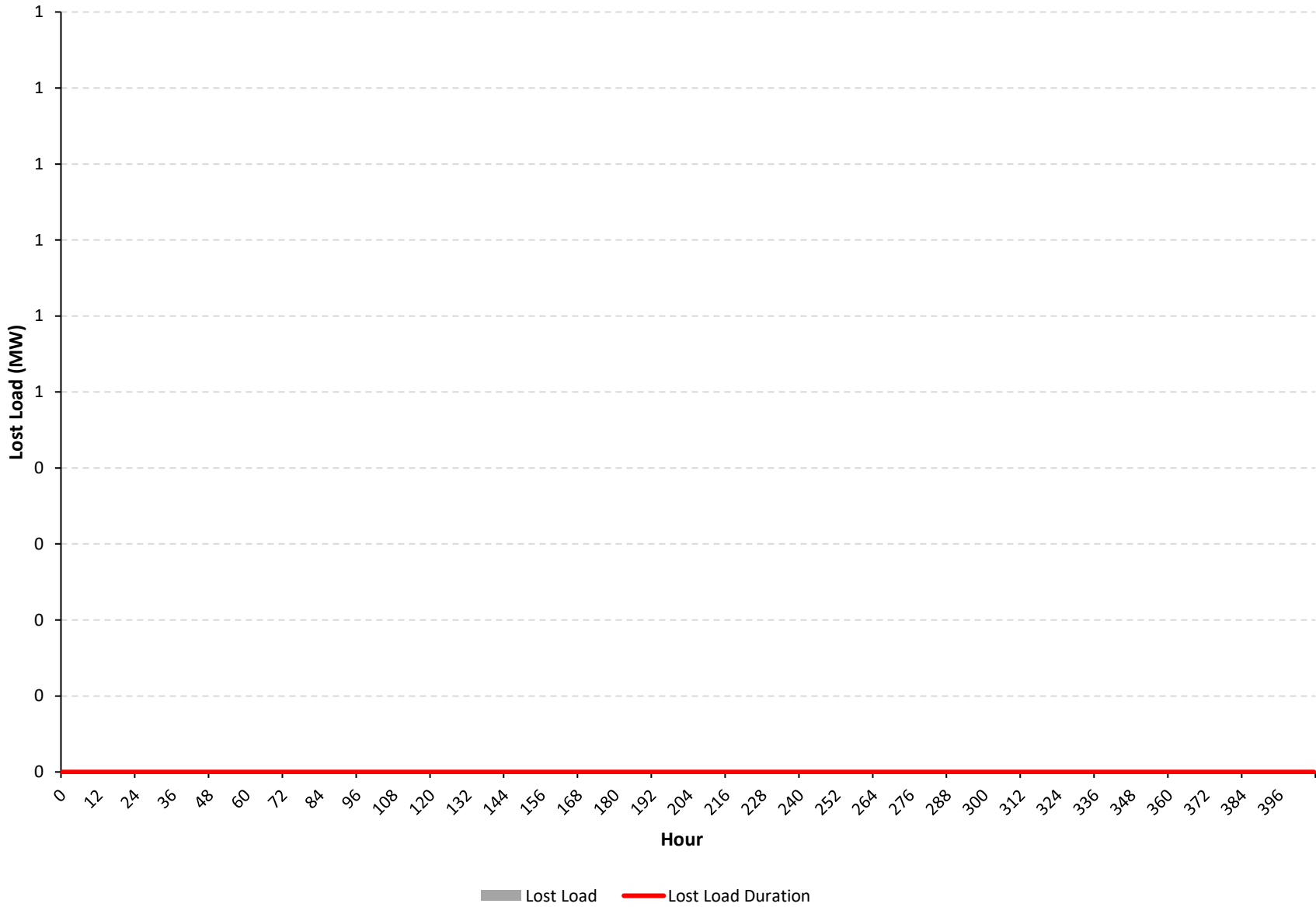
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 6 No Barge Refill



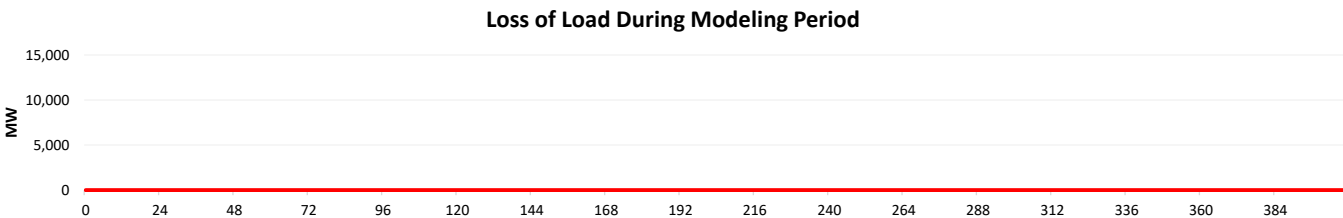
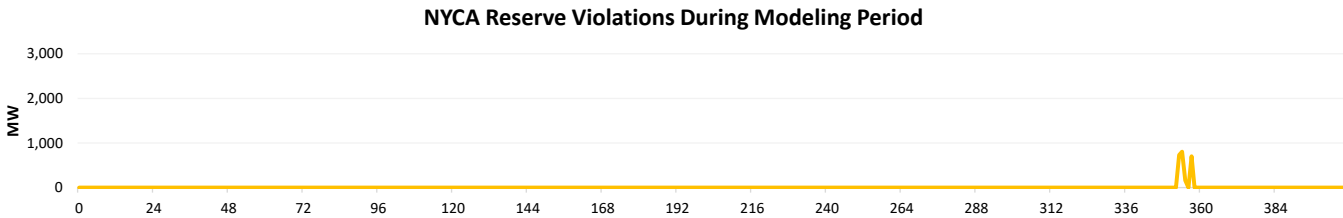
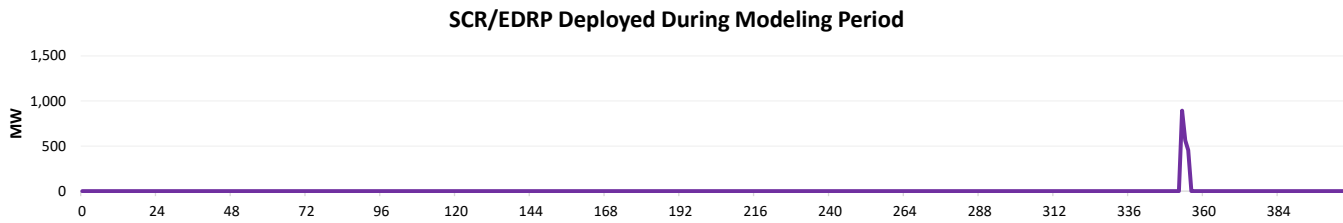
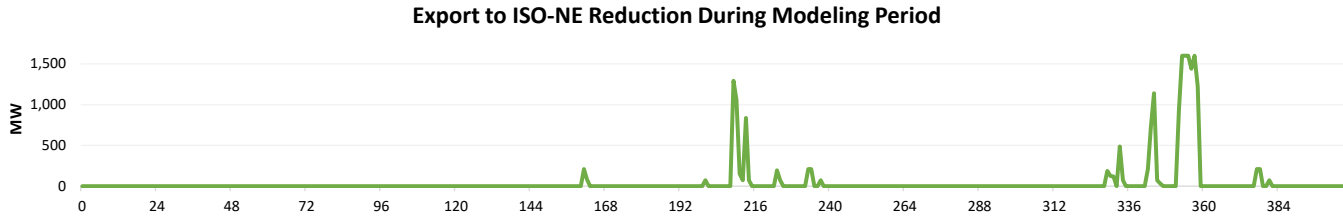
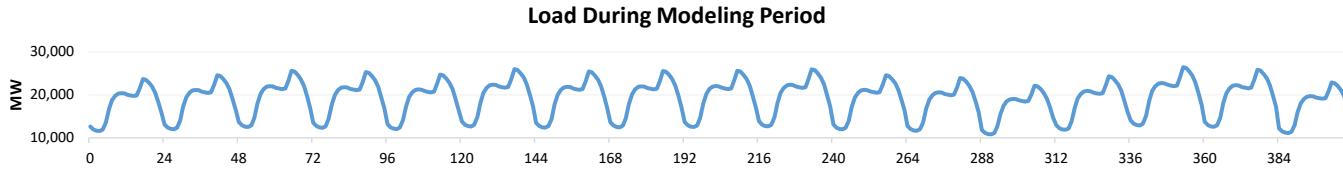
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 2 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	34
Total MWh	18,259
Avg. MW	44.8

SCR Deployment	
Total Hrs.	3
Total MWh	1,910
Avg. MW	4.7

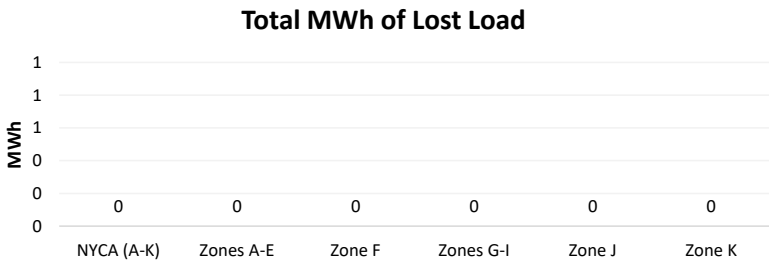
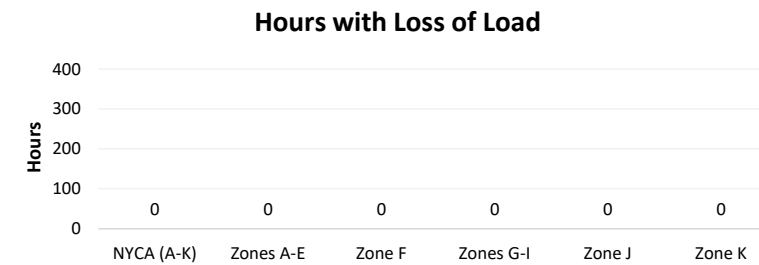
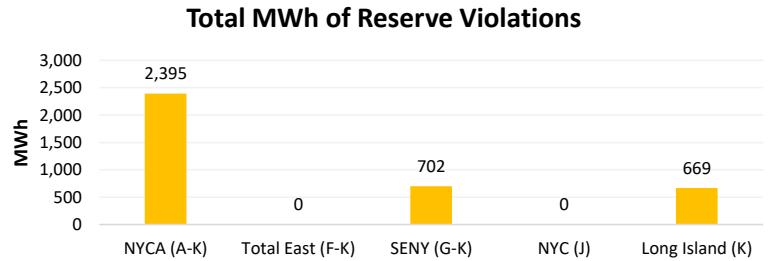
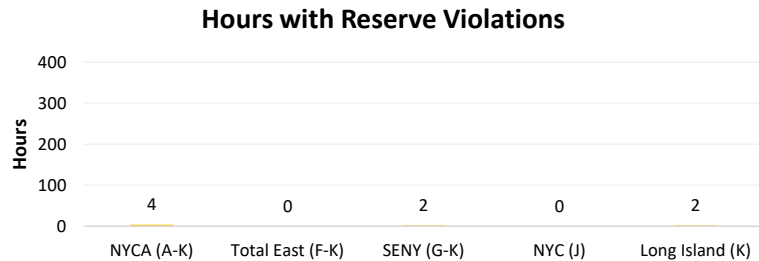
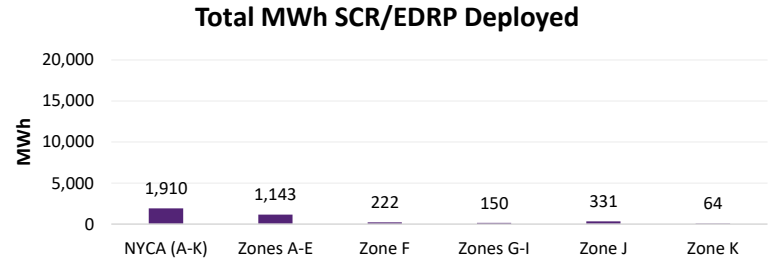
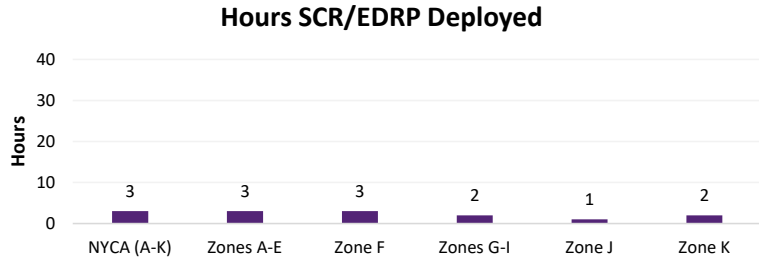
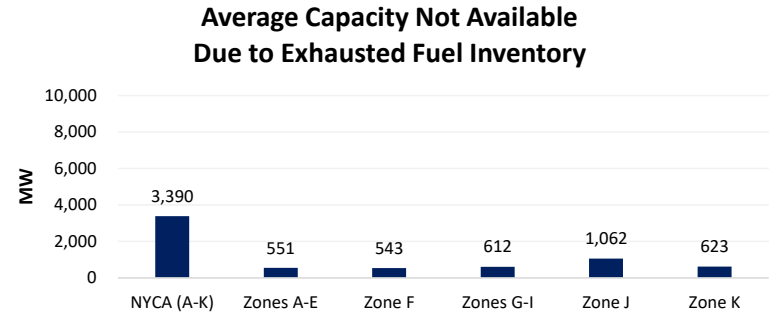
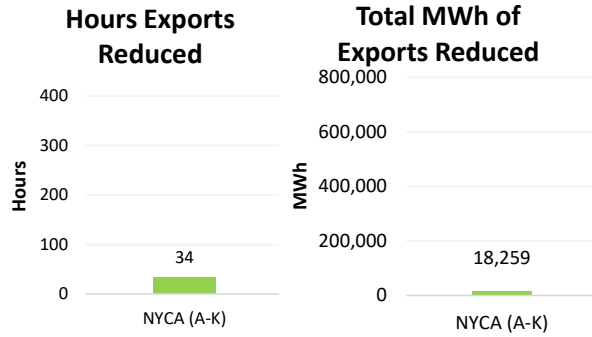
Reserve Violations	
Total Hrs.	4
Total MWh	2,395
Avg. MW	5.9
First Hour with Viol.	353
First Hour, Zone K	353

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

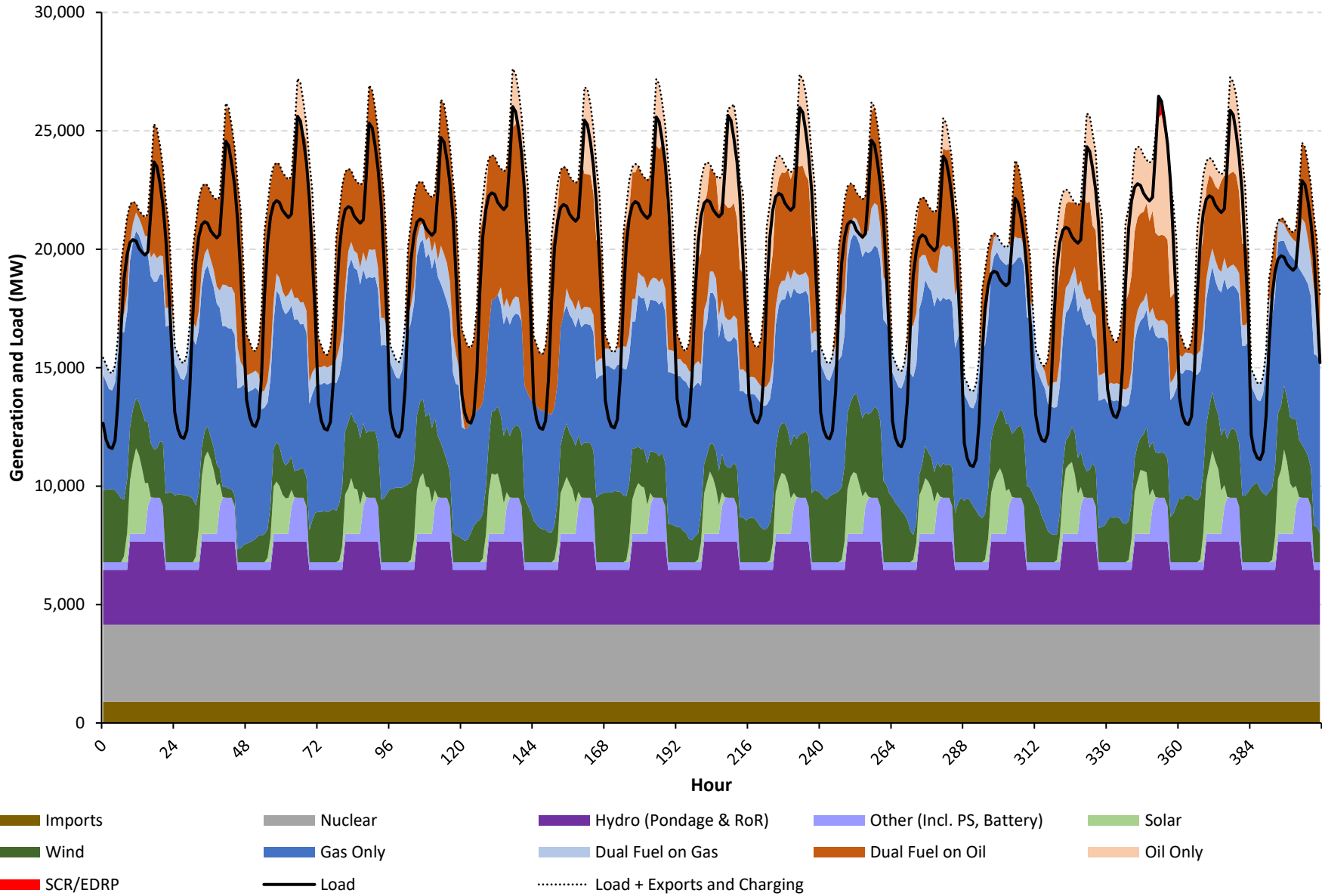
Full Period Results Summary

Case Name: Scenario 2 - PD 7 No Refill

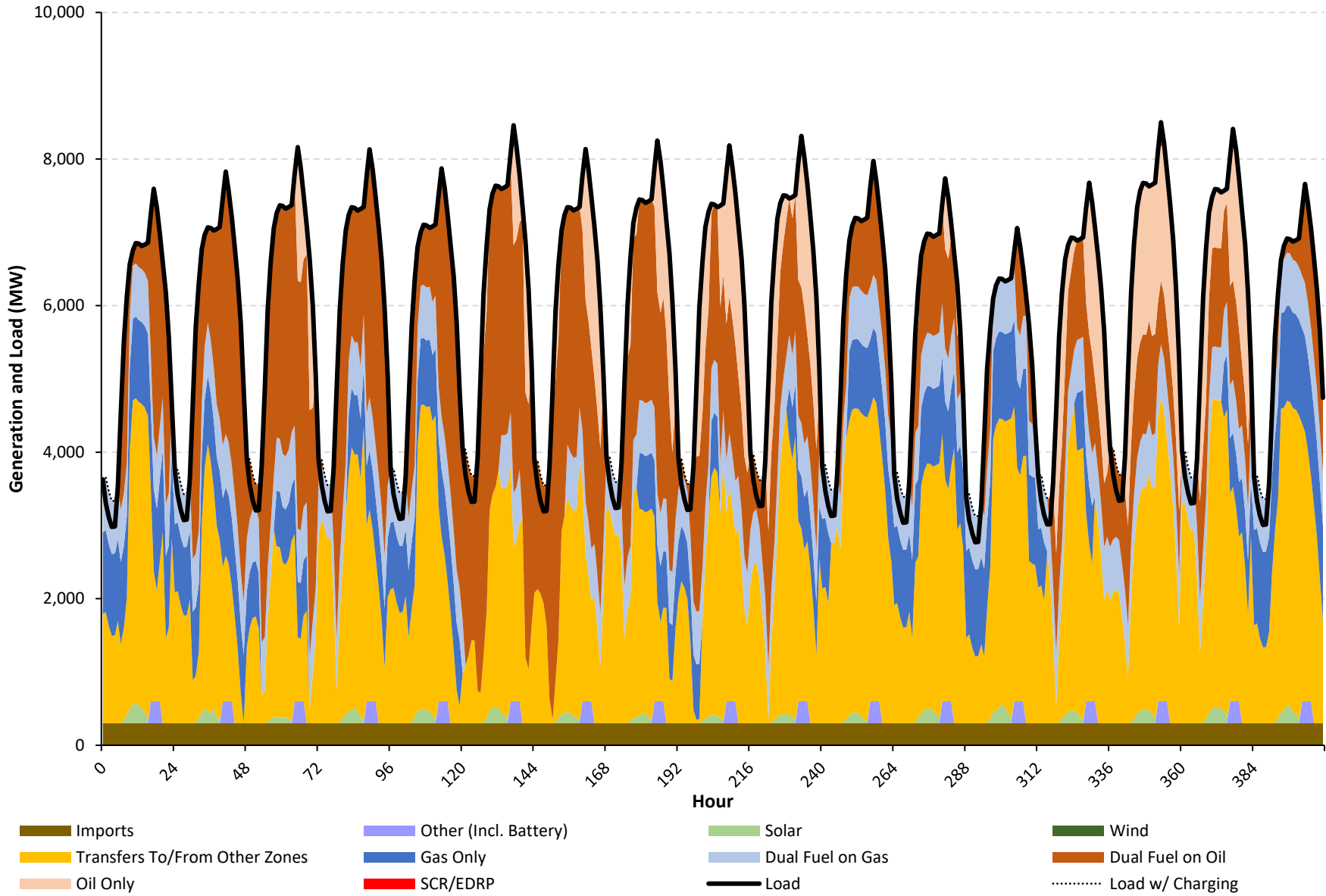
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



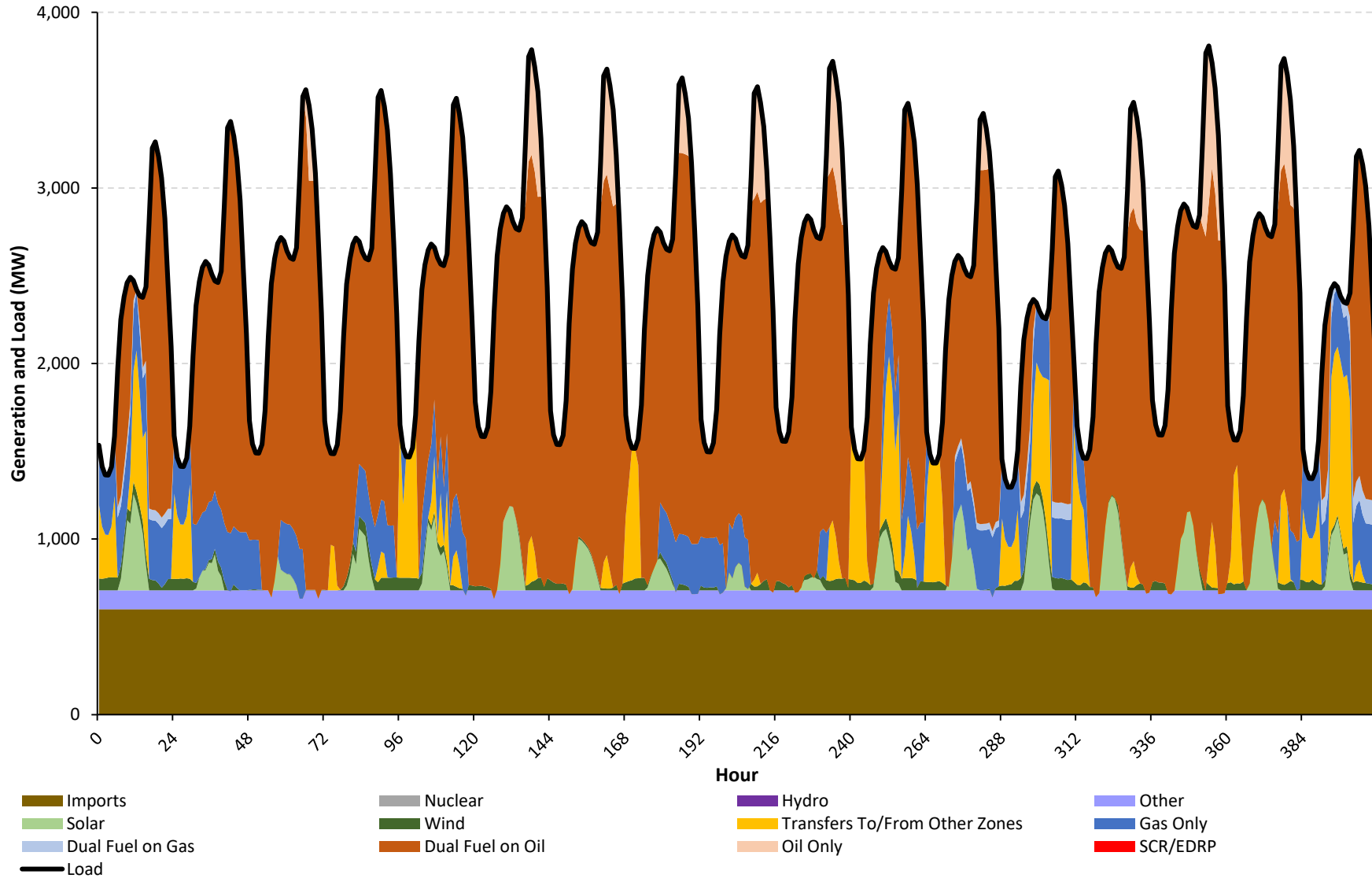
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 7 No Refill



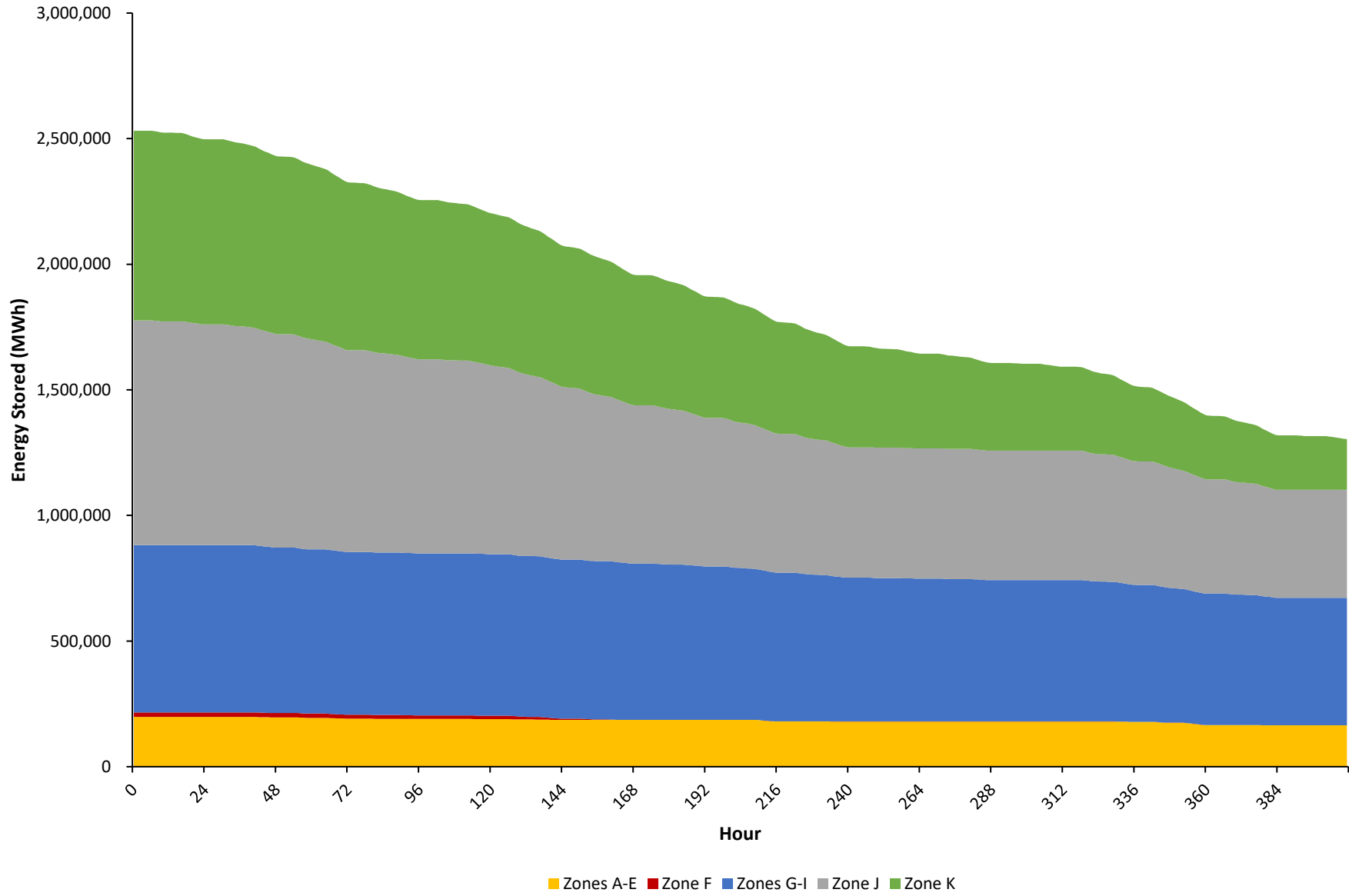
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 7 No Refill

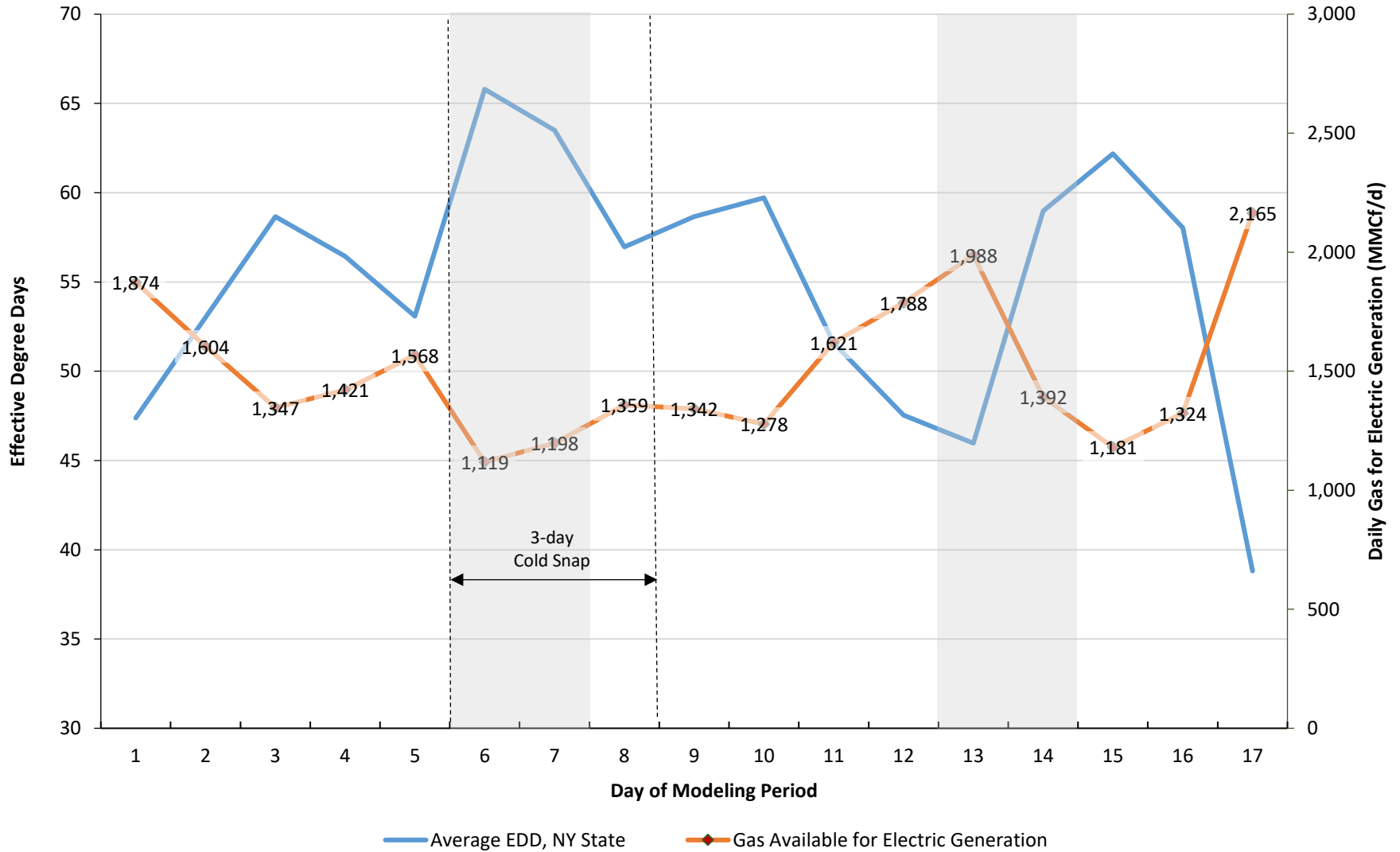


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

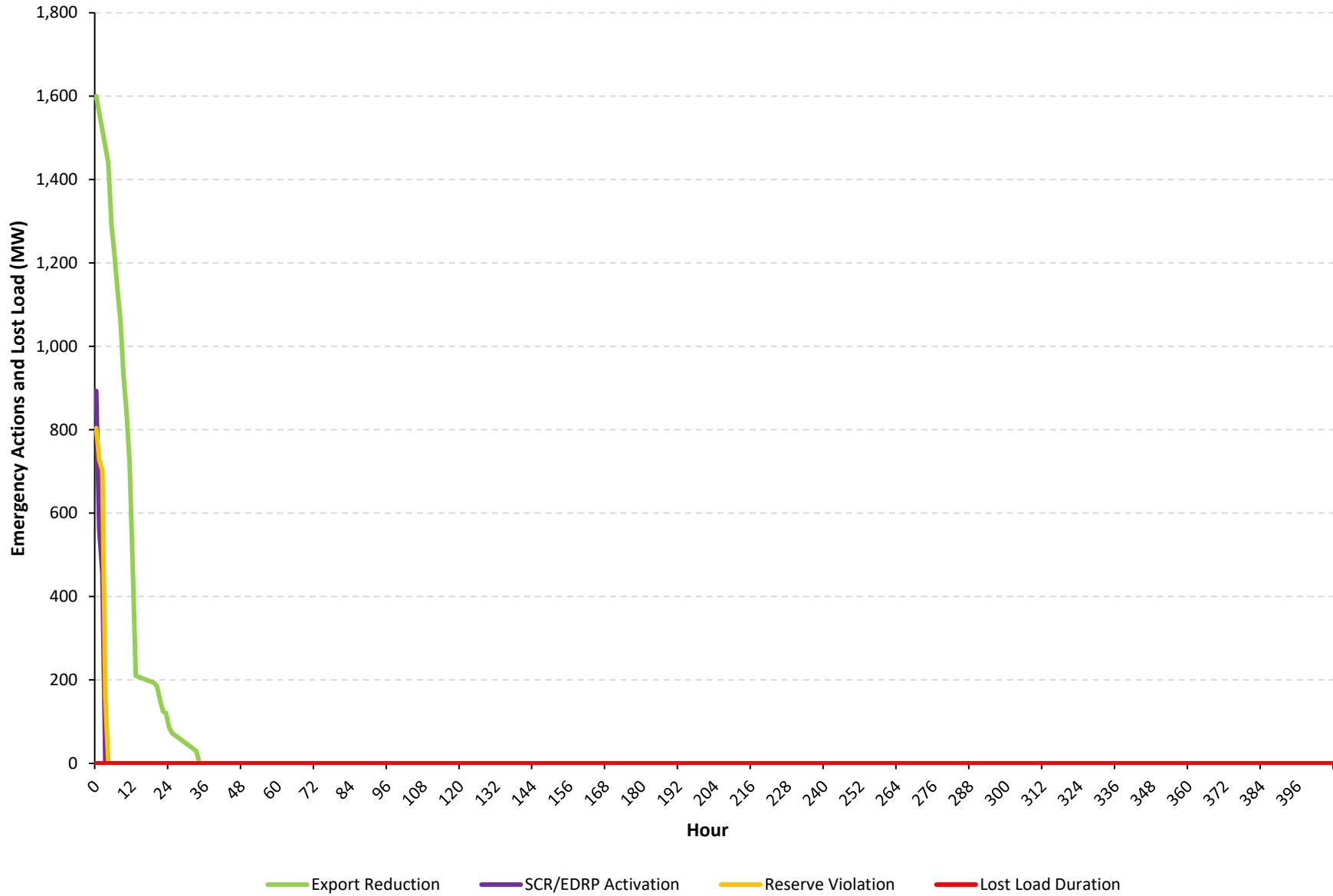
Scenario 2 - PD 7 No Refill



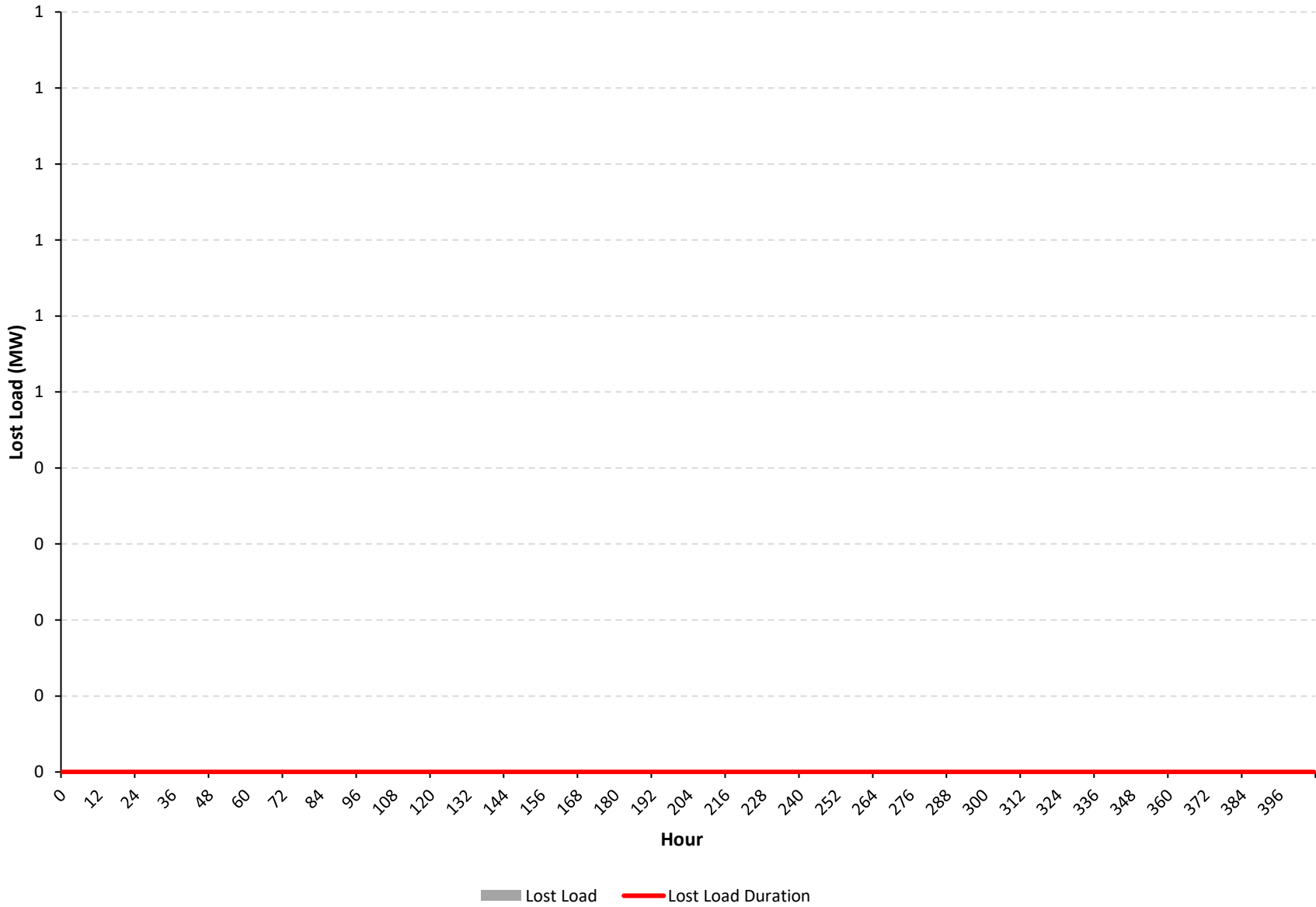
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 7 No Refill



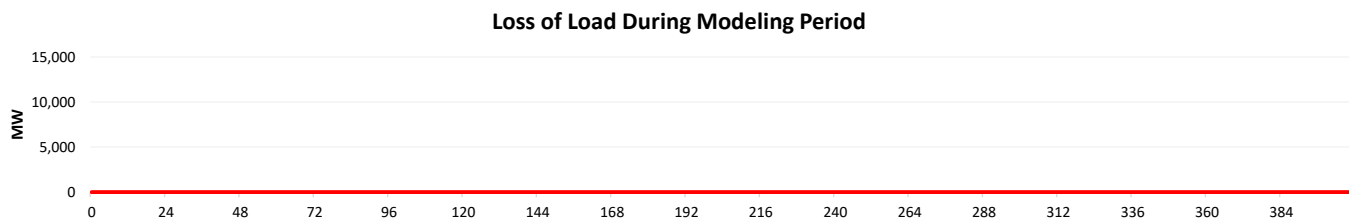
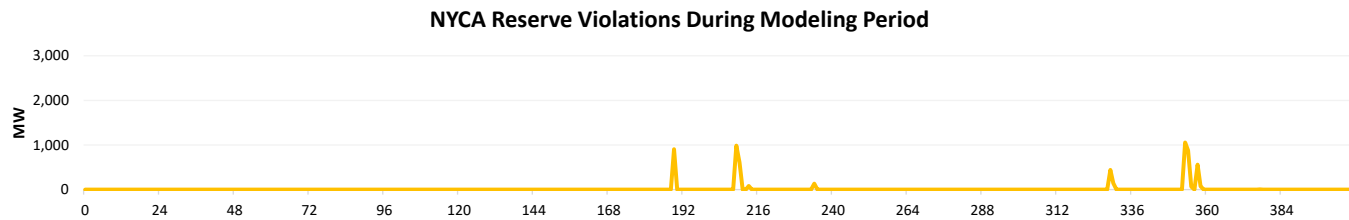
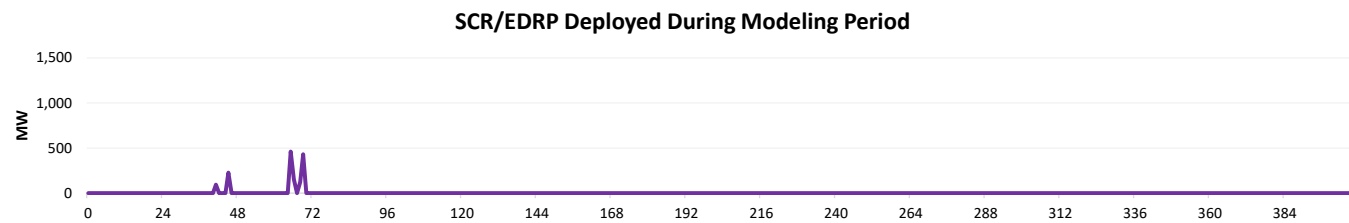
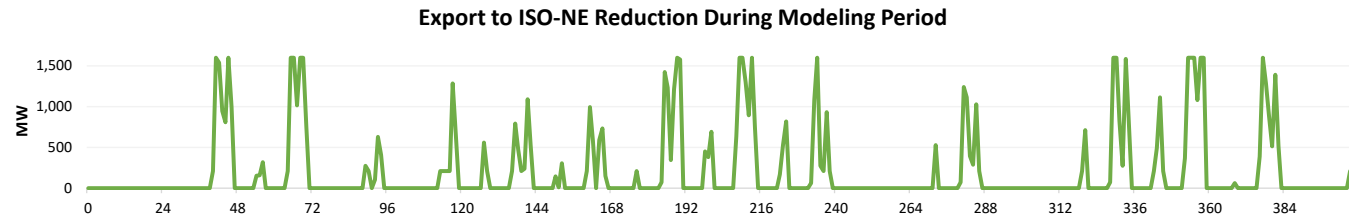
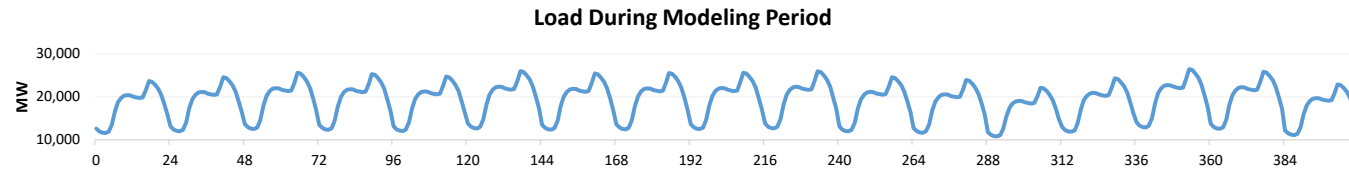
NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 7 No Refill



Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks
Case: Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	112
Total MWh	83,669
Avg. MW	205.1

SCR Deployment	
Total Hrs.	6
Total MWh	1,489
Avg. MW	3.6

Reserve Violations	
Total Hrs.	13
Total MWh	5,923
Avg. MW	14.5

First Hour with Viol.	189	First Hour, Zone K
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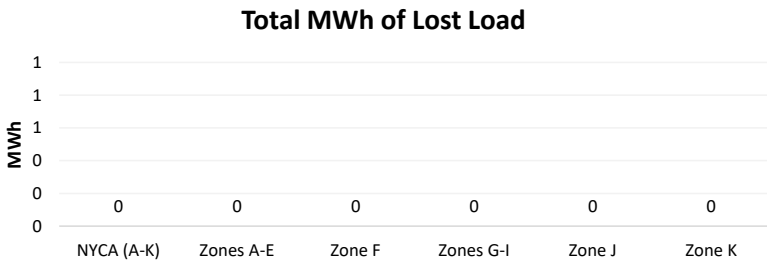
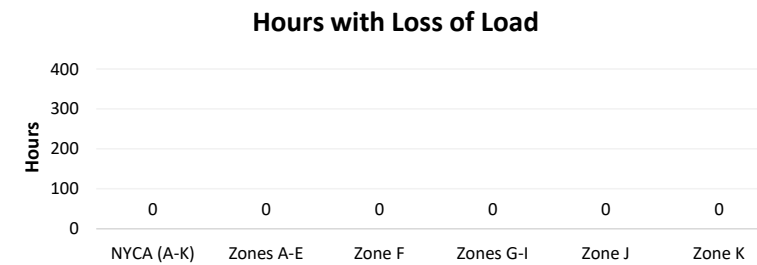
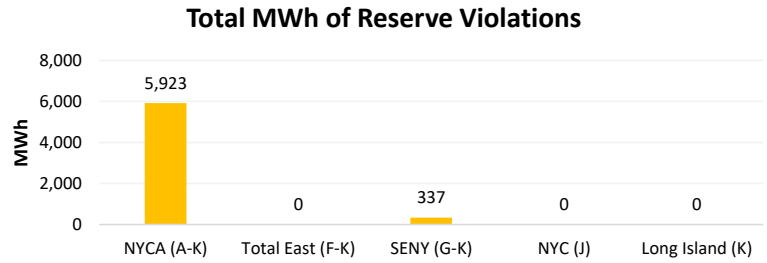
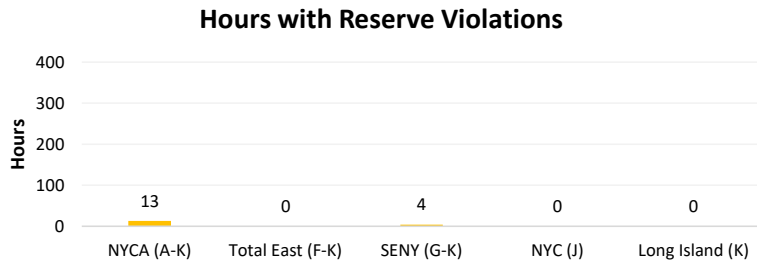
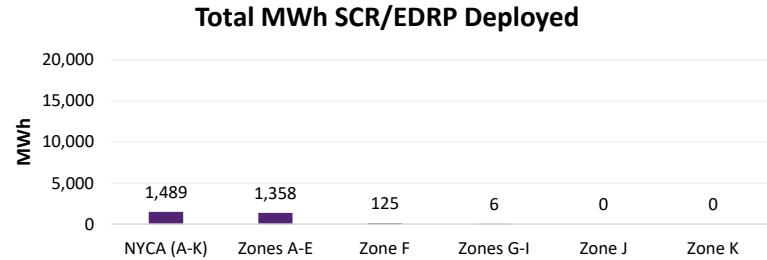
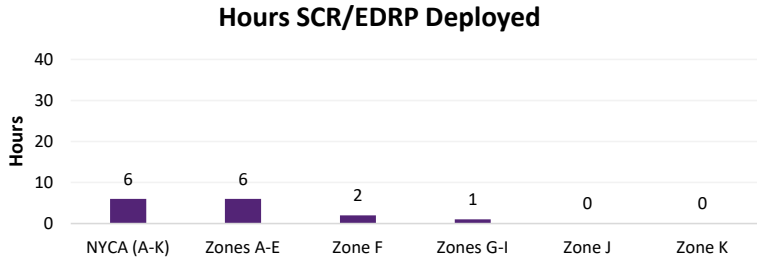
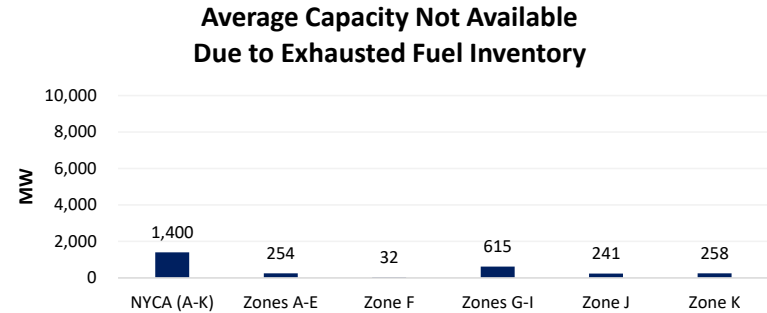
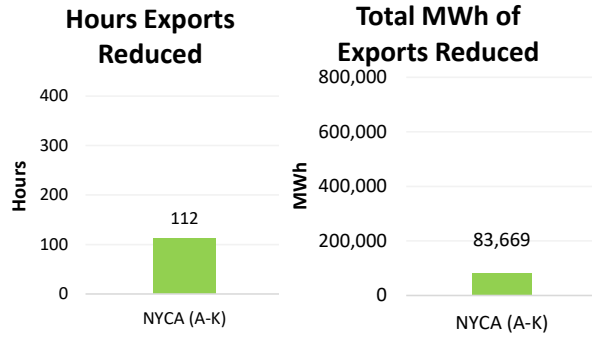
Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

First Hour with Losses		First Hour, Zone K
------------------------	--	--------------------

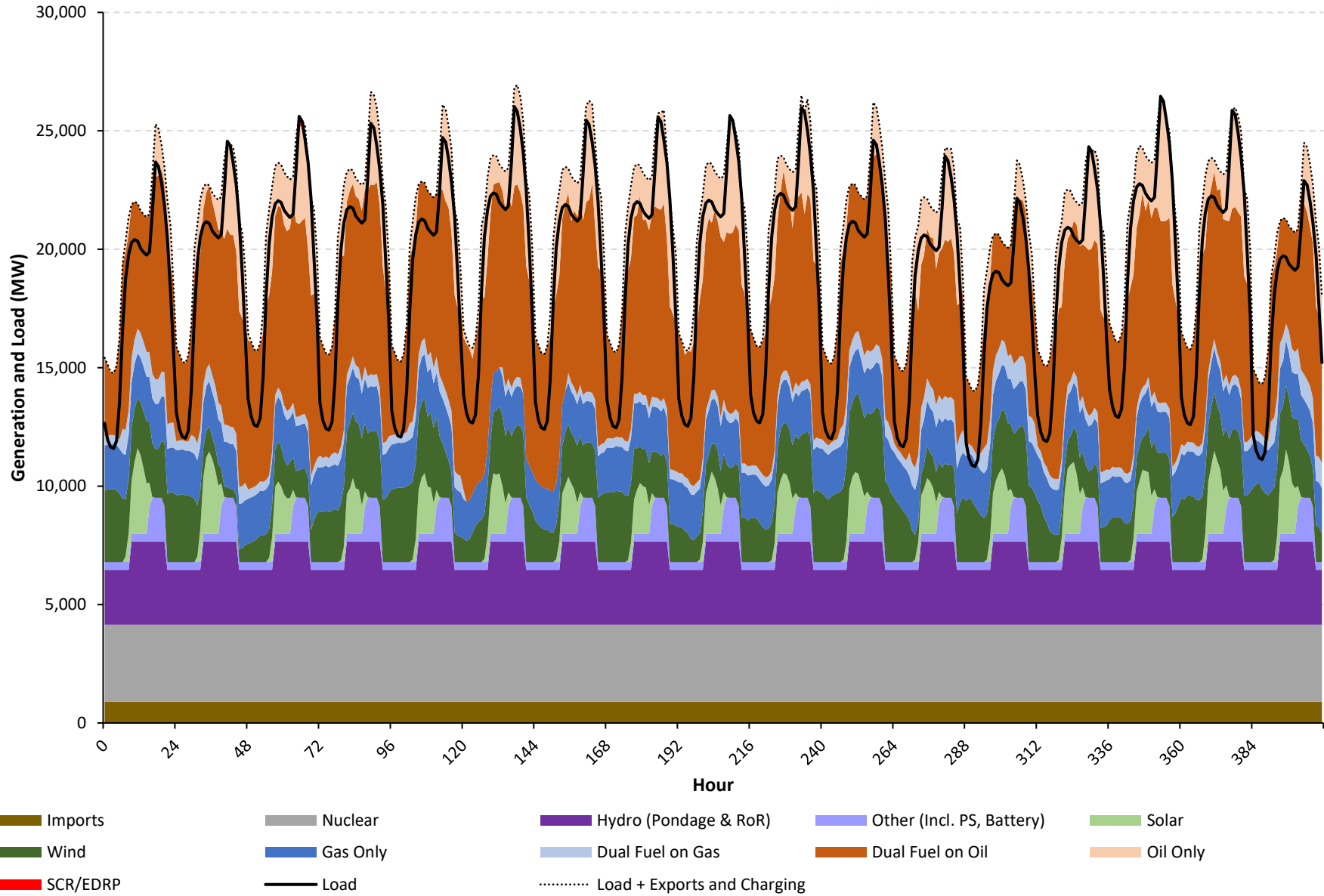
Full Period Results Summary

Case Name: Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)

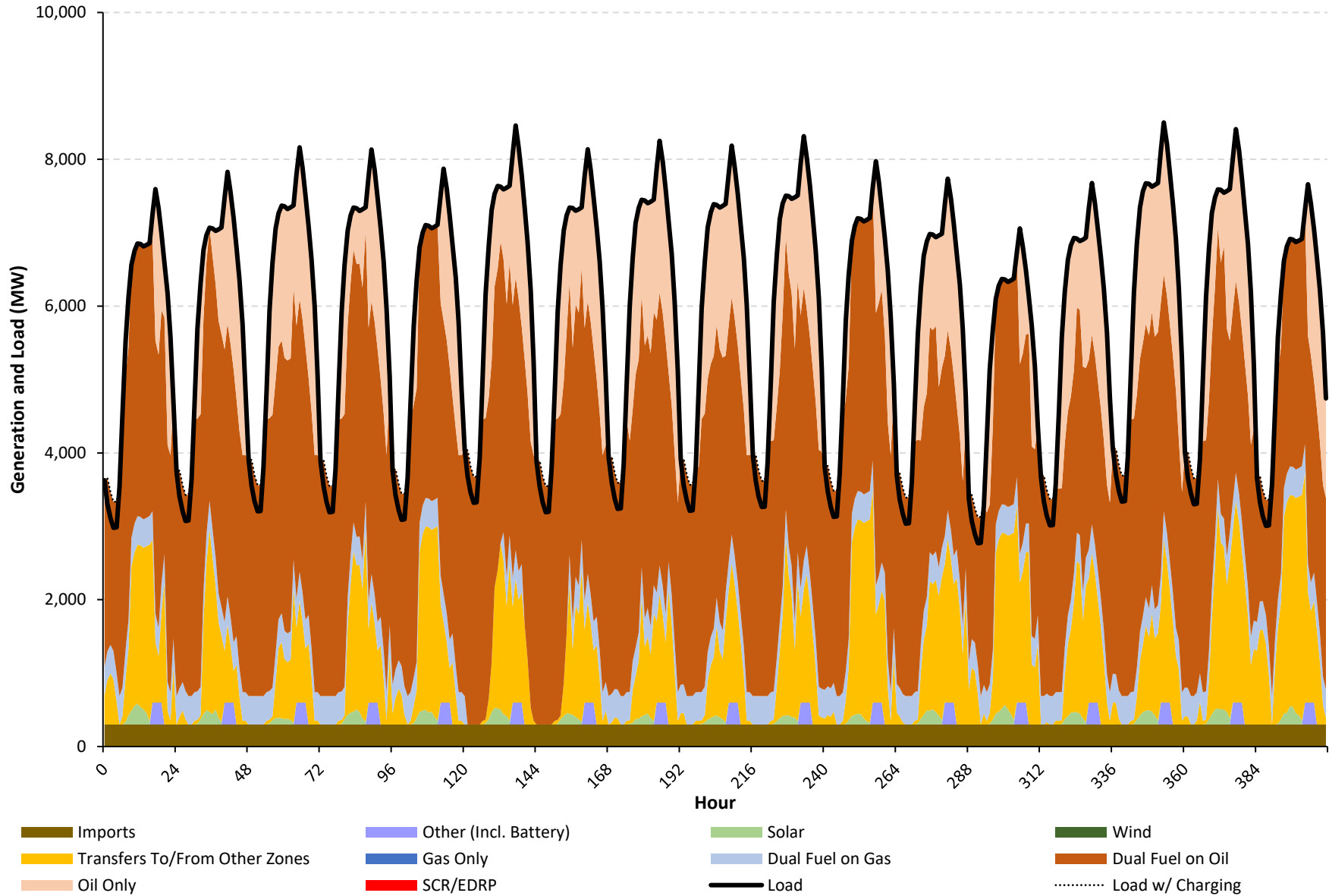
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



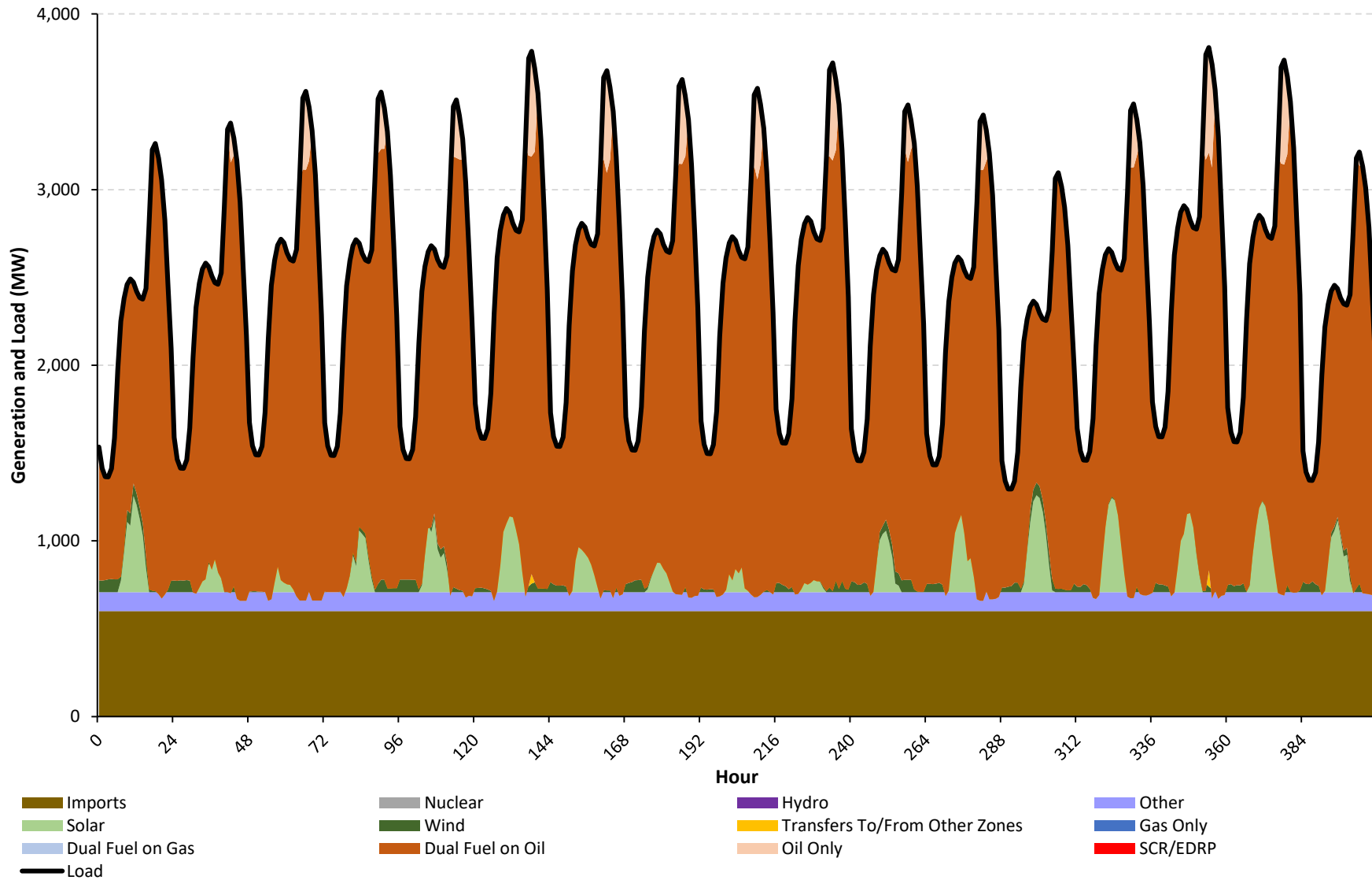
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)



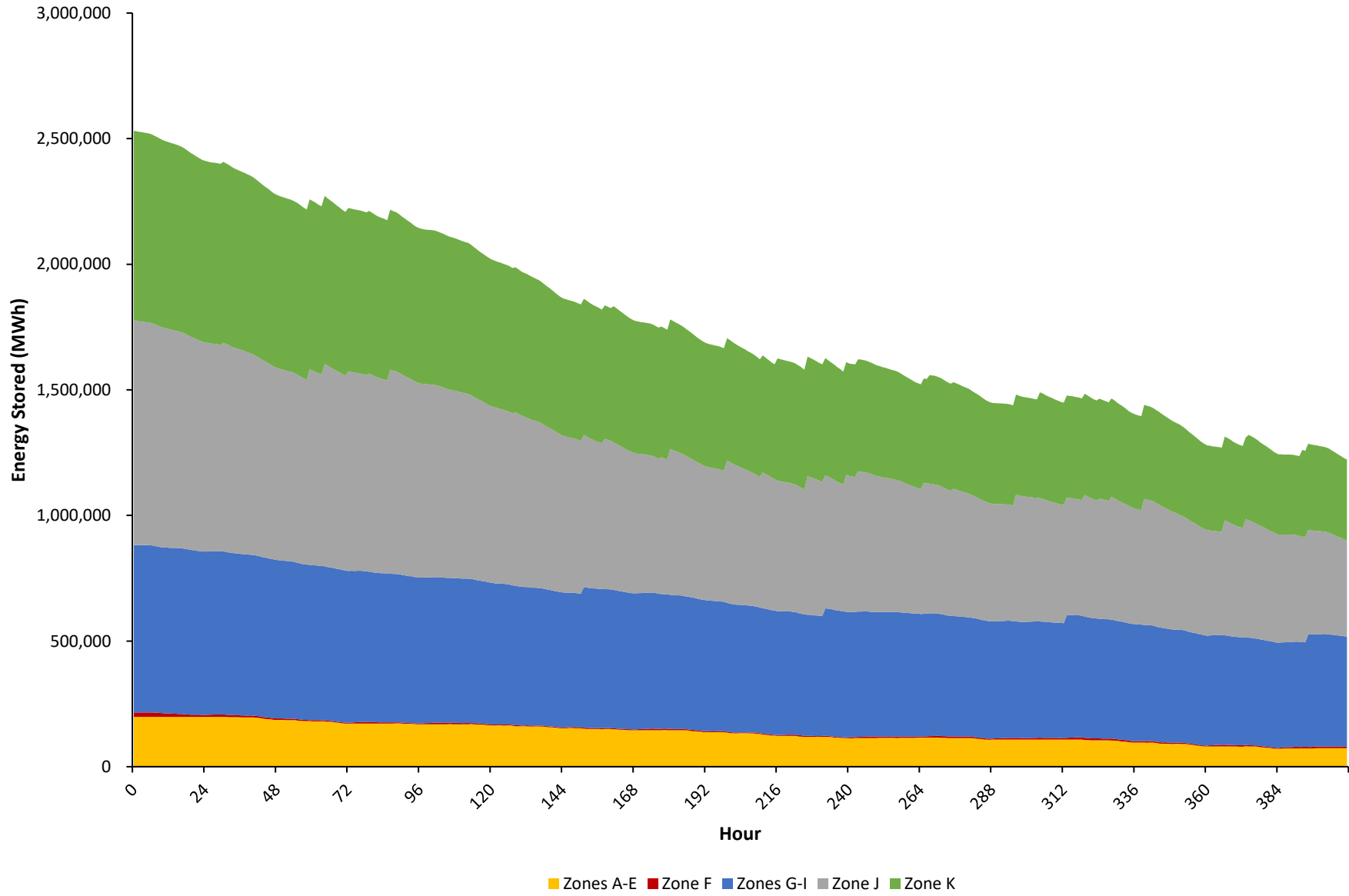
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)

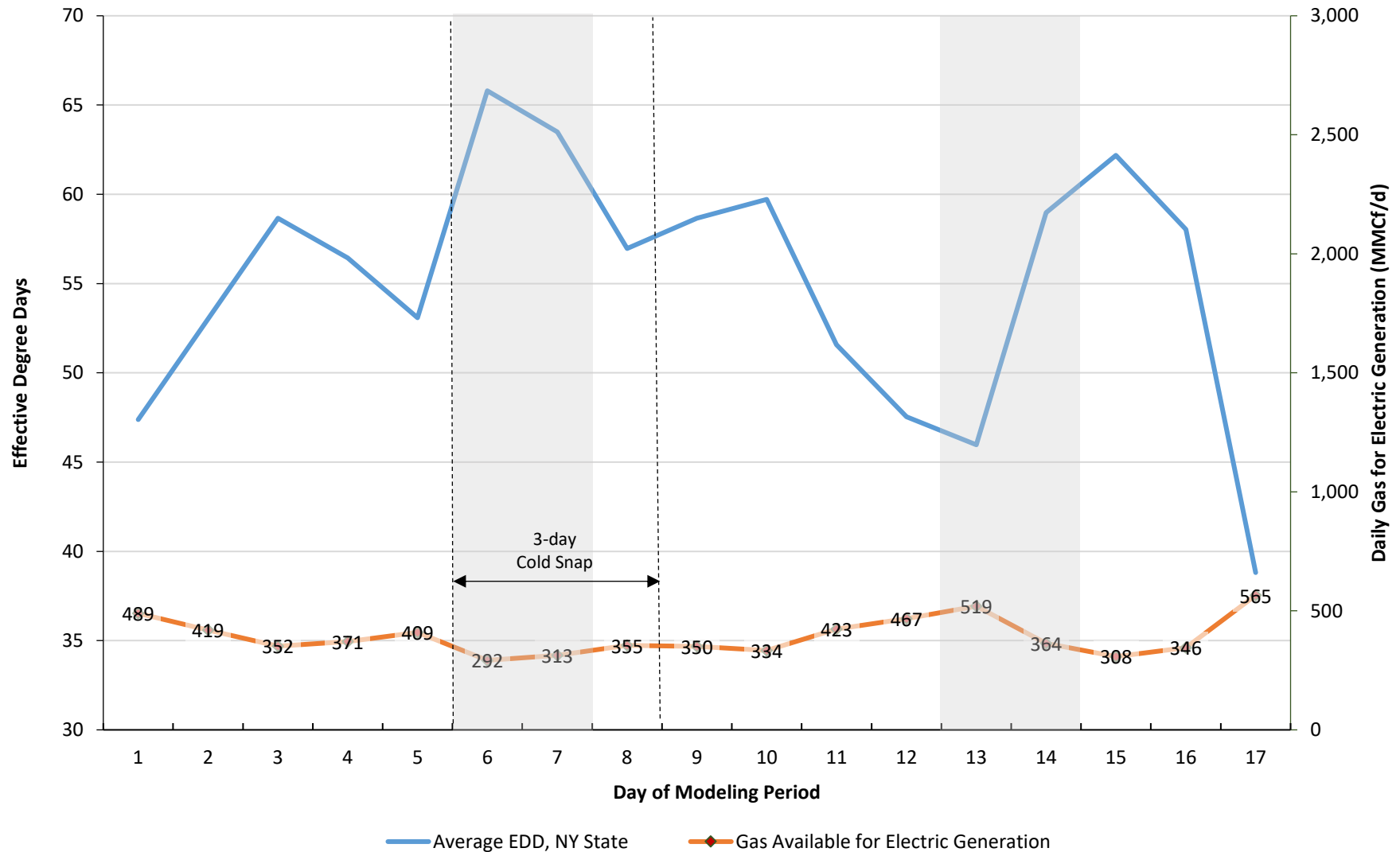


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

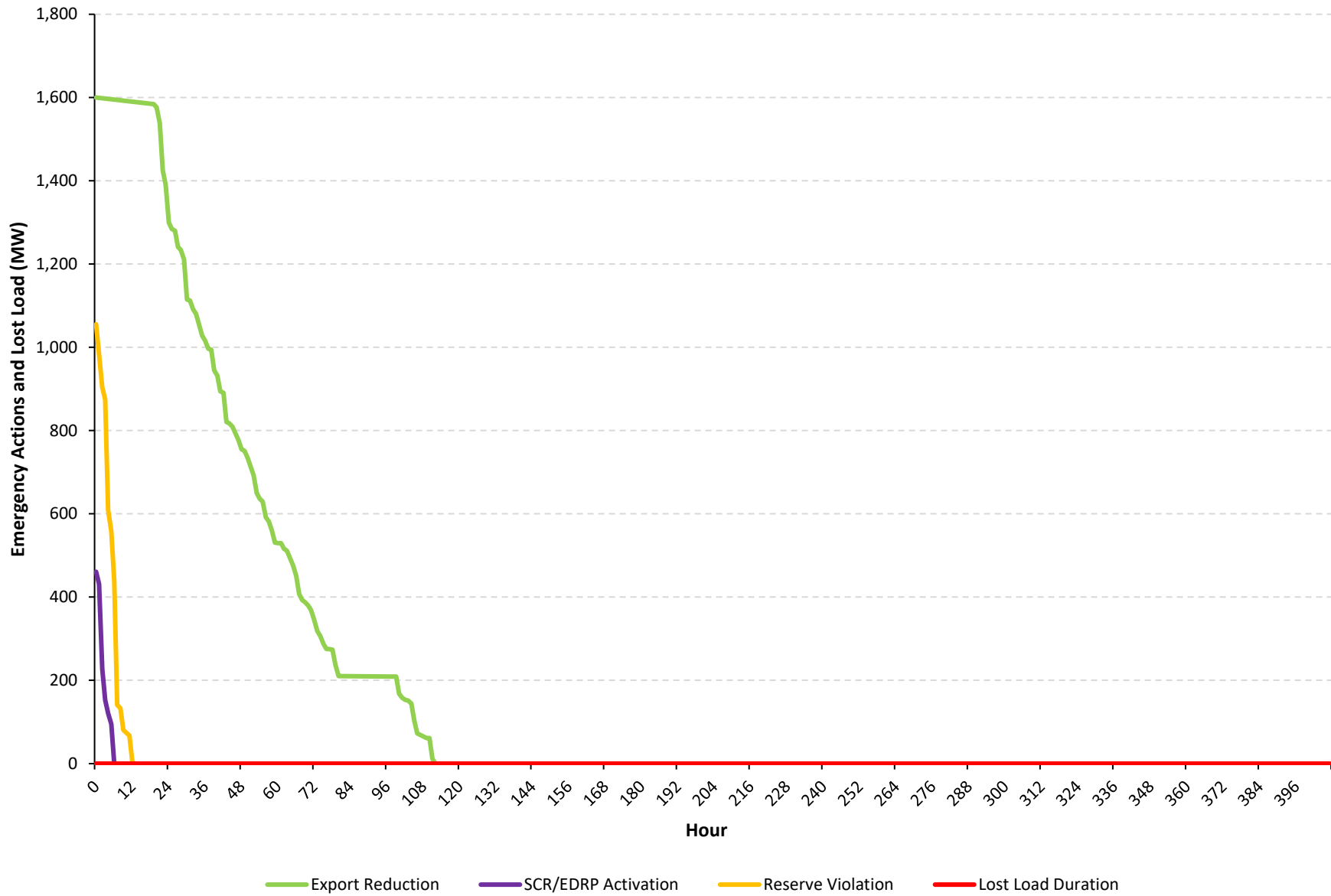
Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)

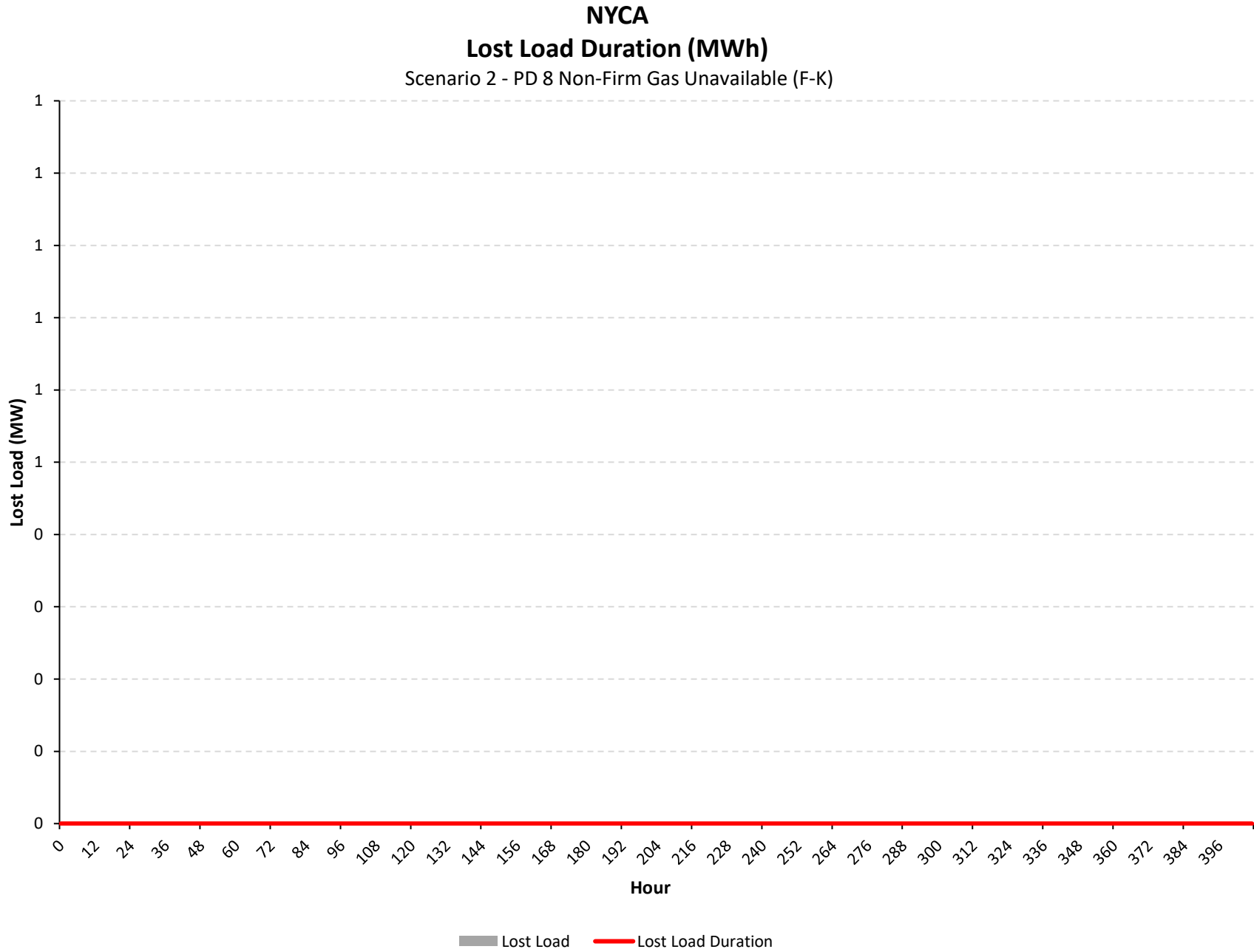


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 8 Non-Firm Gas Unavailable (F-K)



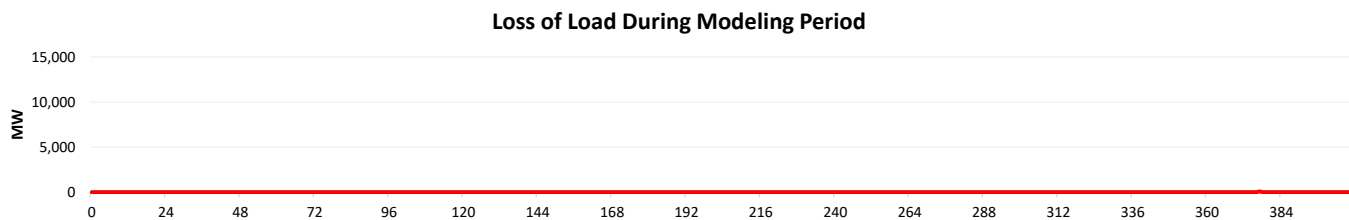
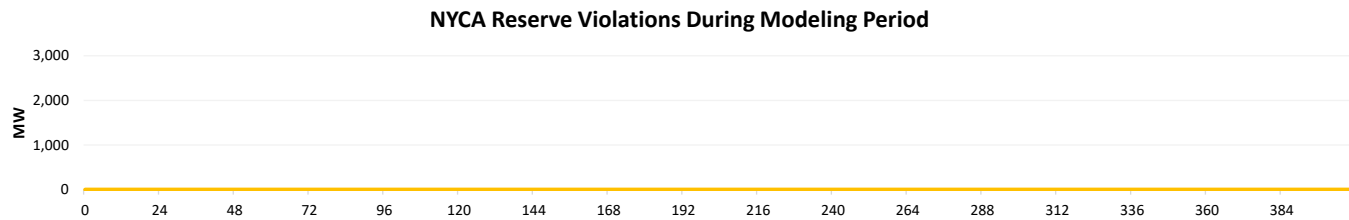
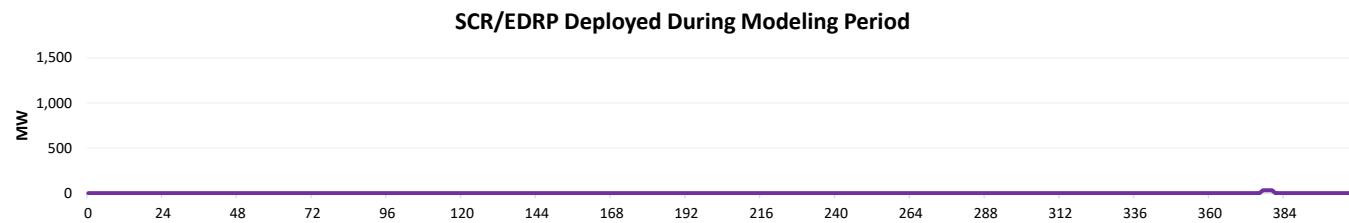
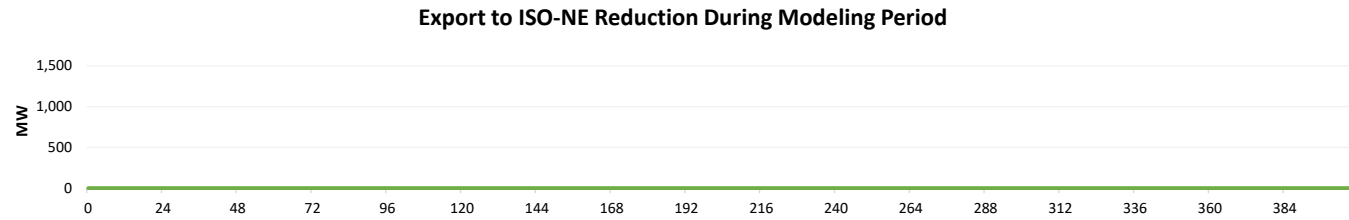
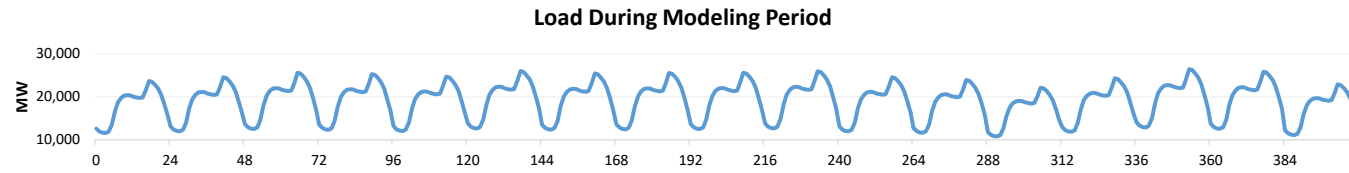


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 2 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

SCR Deployment	
Total Hrs.	4
Total MWh	128
Avg. MW	0.3

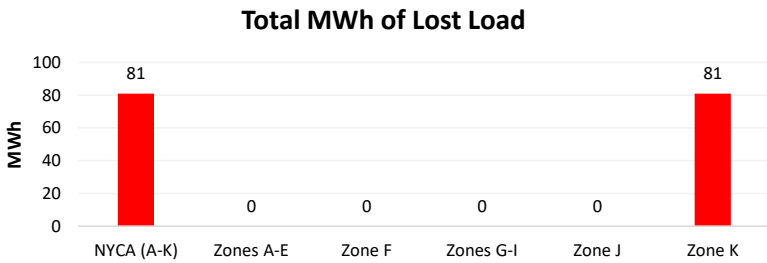
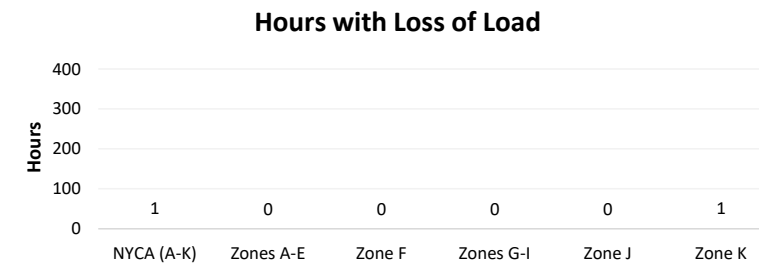
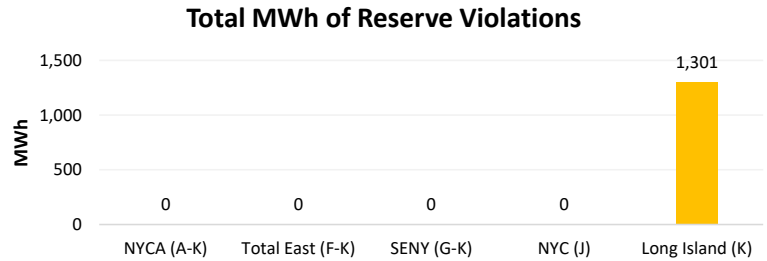
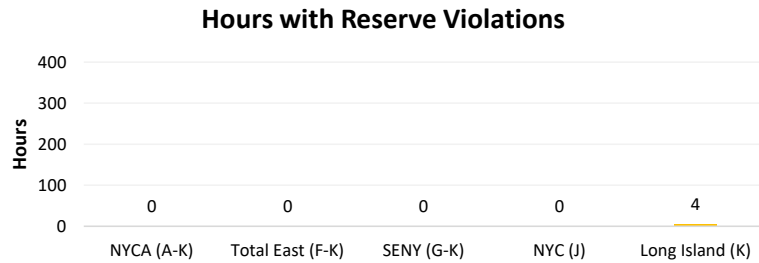
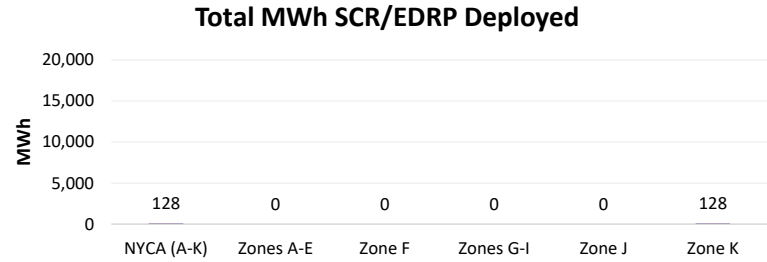
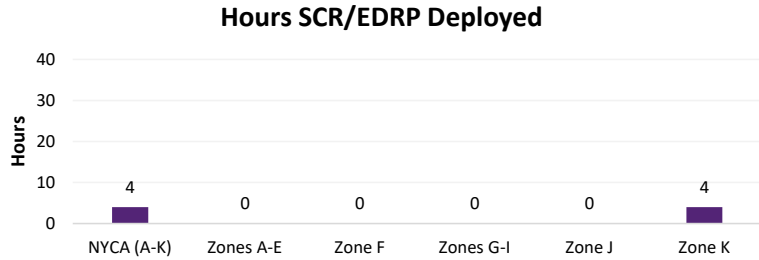
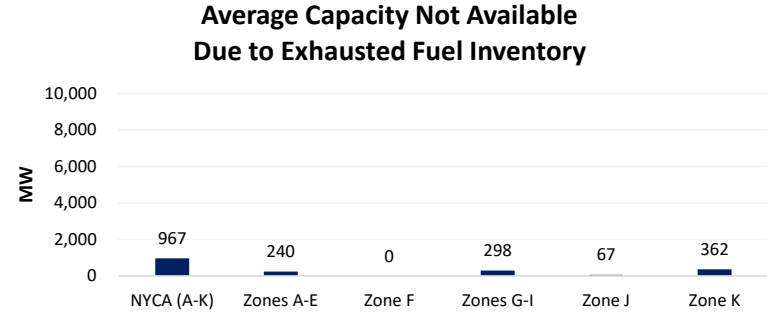
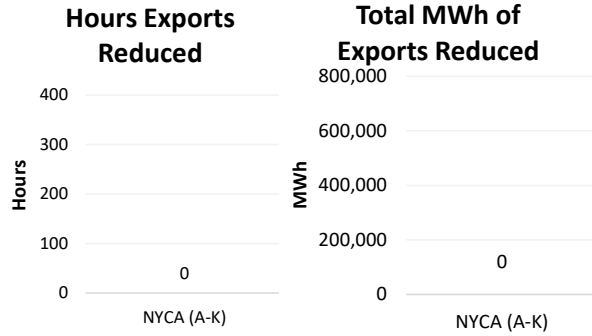
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	377
First Hour, Zone K	377

Loss of Load	
Total Hrs.	1
Total MWh	81
Avg. MW	0.2
First Hour with Losses	377
First Hour, Zone K	377

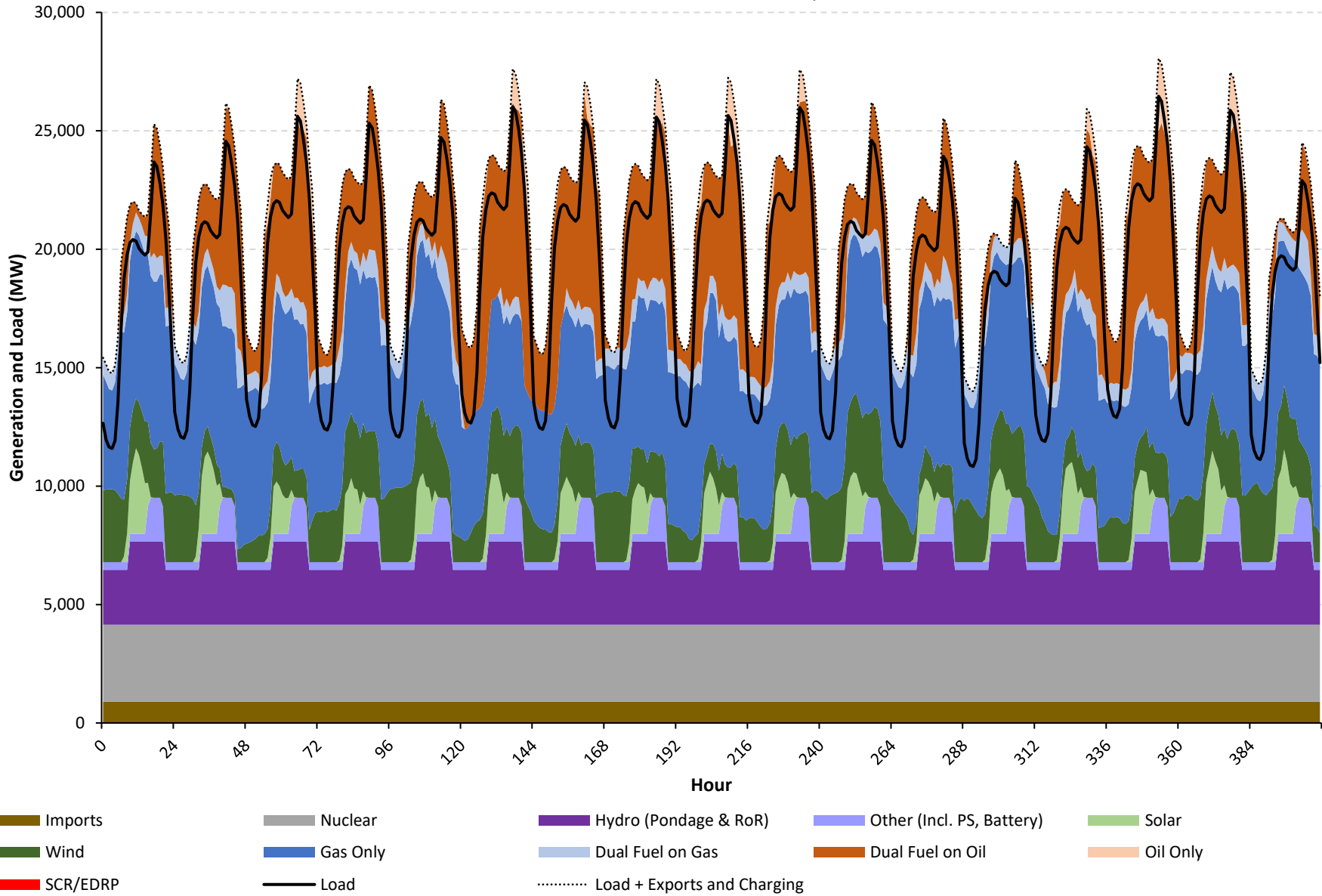
Full Period Results Summary

Case Name: Scenario 2 - PD 9 Low Fuel Inventory

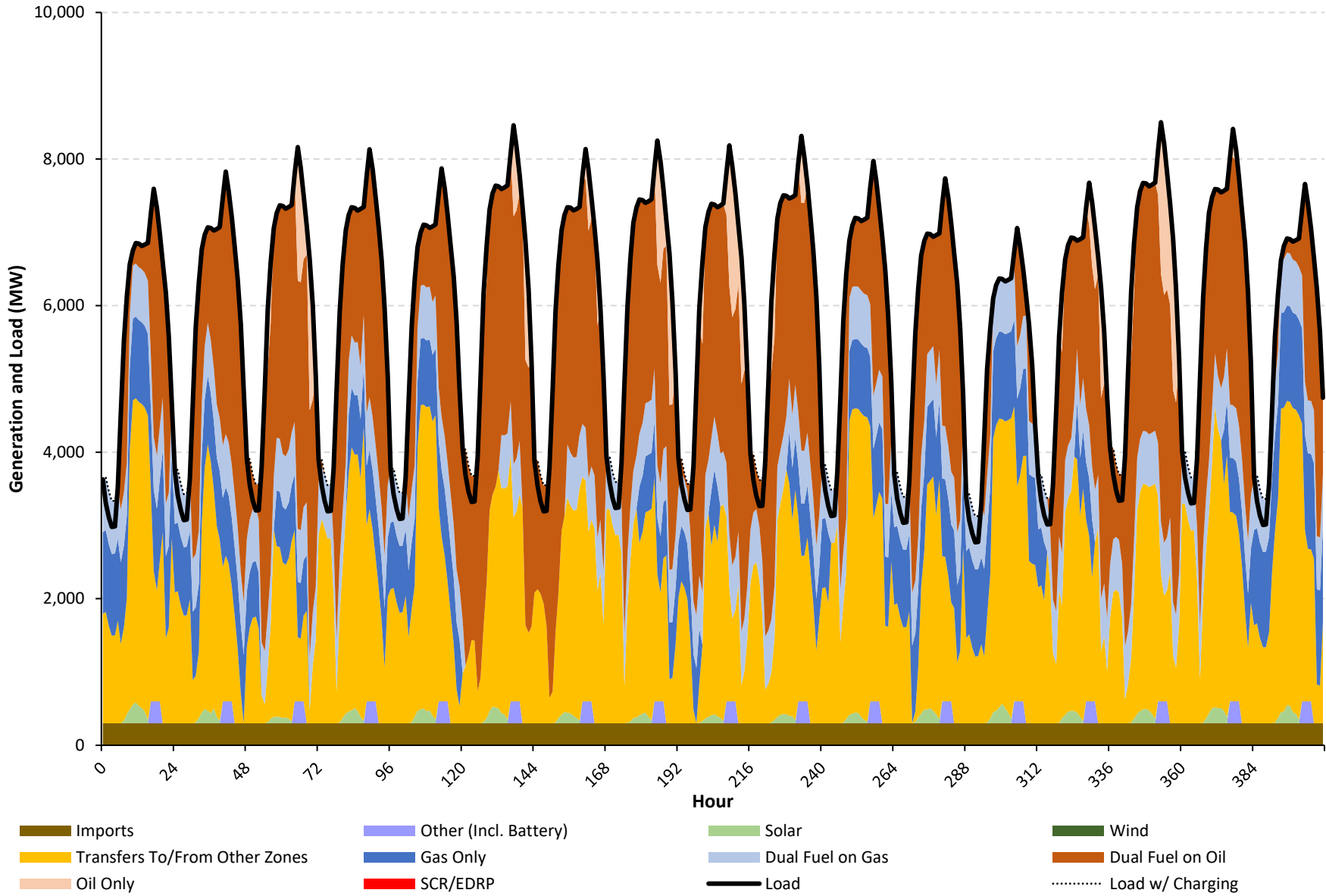
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



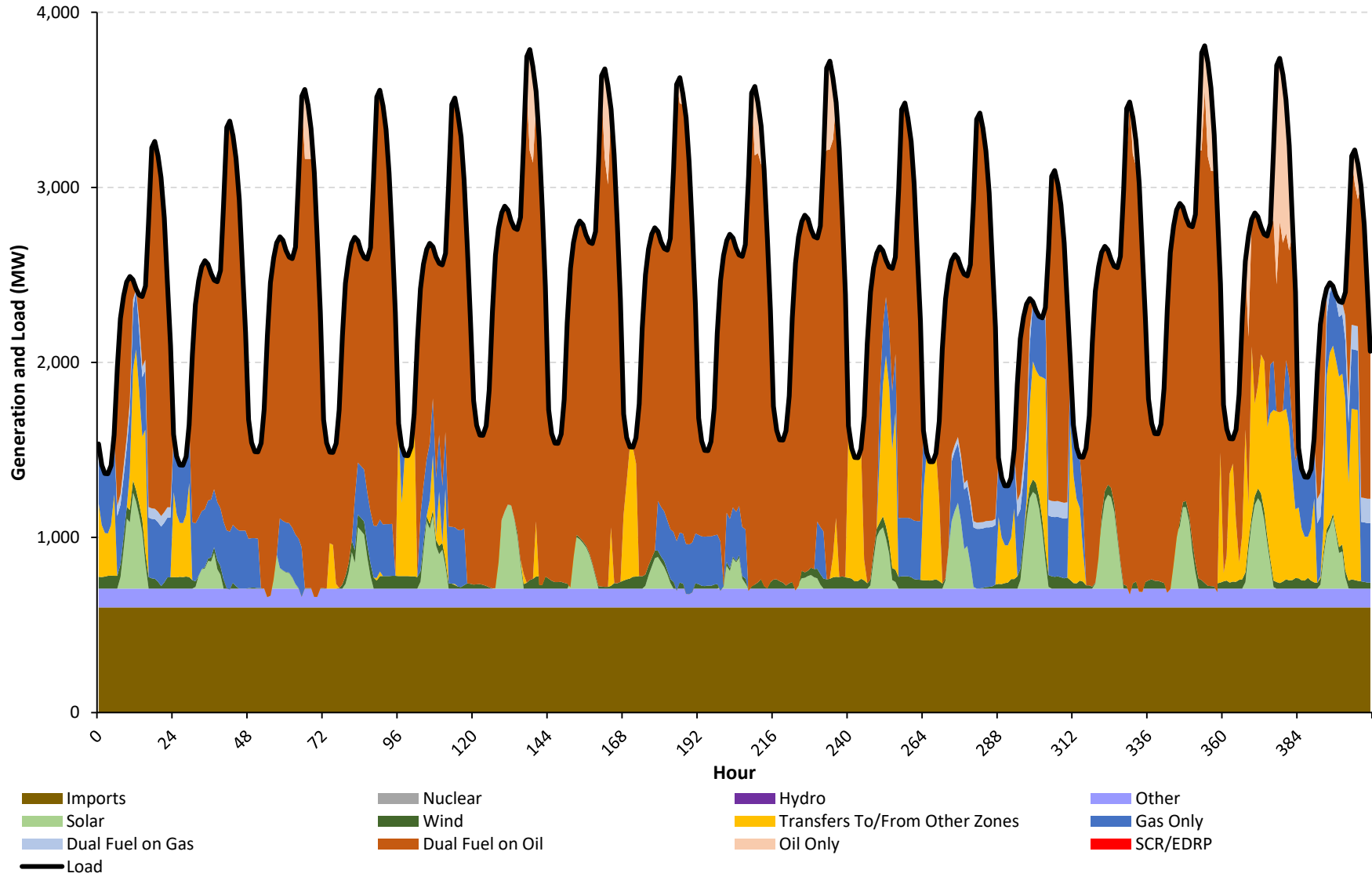
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 9 Low Fuel Inventory



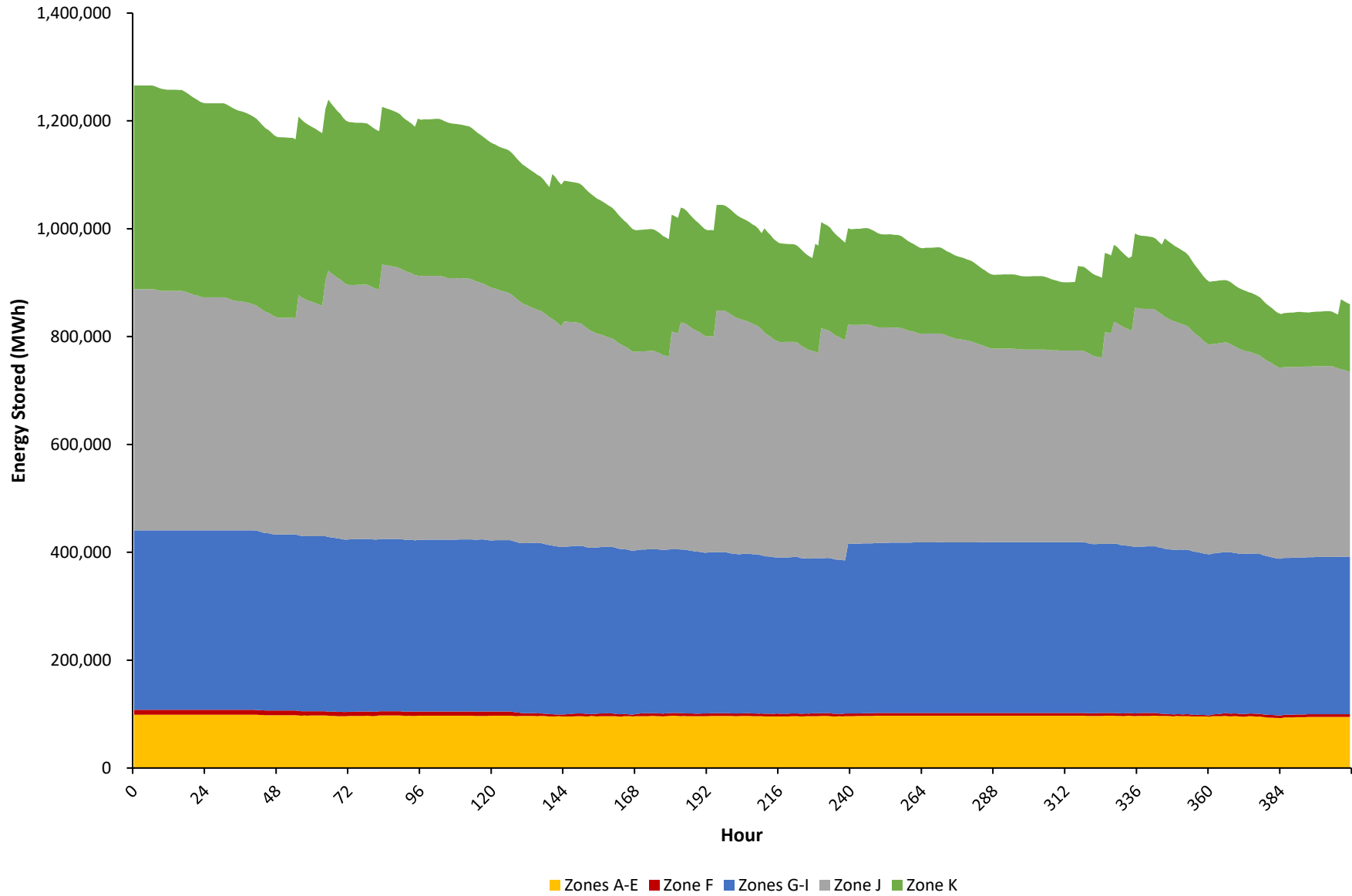
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 9 Low Fuel Inventory



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 9 Low Fuel Inventory

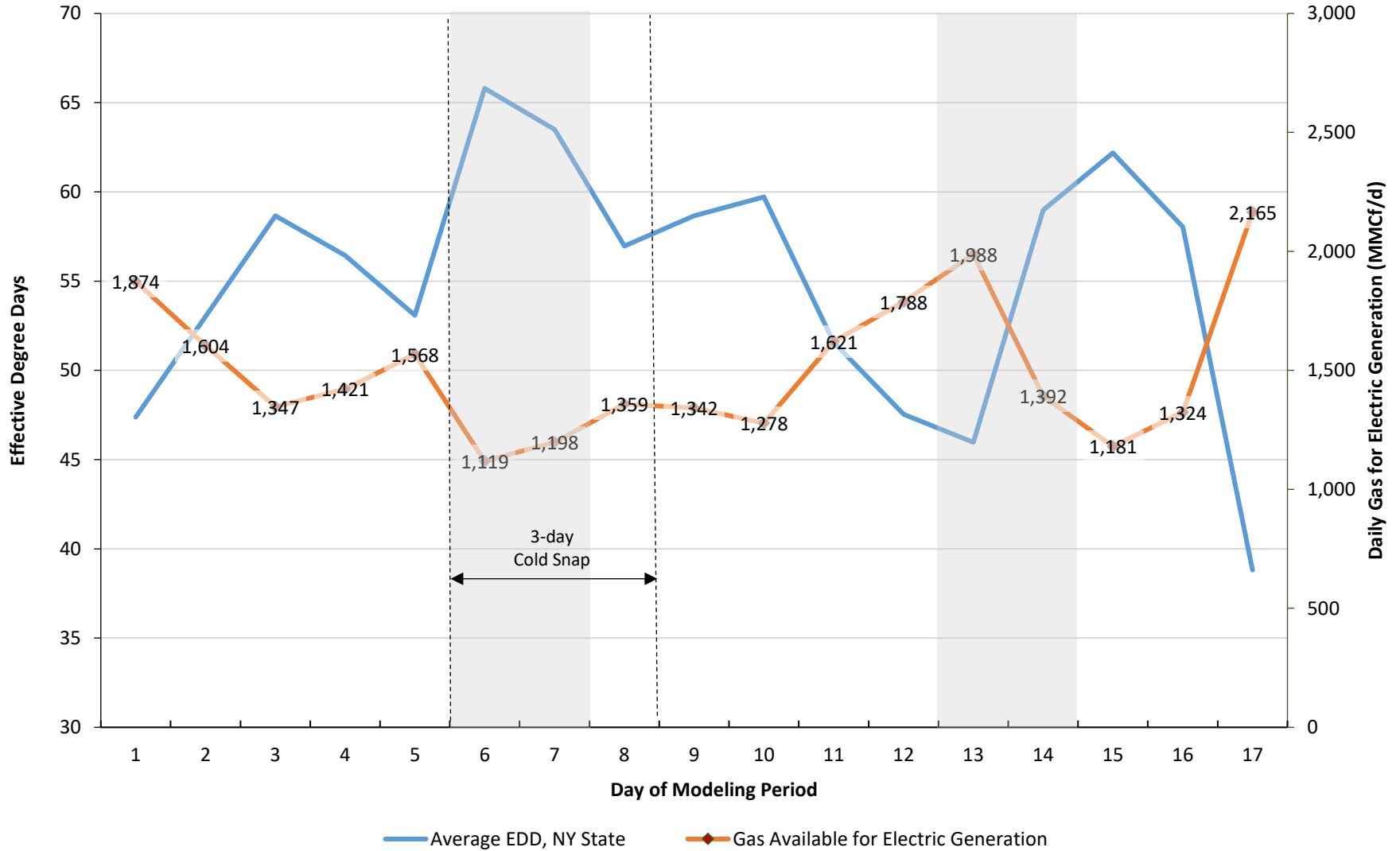


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 9 Low Fuel Inventory



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

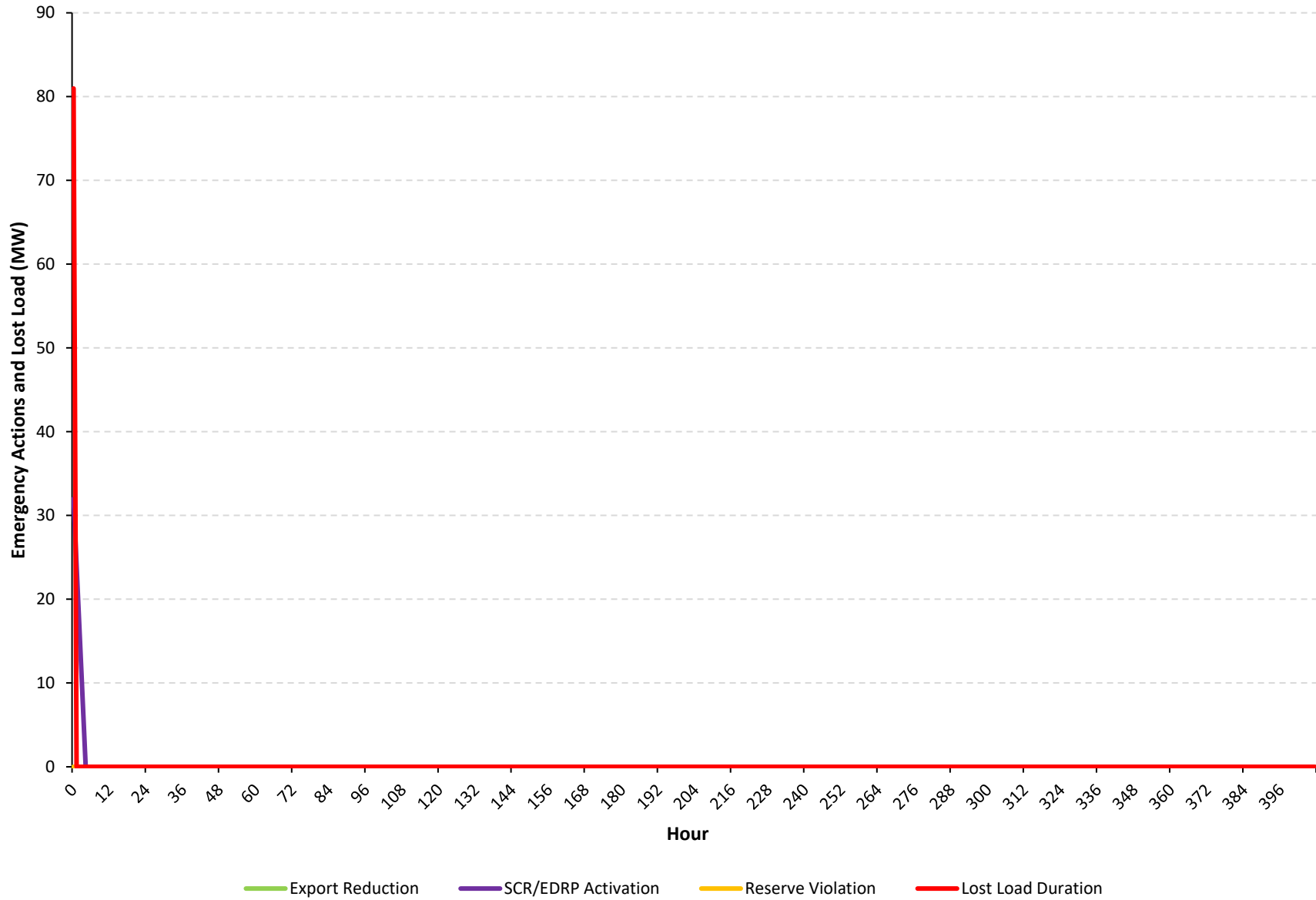
Scenario 2 - PD 9 Low Fuel Inventory

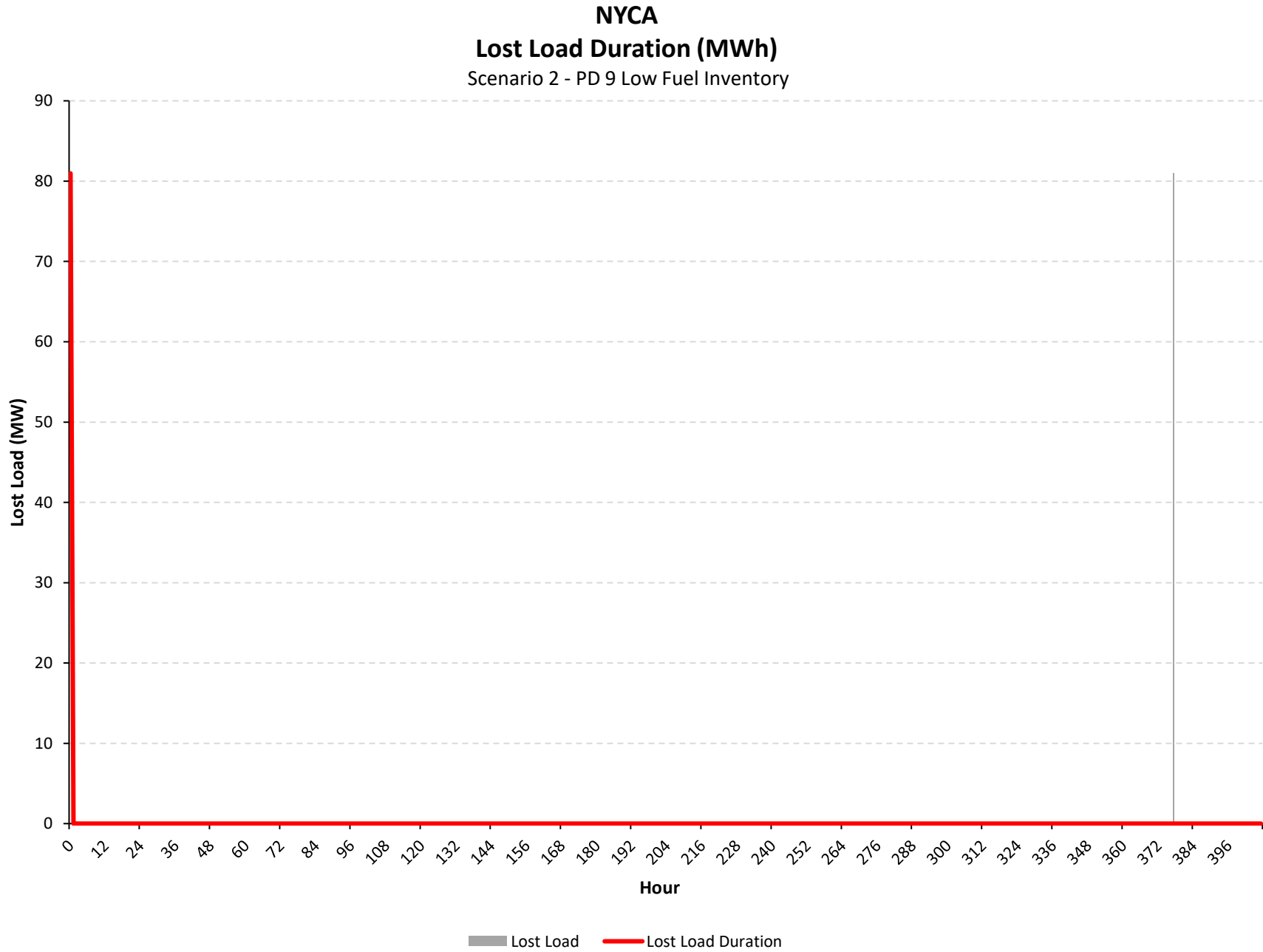


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 9 Low Fuel Inventory





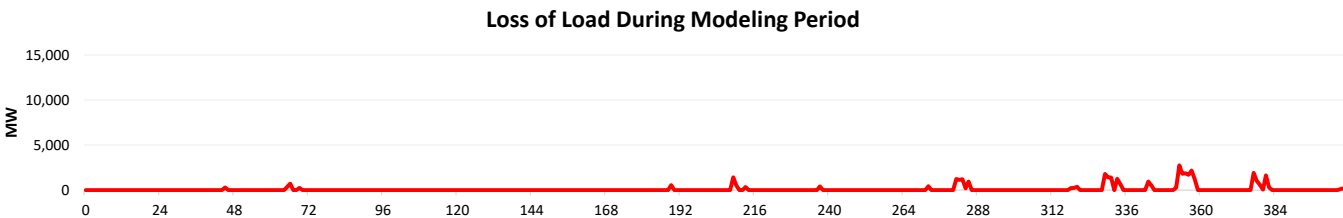
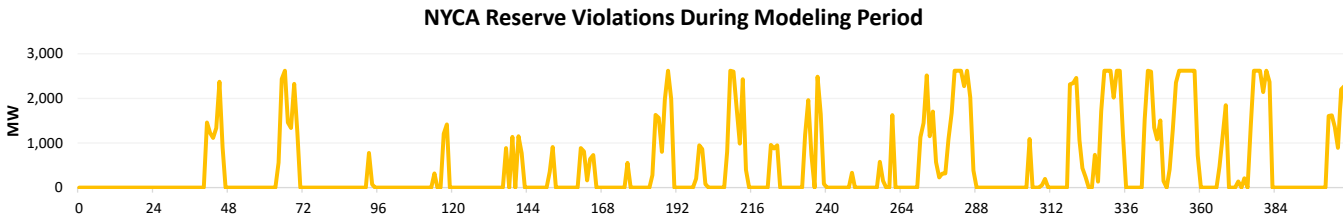
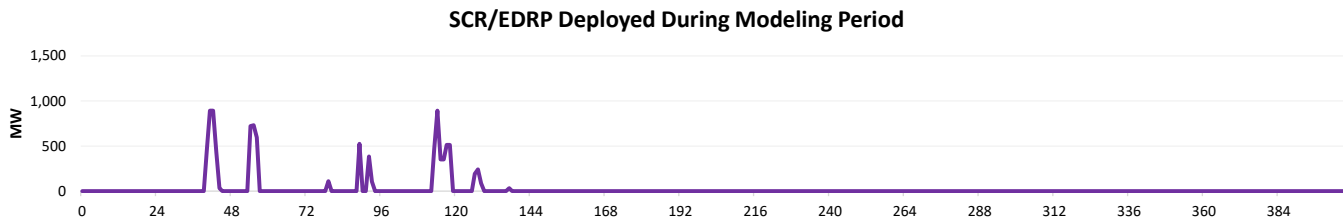
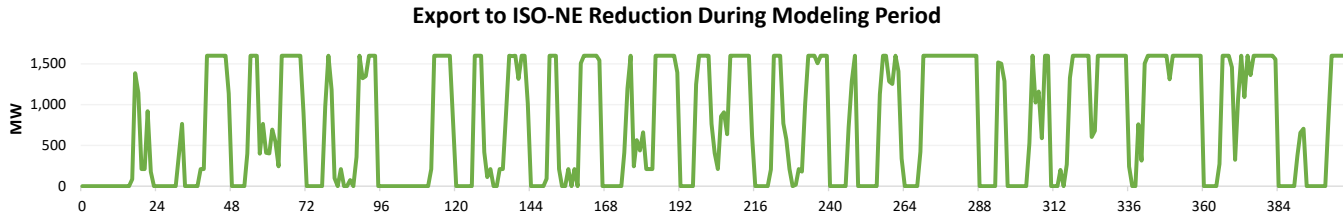
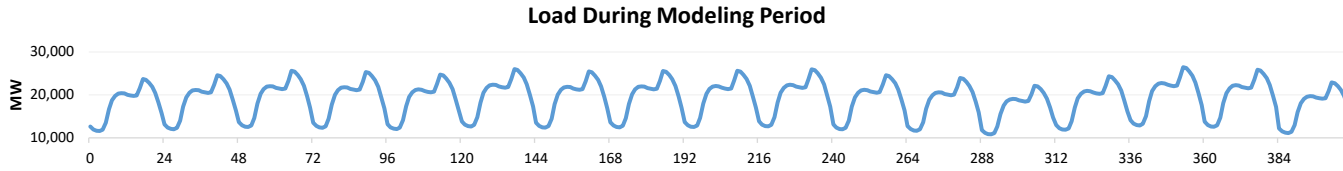
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	257
Total MWh	312,907
Avg. MW	766.9

SCR Deployment	
Total Hrs.	22
Total MWh	9,541
Avg. MW	23.4

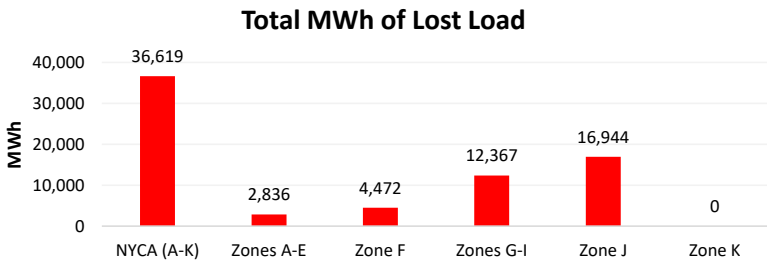
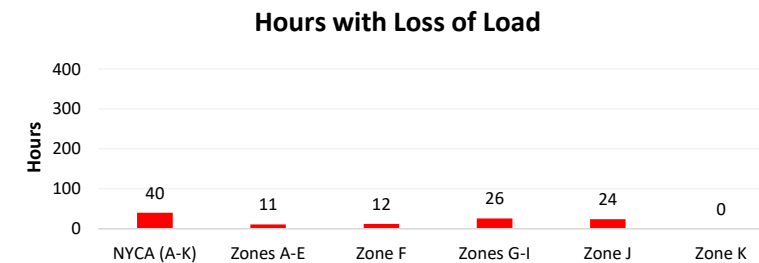
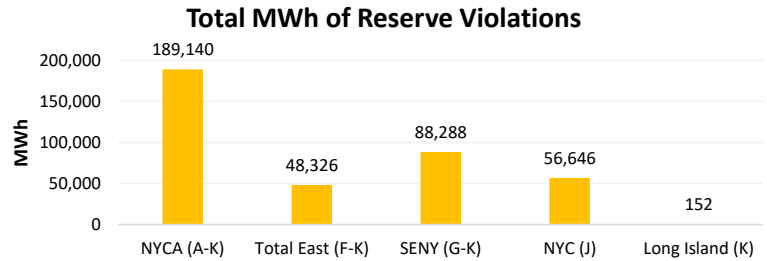
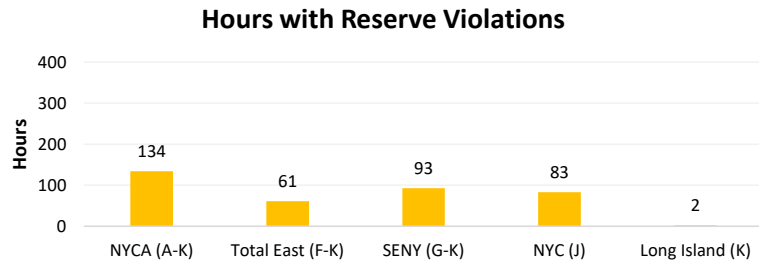
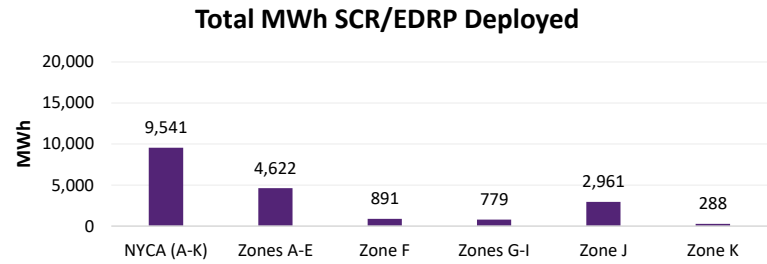
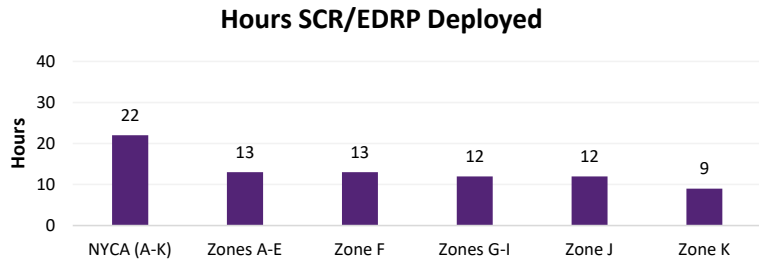
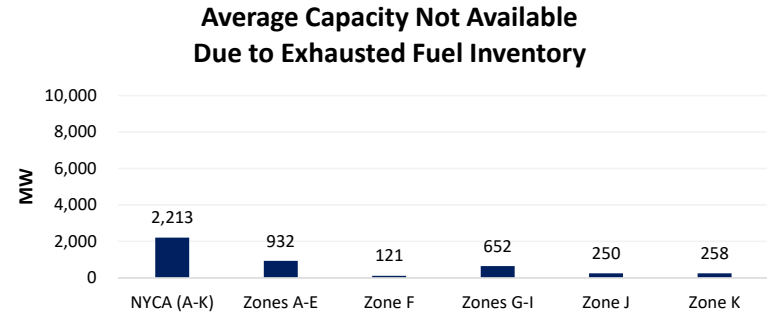
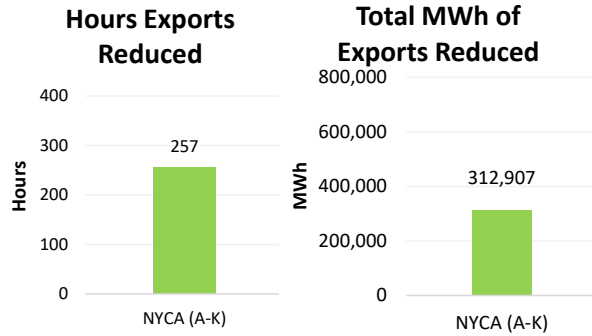
Reserve Violations	
Total Hrs.	134
Total MWh	189,140
Avg. MW	463.6
First Hour with Viol.	41
First Hour, Zone K	353

Loss of Load	
Total Hrs.	40
Total MWh	36,619
Avg. MW	89.8
First Hour with Losses	45
First Hour, Zone K	353

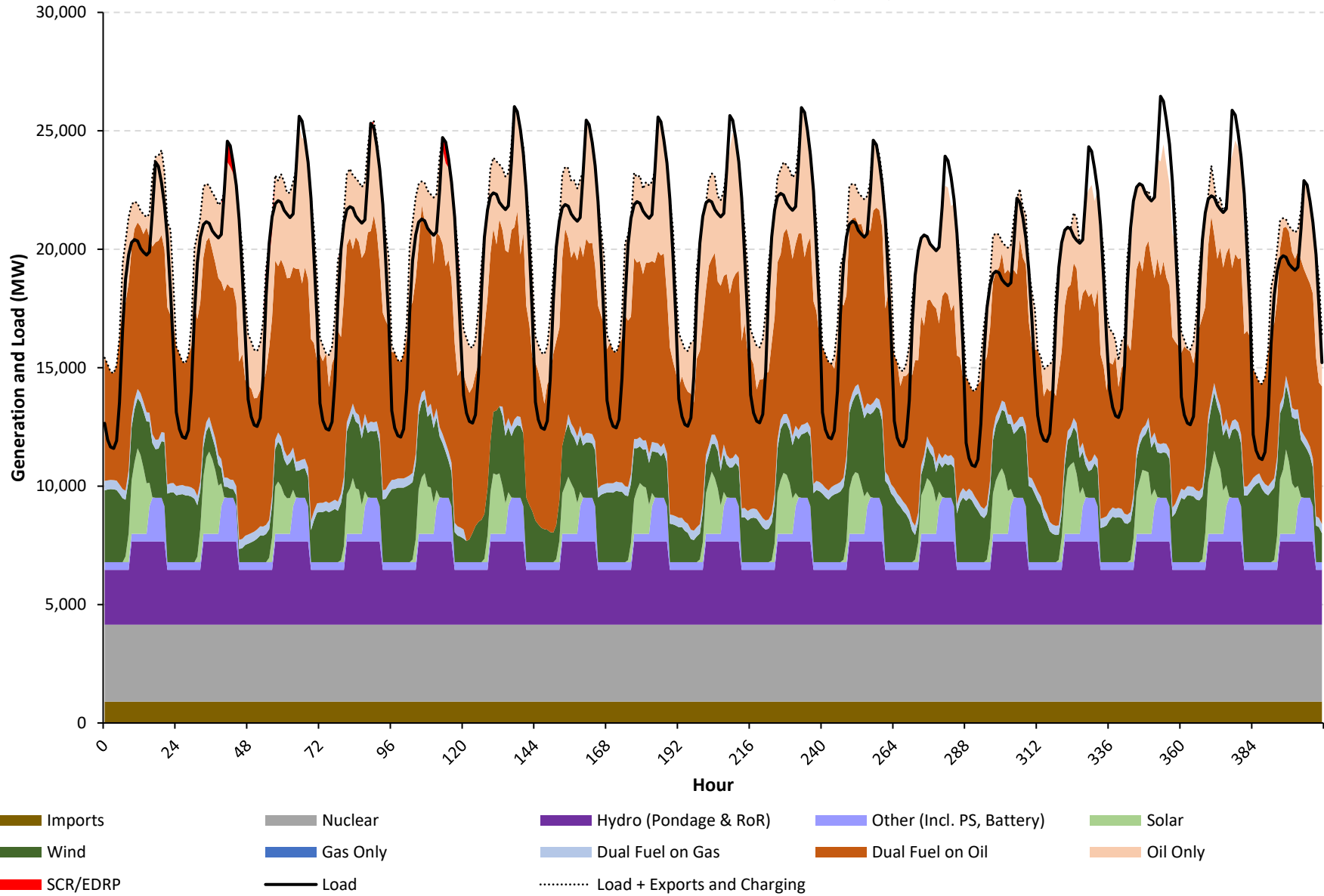
Full Period Results Summary

Case Name: Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)

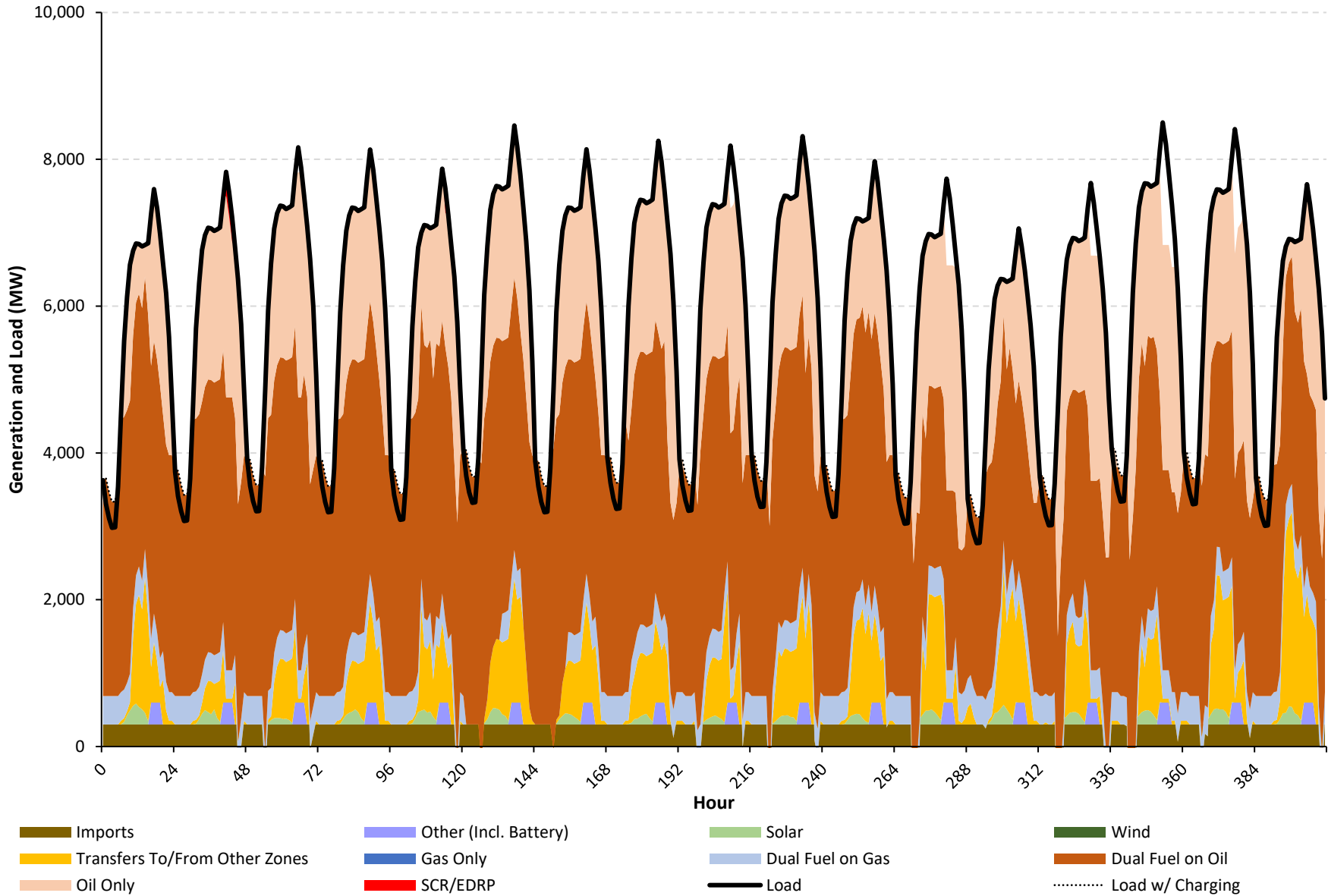
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



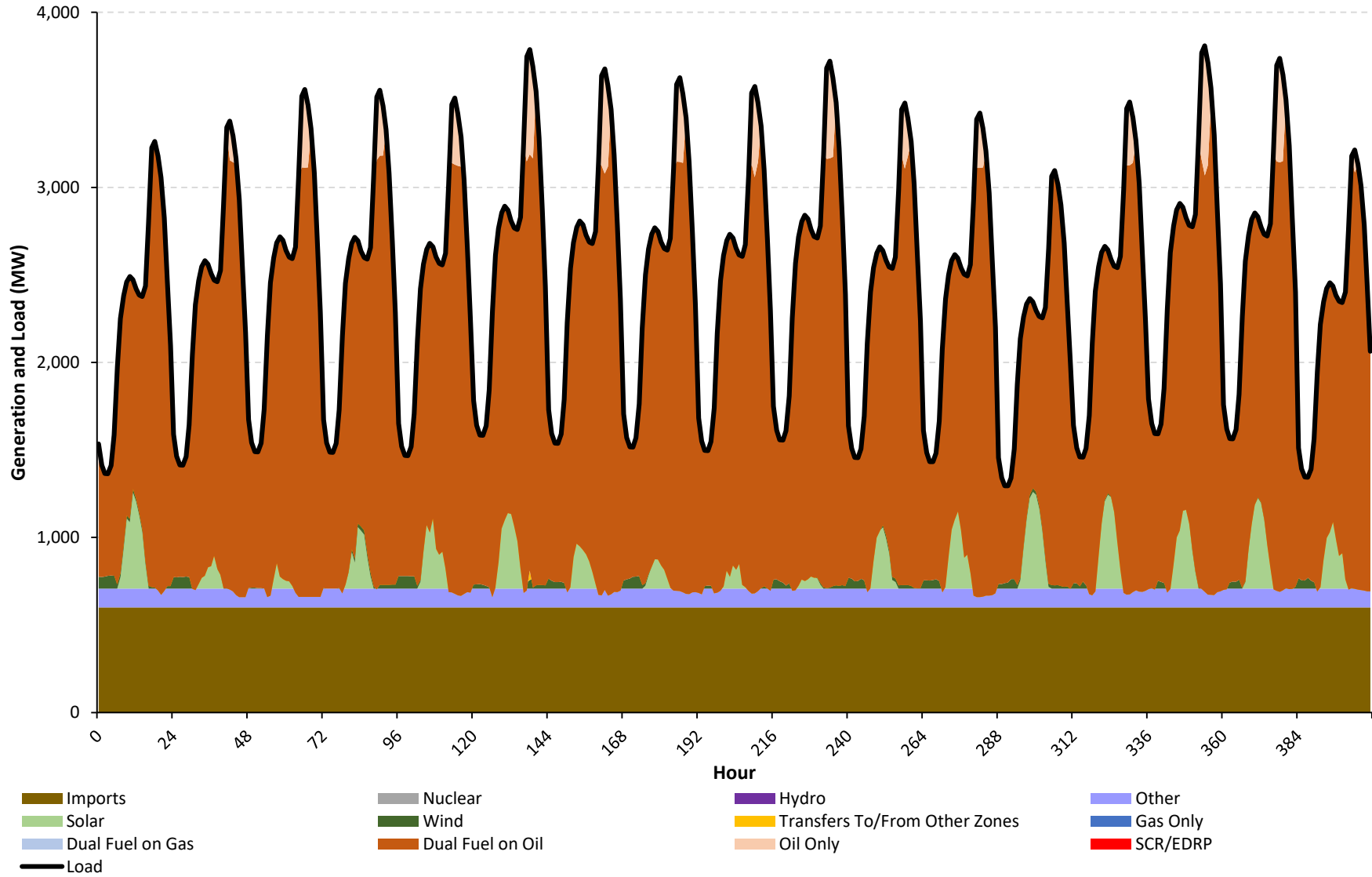
NYCA Hourly Generation (MWh) by Fuel Group Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



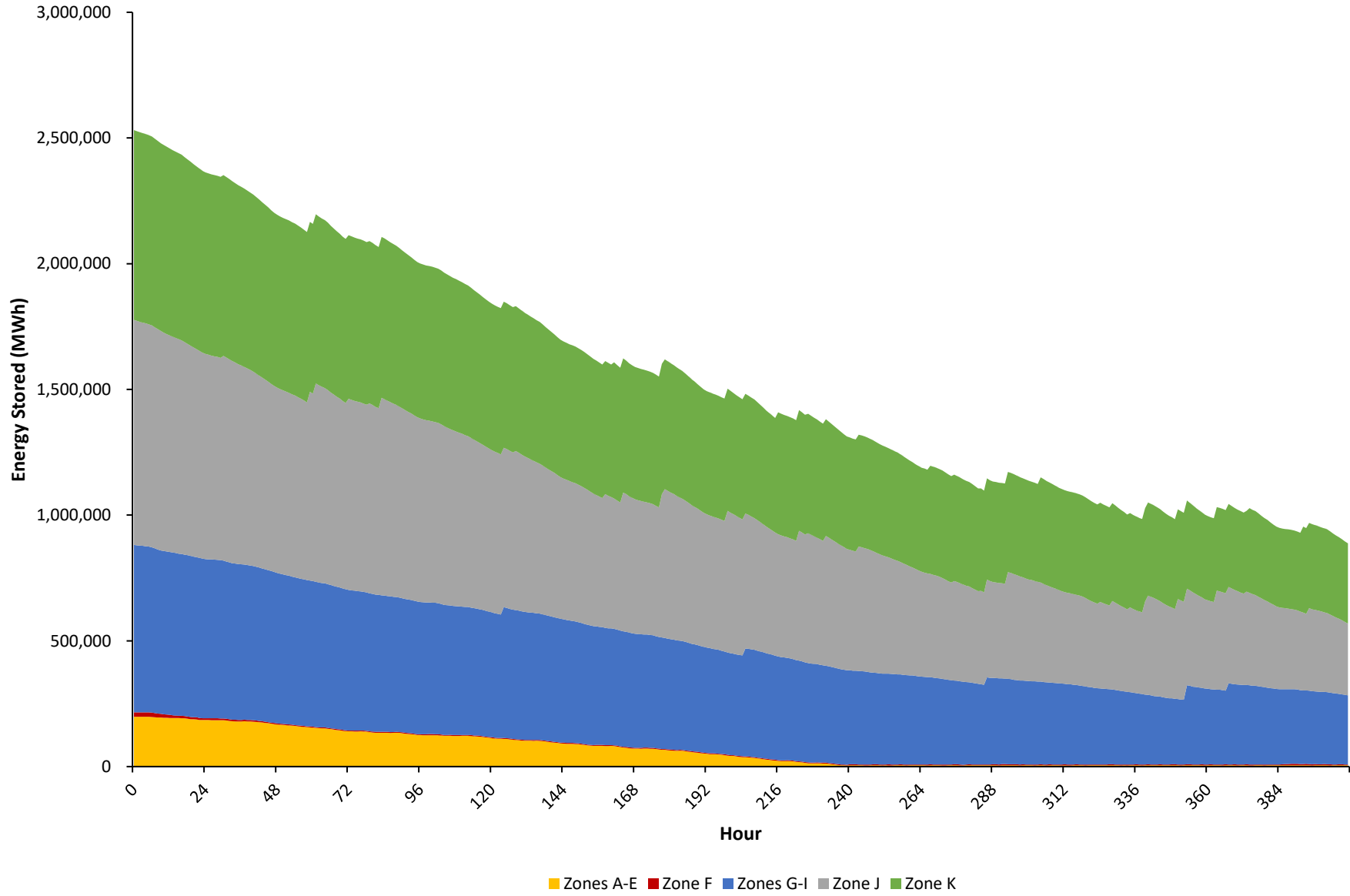
Zone J Hourly Generation (MW) by Fuel Group Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)

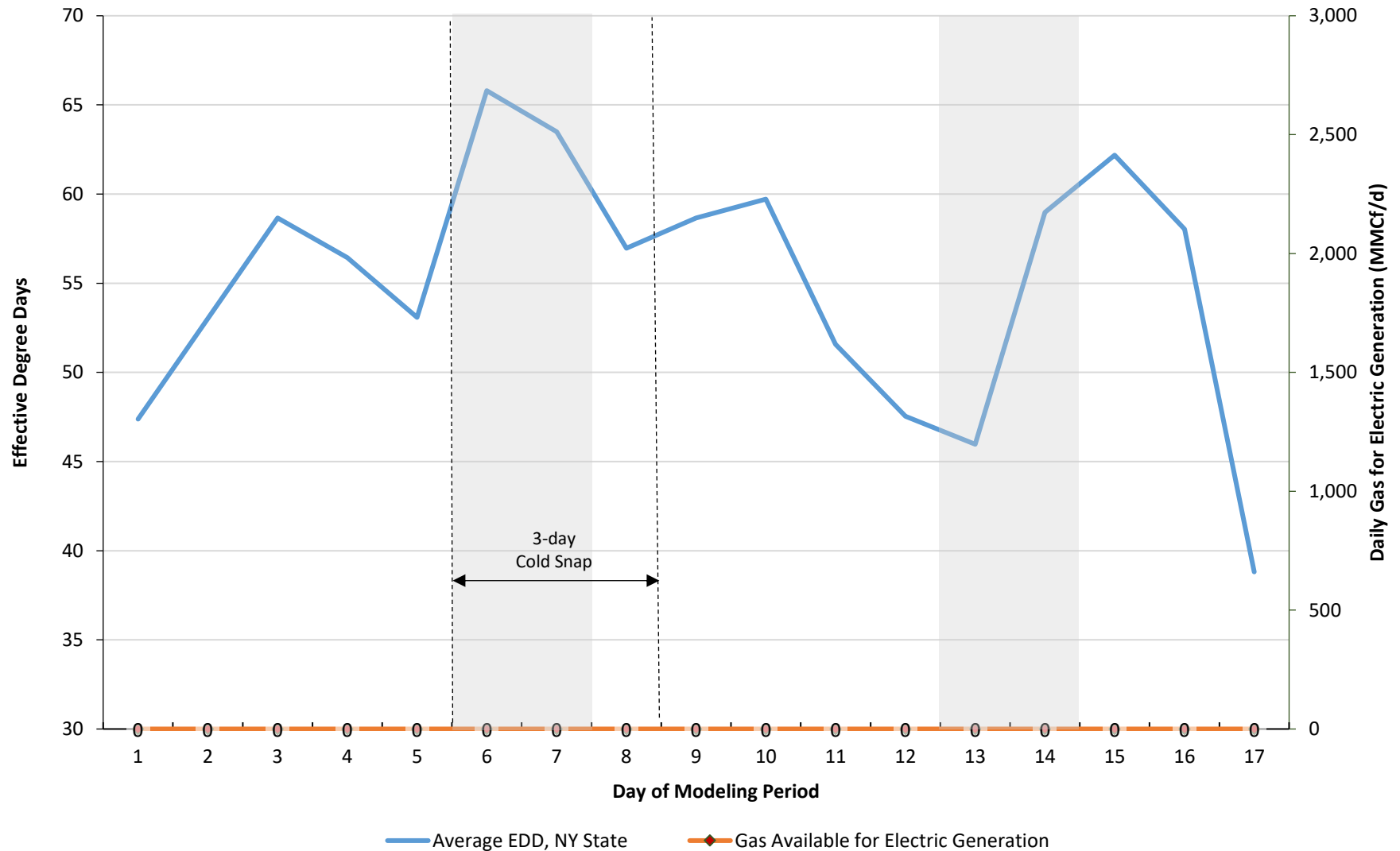


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

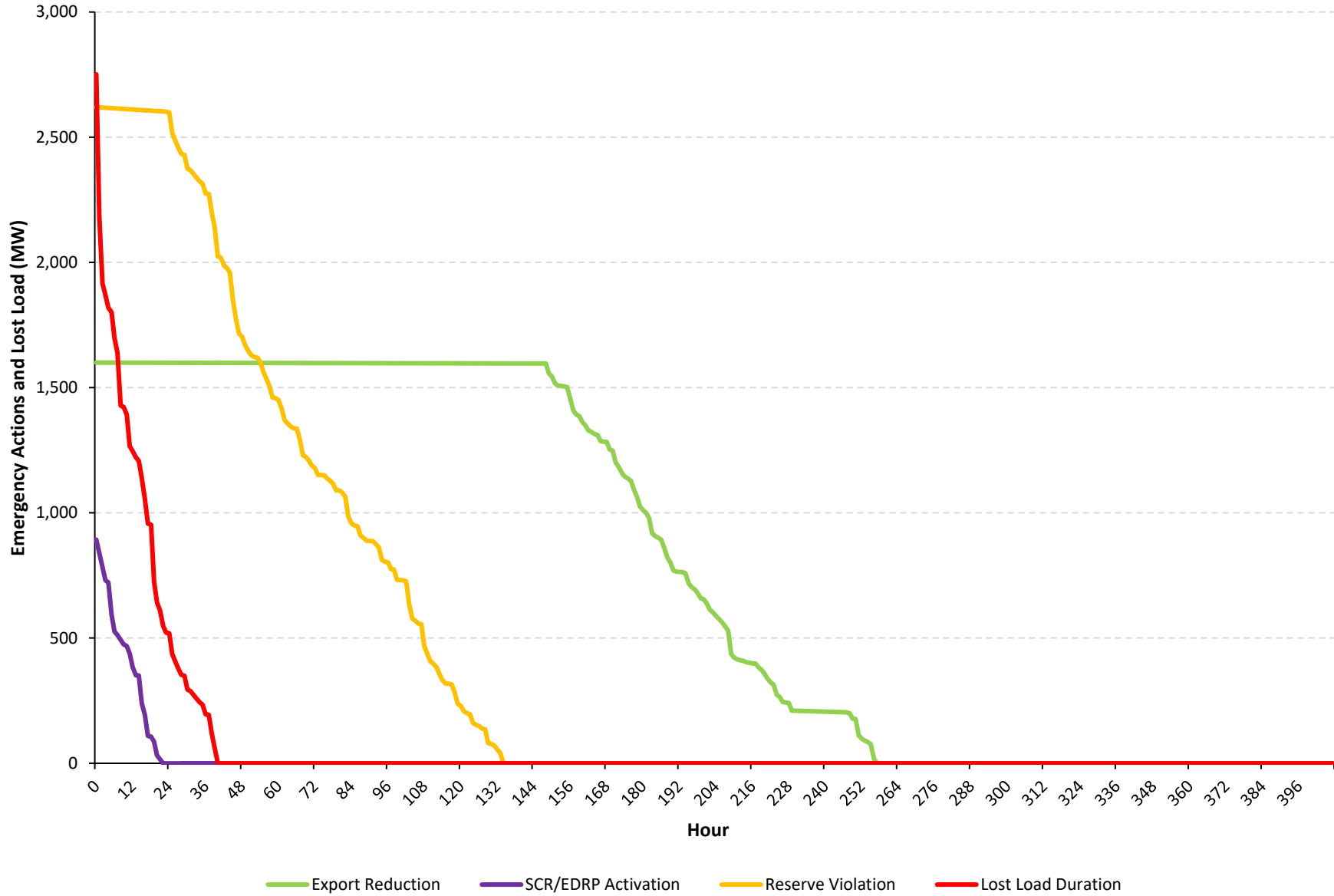
Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 2 - PD 10 Non-Firm Gas Unavailable (NYCA)



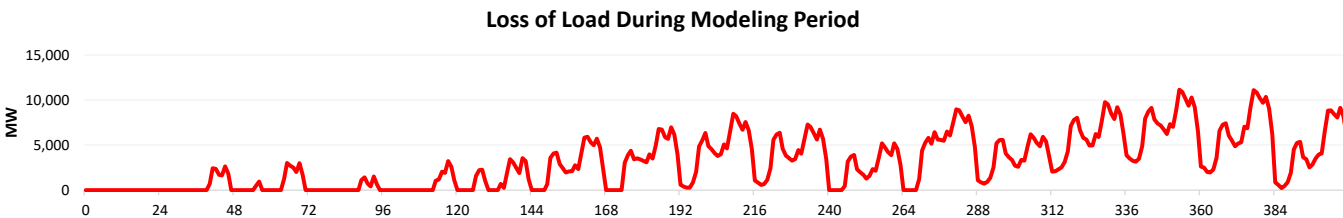
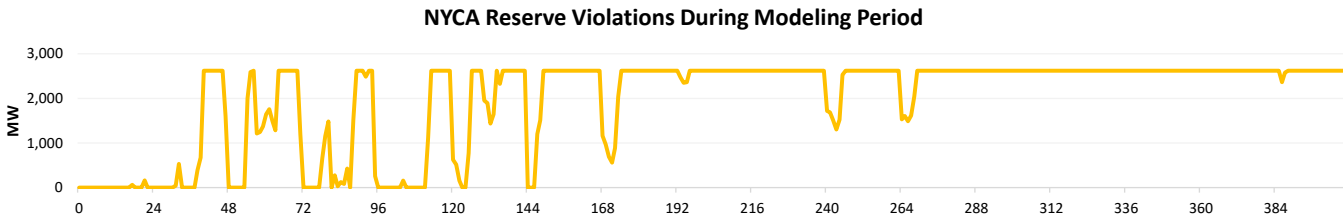
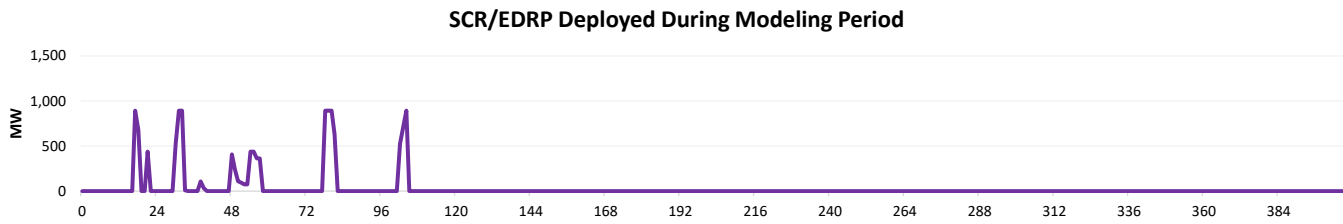
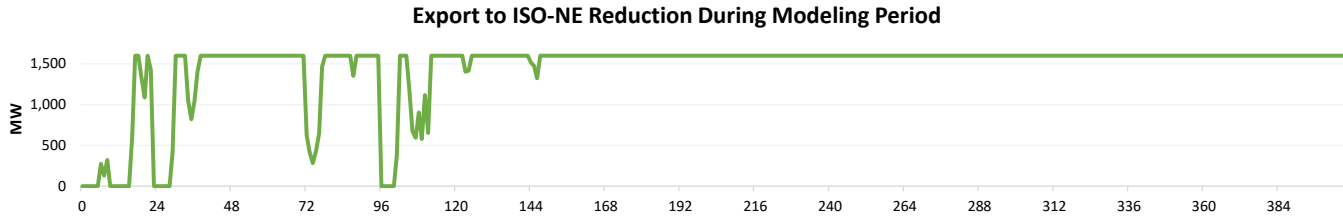
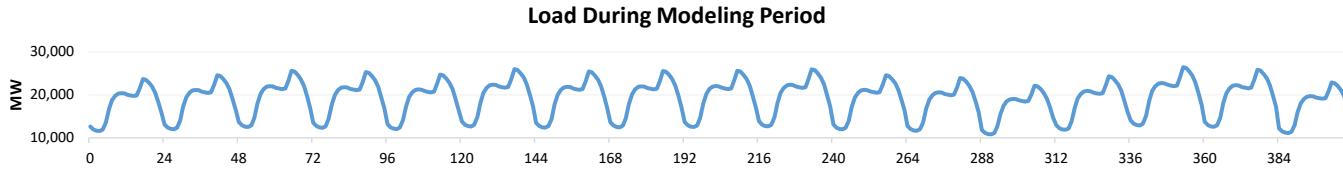
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	384
Total MWh	591,544
Avg. MW	1,449.9

SCR Deployment	
Total Hrs.	26
Total MWh	12,517
Avg. MW	30.7

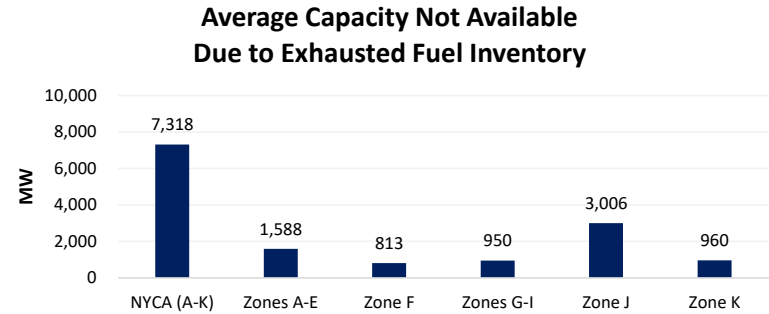
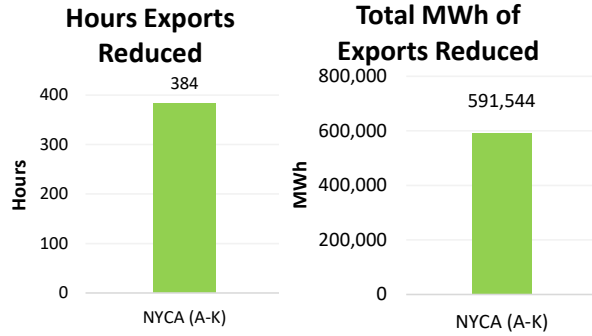
Reserve Violations	
Total Hrs.	340
Total MWh	805,757
Avg. MW	1,974.9
First Hour with Viol.	17
First Hour, Zone K	65

Loss of Load	
Total Hrs.	286
Total MWh	1,286,291
Avg. MW	3,152.7
First Hour with Losses	40
First Hour, Zone K	235

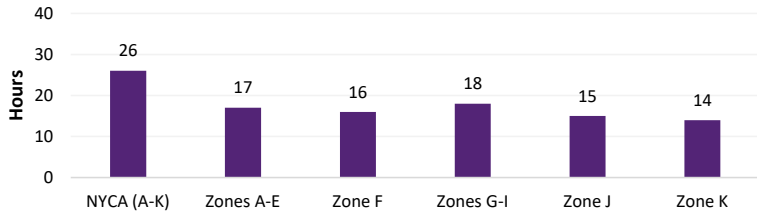
Full Period Results Summary

Case Name: Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

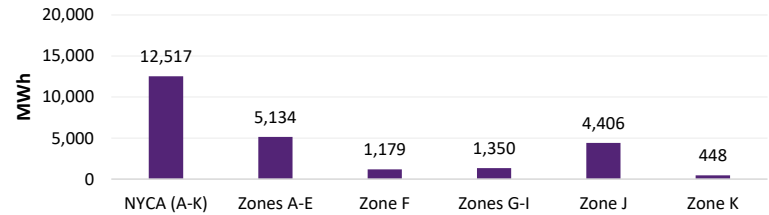
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



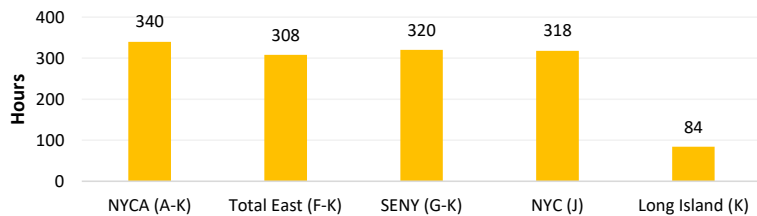
Hours SCR/EDRP Deployed



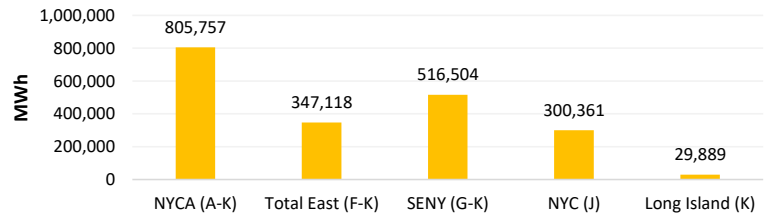
Total MWh SCR/EDRP Deployed



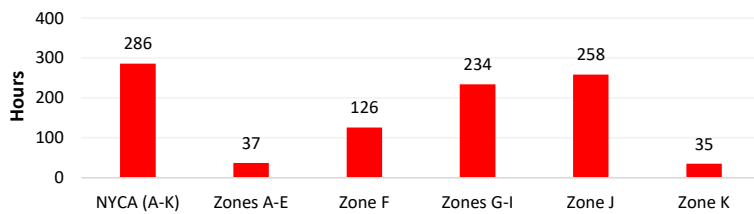
Hours with Reserve Violations



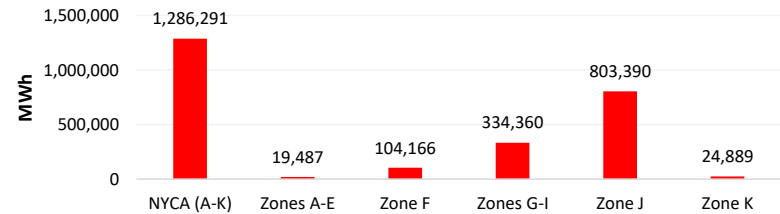
Total MWh of Reserve Violations



Hours with Loss of Load



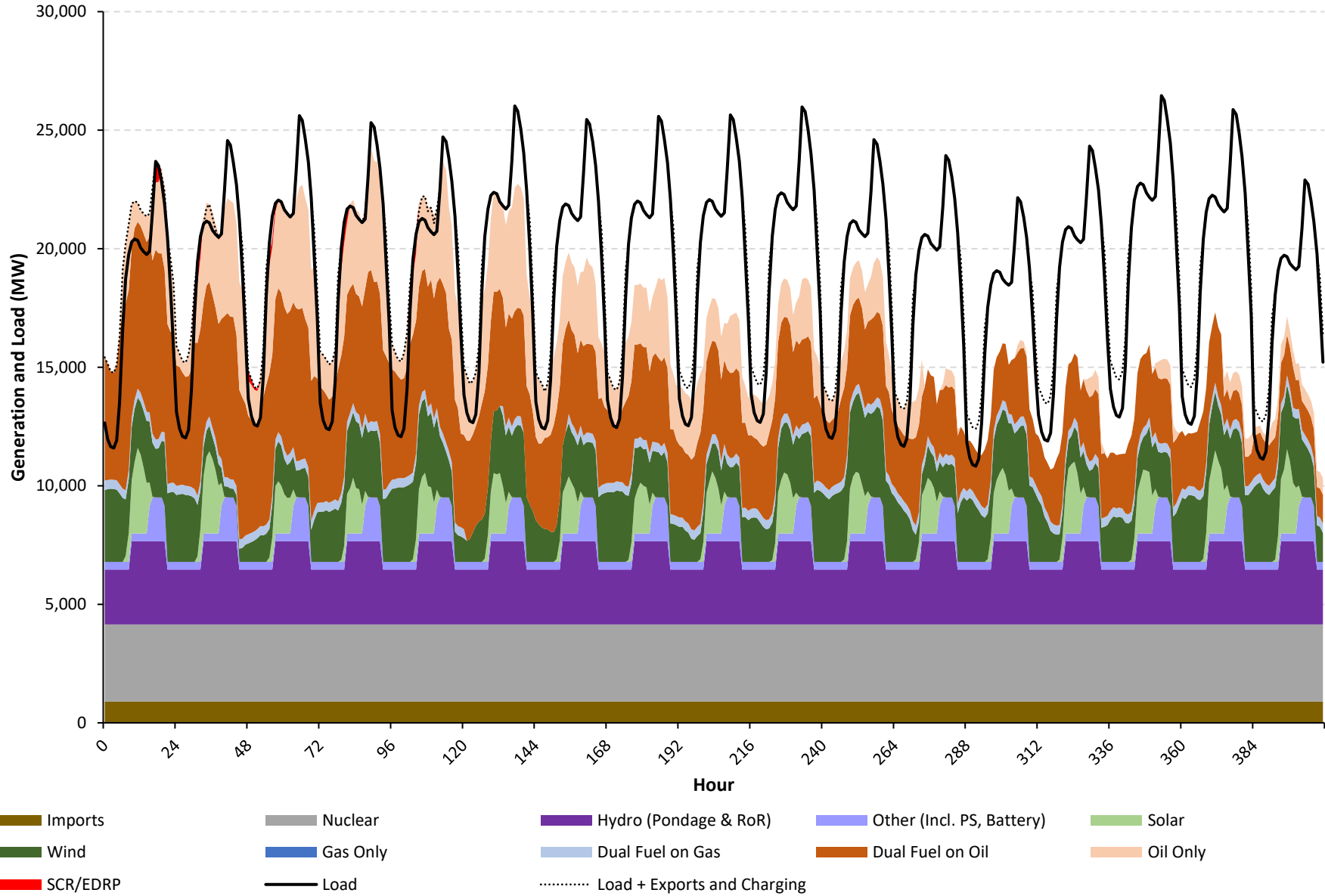
Total MWh of Lost Load



NYCA

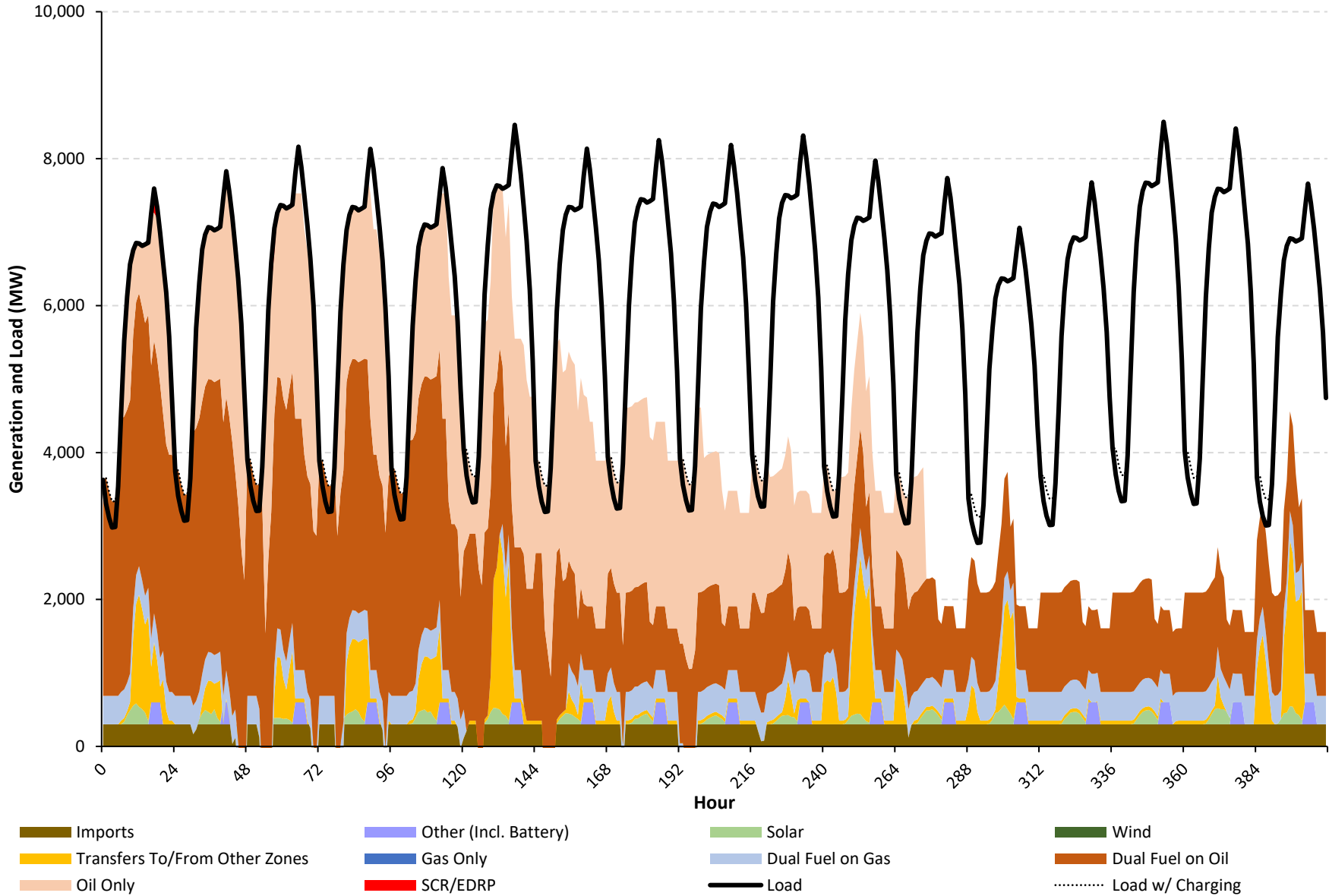
Hourly Generation (MWh) by Fuel Group

Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



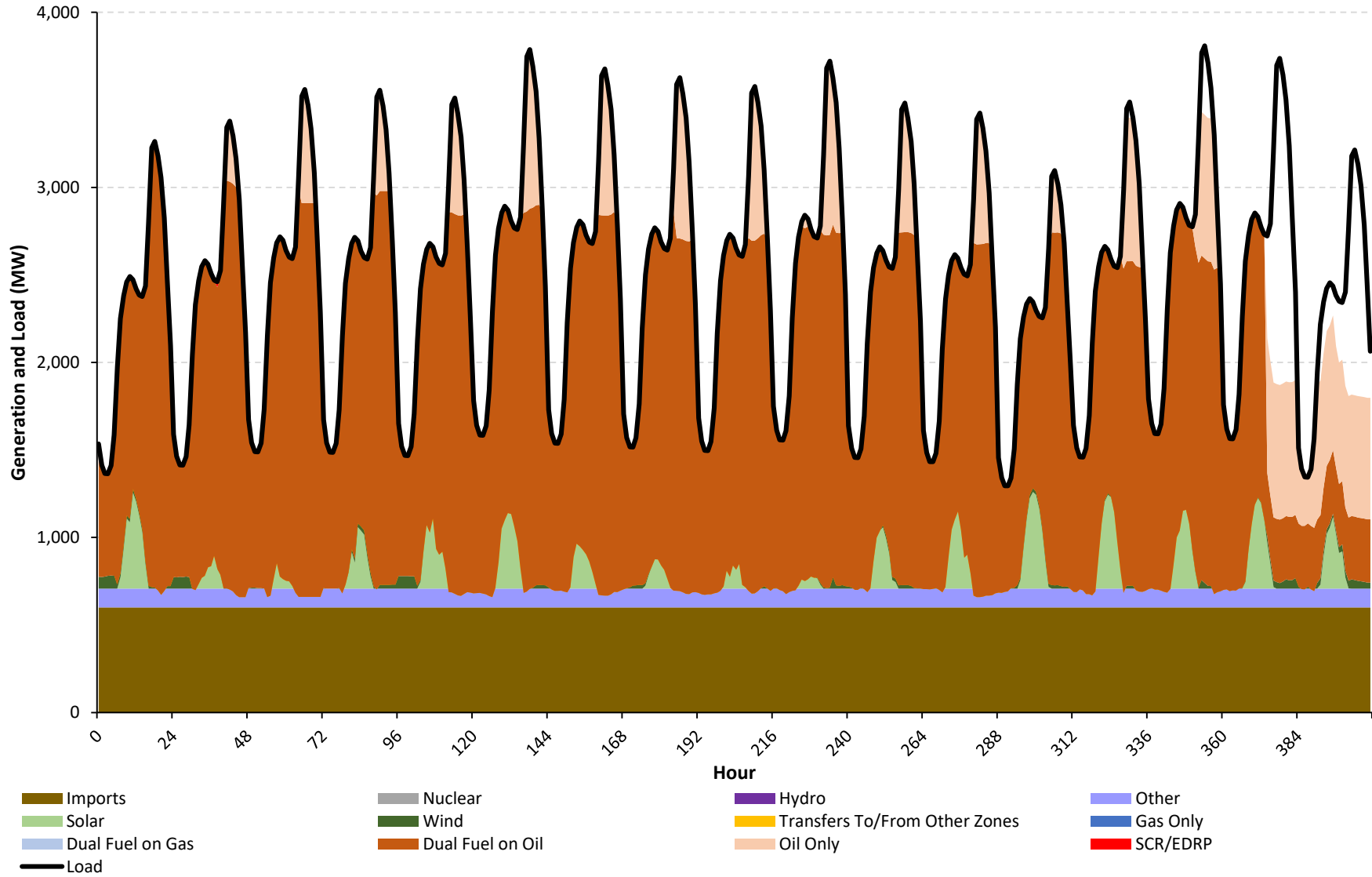
Zone J Hourly Generation (MW) by Fuel Group

Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

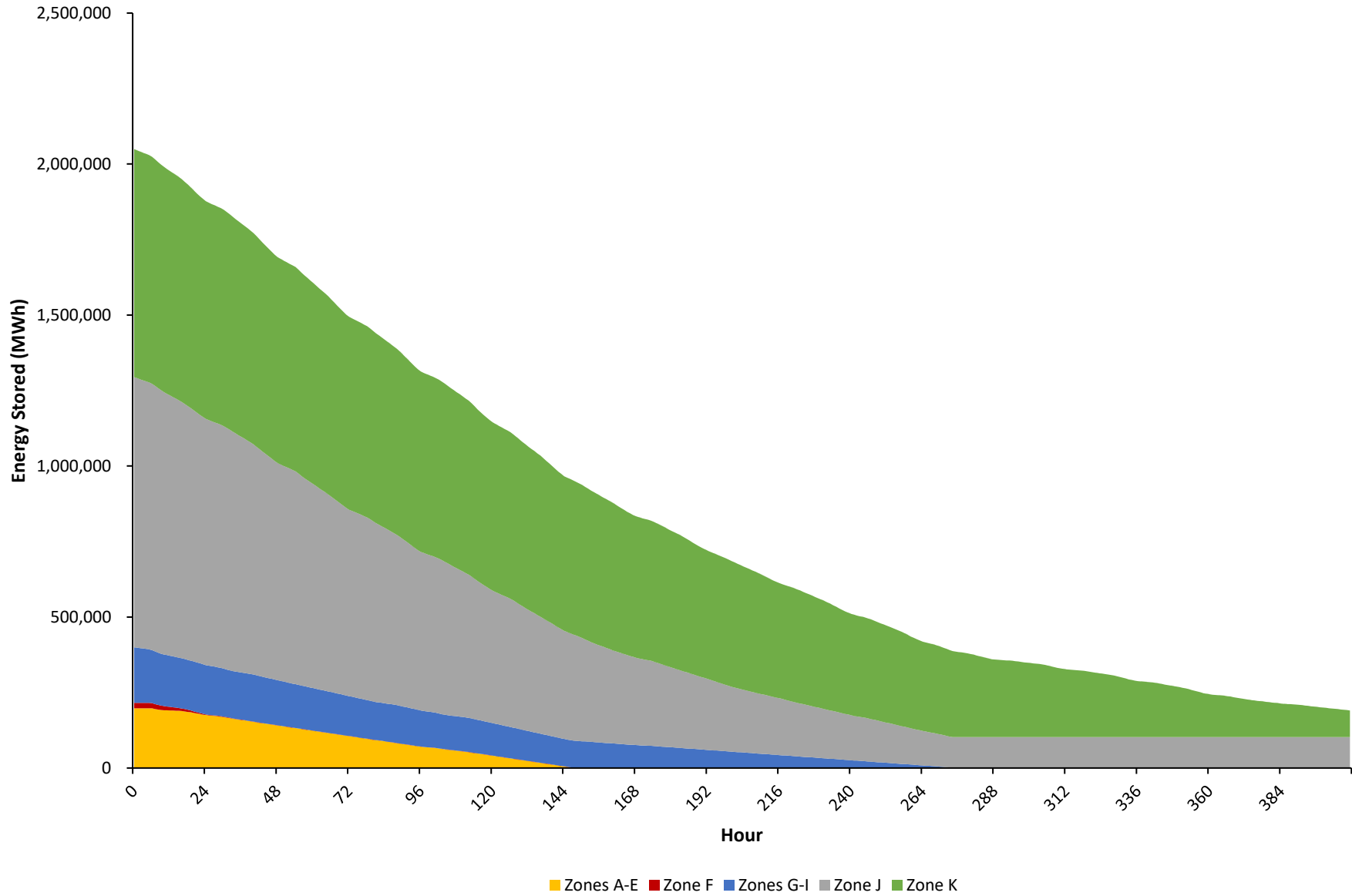


Zone K Hourly Generation (MW) by Fuel Group

Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

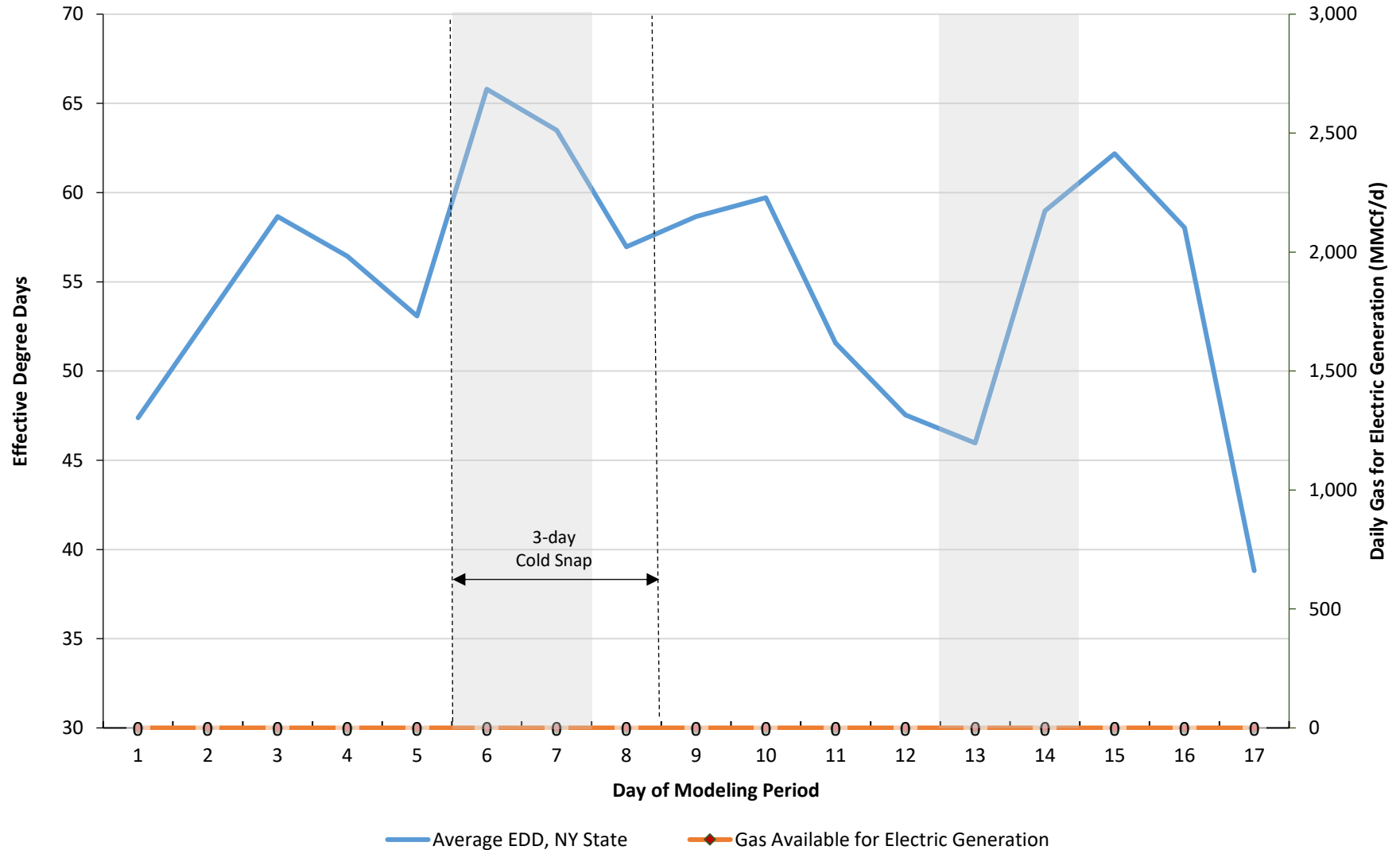


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

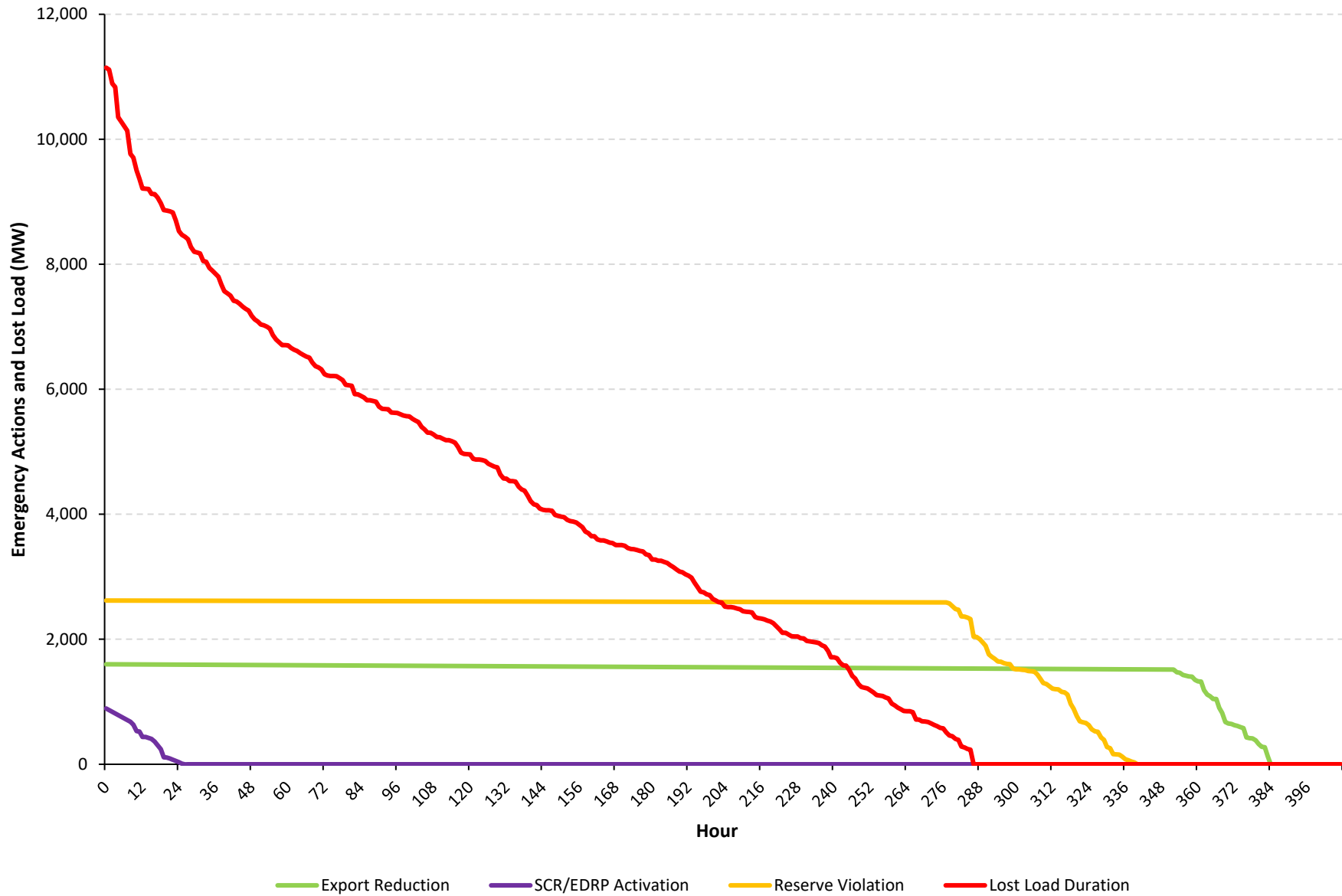
Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

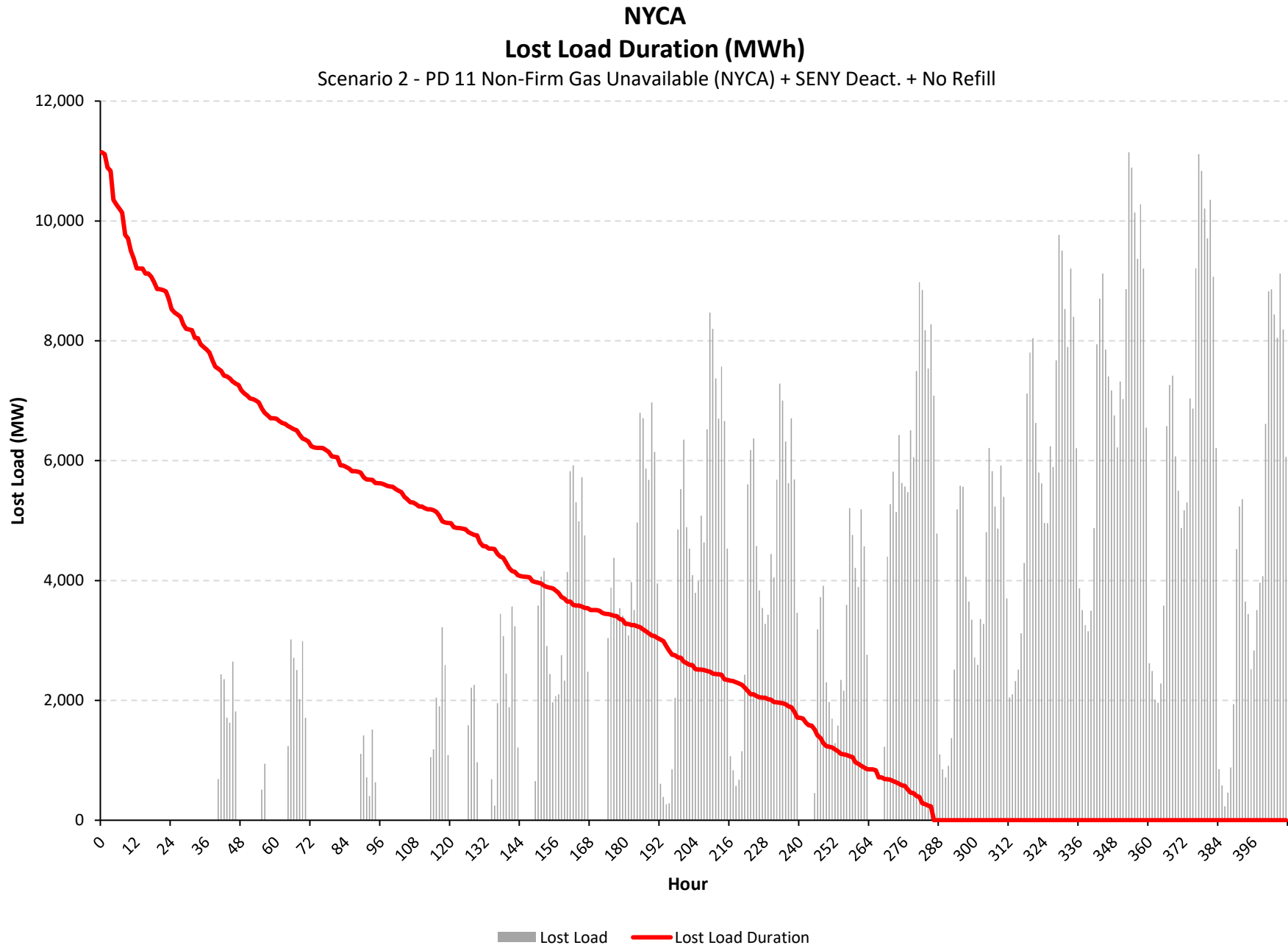


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 2 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



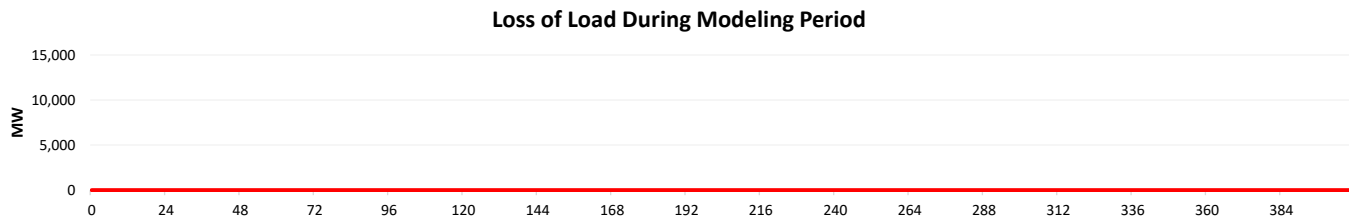
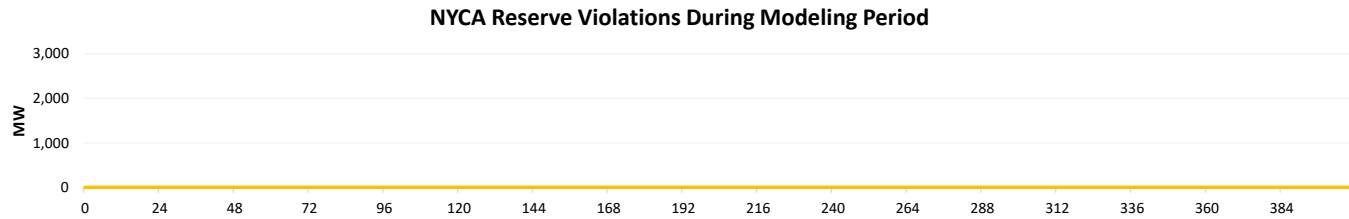
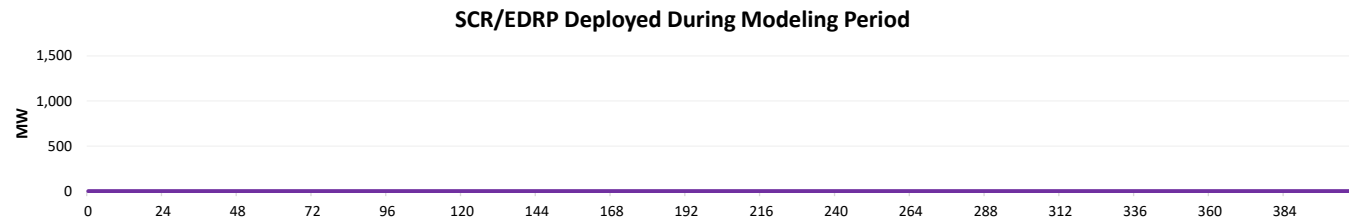
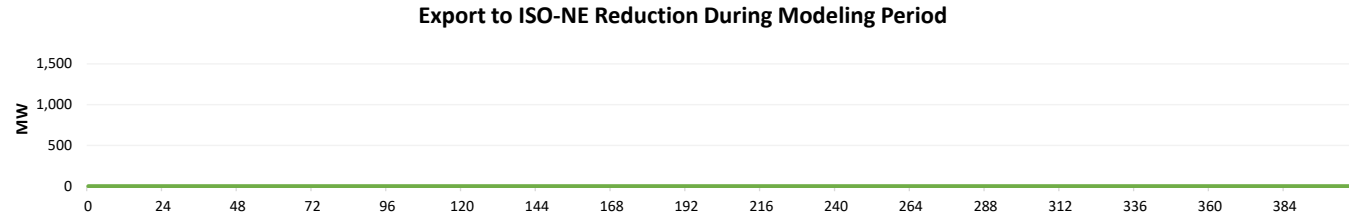
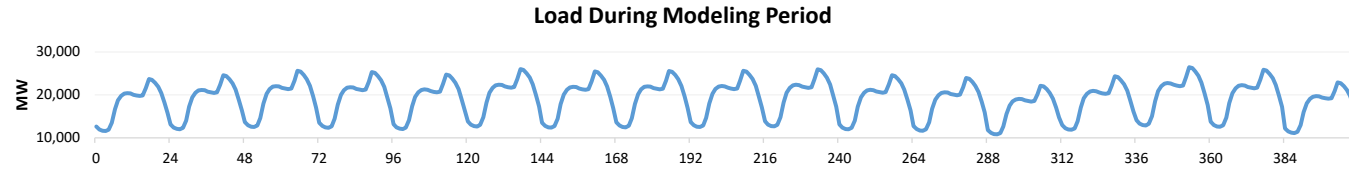


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 3 - PD 1 No Disruptions



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

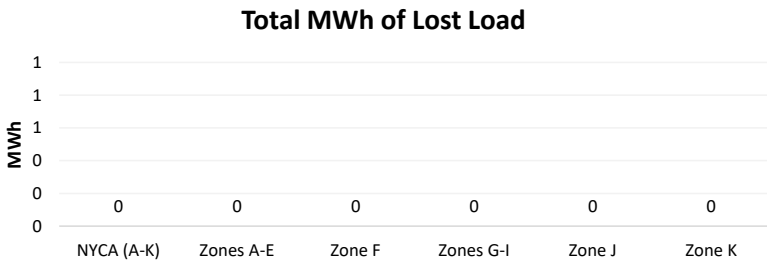
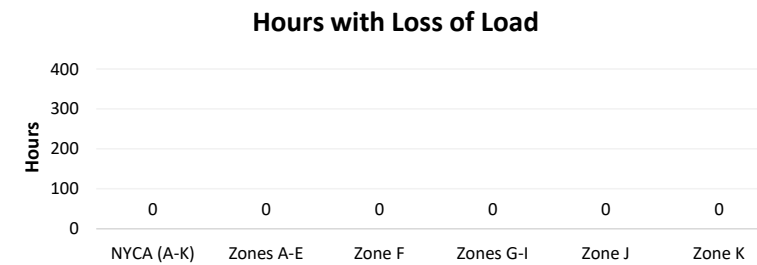
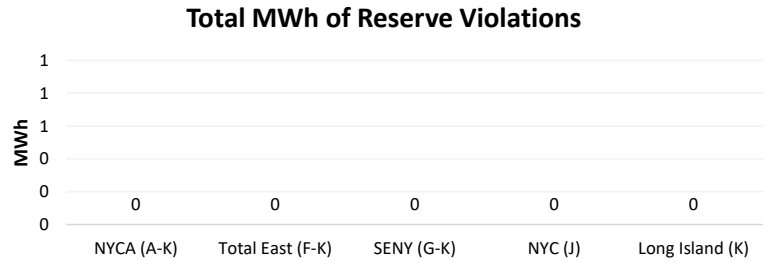
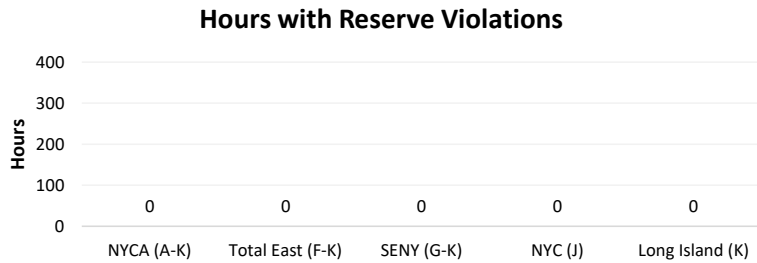
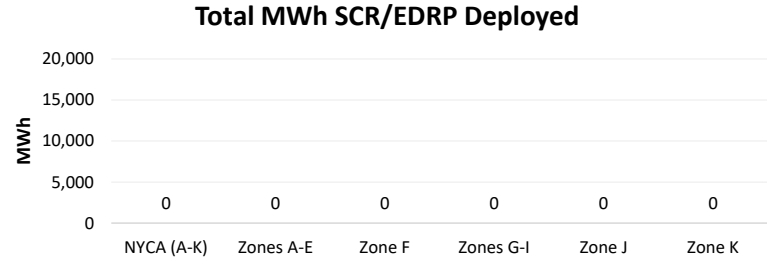
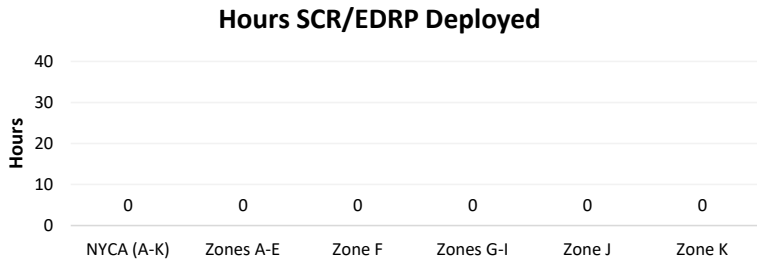
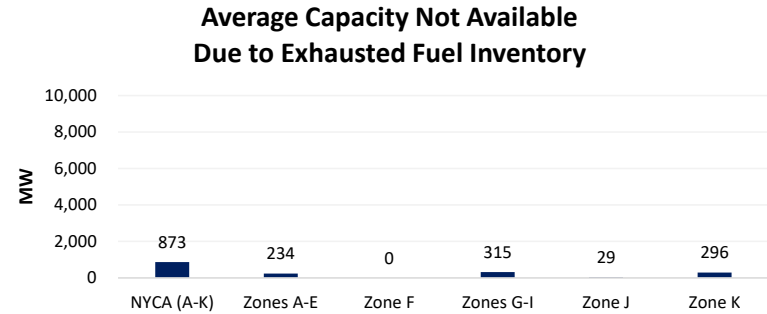
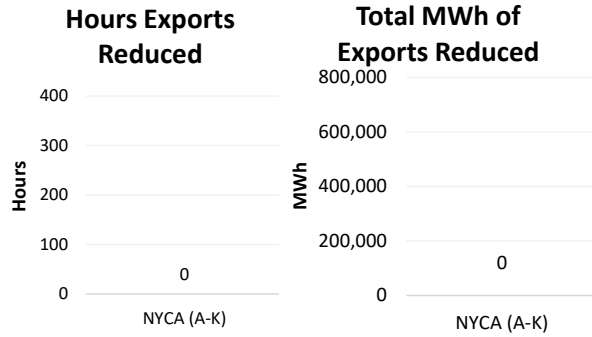
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

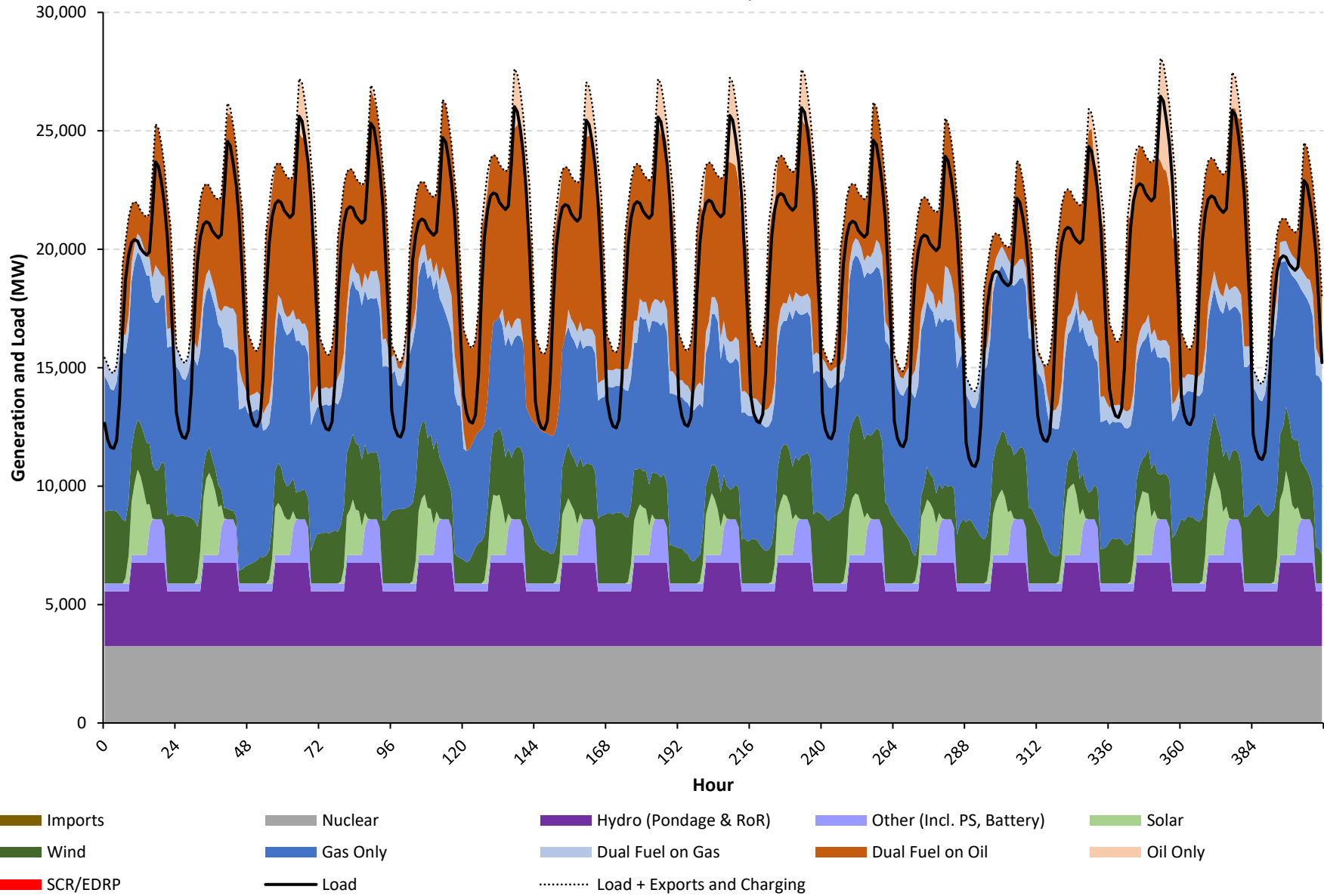
Full Period Results Summary

Case Name: Scenario 3 - PD 1 No Disruptions

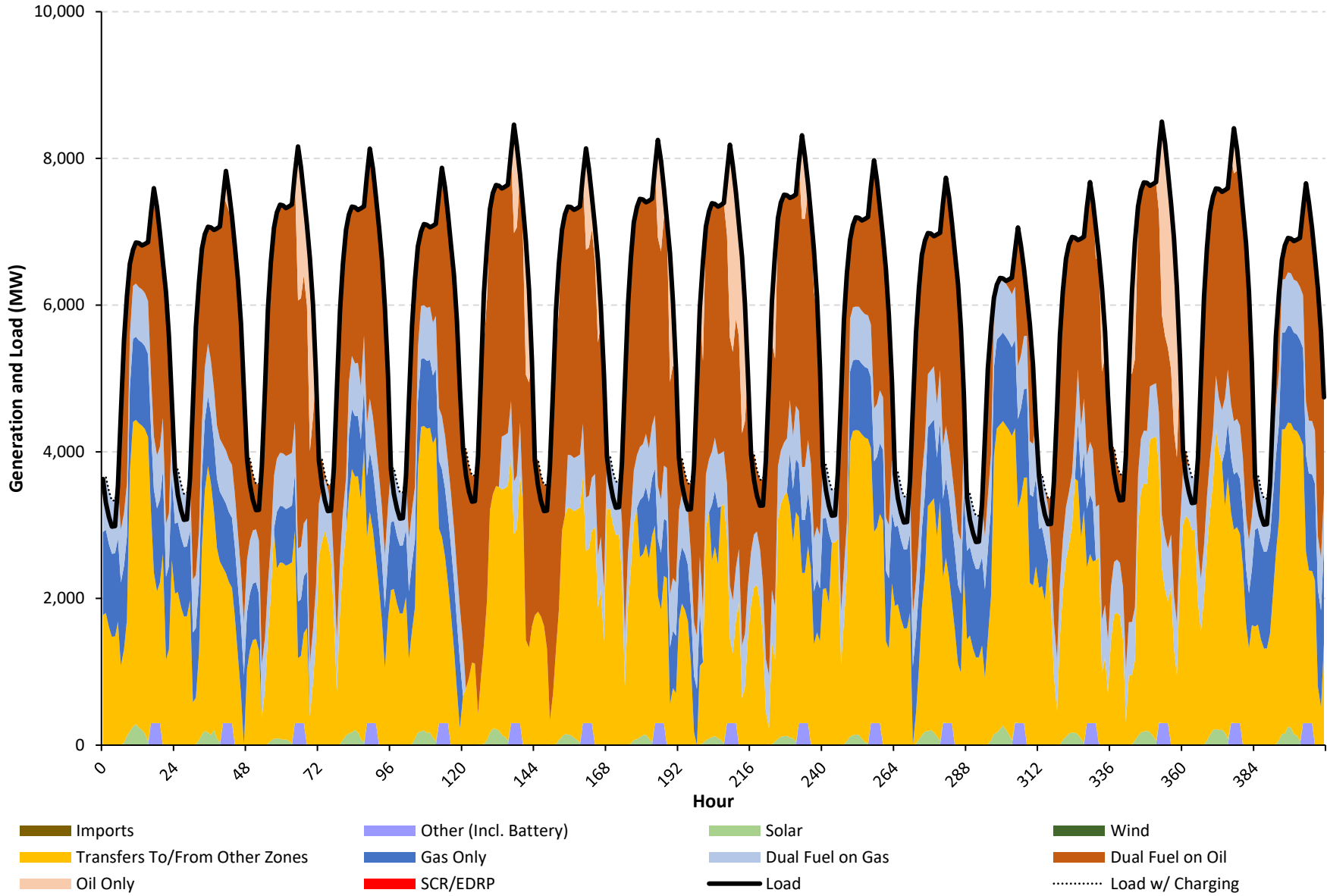
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



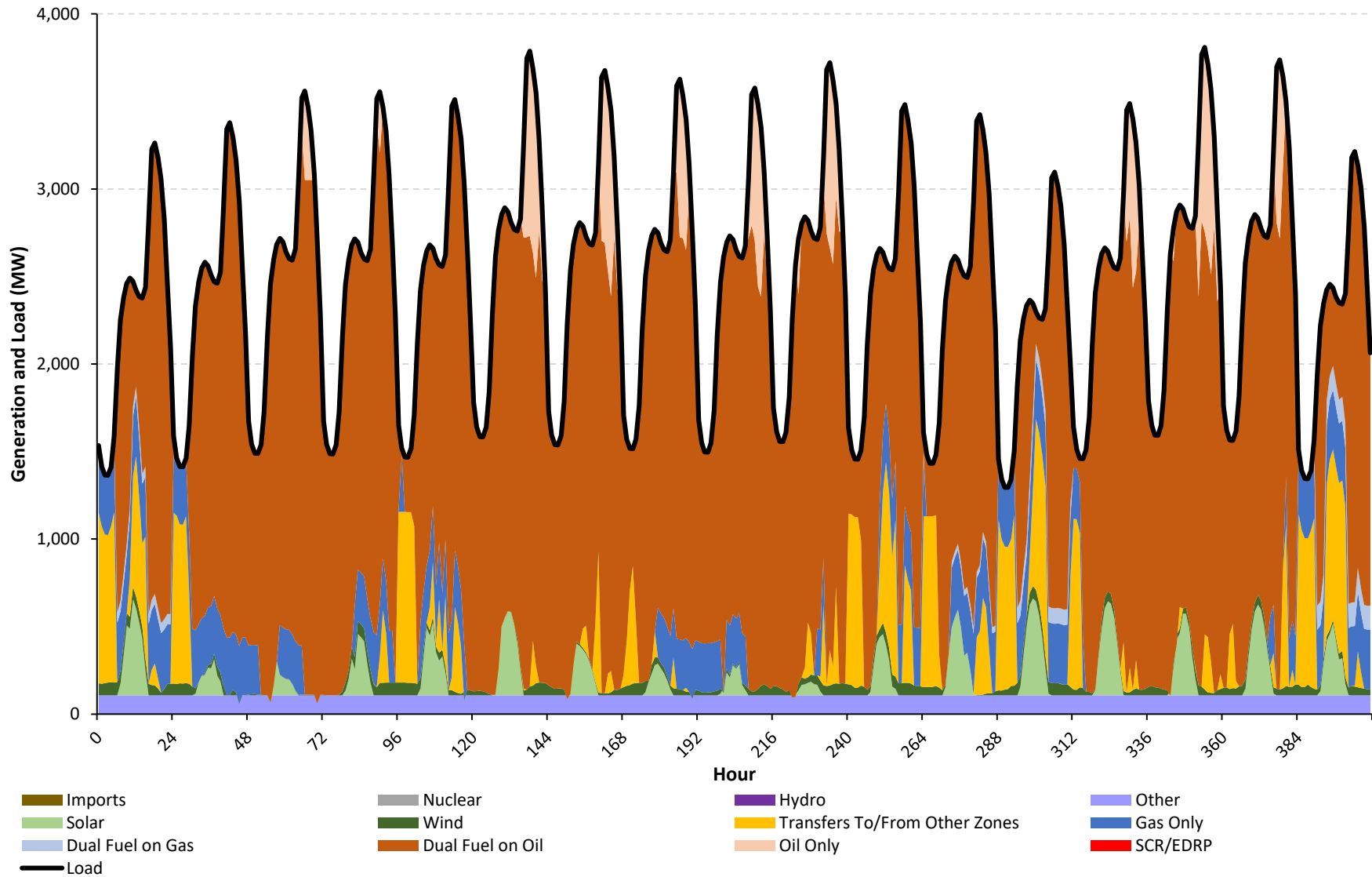
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 1 No Disruptions



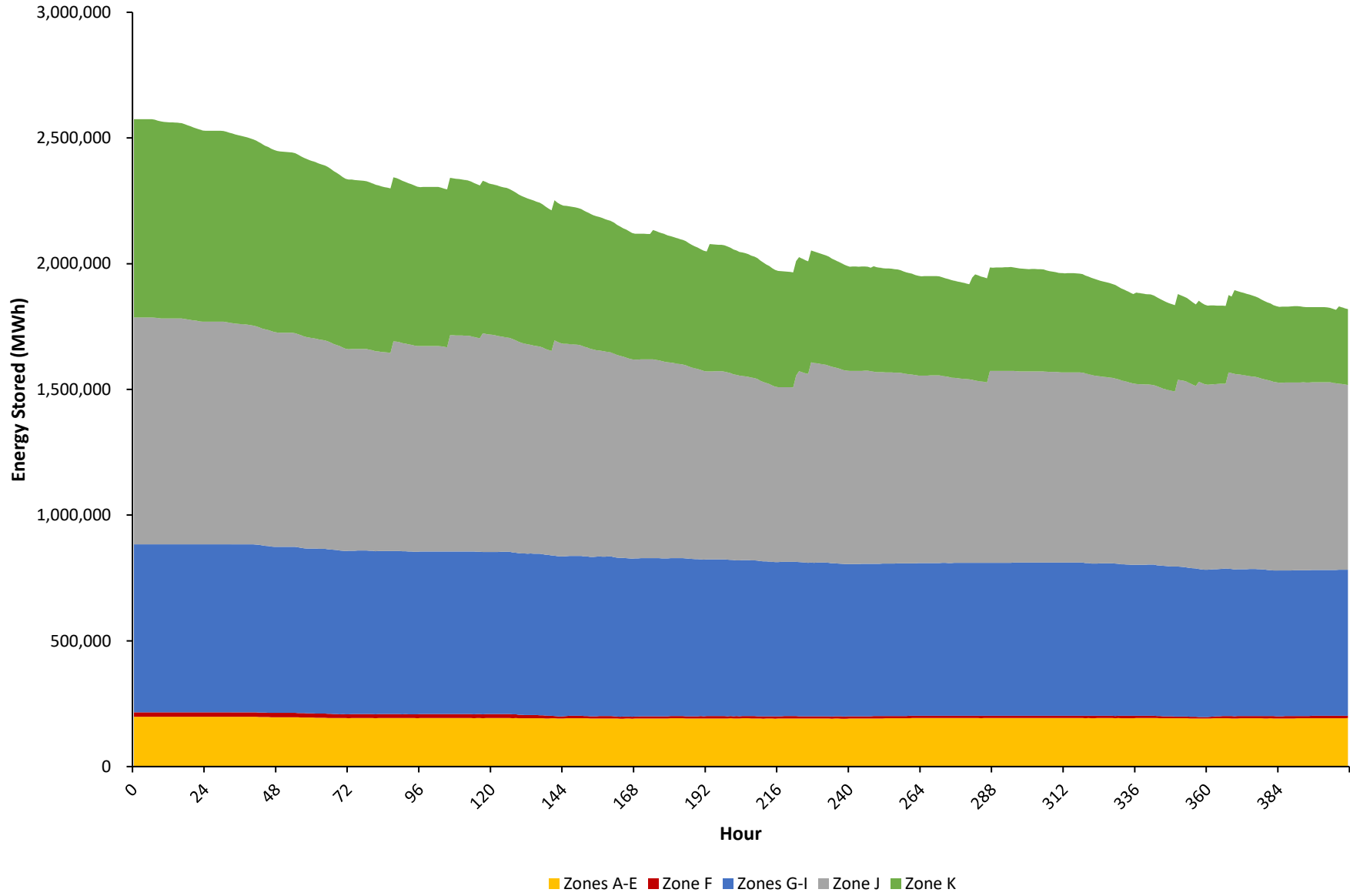
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 1 No Disruptions

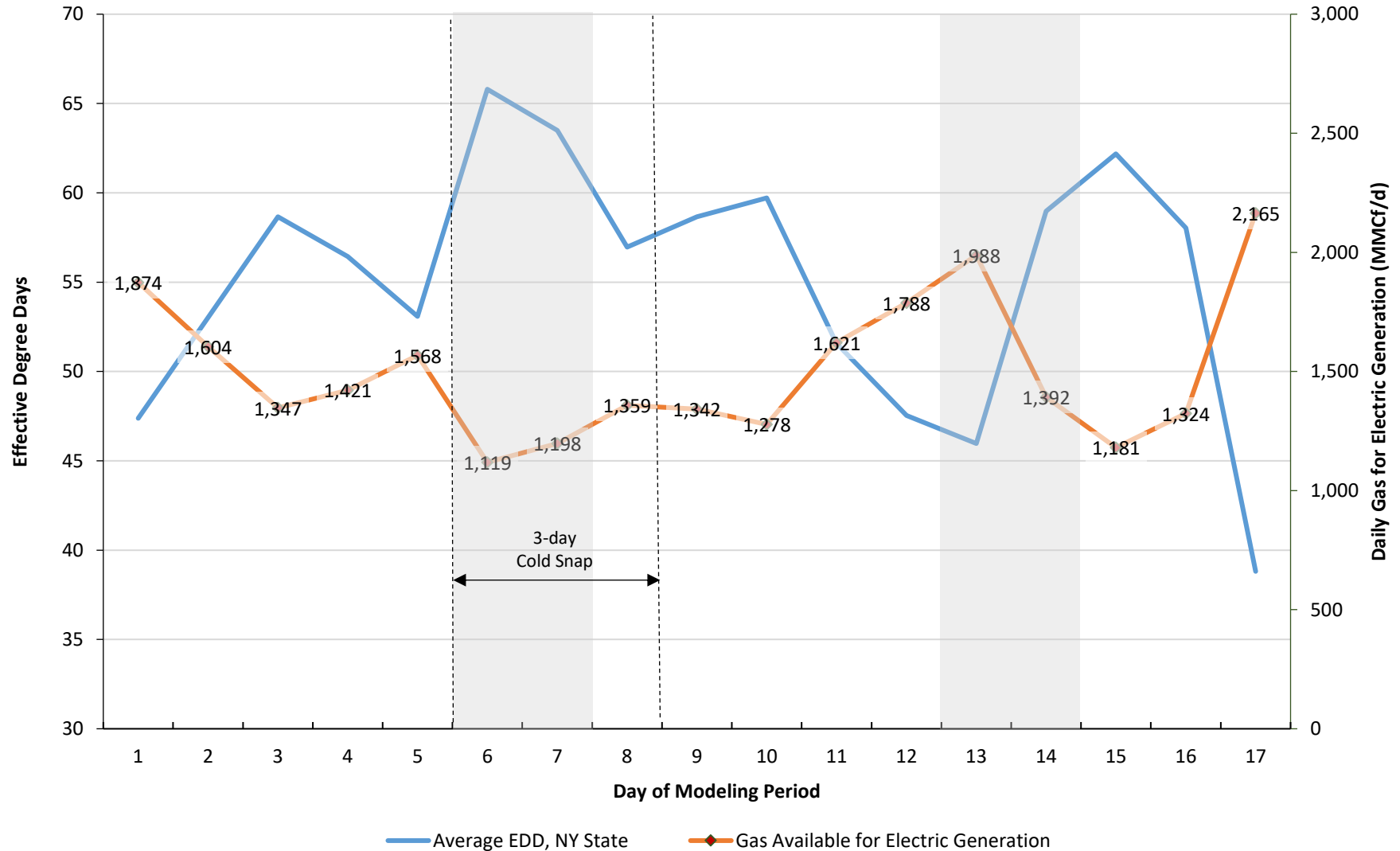


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

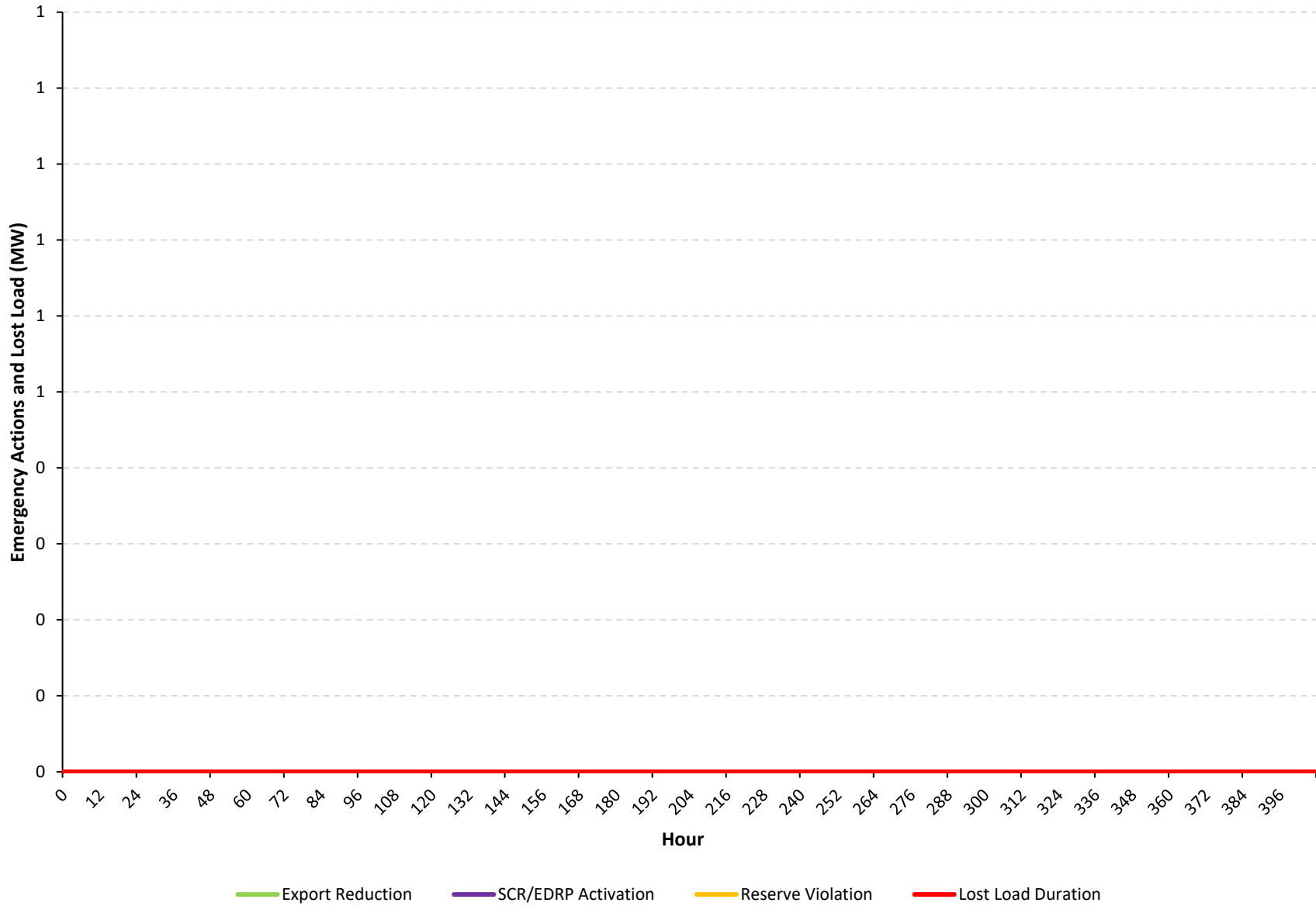
Scenario 3 - PD 1 No Disruptions



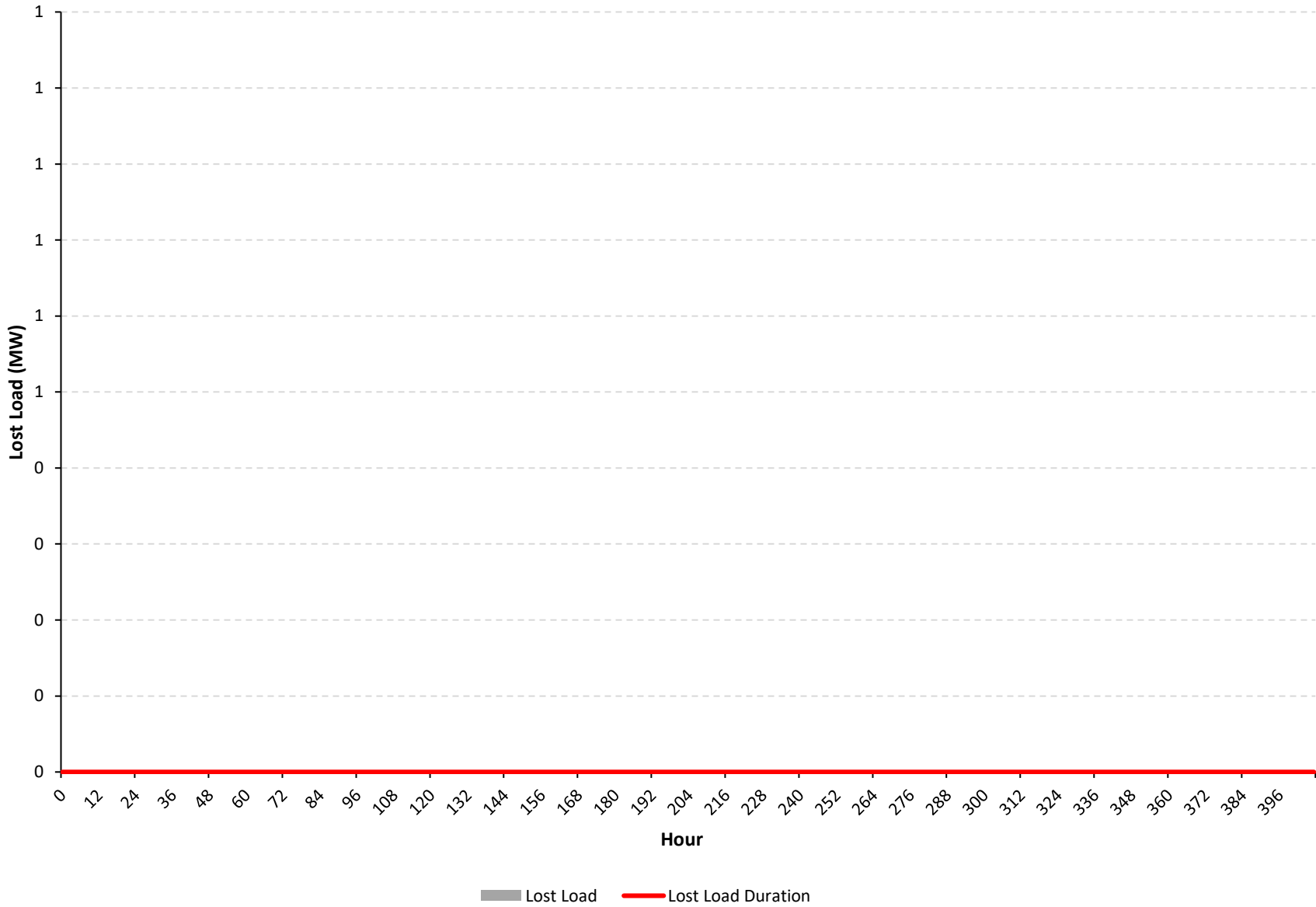
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 1 No Disruptions



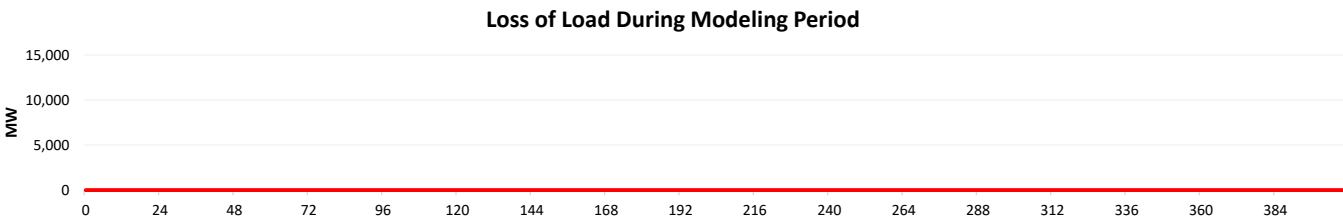
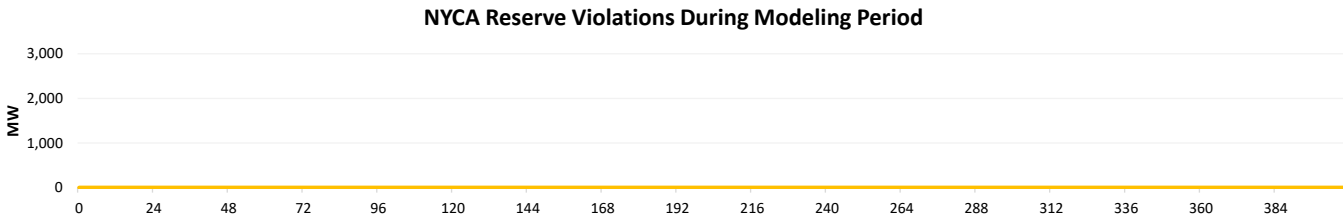
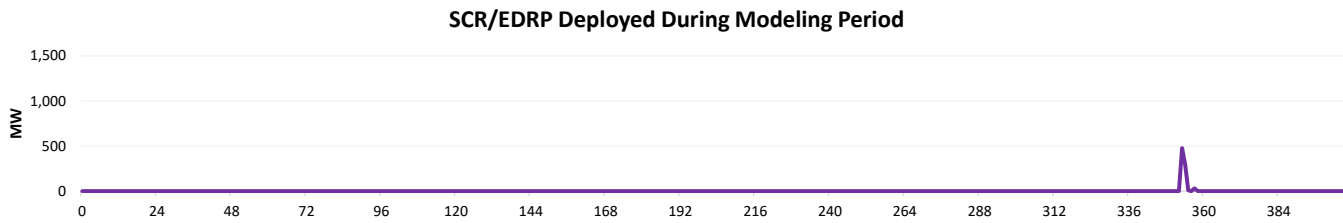
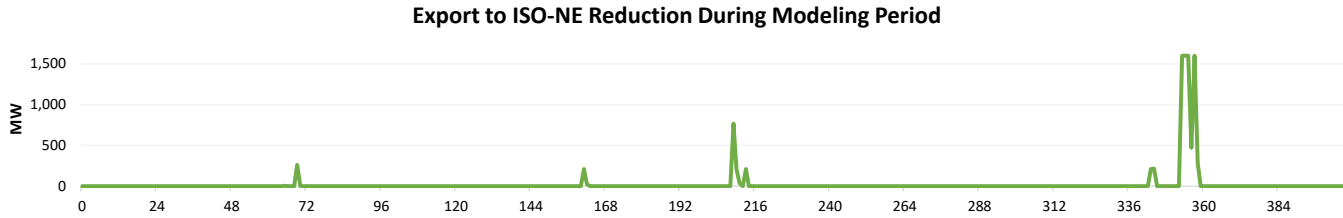
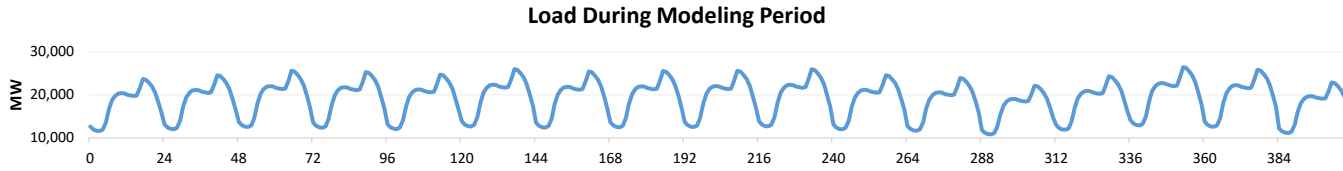
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 3 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	16
Total MWh	9,297
Avg. MW	22.8

SCR Deployment	
Total Hrs.	4
Total MWh	808
Avg. MW	2.0

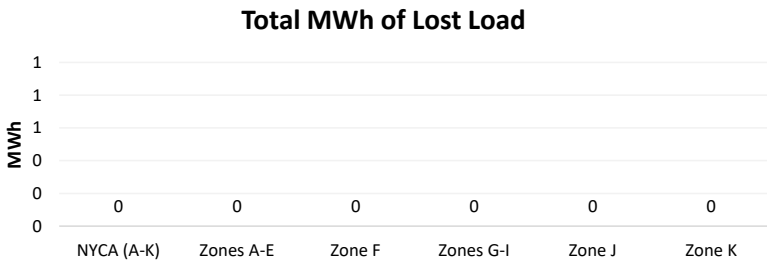
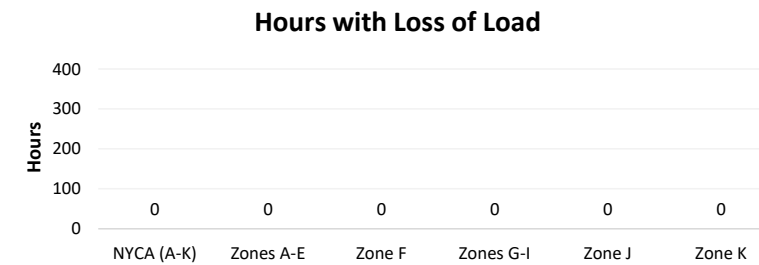
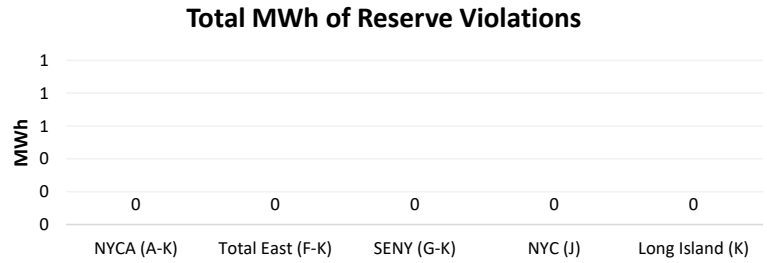
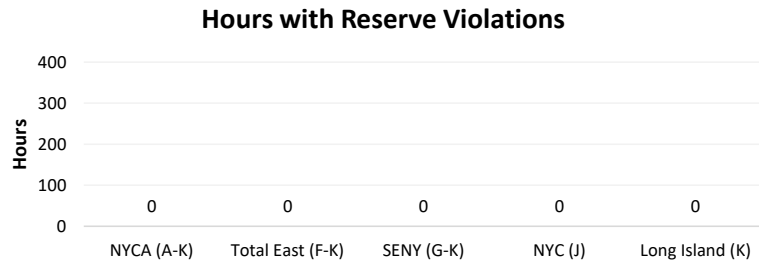
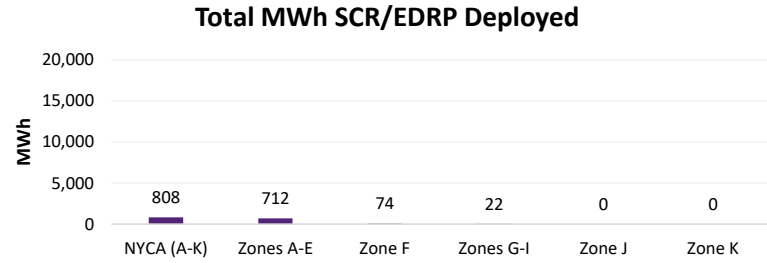
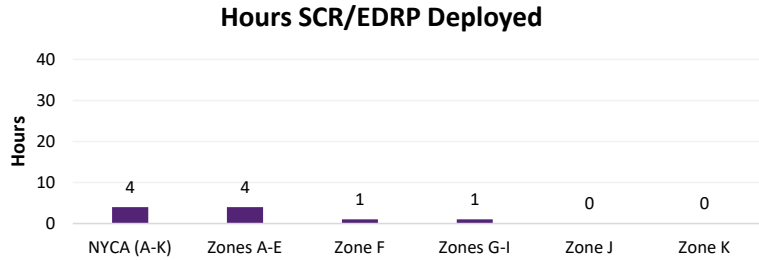
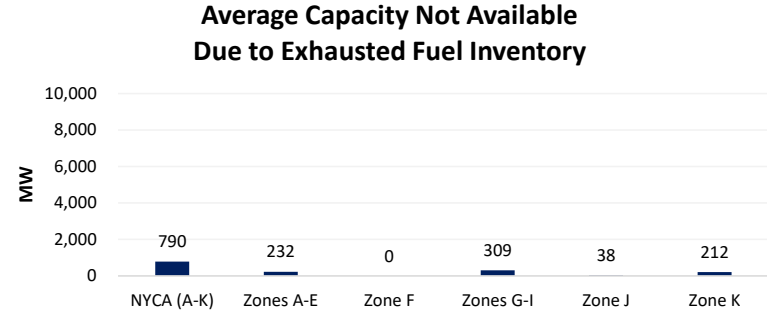
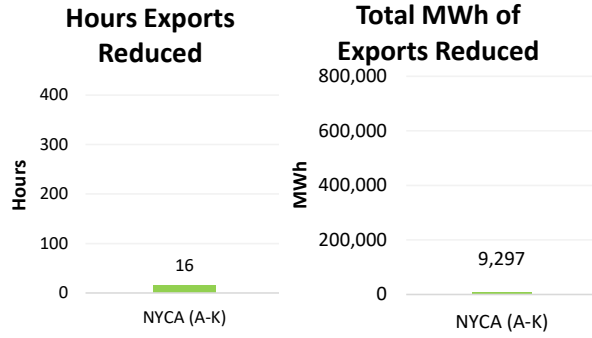
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

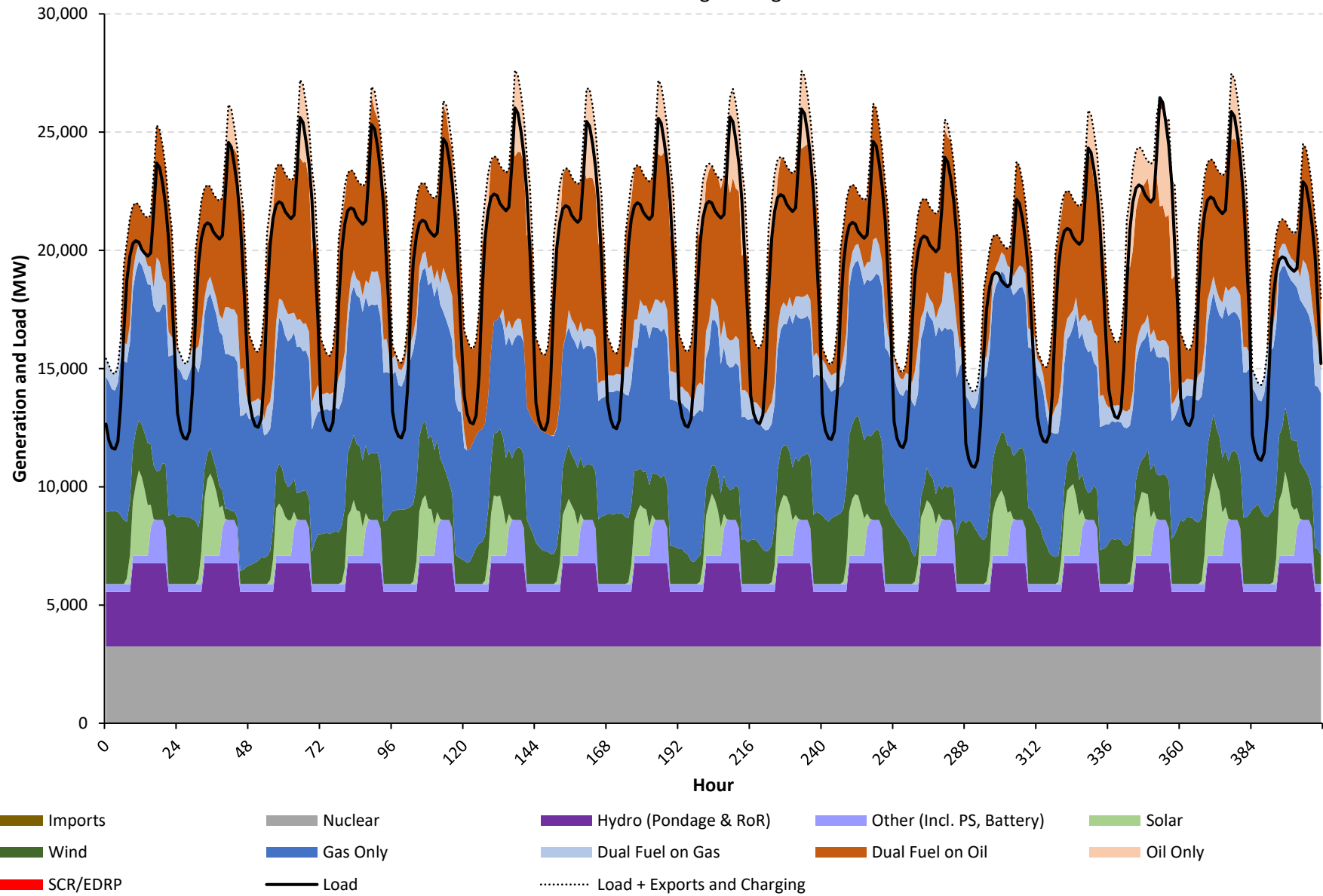
Full Period Results Summary

Case Name: Scenario 3 - PD 2 High Outage

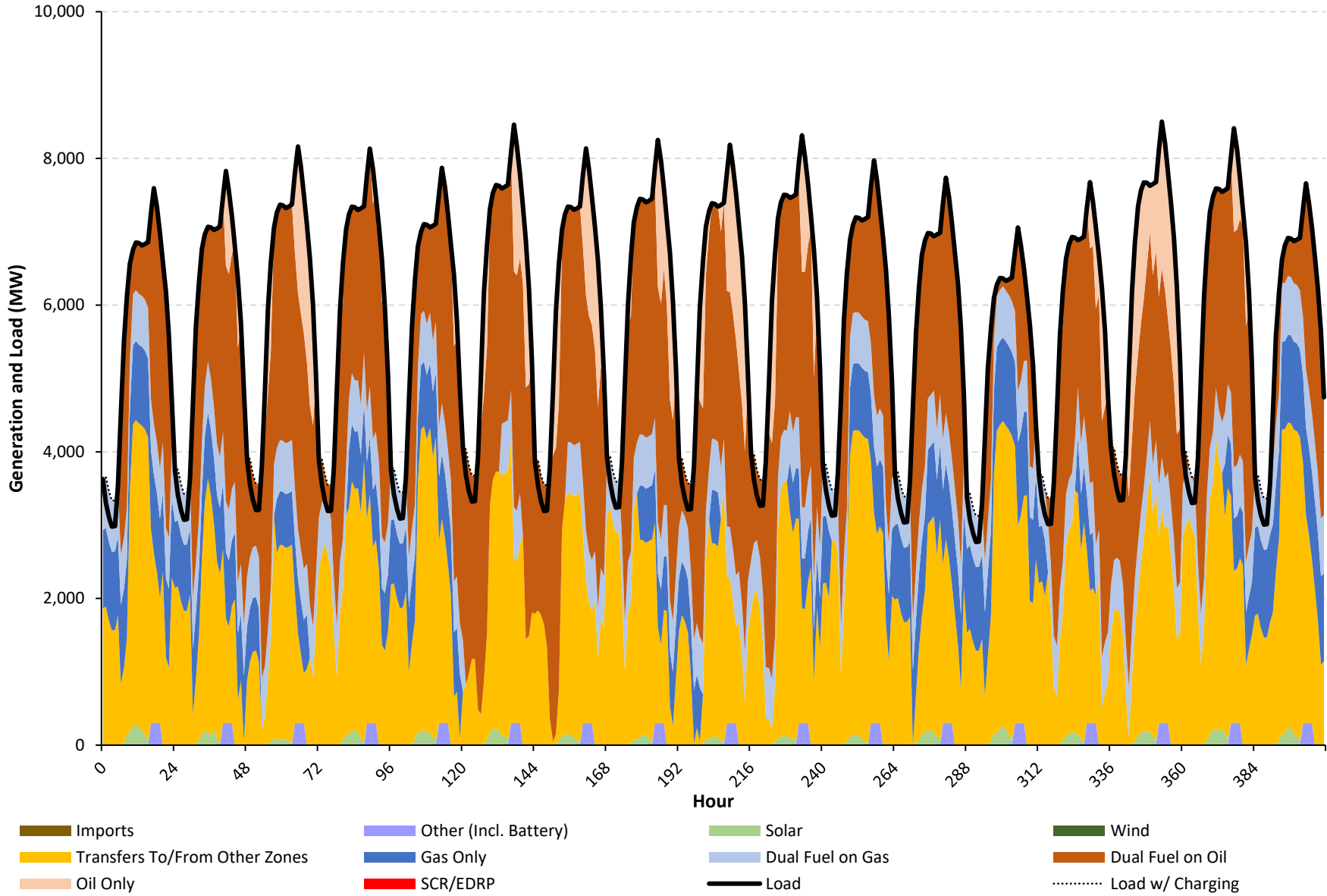
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



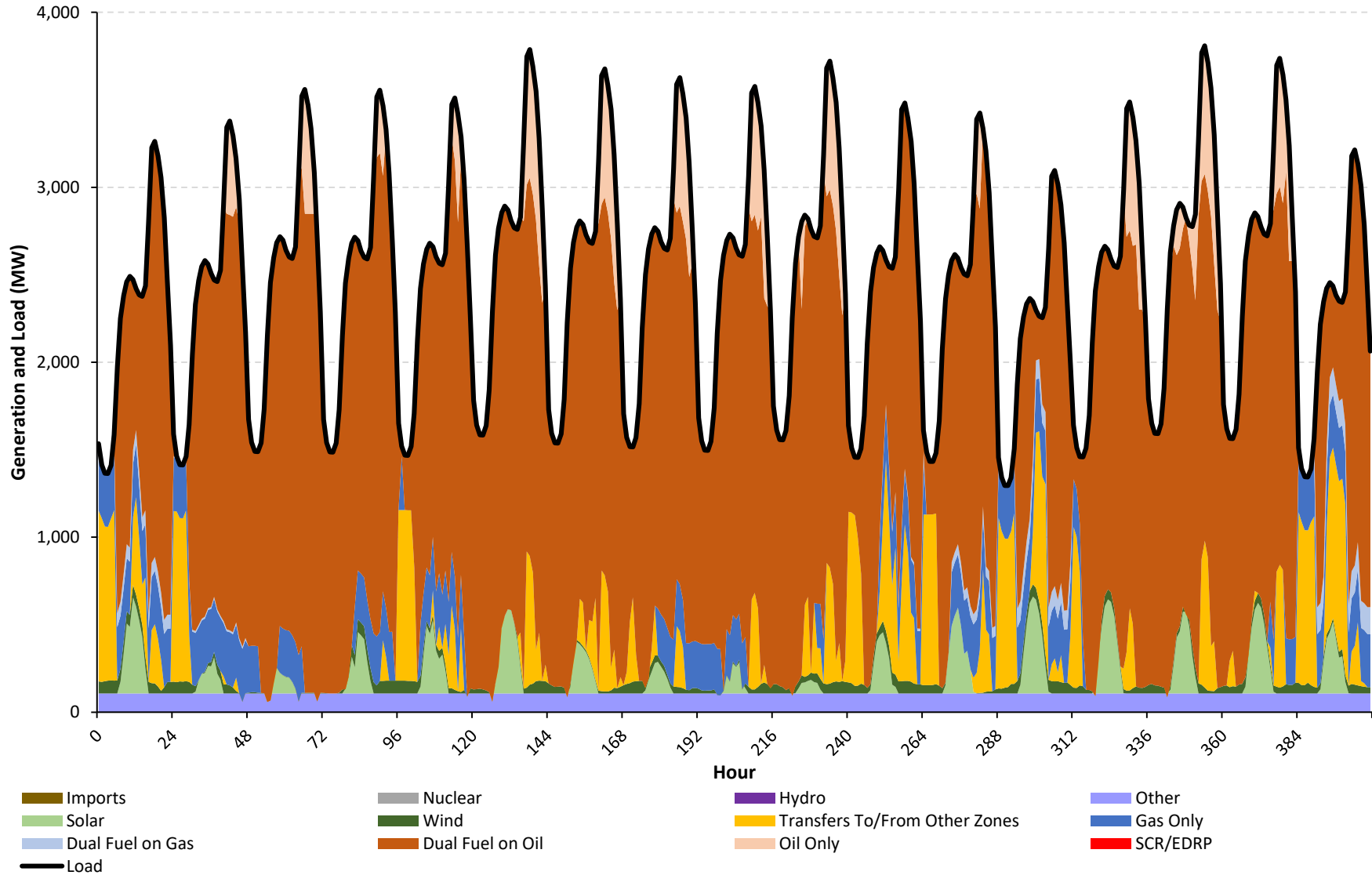
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 2 High Outage



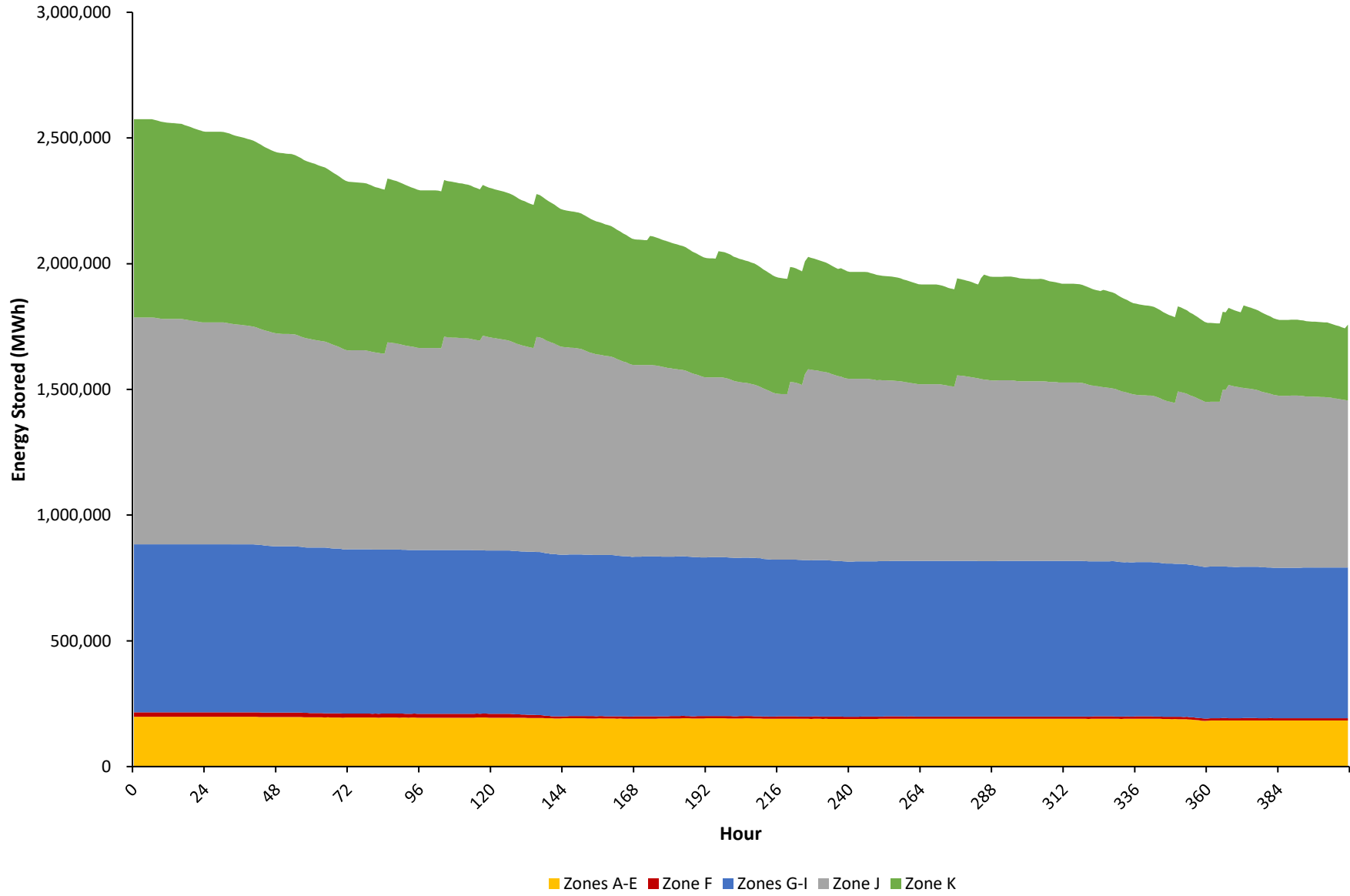
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 2 High Outage

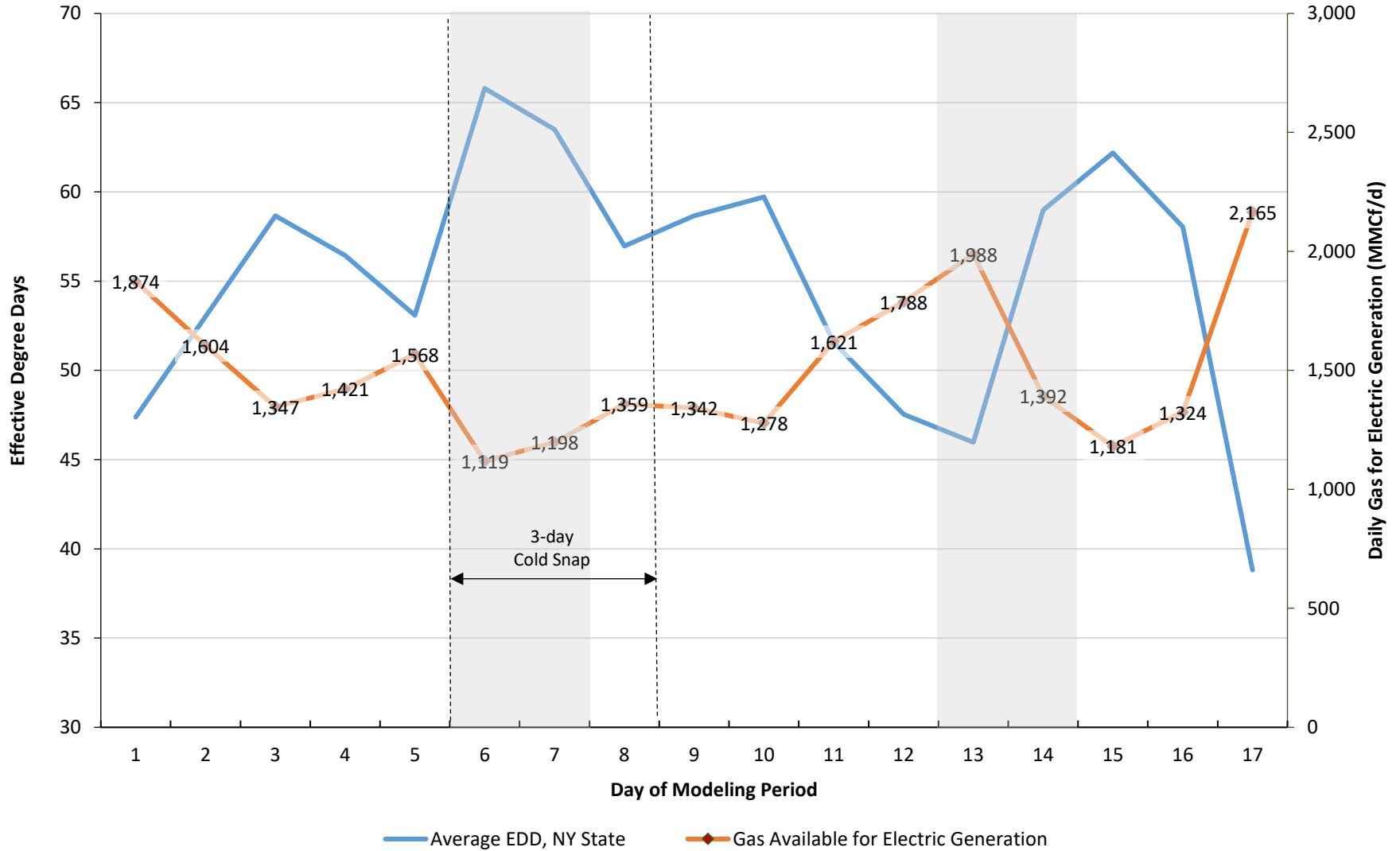


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

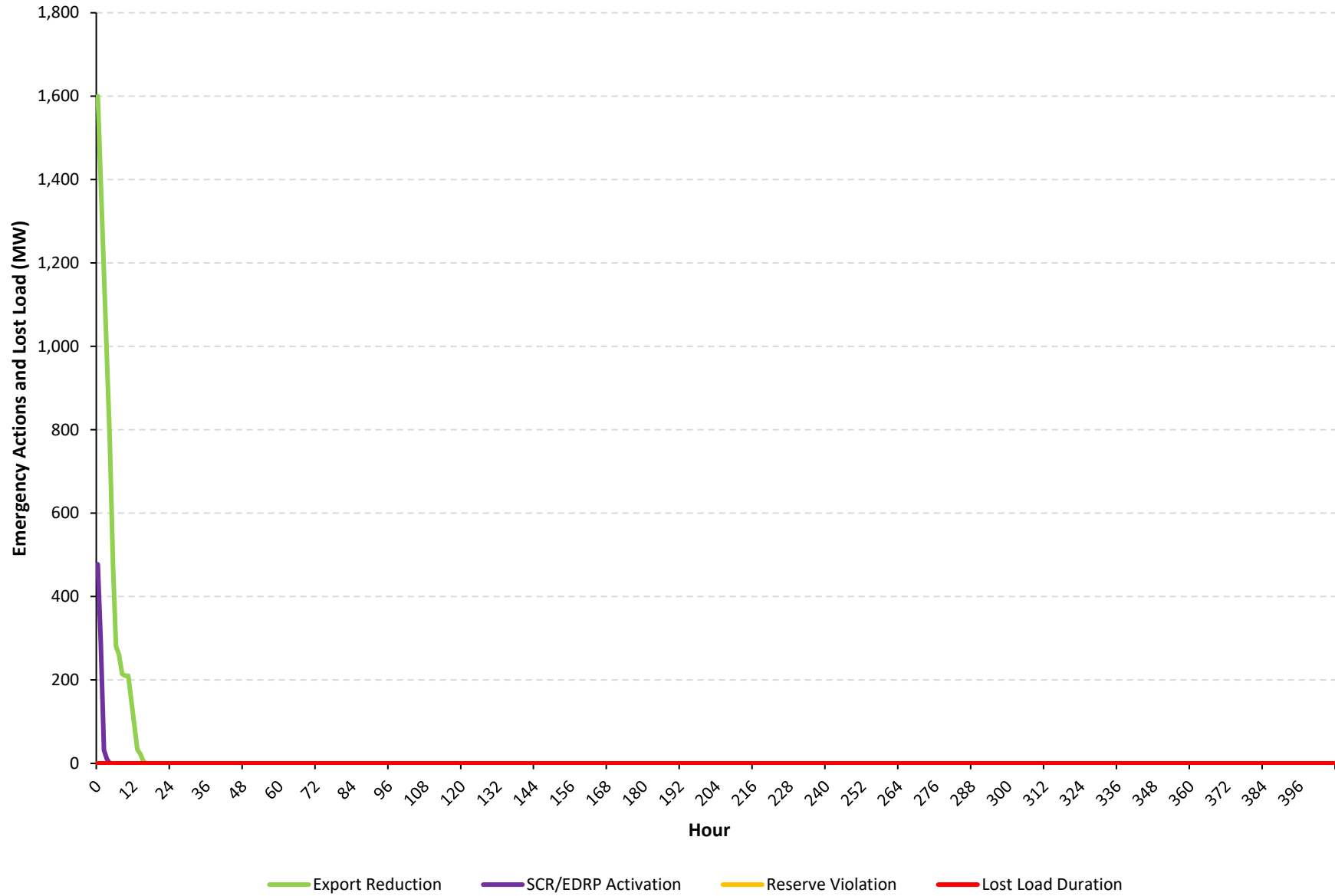
Scenario 3 - PD 2 High Outage



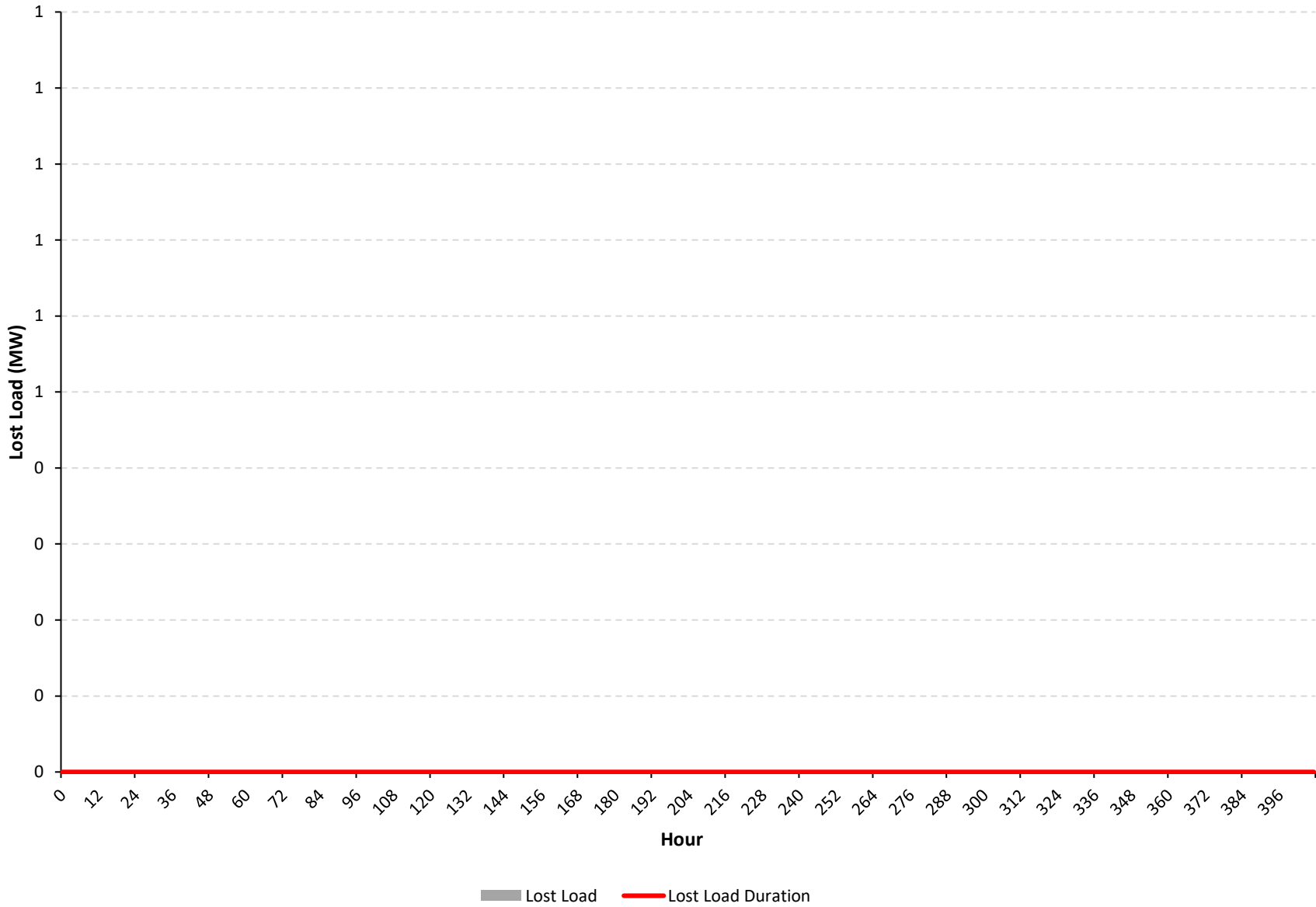
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 2 High Outage

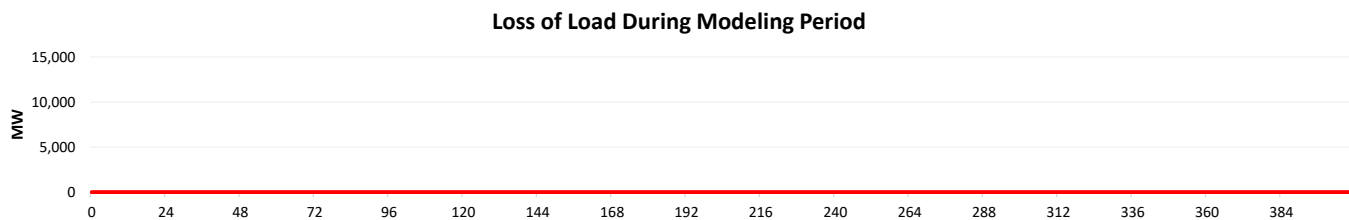
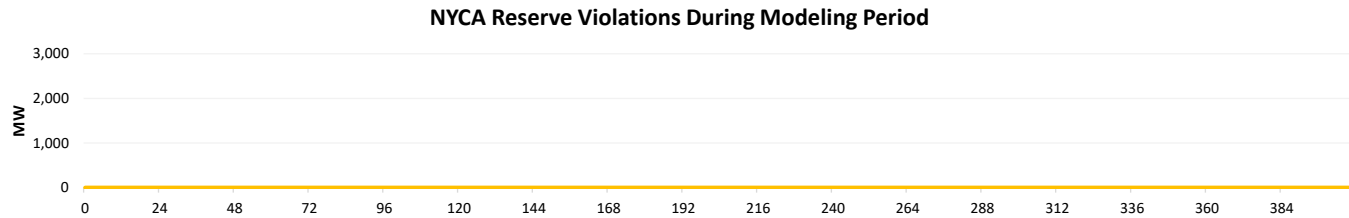
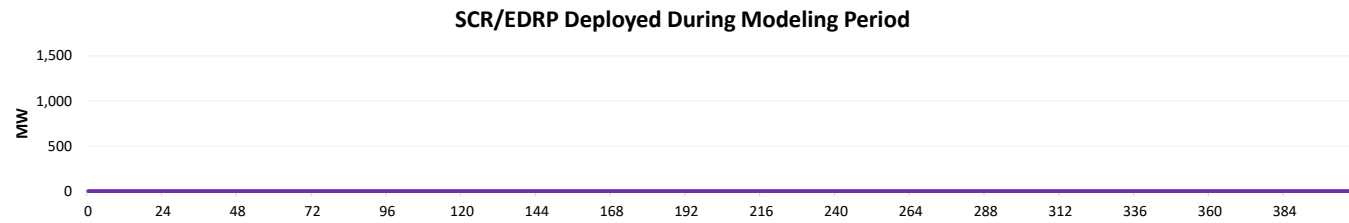
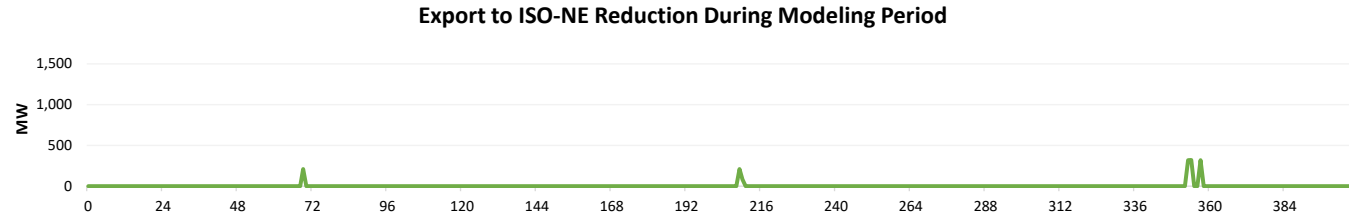
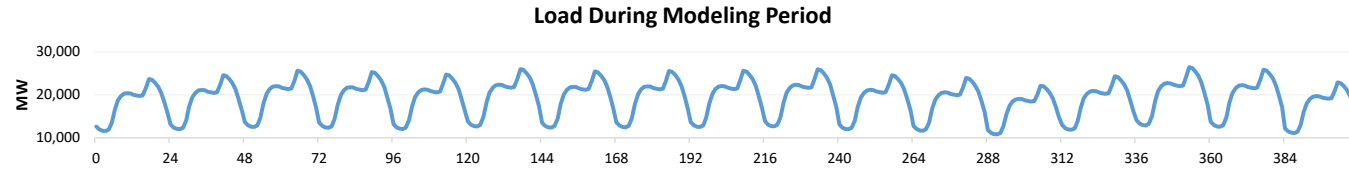


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 3 - PD 3 SENY Deactivation



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	6
Total MWh	1,460
Avg. MW	3.6

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

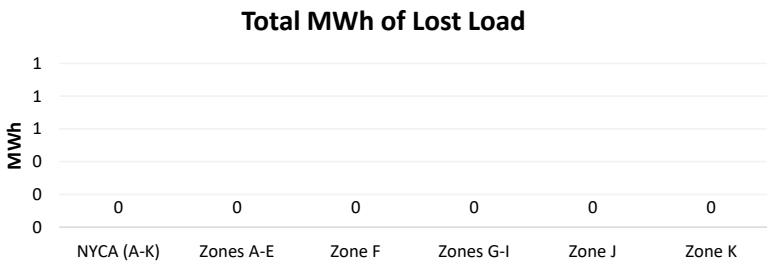
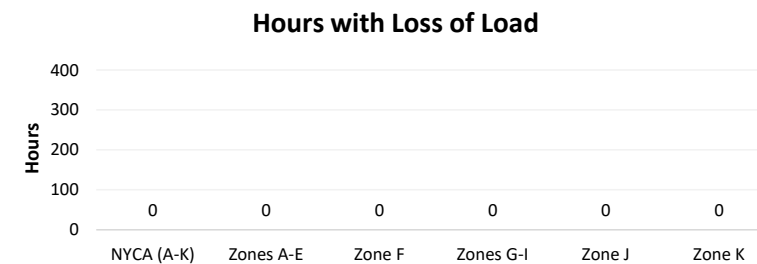
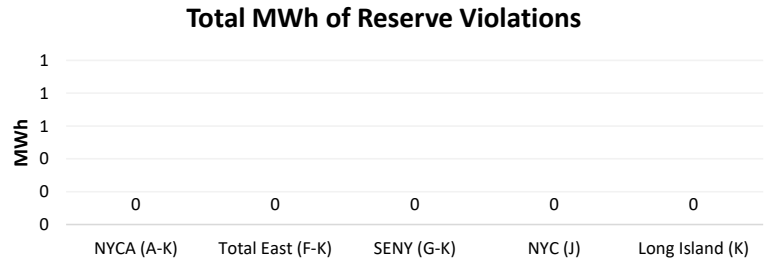
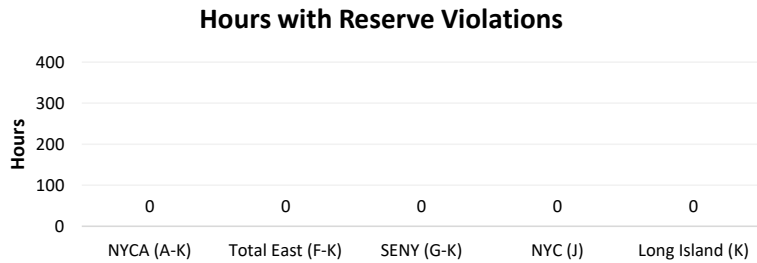
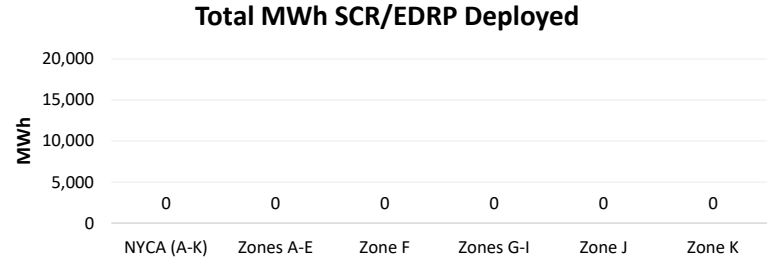
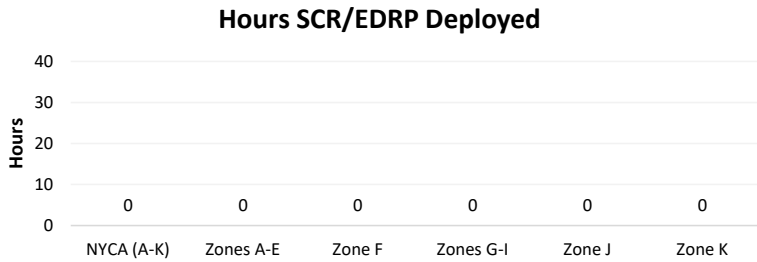
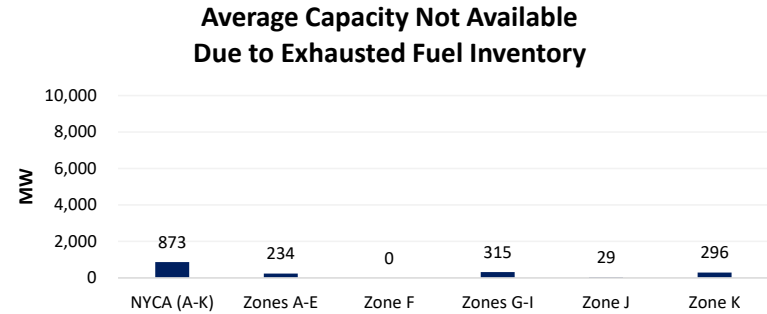
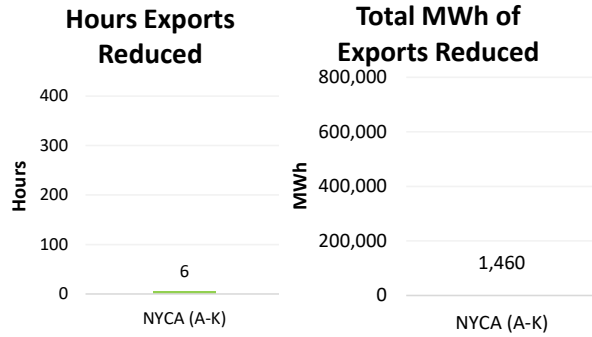
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

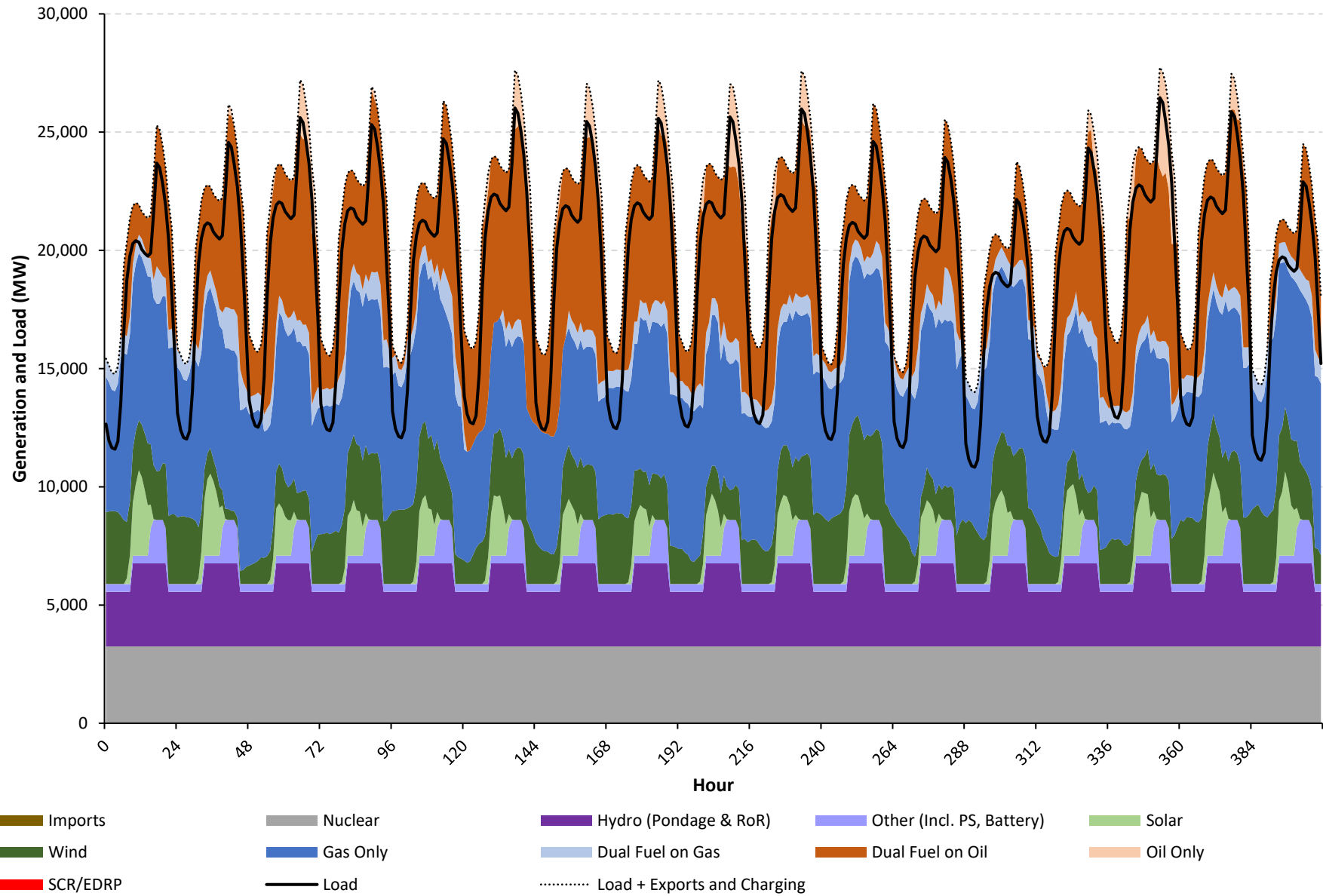
Full Period Results Summary

Case Name: Scenario 3 - PD 3 SENY Deactivation

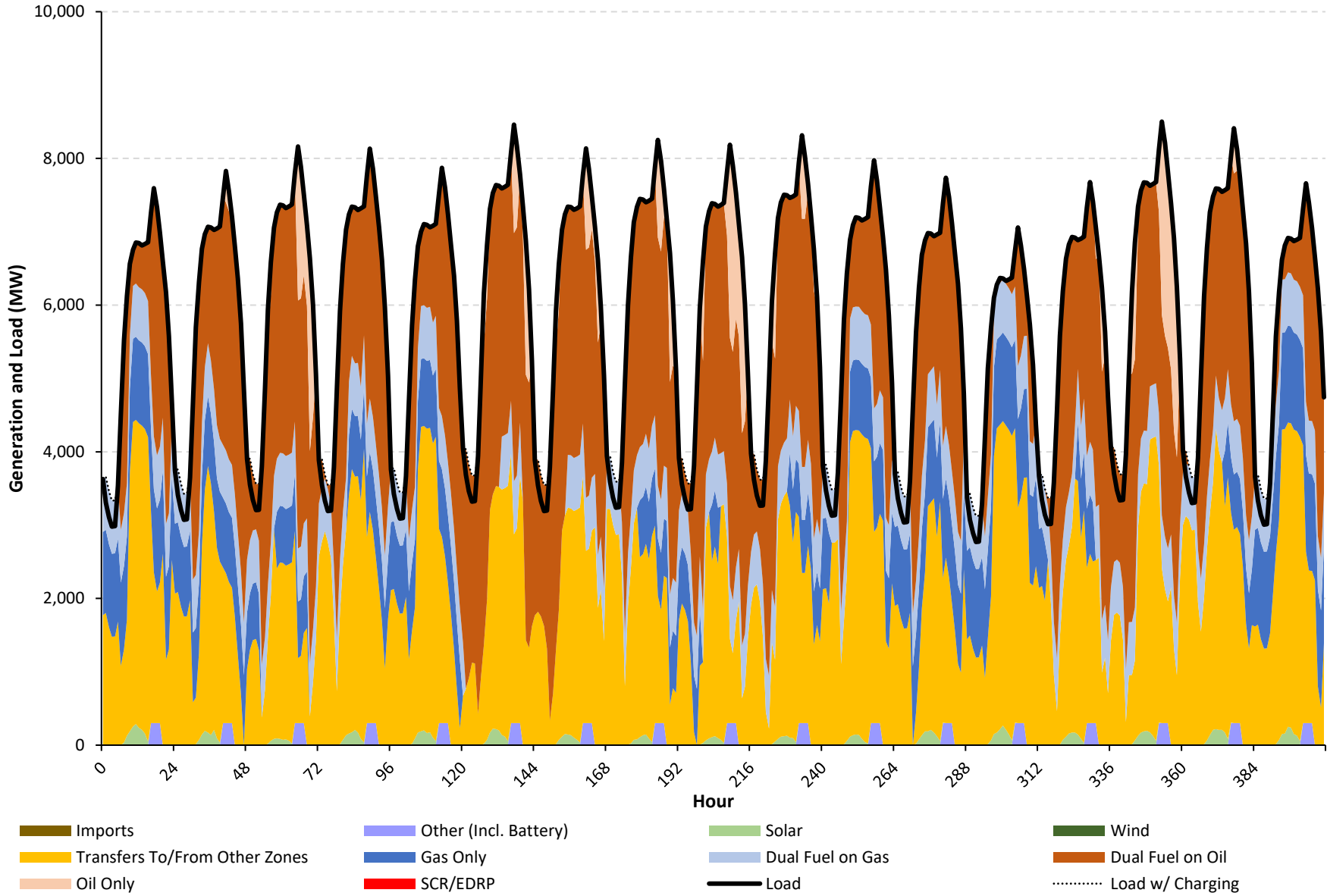
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



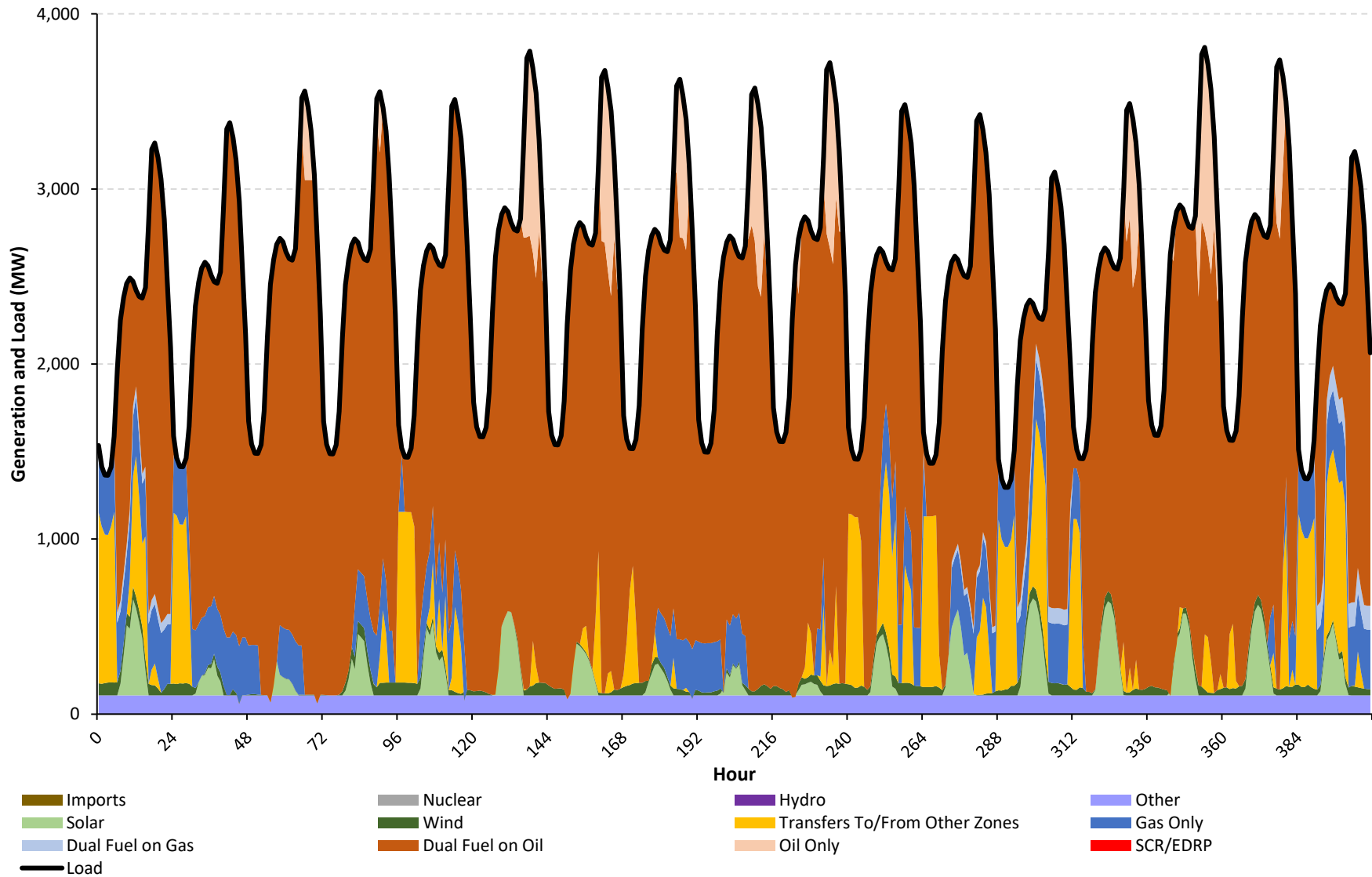
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 3 SENY Deactivation



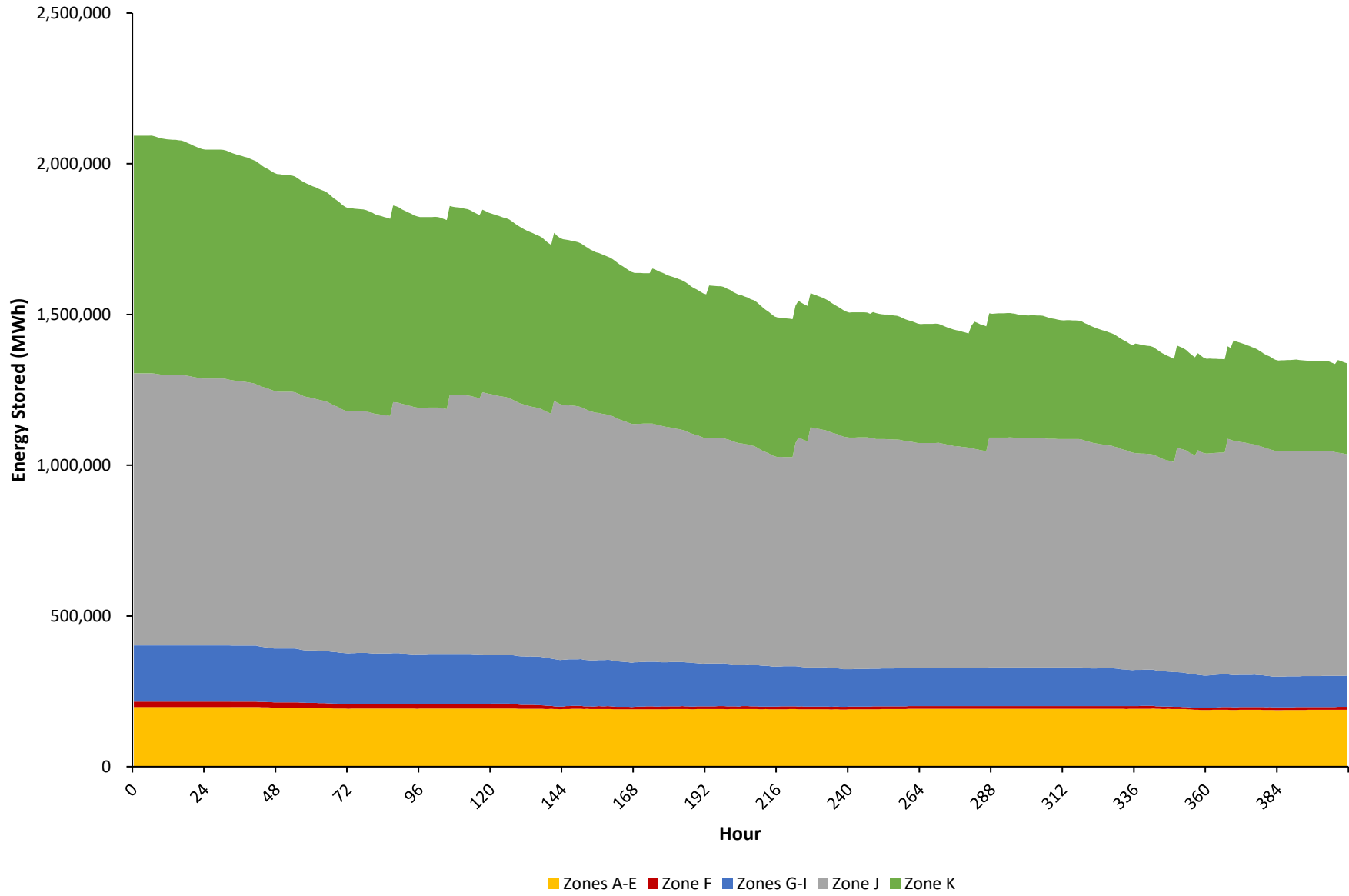
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 3 SENY Deactivation

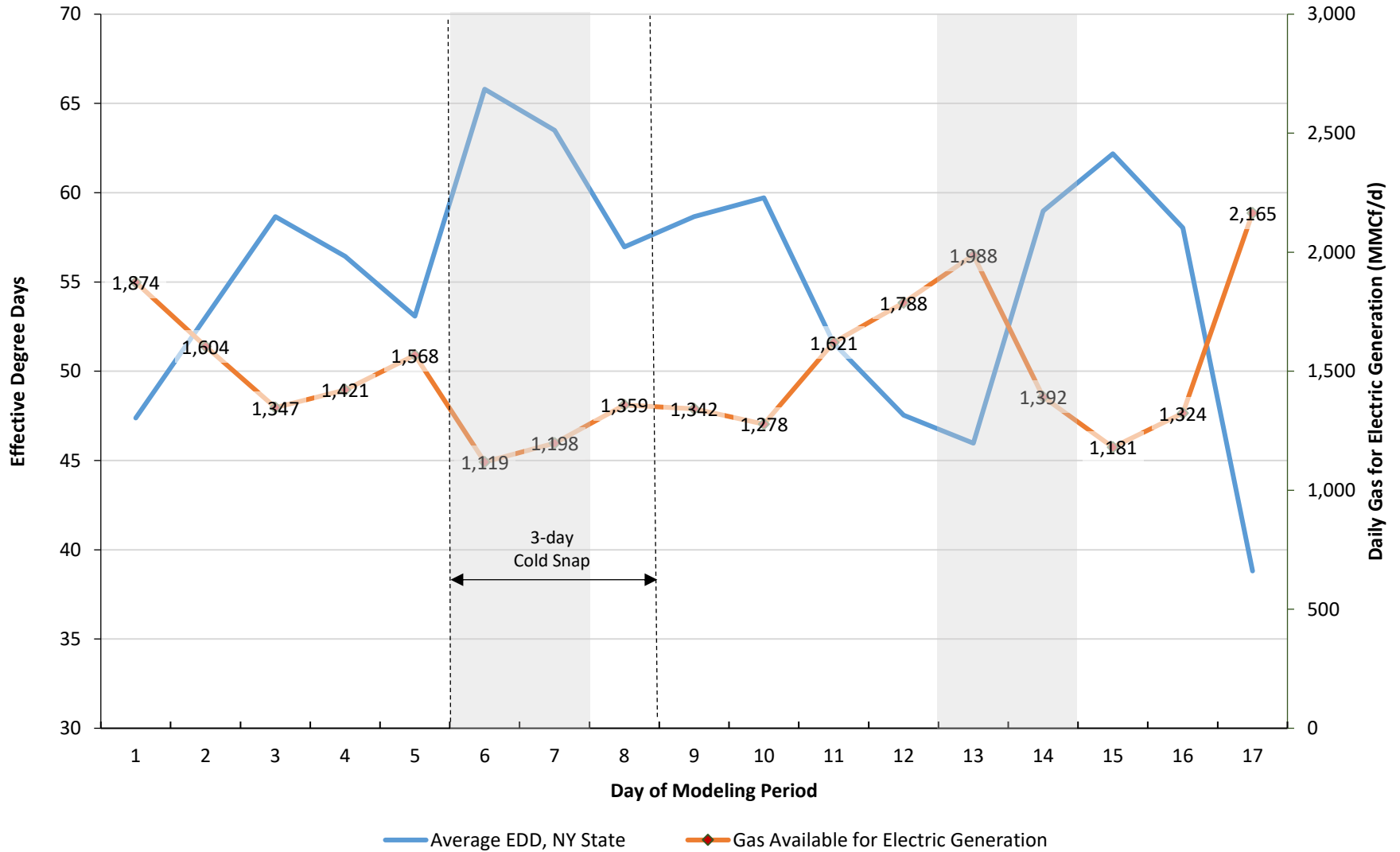


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

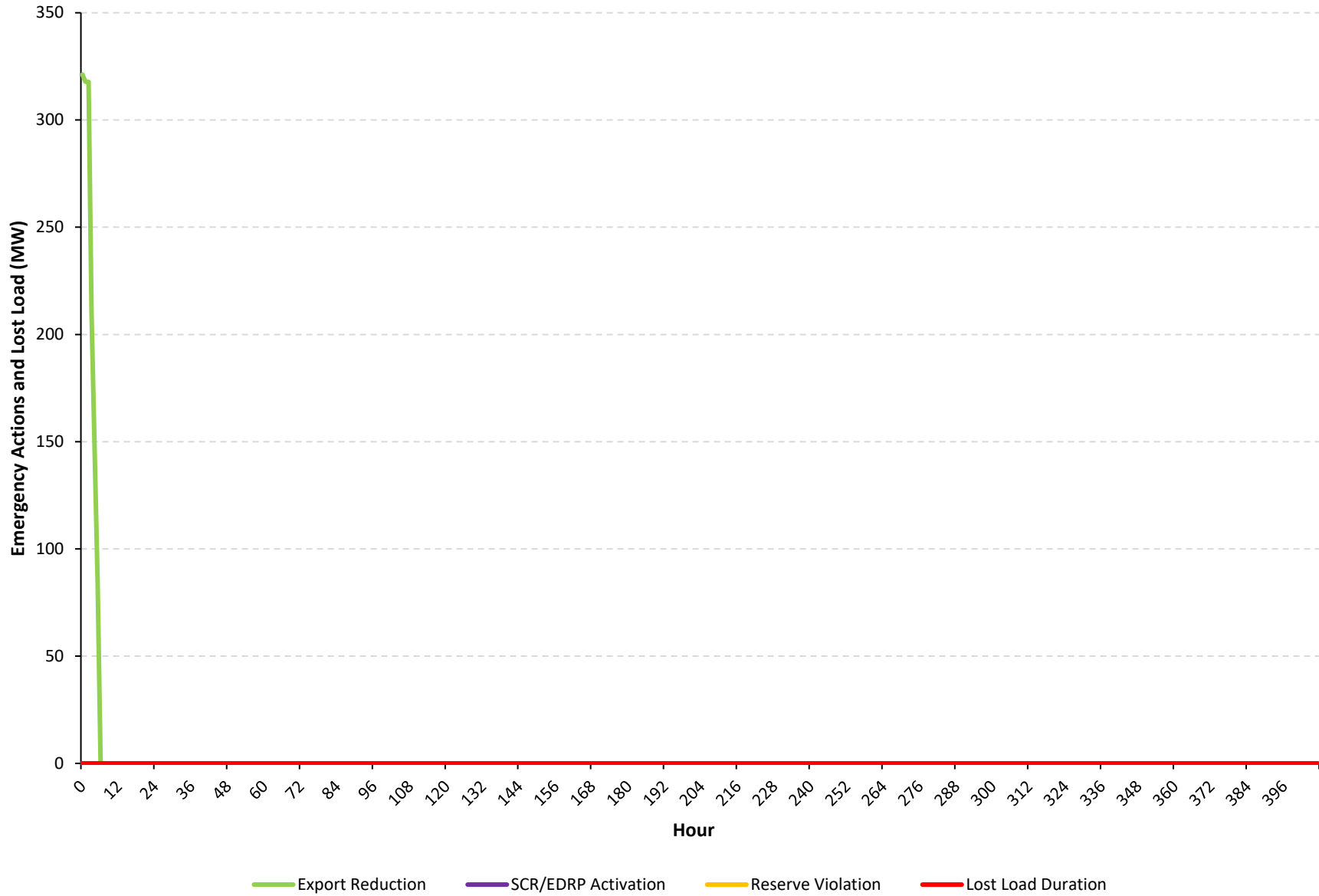
Scenario 3 - PD 3 SENY Deactivation

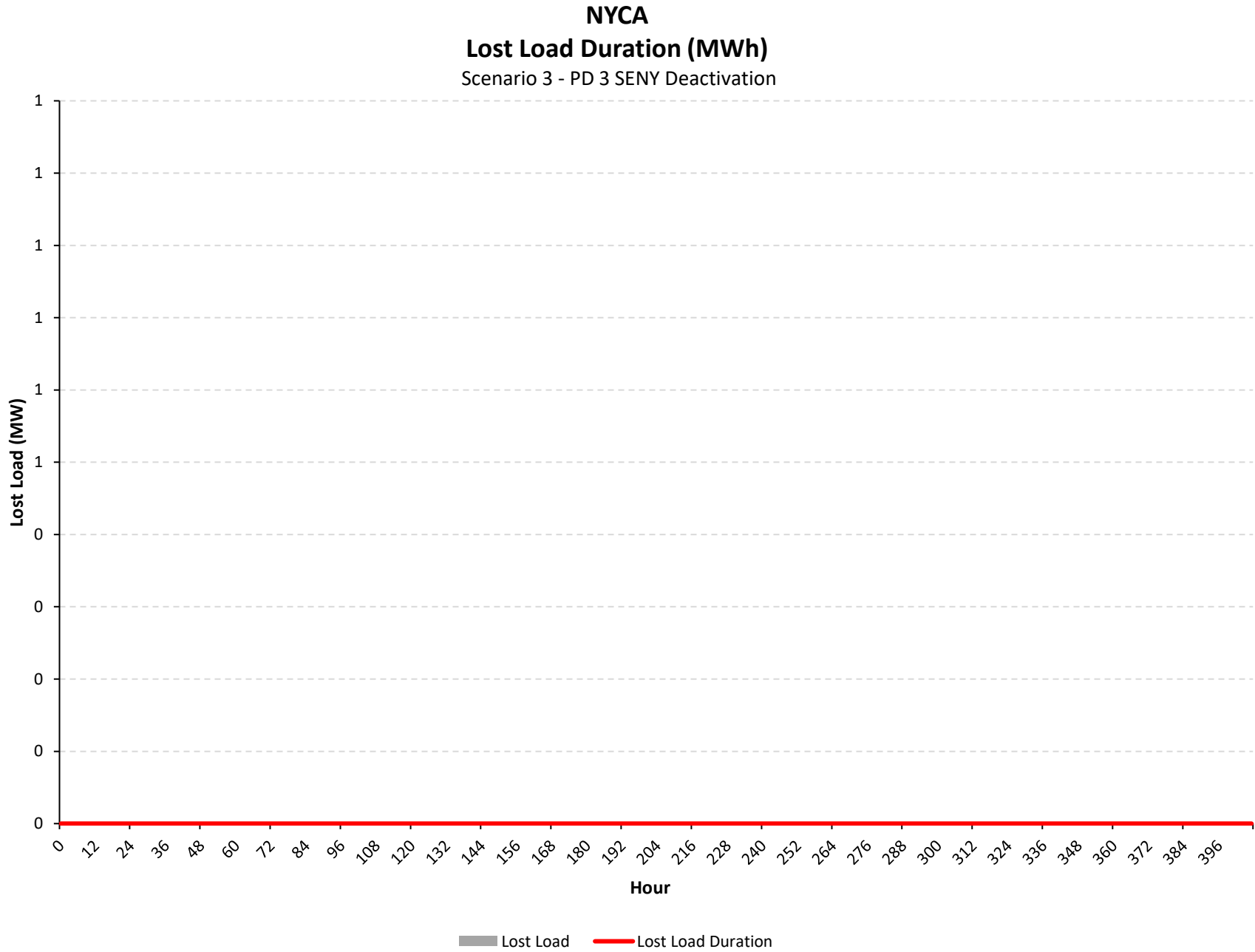


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 3 SENY Deactivation





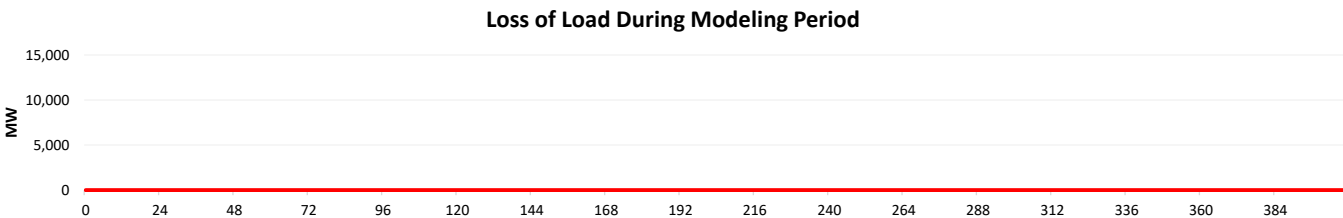
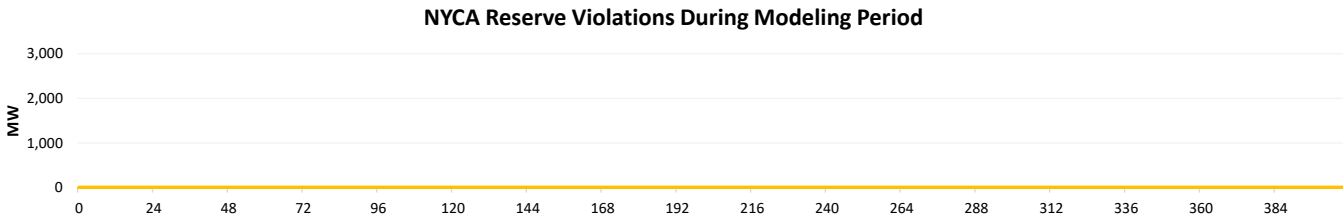
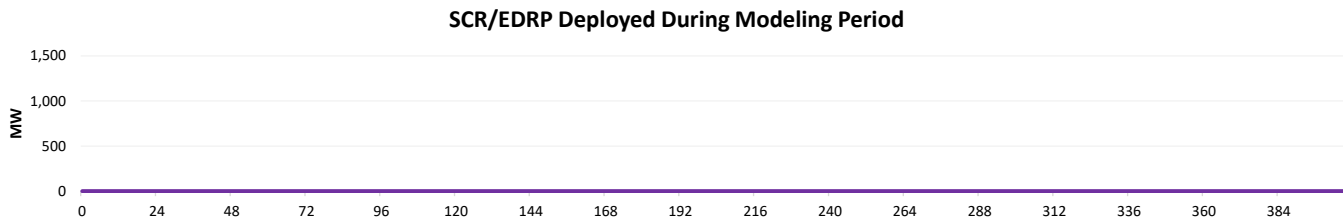
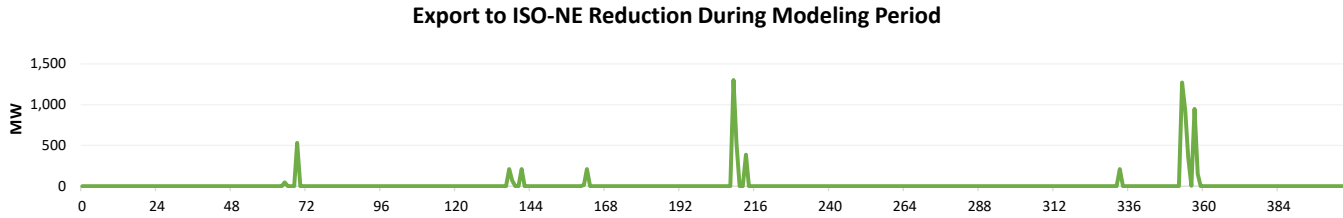
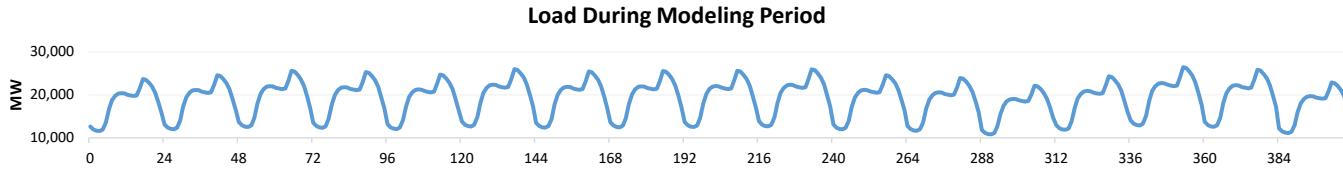
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 3 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	17
Total MWh	7,362
Avg. MW	18.0

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

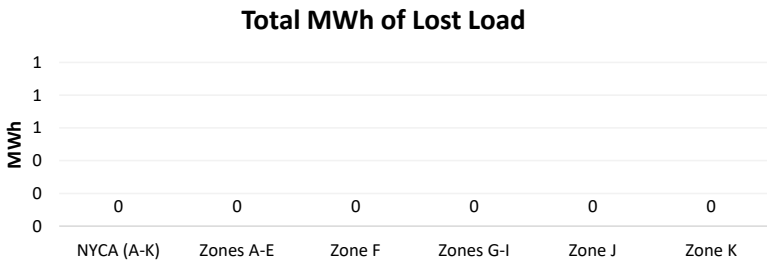
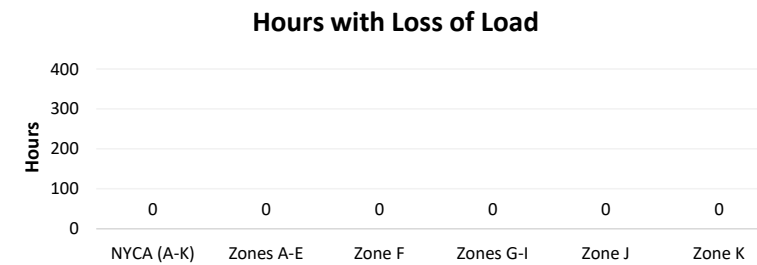
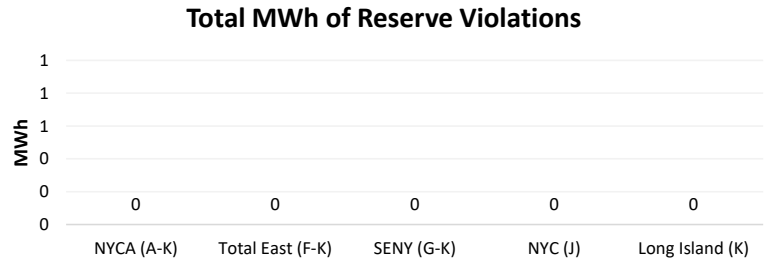
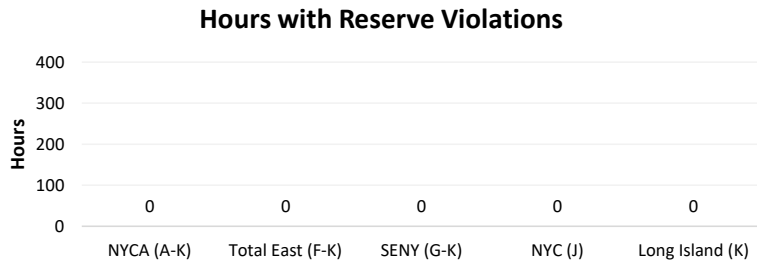
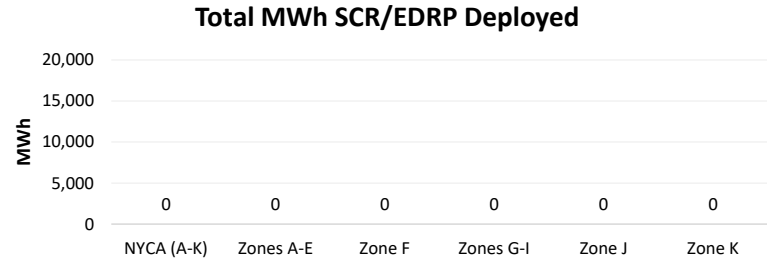
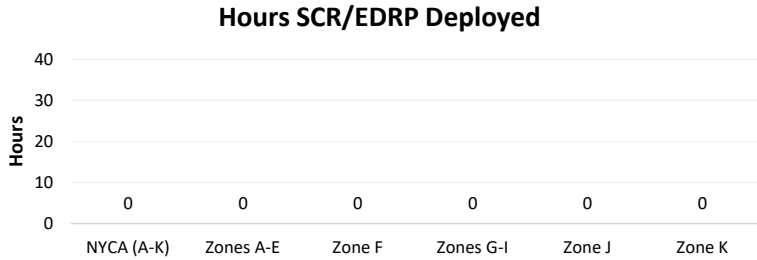
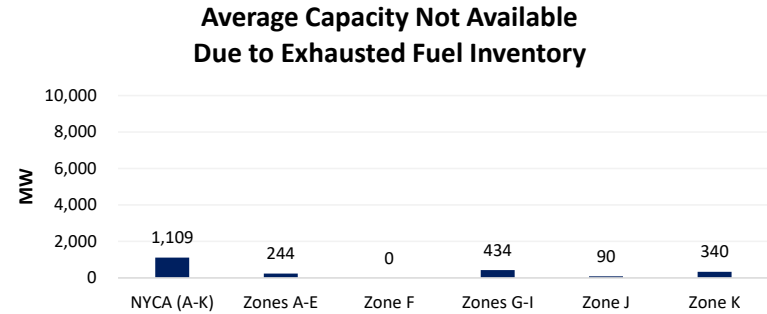
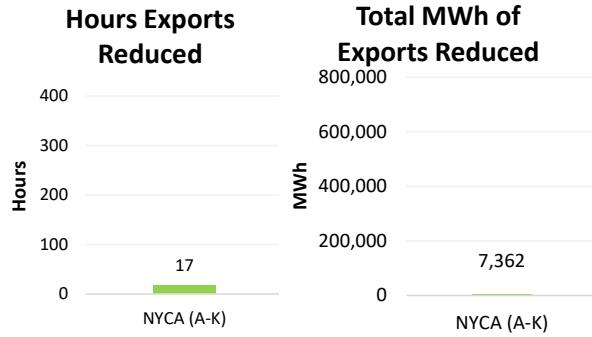
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

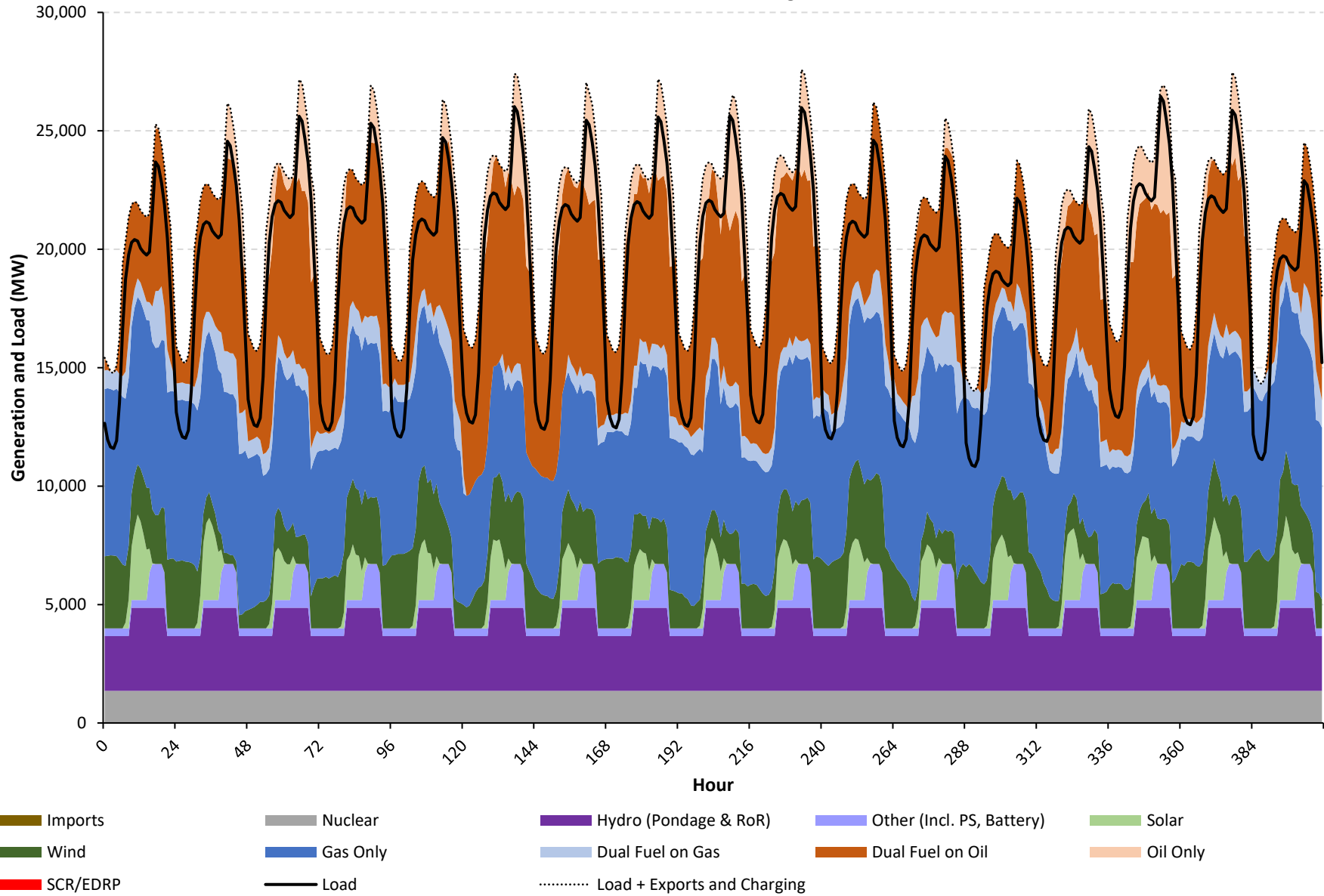
Full Period Results Summary

Case Name: Scenario 3 - PD 4 Nuclear Outage

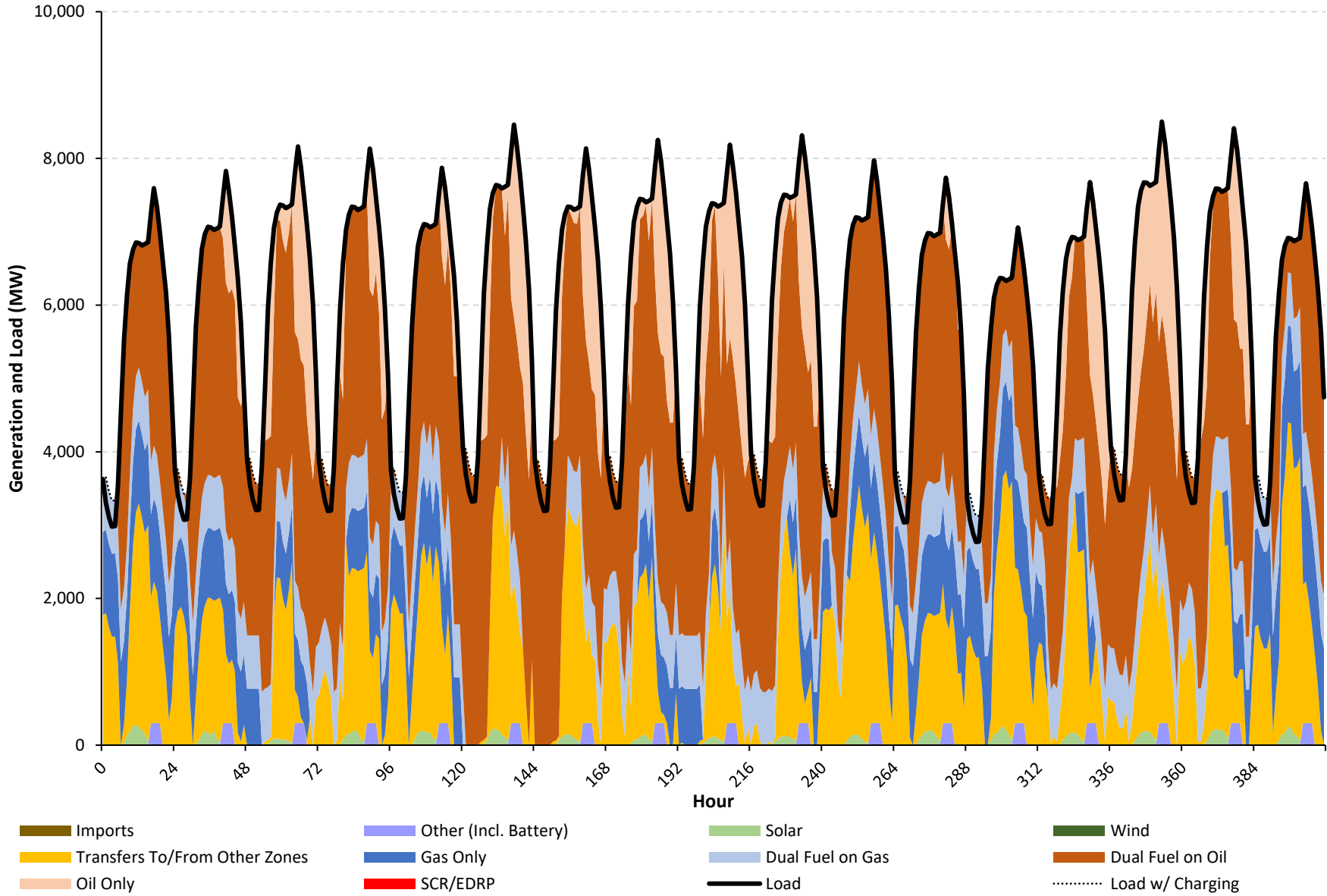
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW



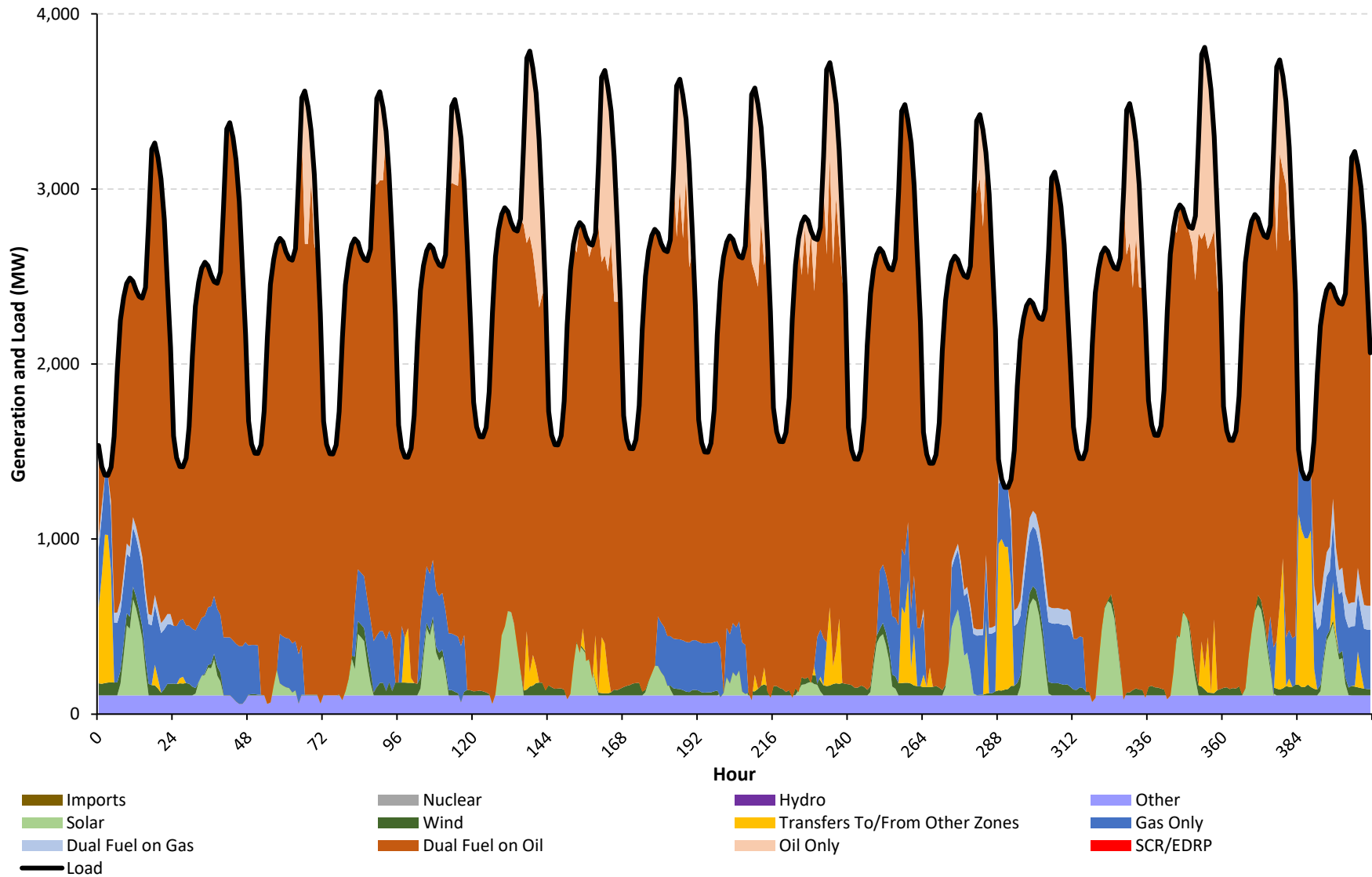
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 4 Nuclear Outage



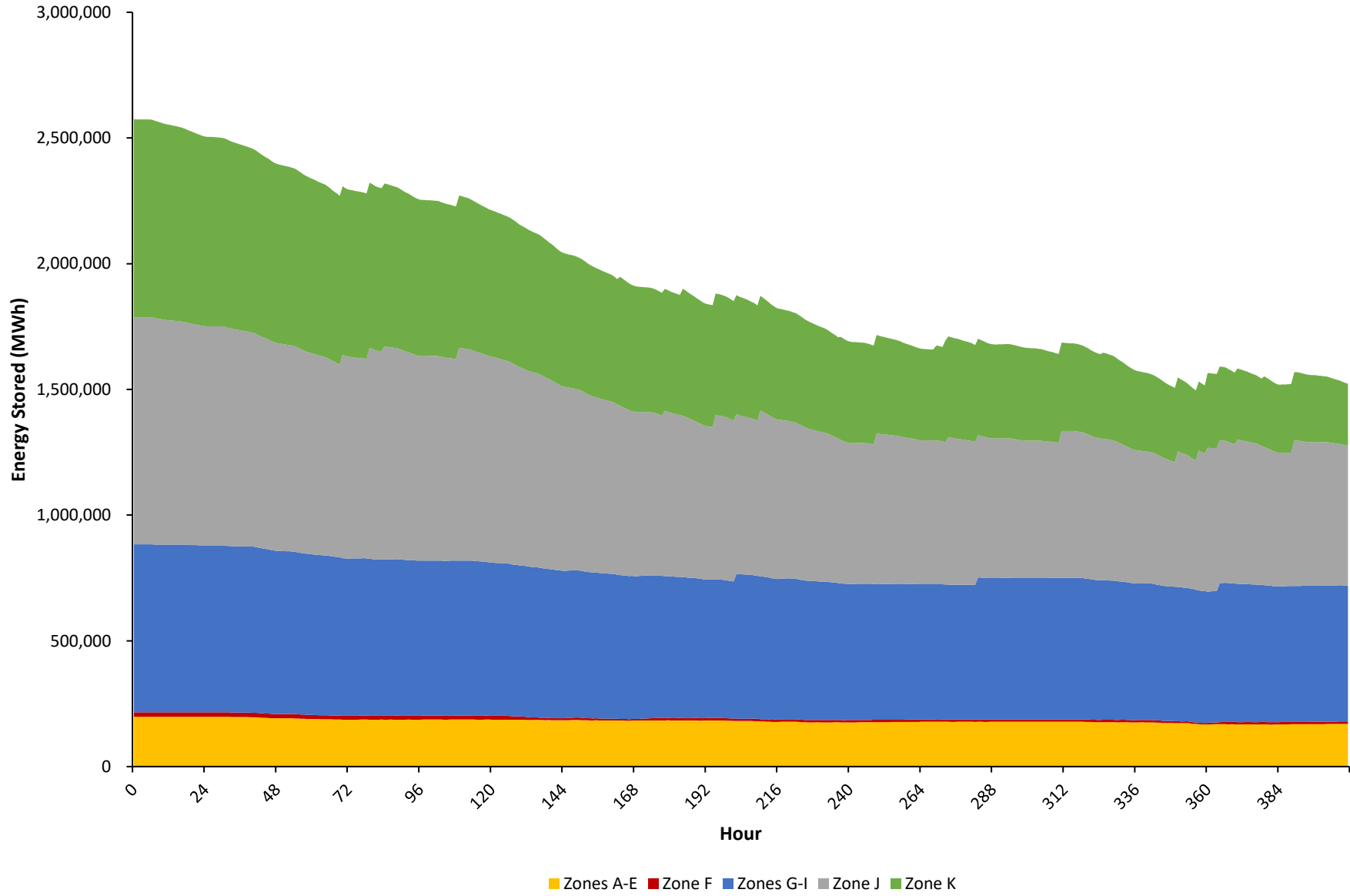
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 4 Nuclear Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 4 Nuclear Outage

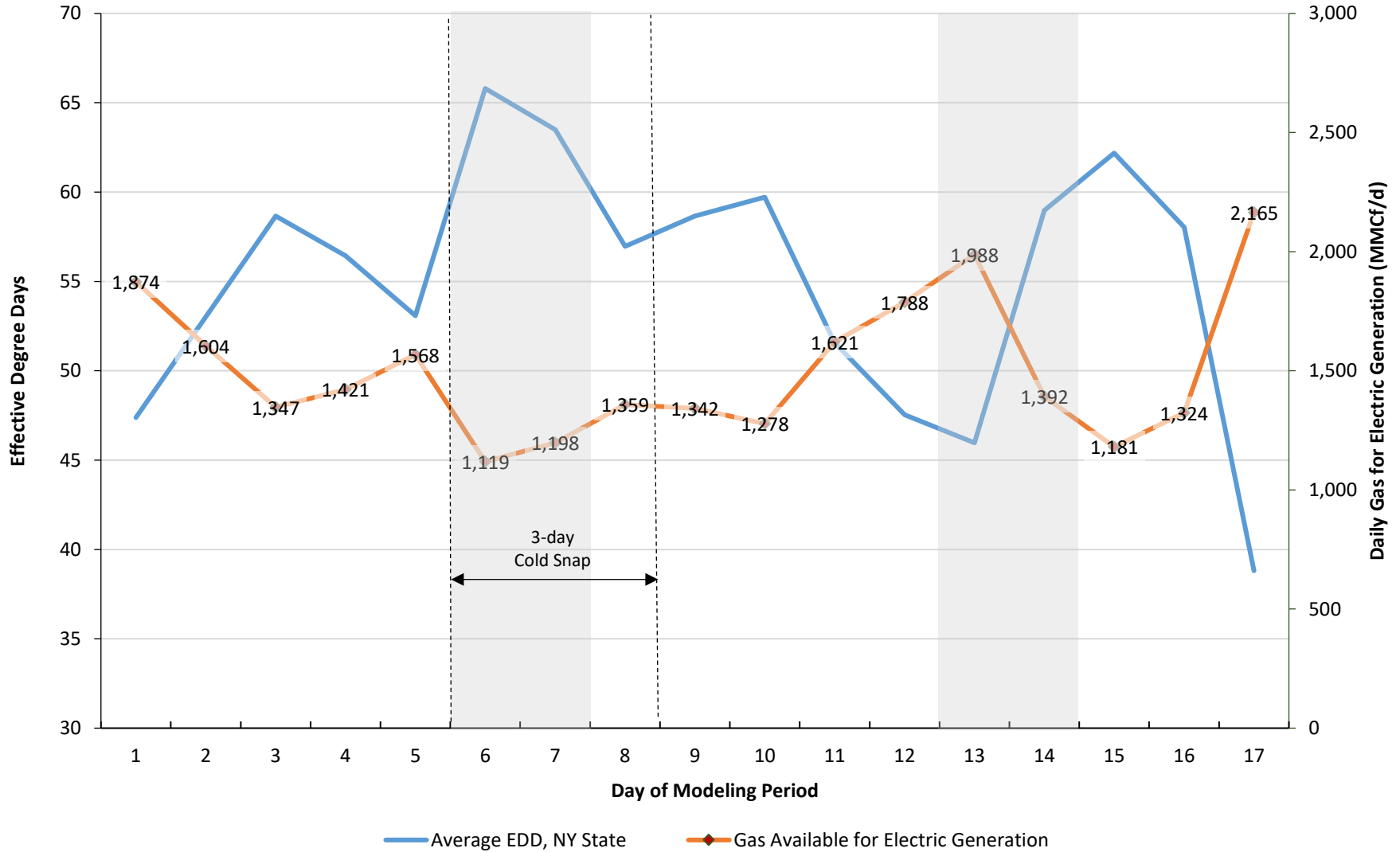


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 4 Nuclear Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

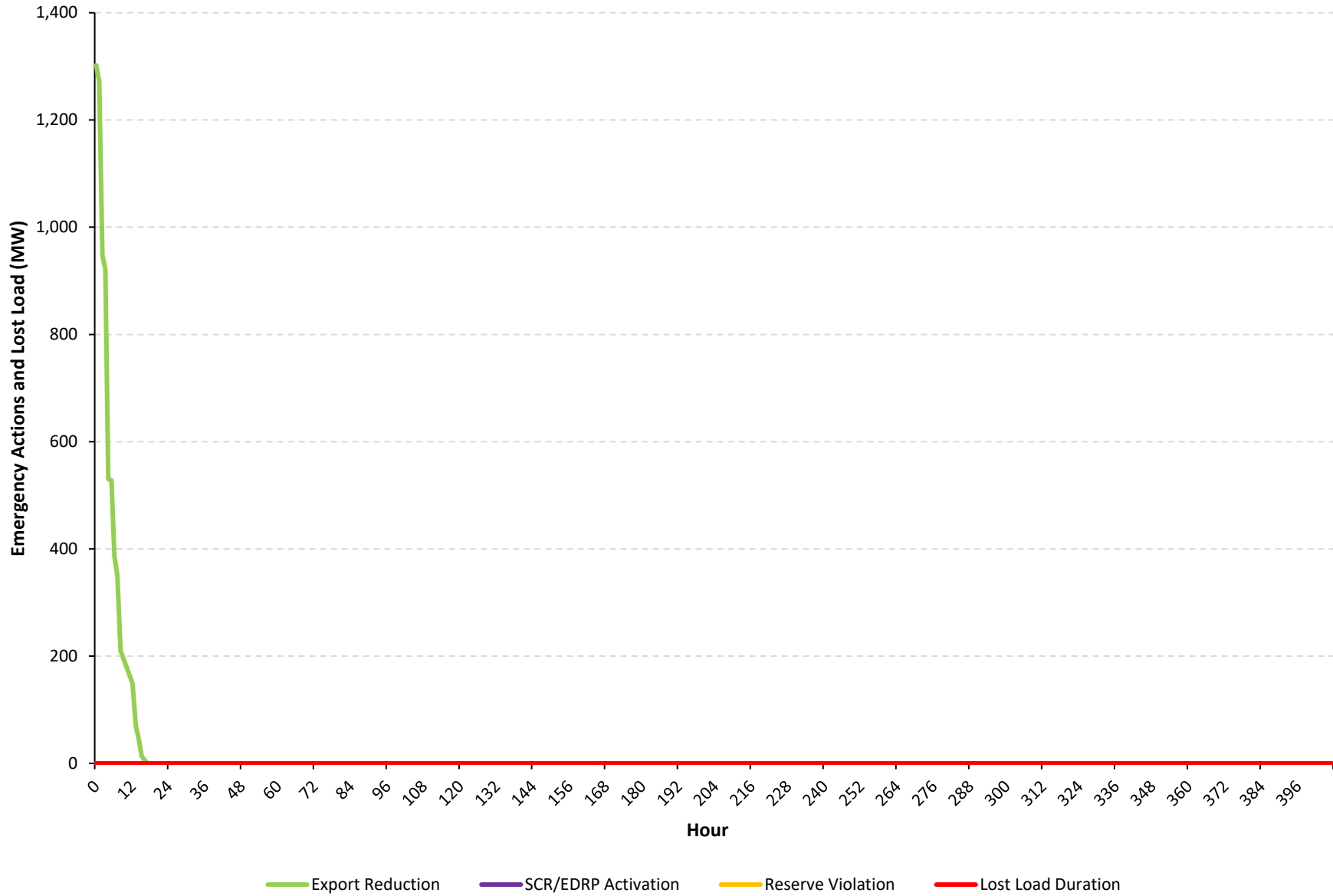
Scenario 3 - PD 4 Nuclear Outage



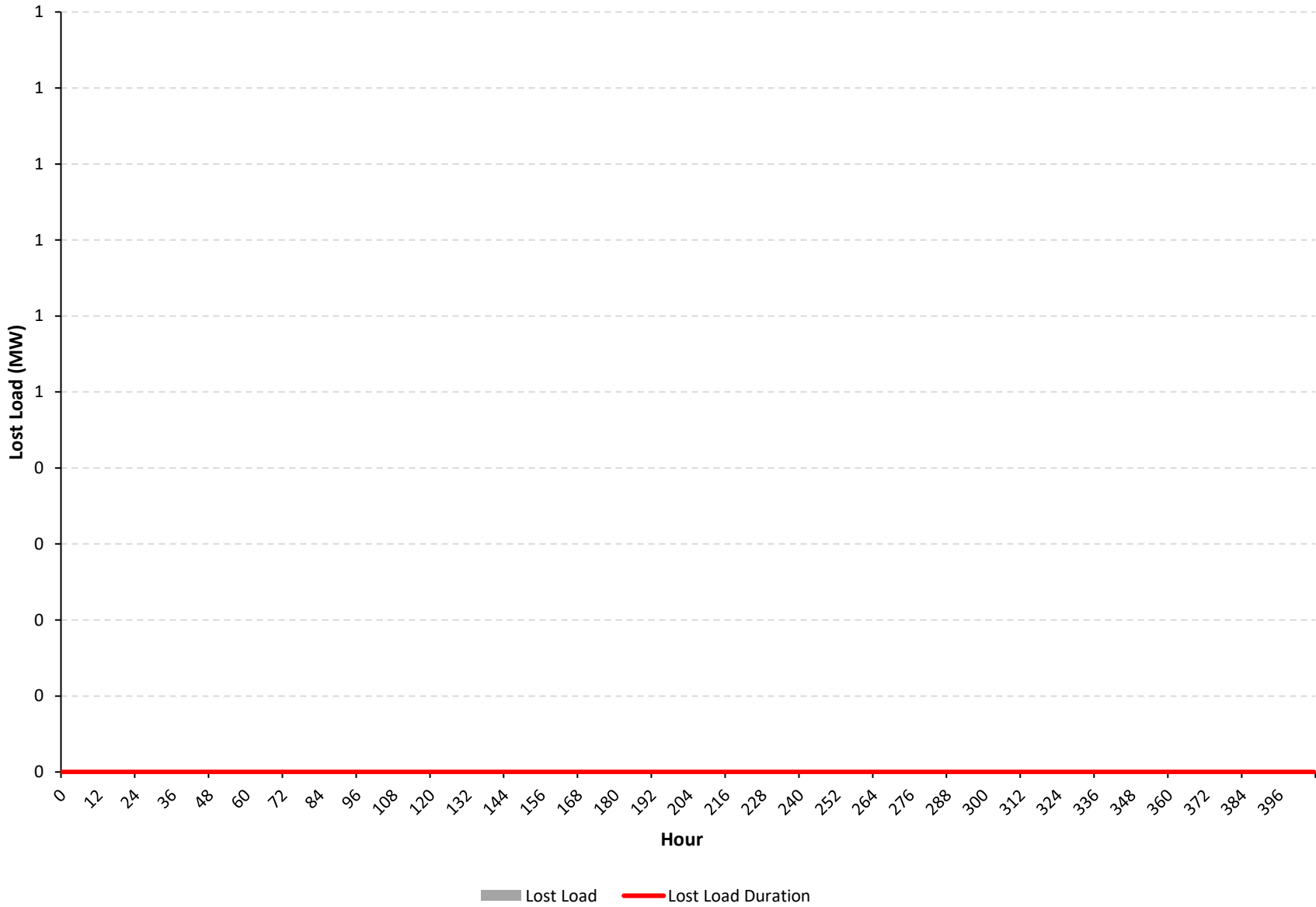
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 4 Nuclear Outage

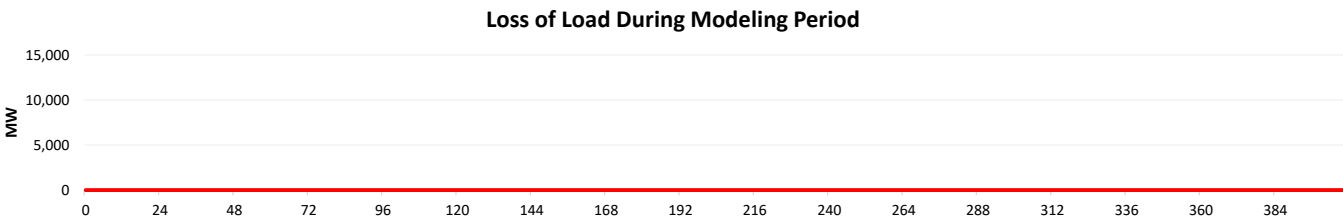
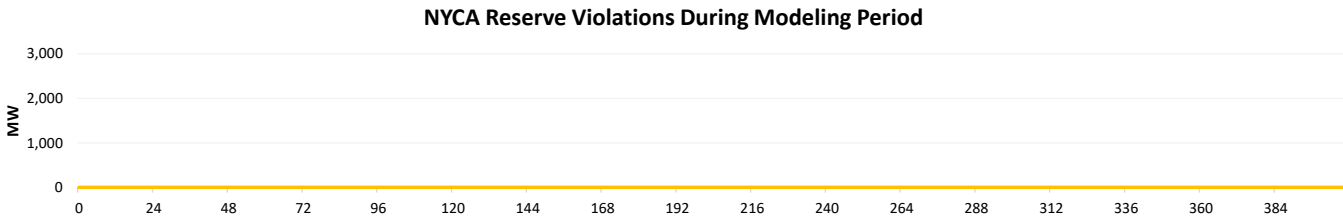
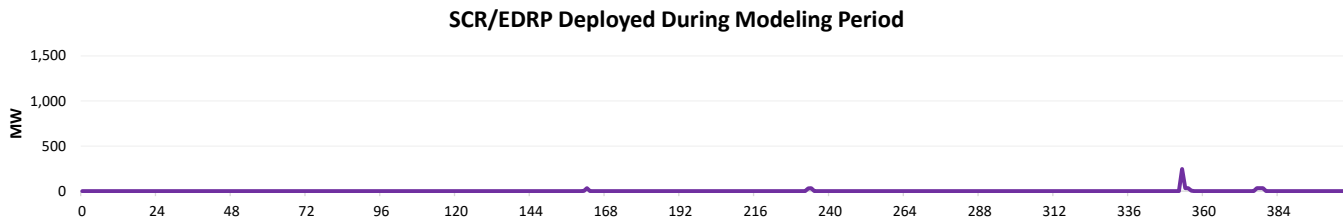
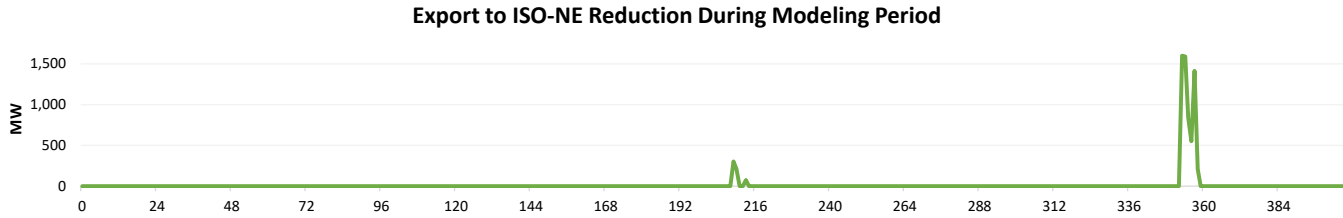
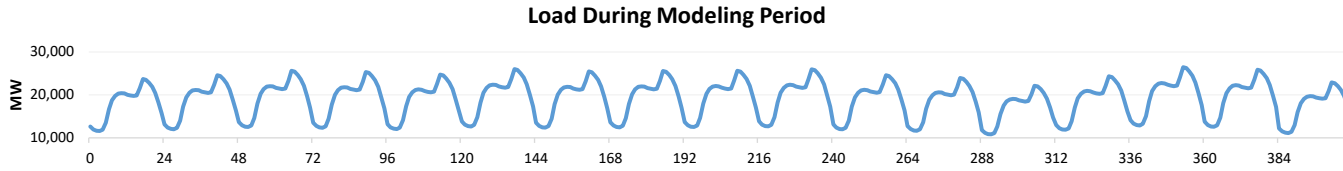


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks
Case: Scenario 3 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 3 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	9
Total MWh	6,790
Avg. MW	16.6

SCR Deployment	
Total Hrs.	11
Total MWh	506
Avg. MW	1.2

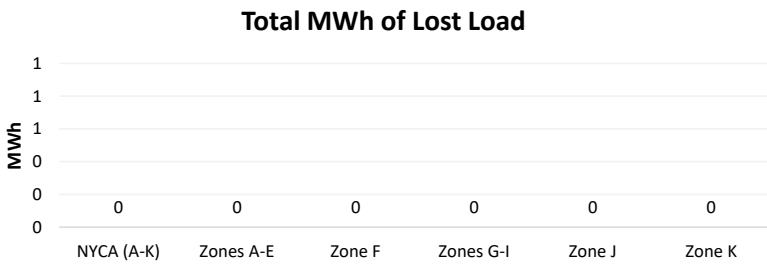
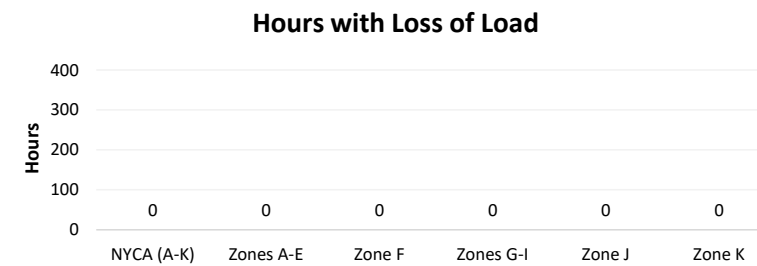
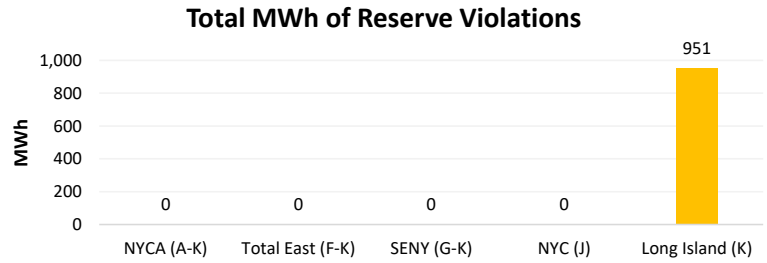
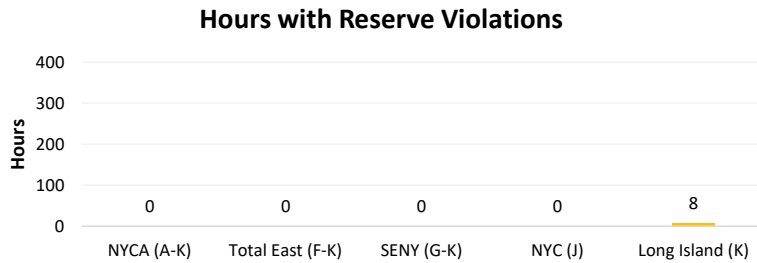
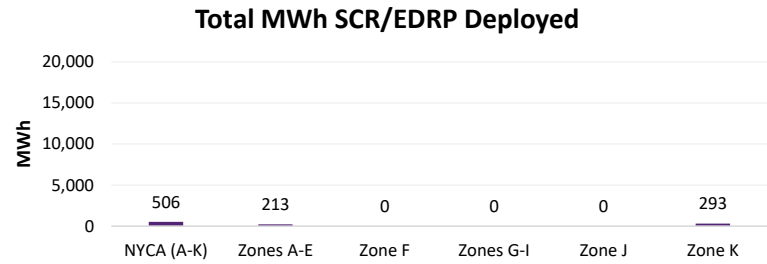
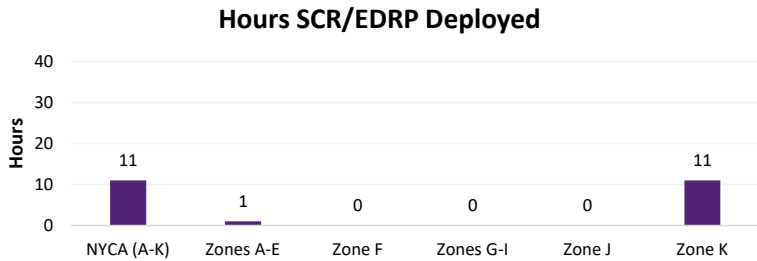
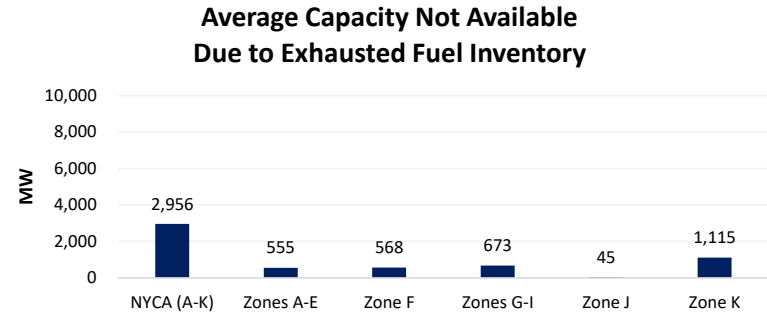
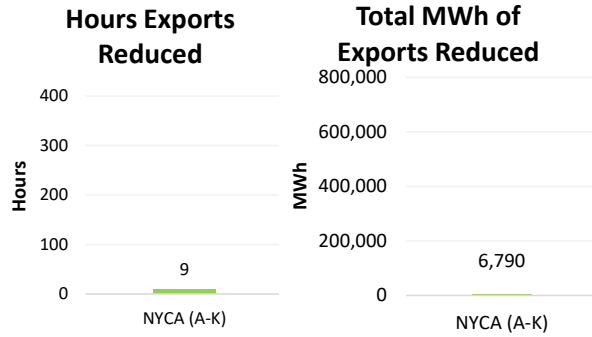
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	162
First Hour, Zone K	162

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

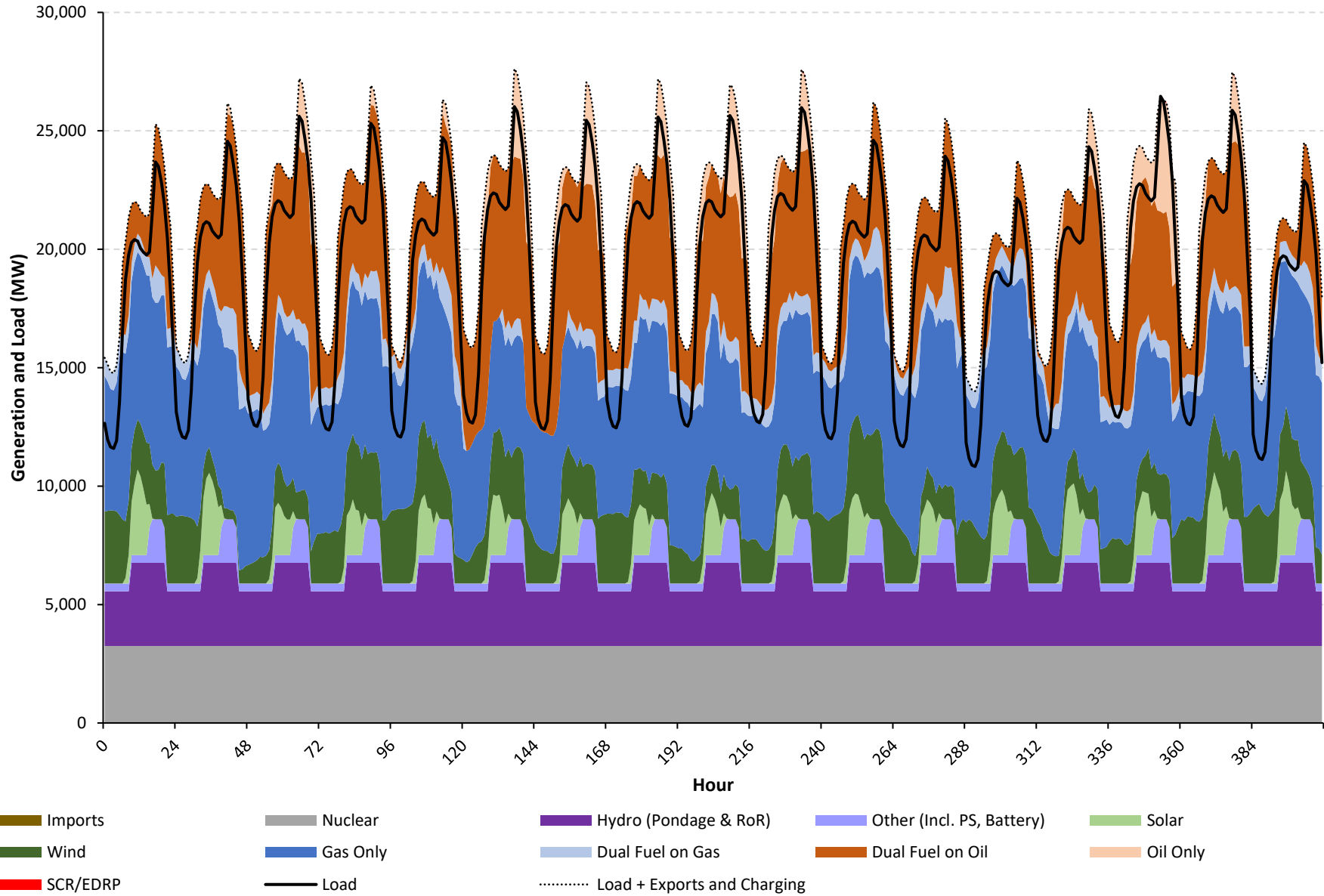
Full Period Results Summary

Case Name: Scenario 3 - PD 5 No Truck Refill

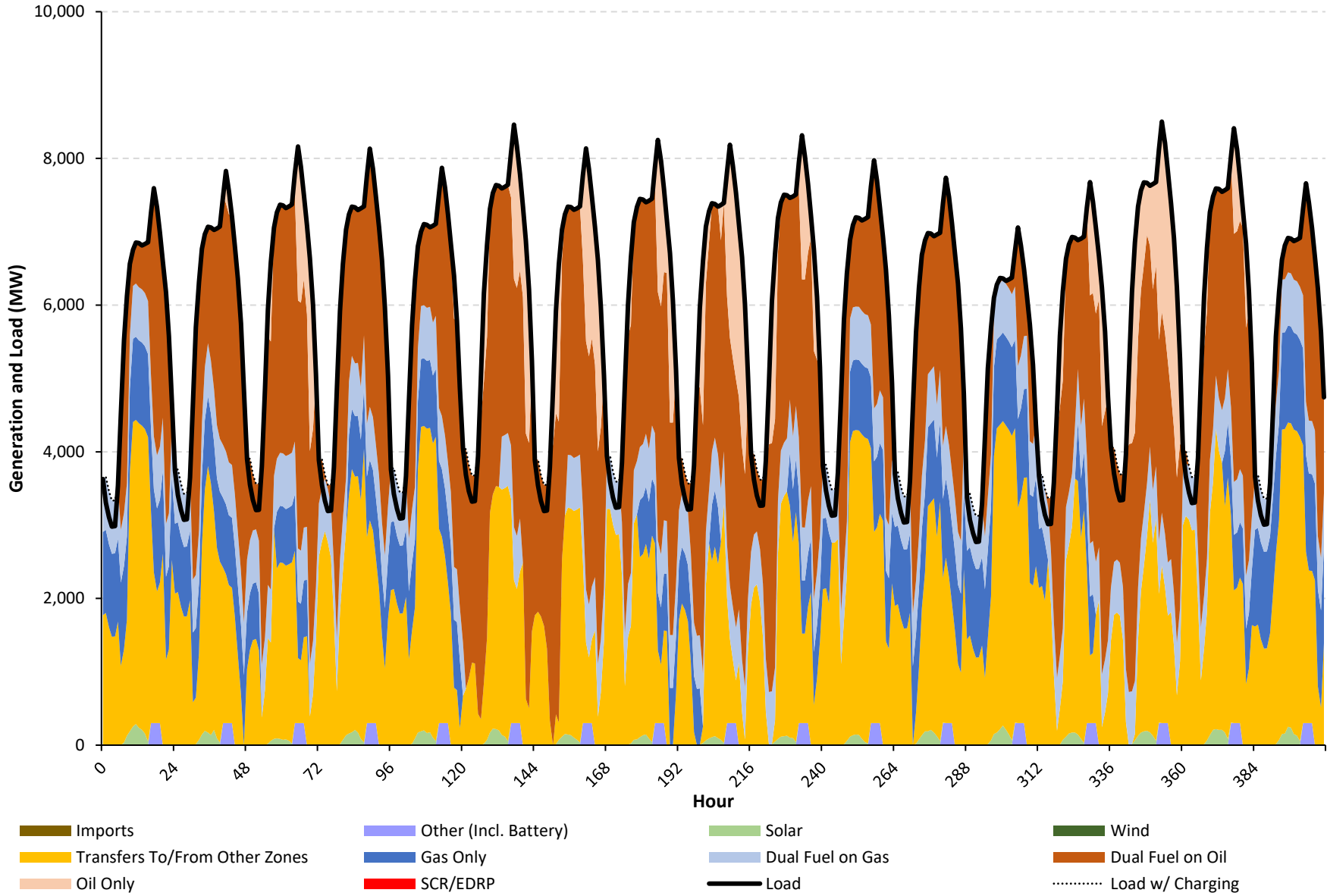
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



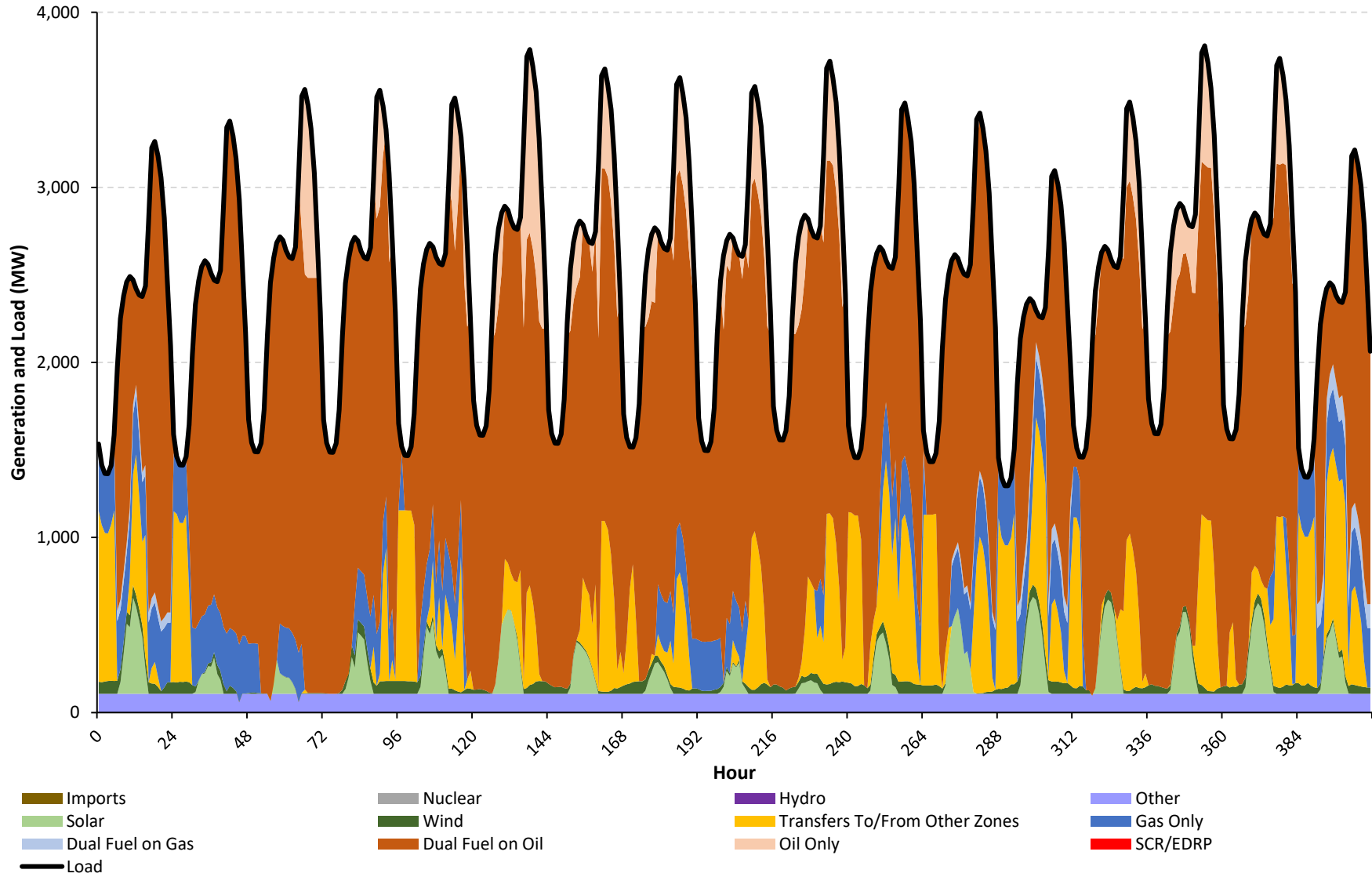
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 5 No Truck Refill



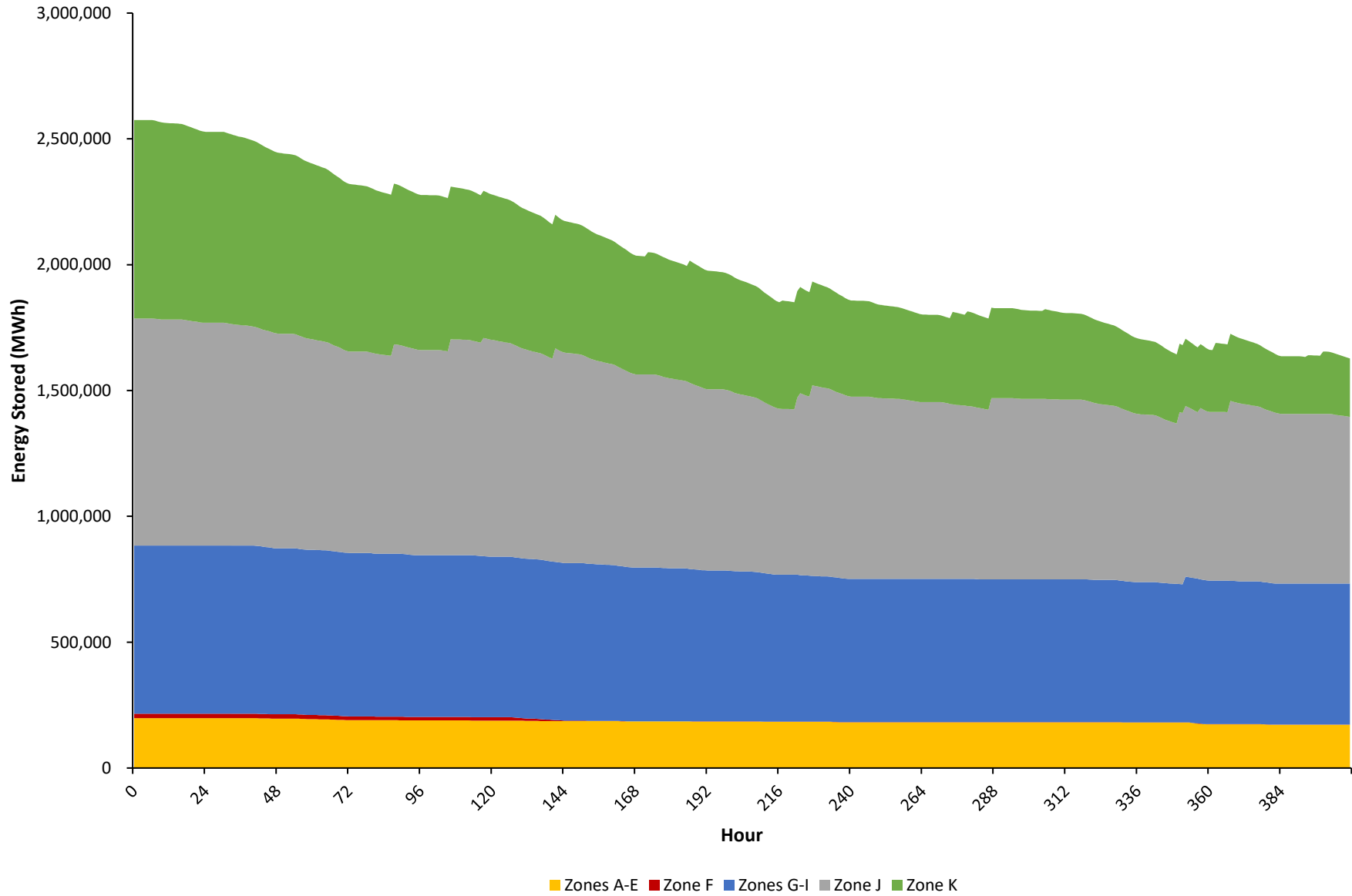
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 5 No Truck Refill

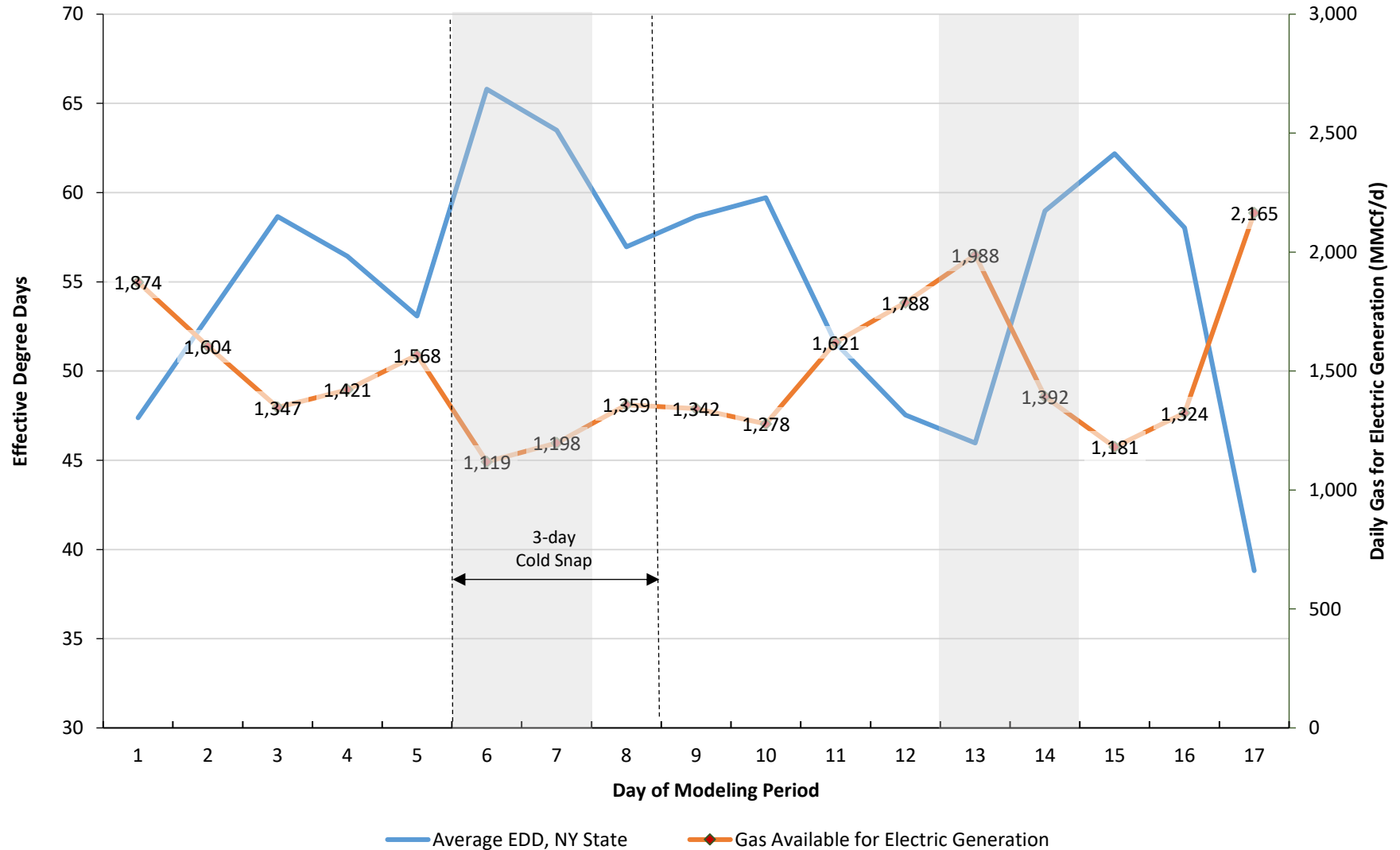


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

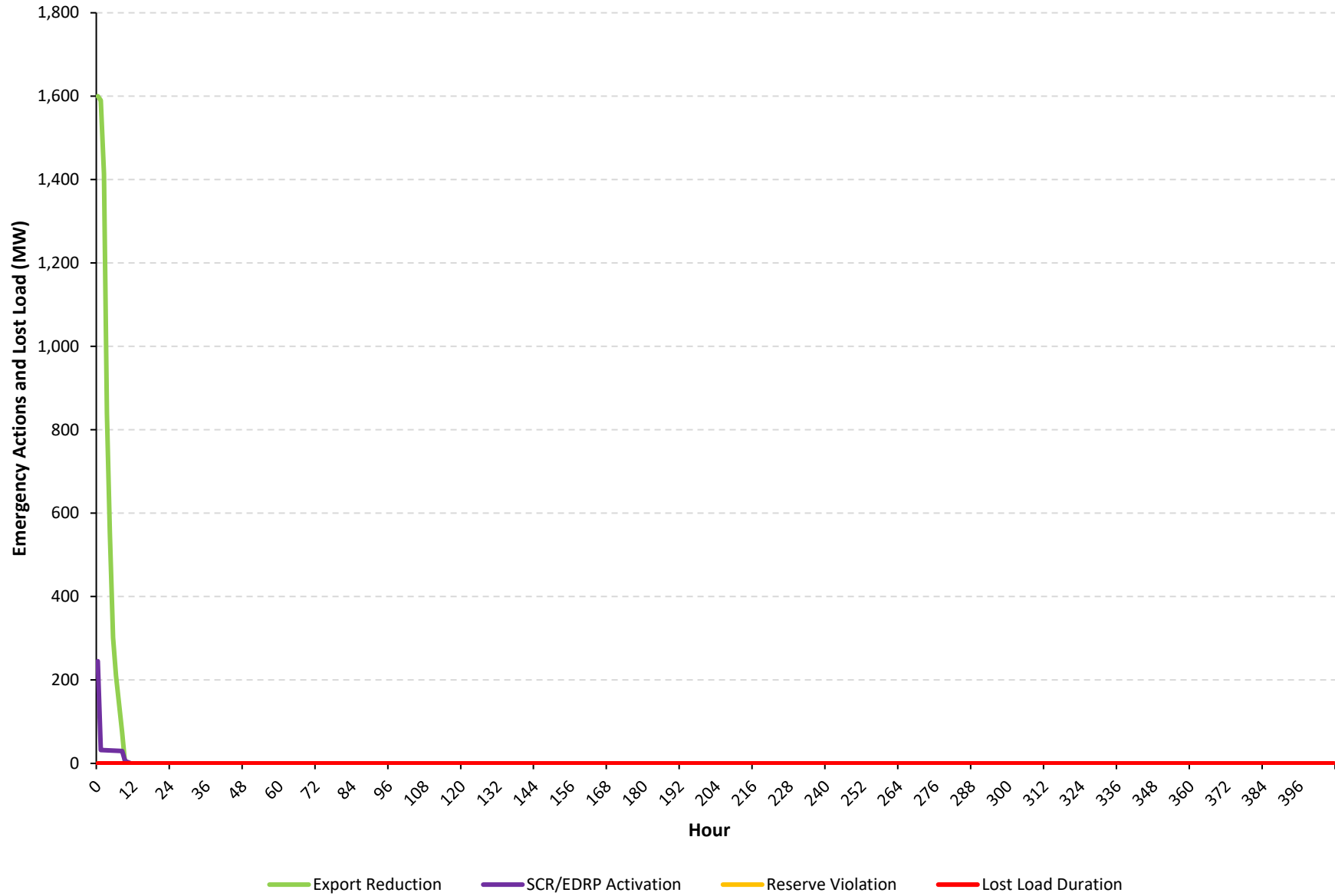
Scenario 3 - PD 5 No Truck Refill



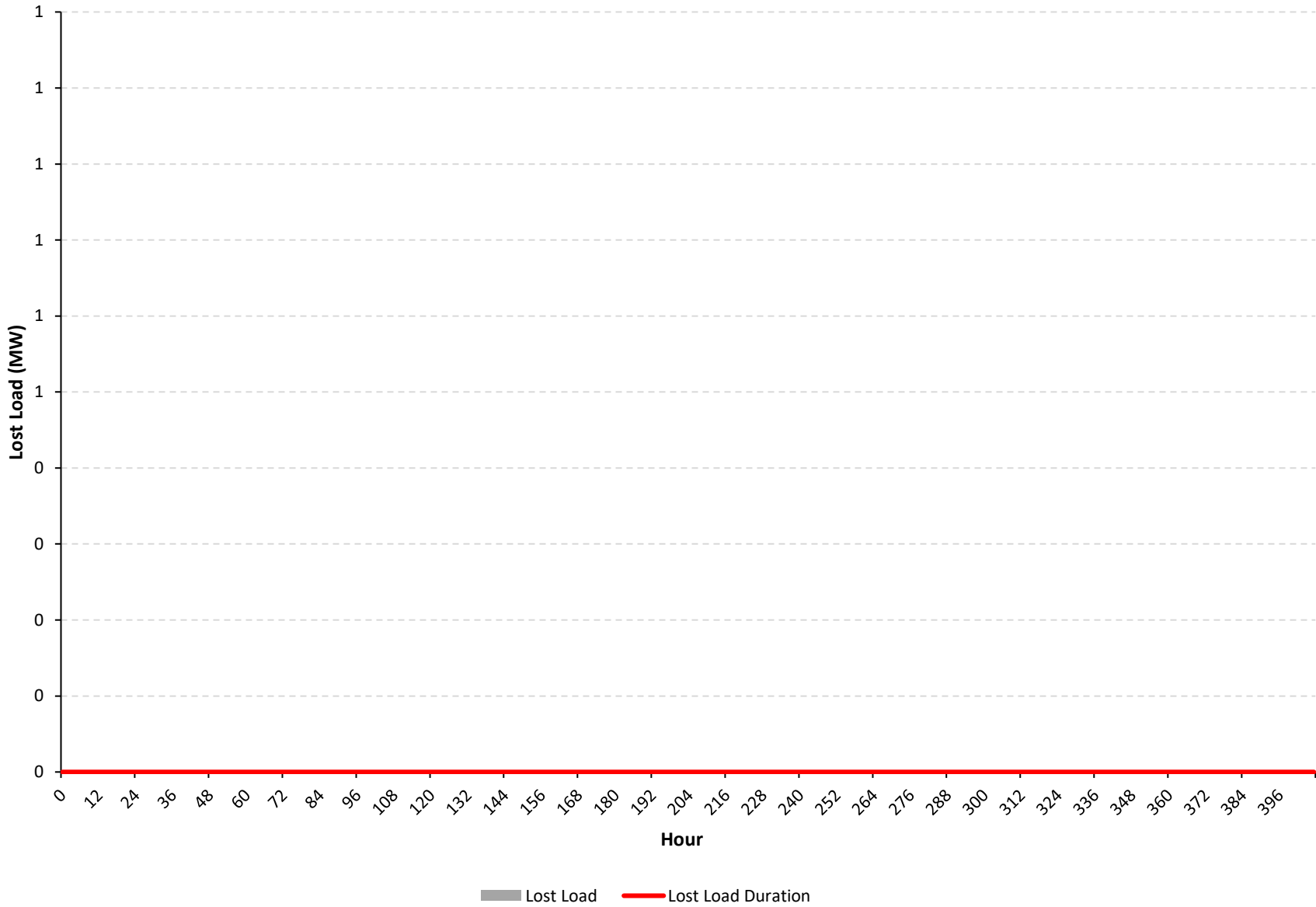
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 5 No Truck Refill



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 5 No Truck Refill



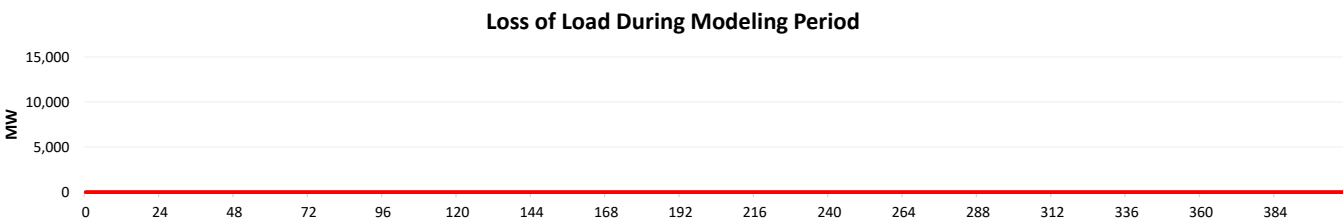
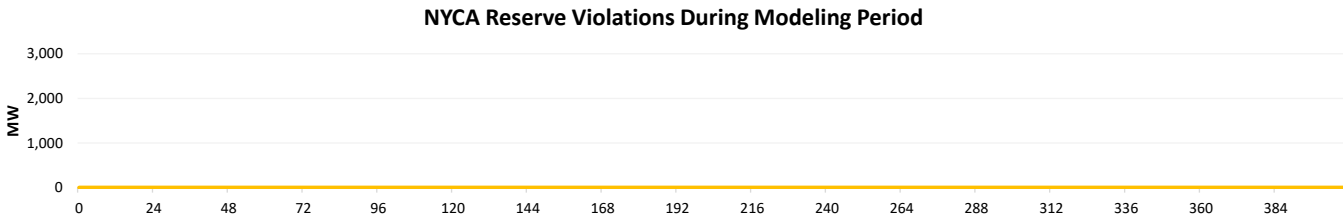
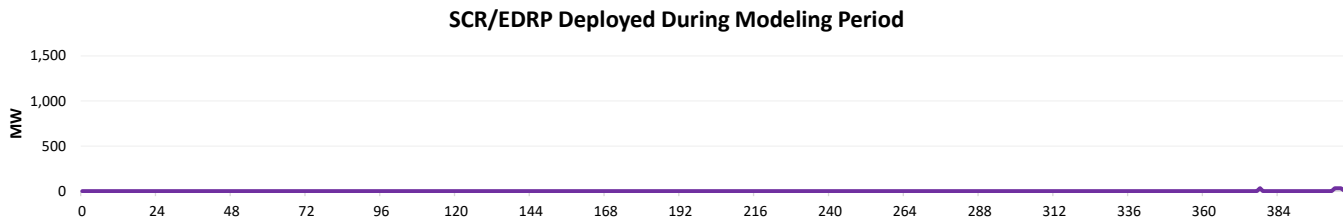
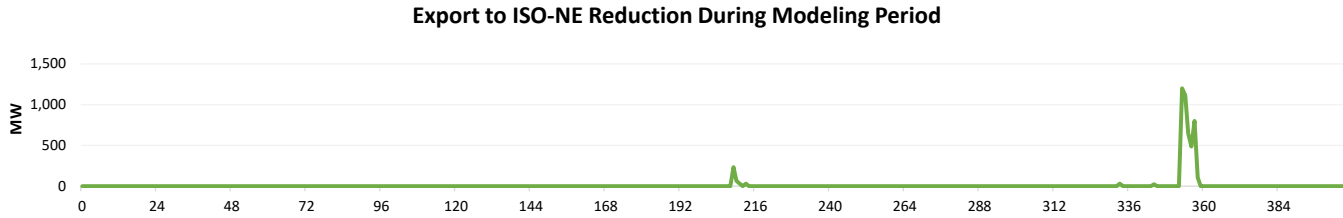
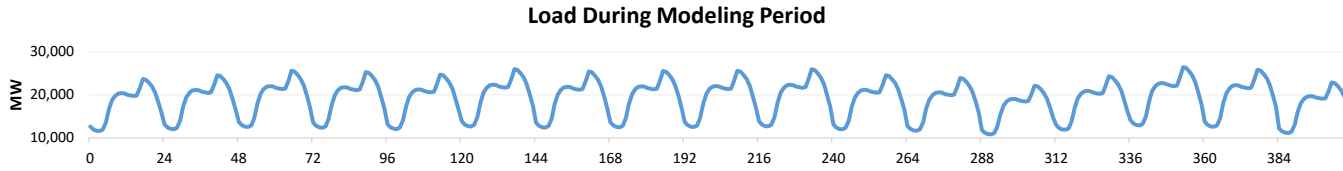
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 3 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	12
Total MWh	4,768
Avg. MW	11.7

SCR Deployment	
Total Hrs.	5
Total MWh	136
Avg. MW	0.3

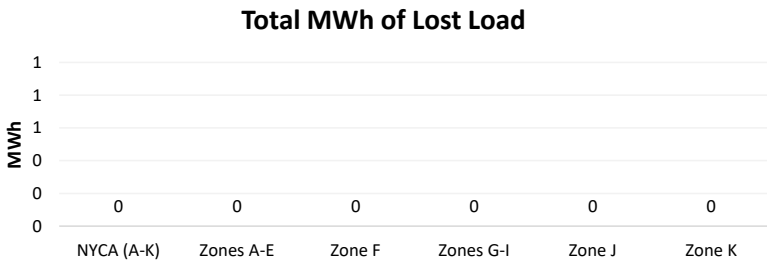
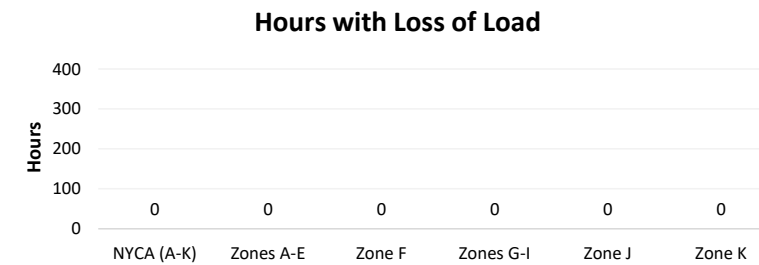
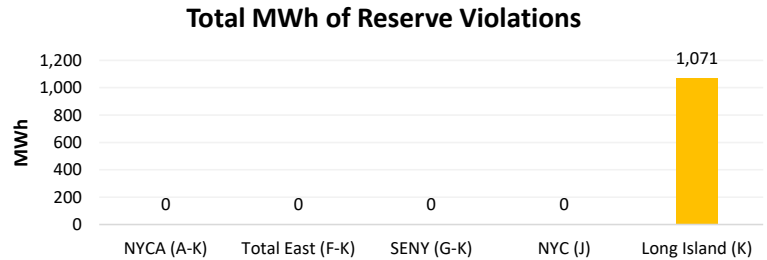
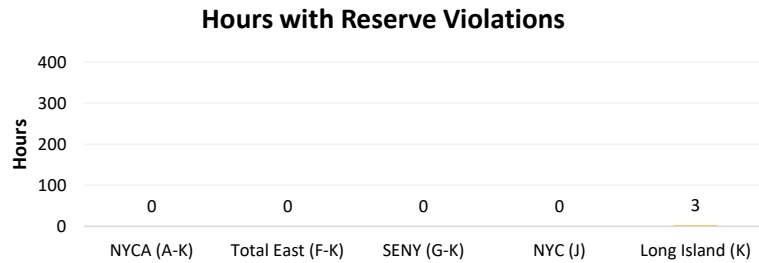
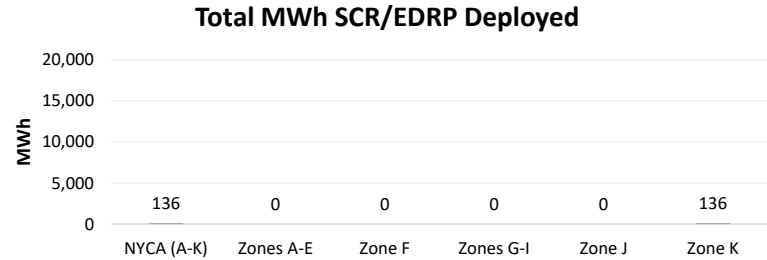
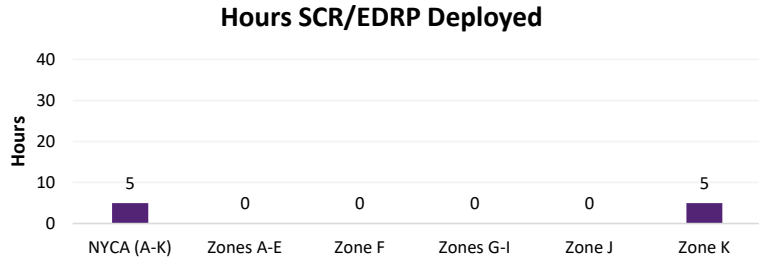
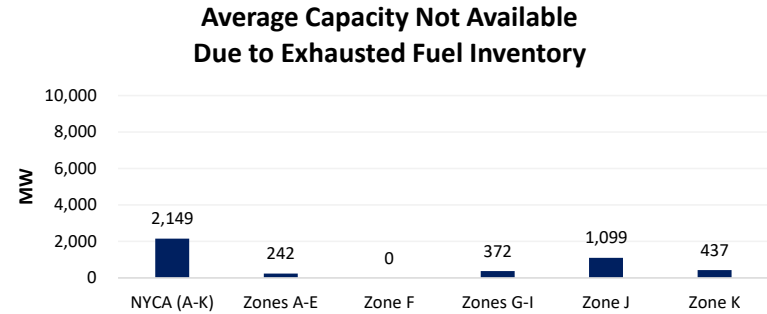
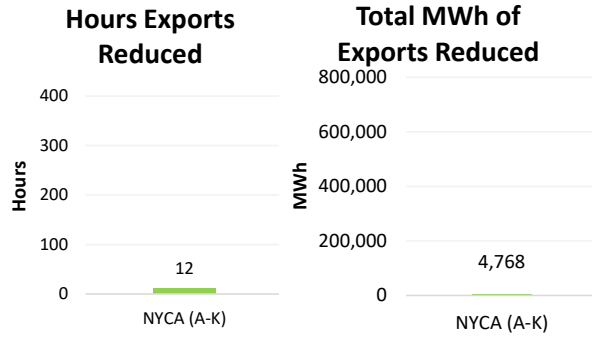
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	402
First Hour, Zone K	402

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

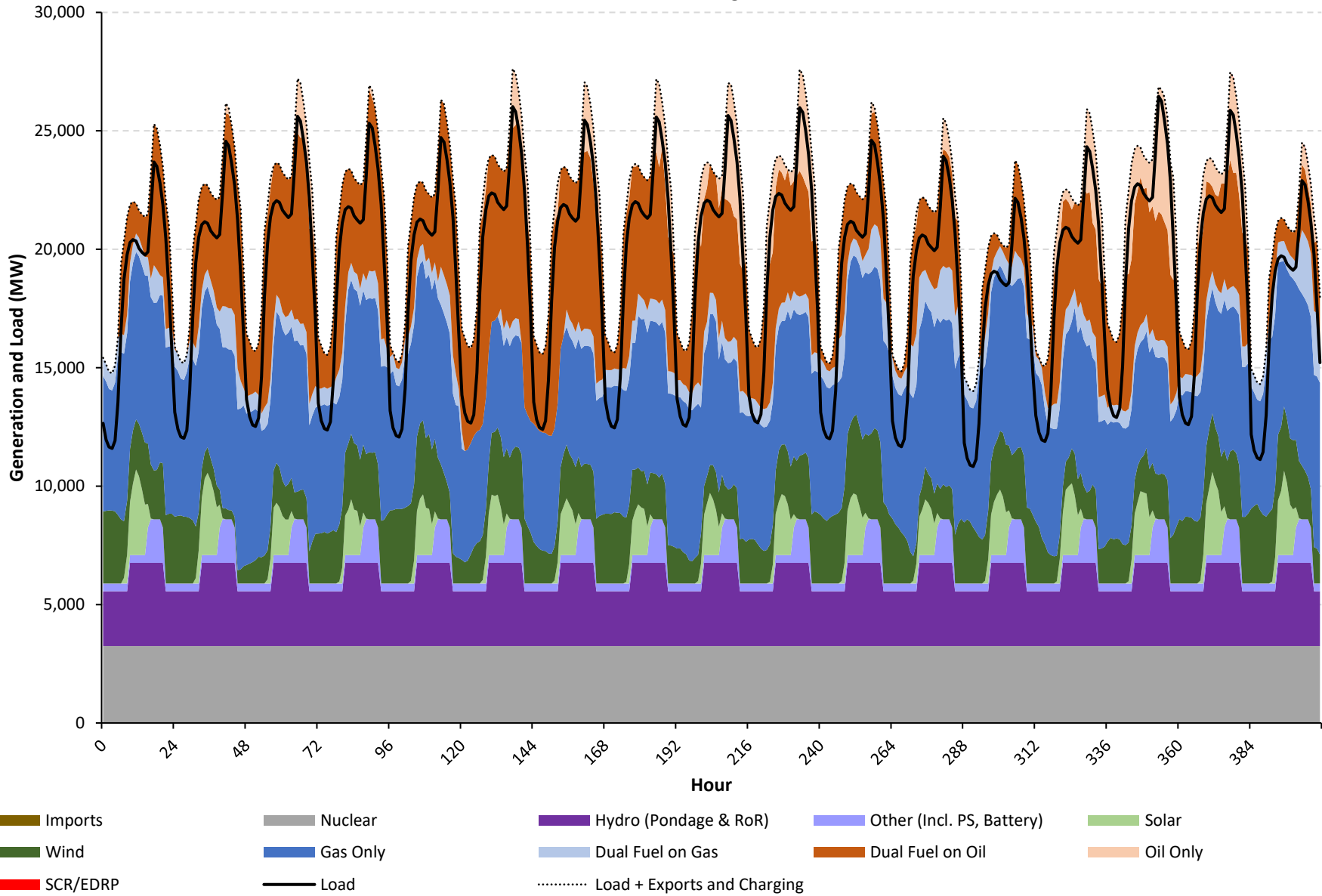
Full Period Results Summary

Case Name: Scenario 3 - PD 6 No Barge Refill

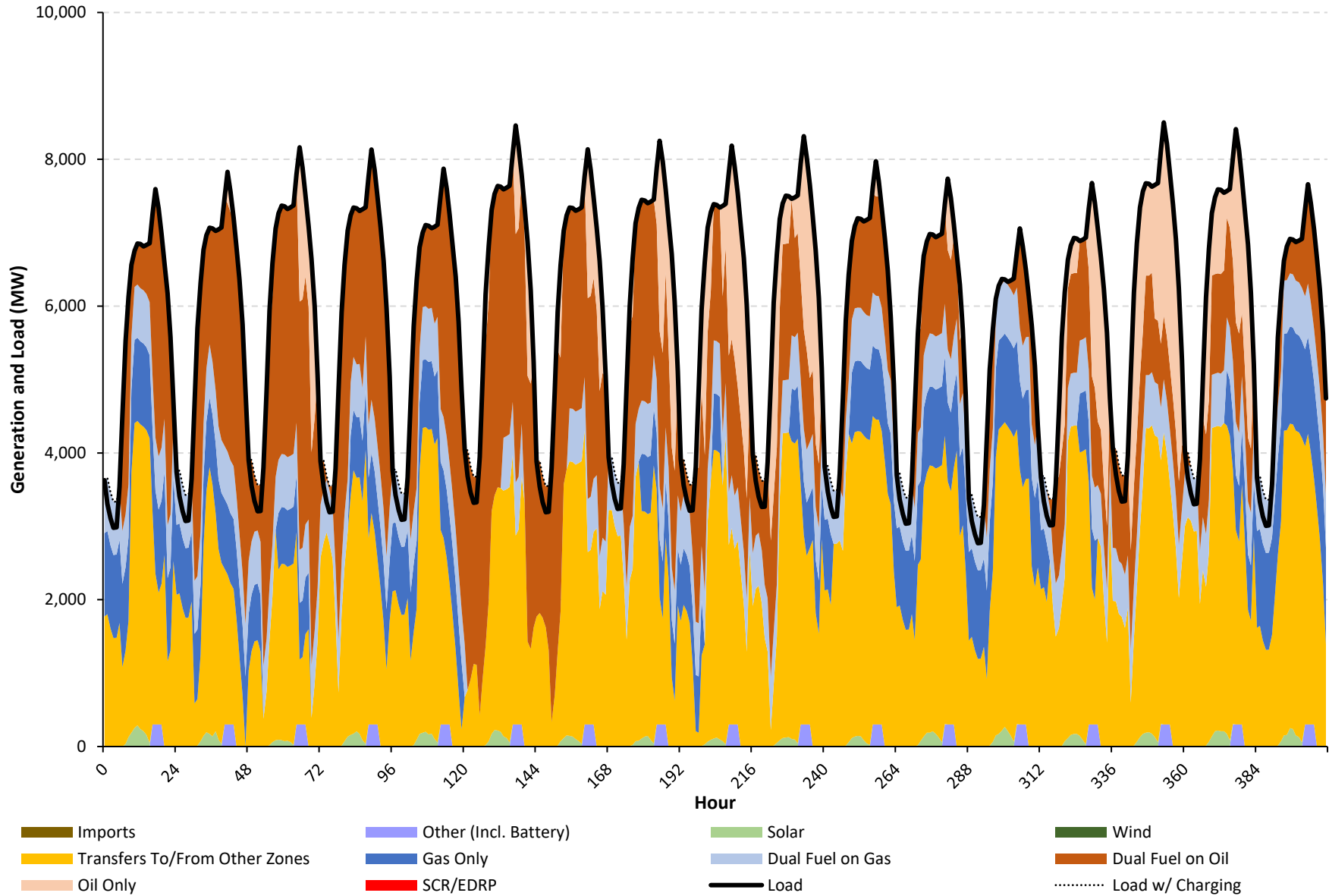
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



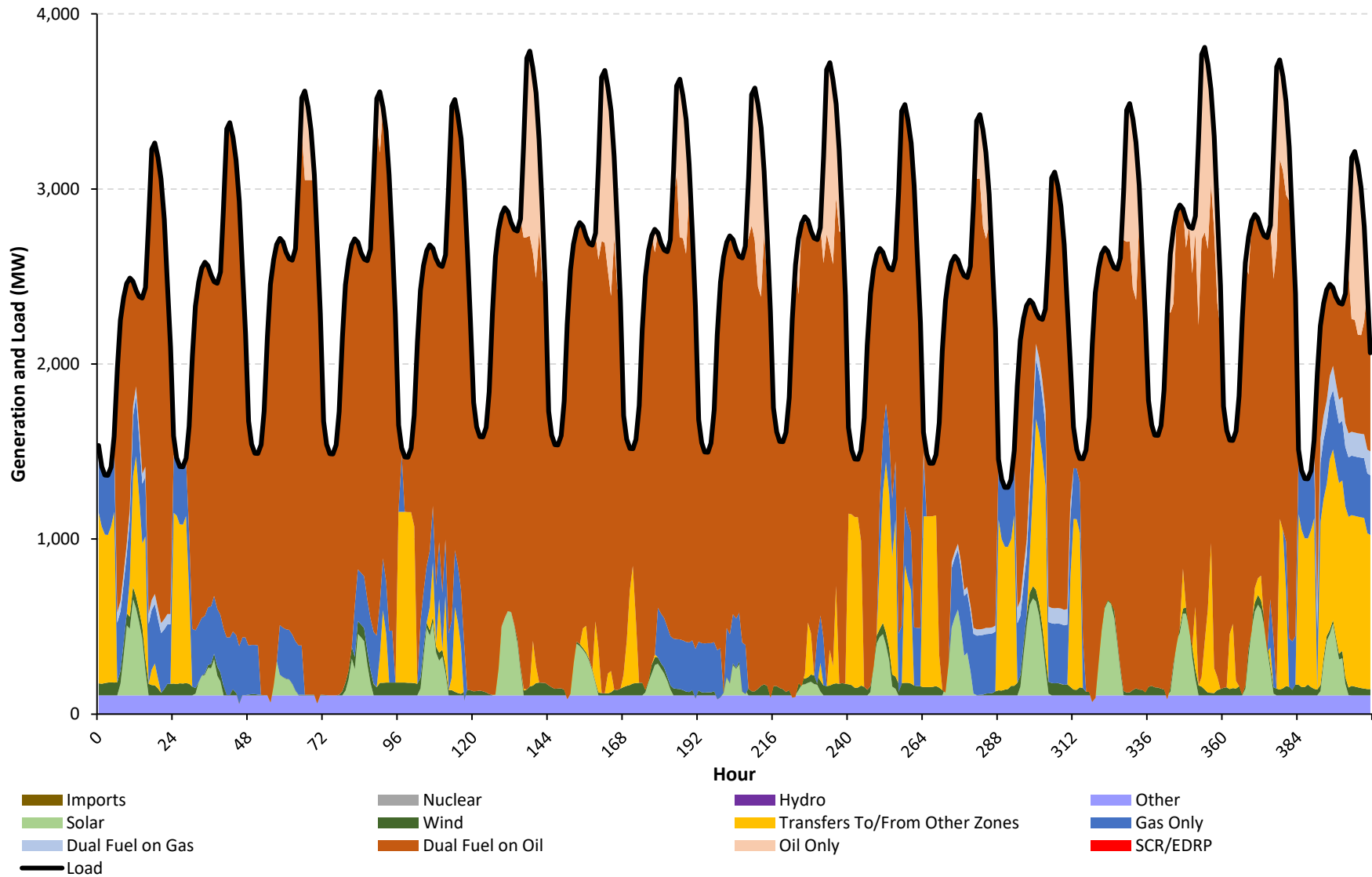
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 6 No Barge Refill



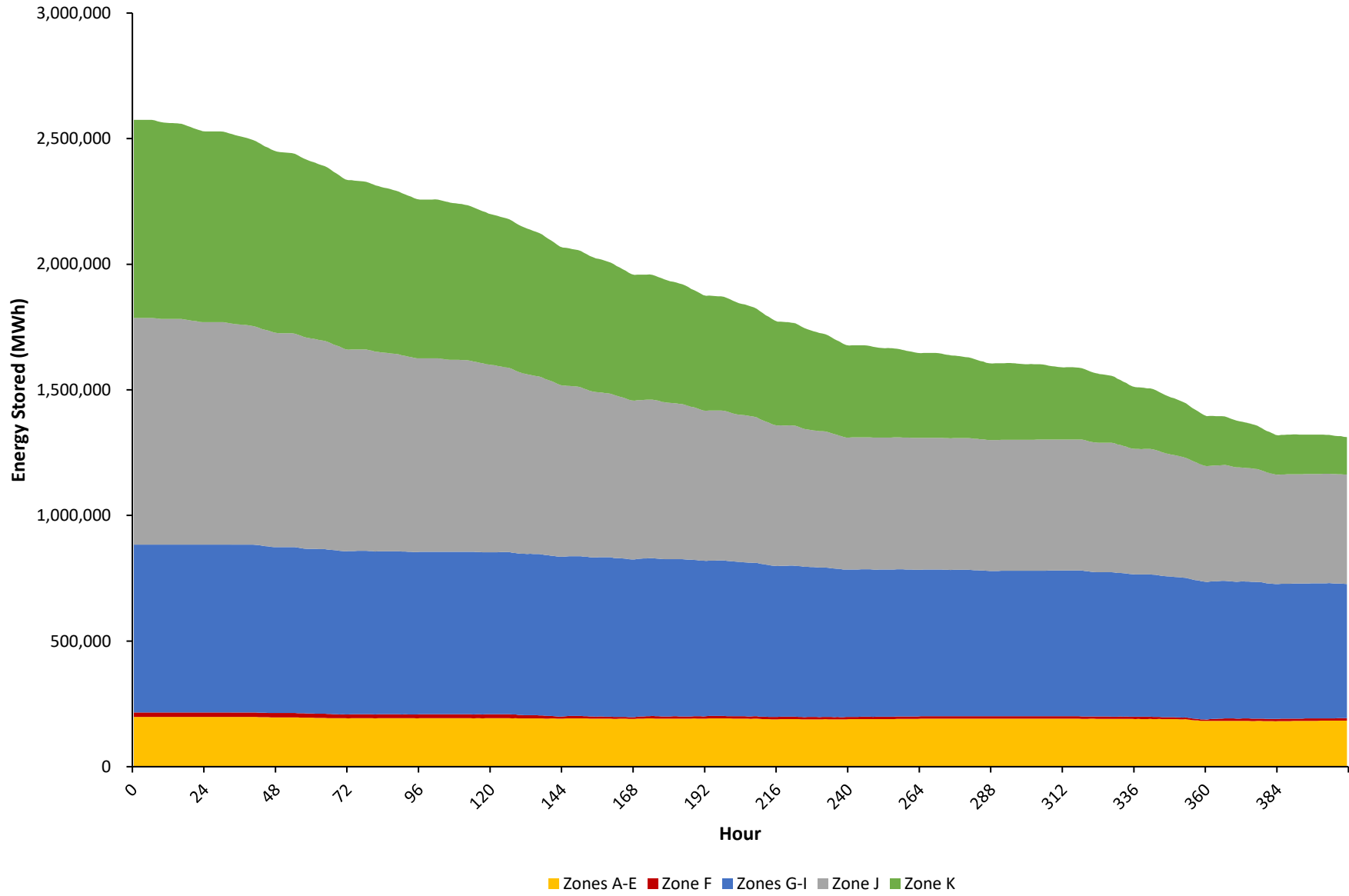
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 6 No Barge Refill

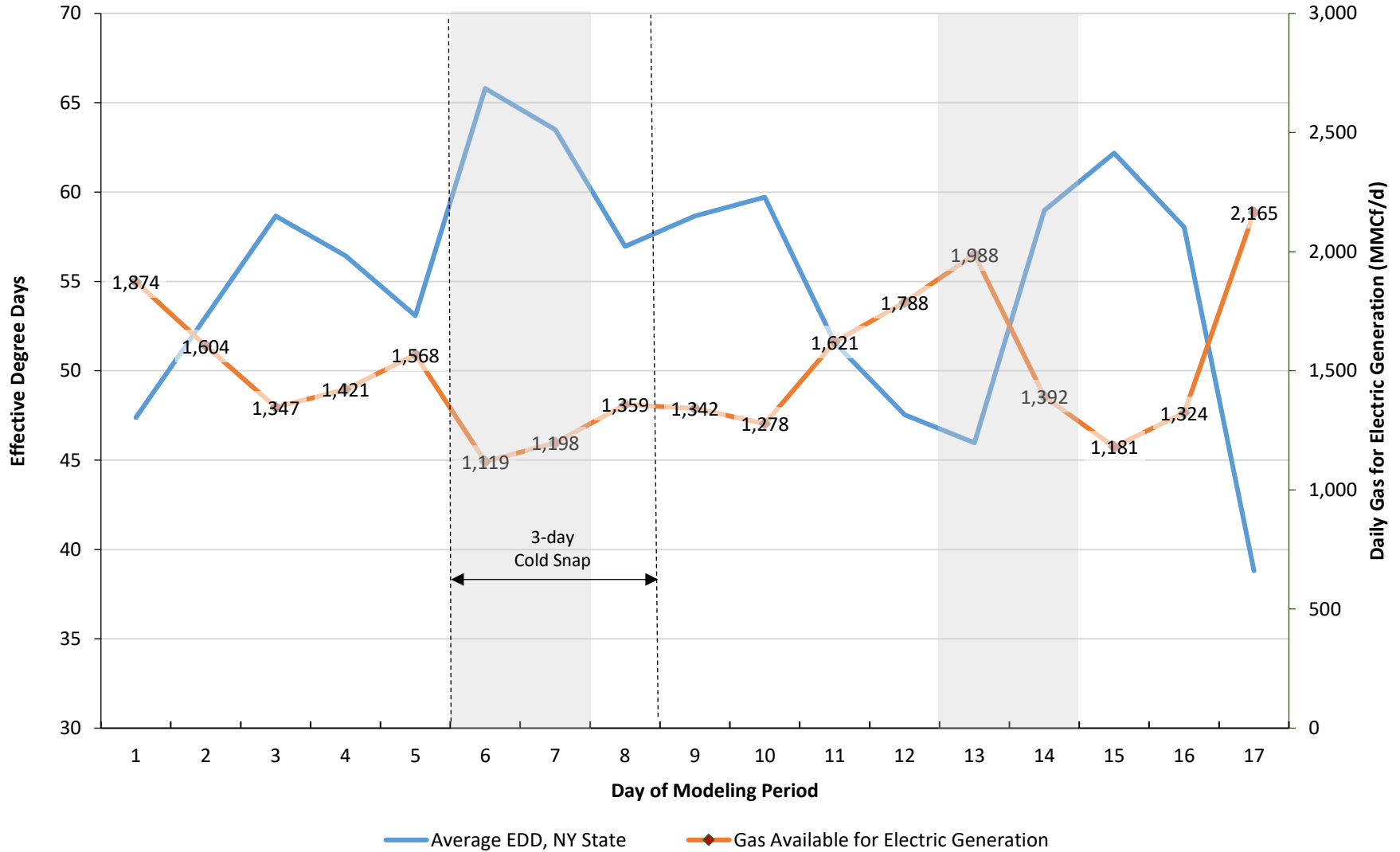


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

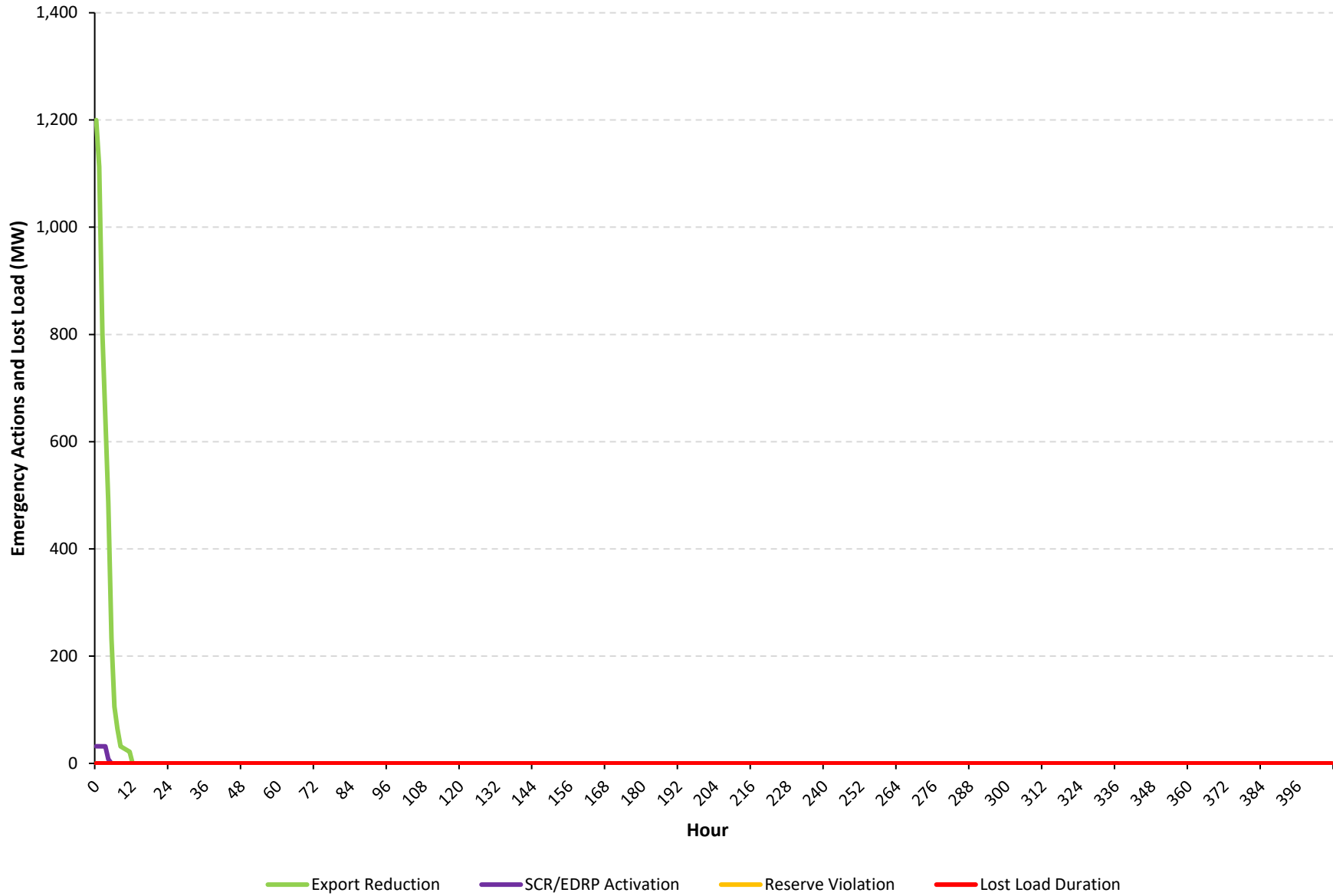
Scenario 3 - PD 6 No Barge Refill



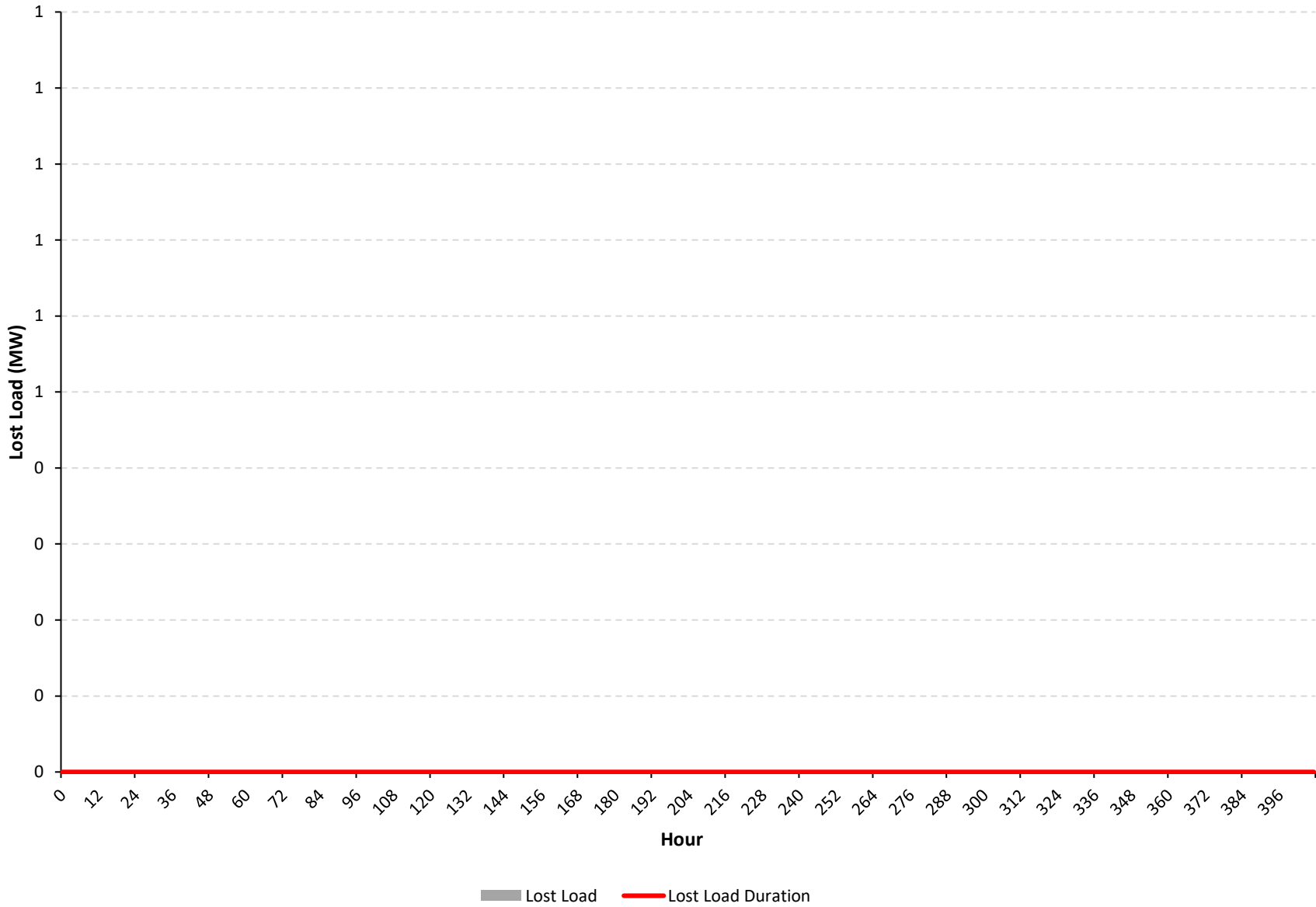
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 6 No Barge Refill

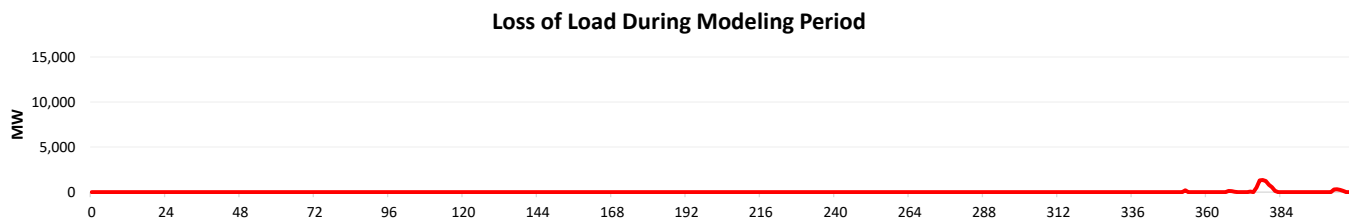
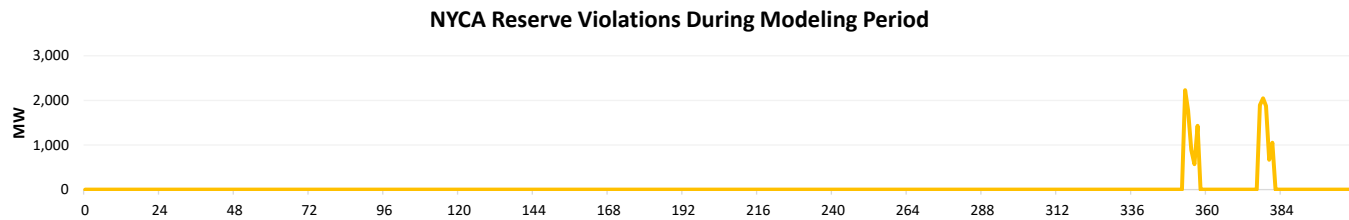
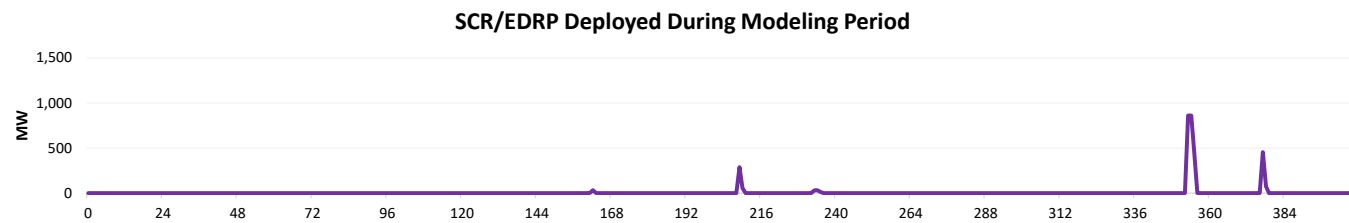
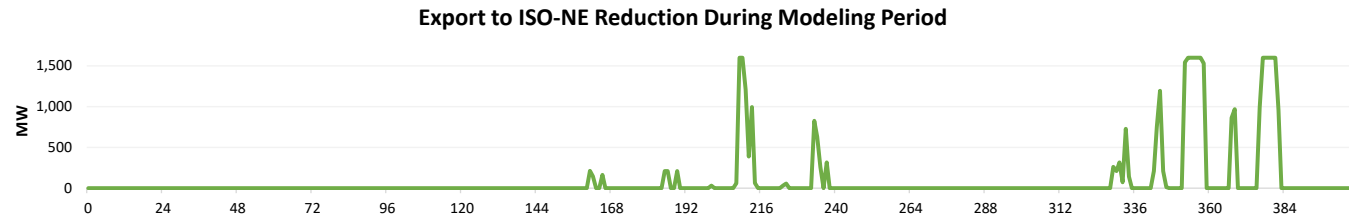
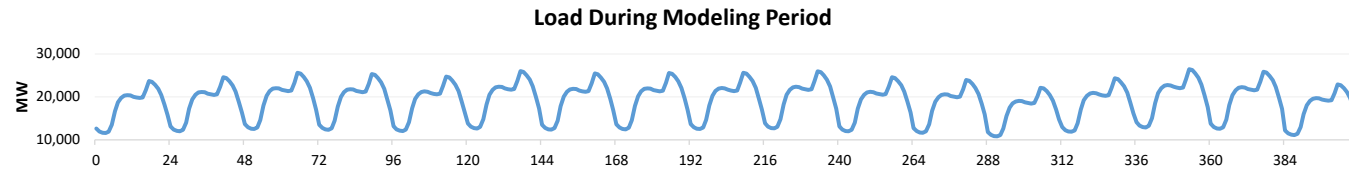


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 3 - PD 7 No Refill



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	47
Total MWh	36,173
Avg. MW	88.7

SCR Deployment	
Total Hrs.	12
Total MWh	3,160
Avg. MW	7.7

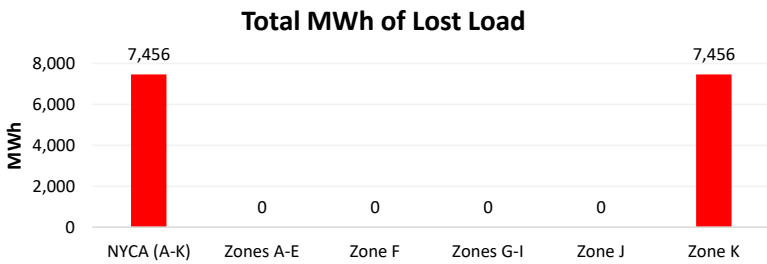
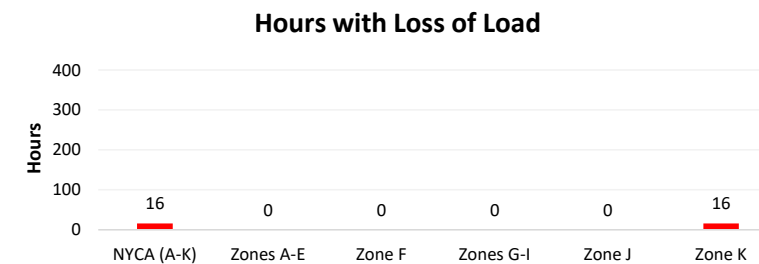
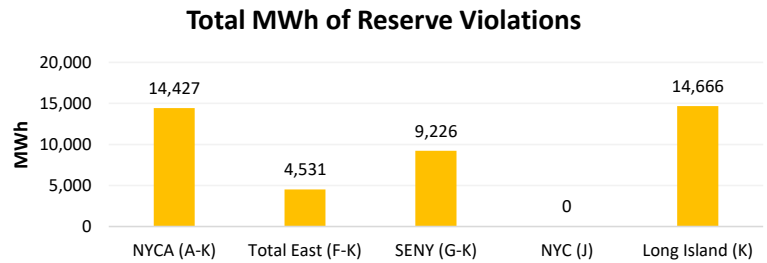
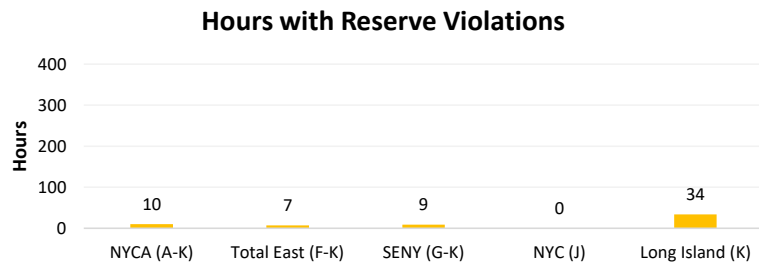
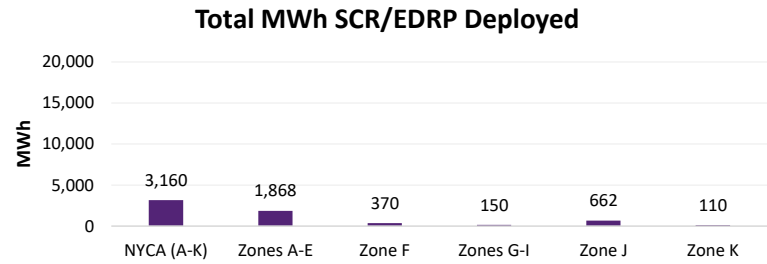
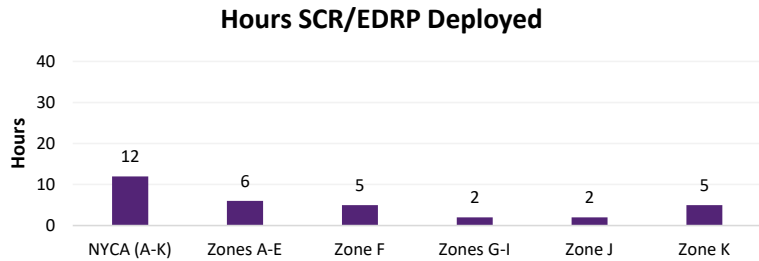
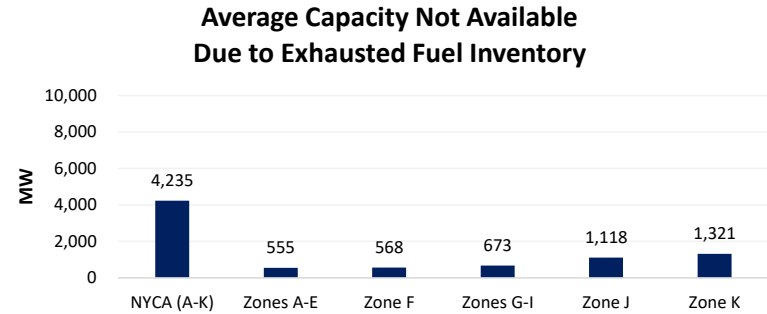
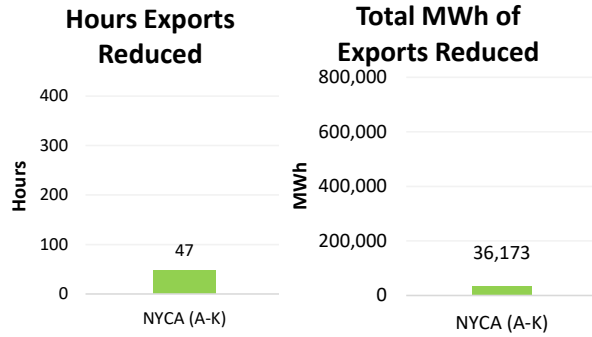
Reserve Violations	
Total Hrs.	10
Total MWh	14,427
Avg. MW	35.4
First Hour with Viol.	162
First Hour, Zone K	162

Loss of Load	
Total Hrs.	16
Total MWh	7,456
Avg. MW	18.3
First Hour with Losses	353
First Hour, Zone K	353

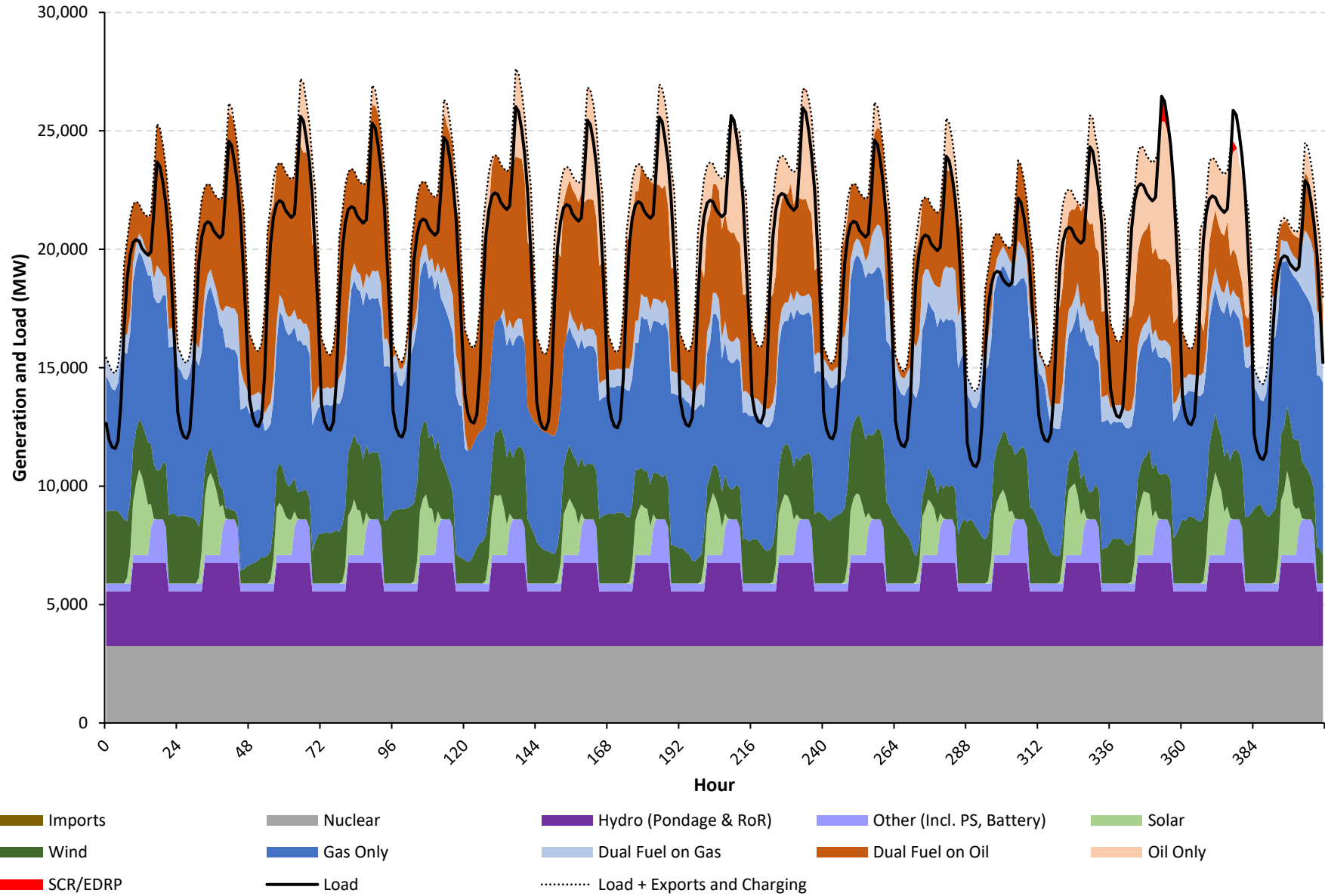
Full Period Results Summary

Case Name: Scenario 3 - PD 7 No Refill

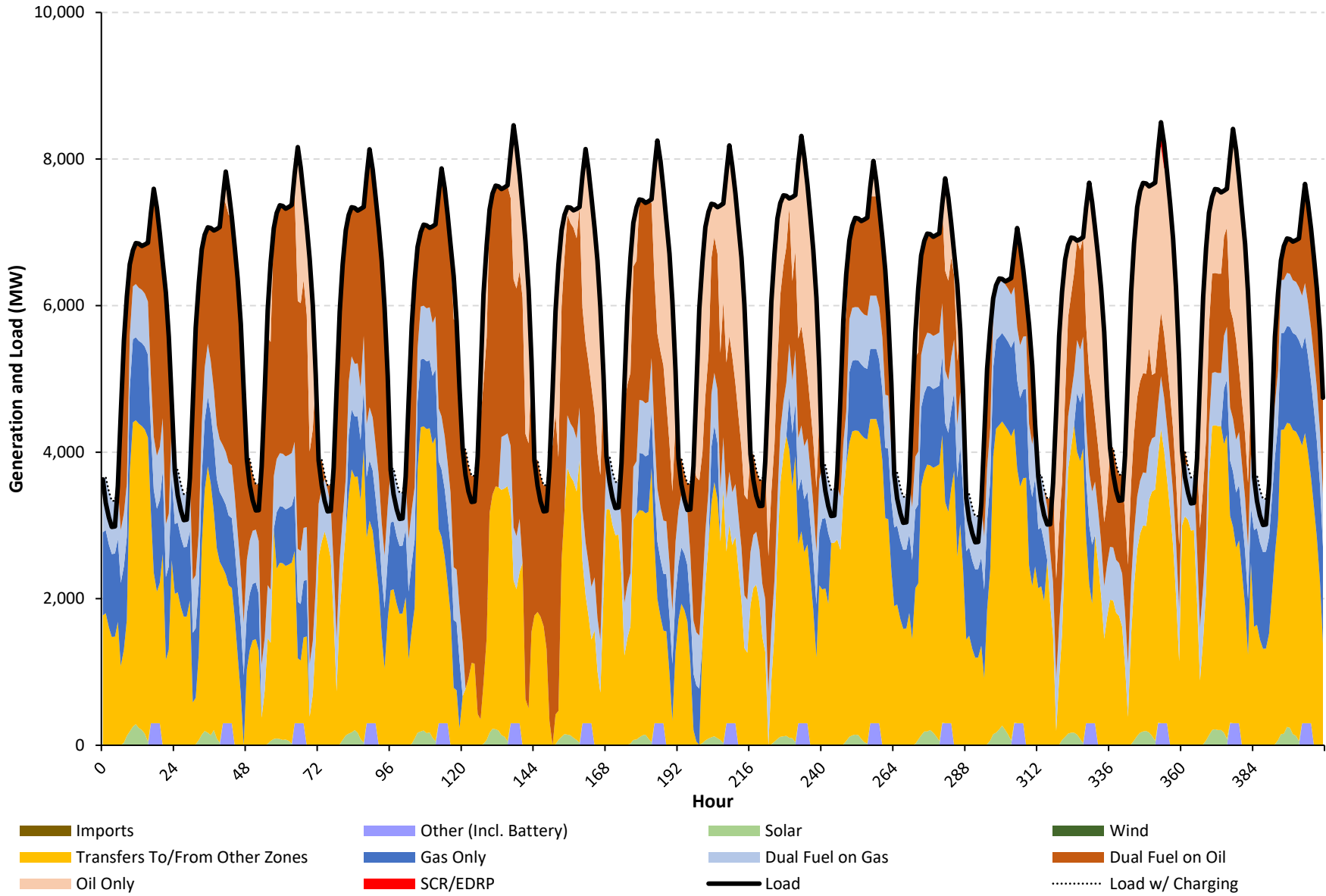
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



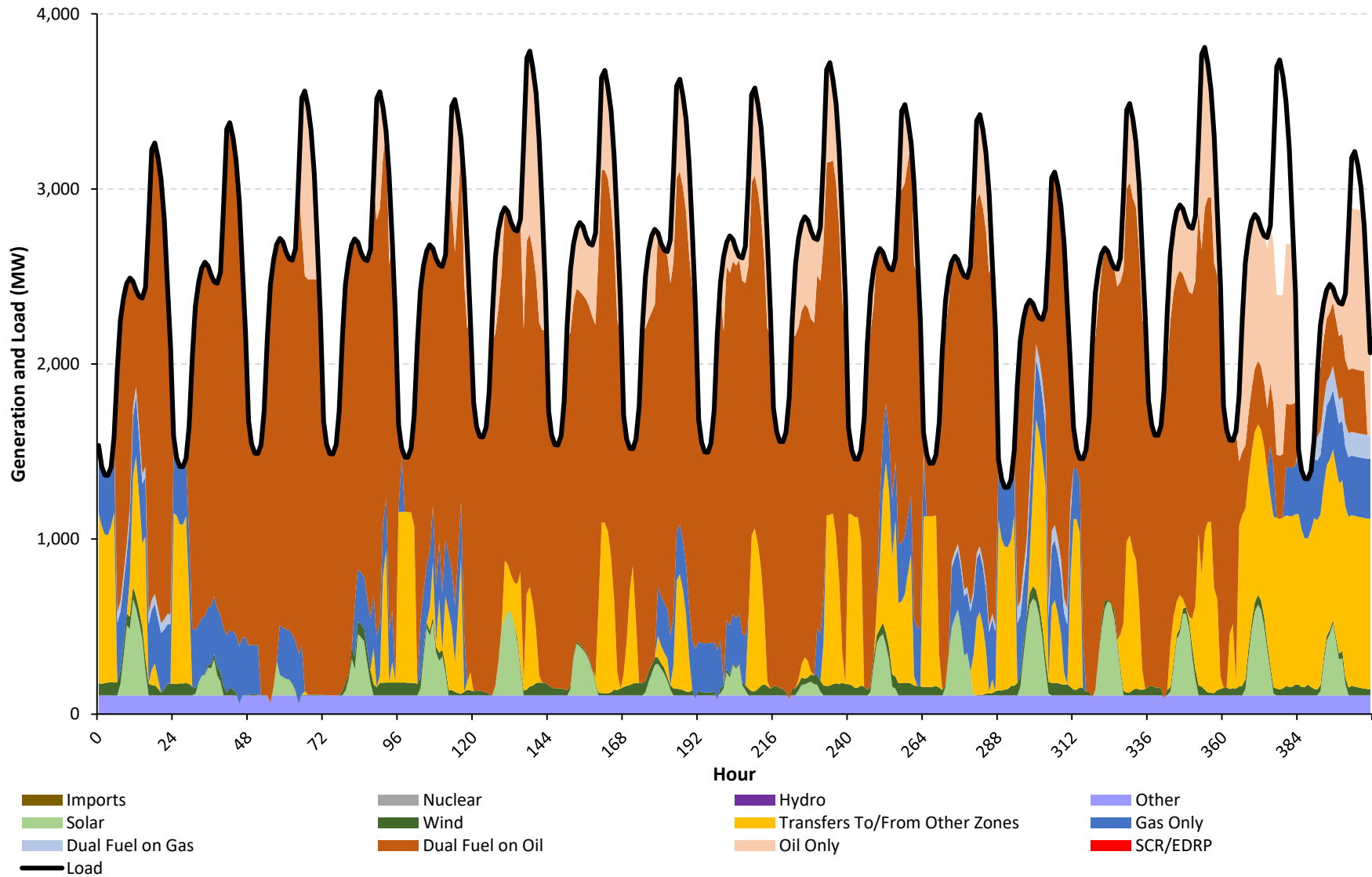
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 7 No Refill



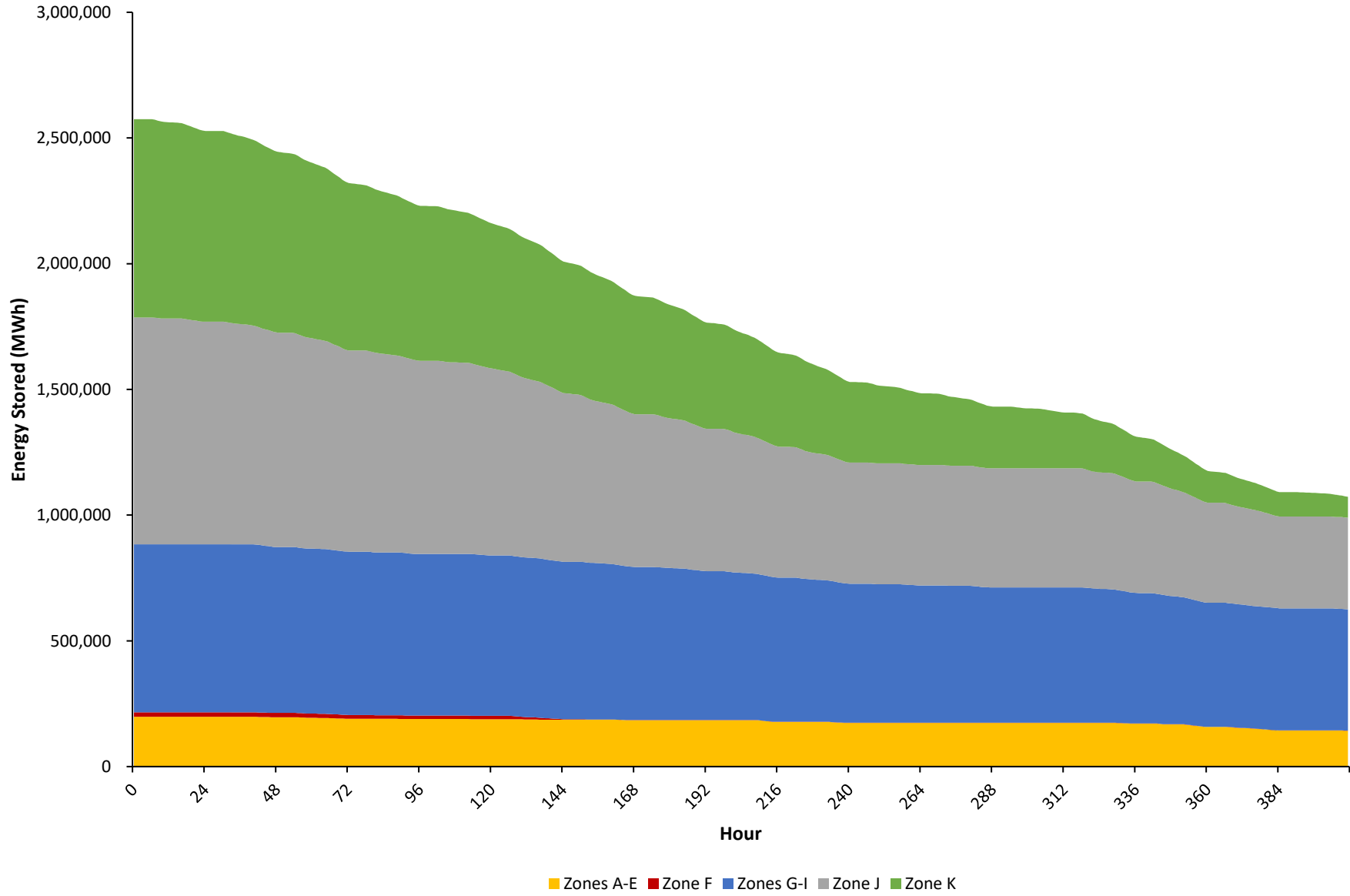
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 7 No Refill

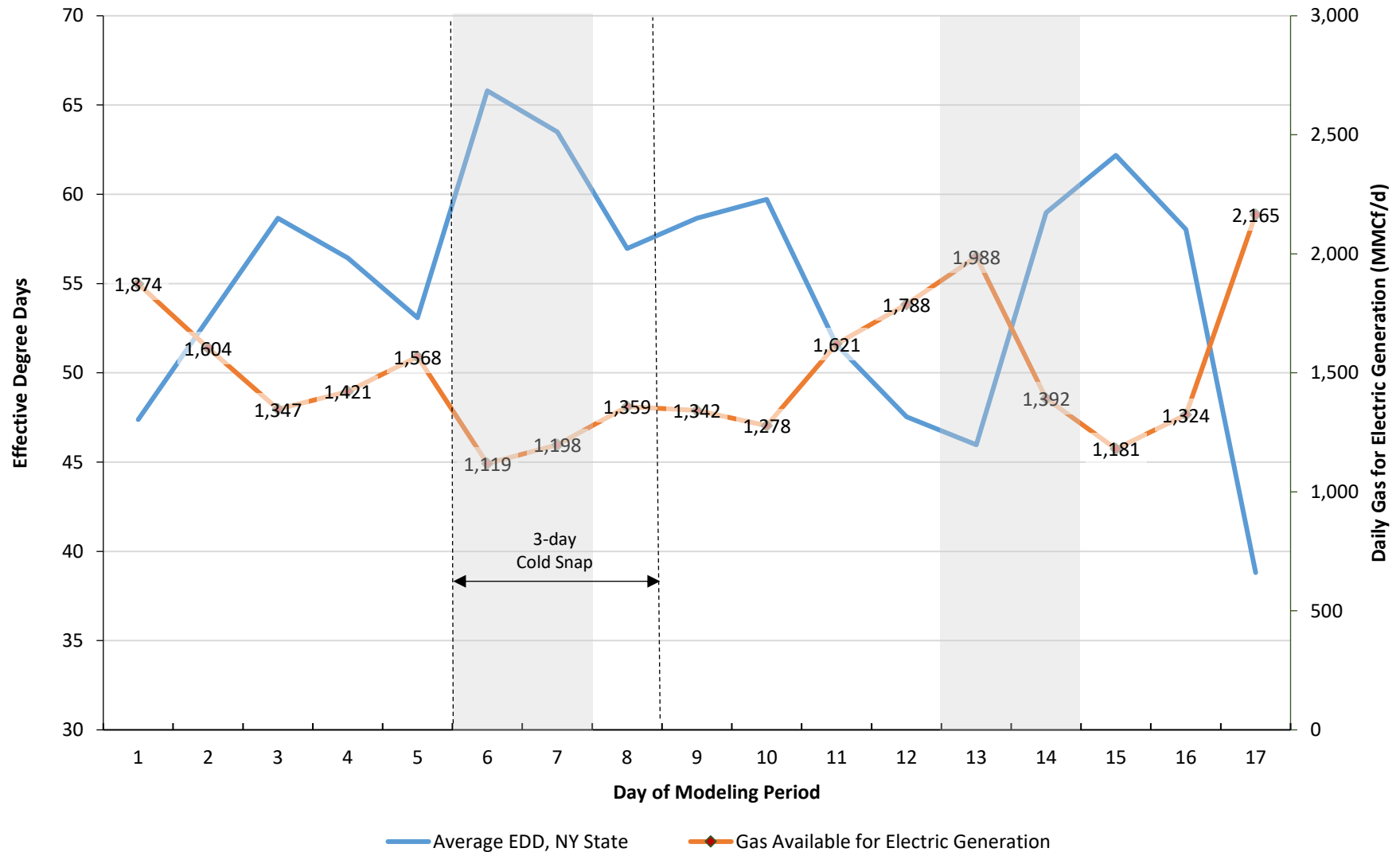


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

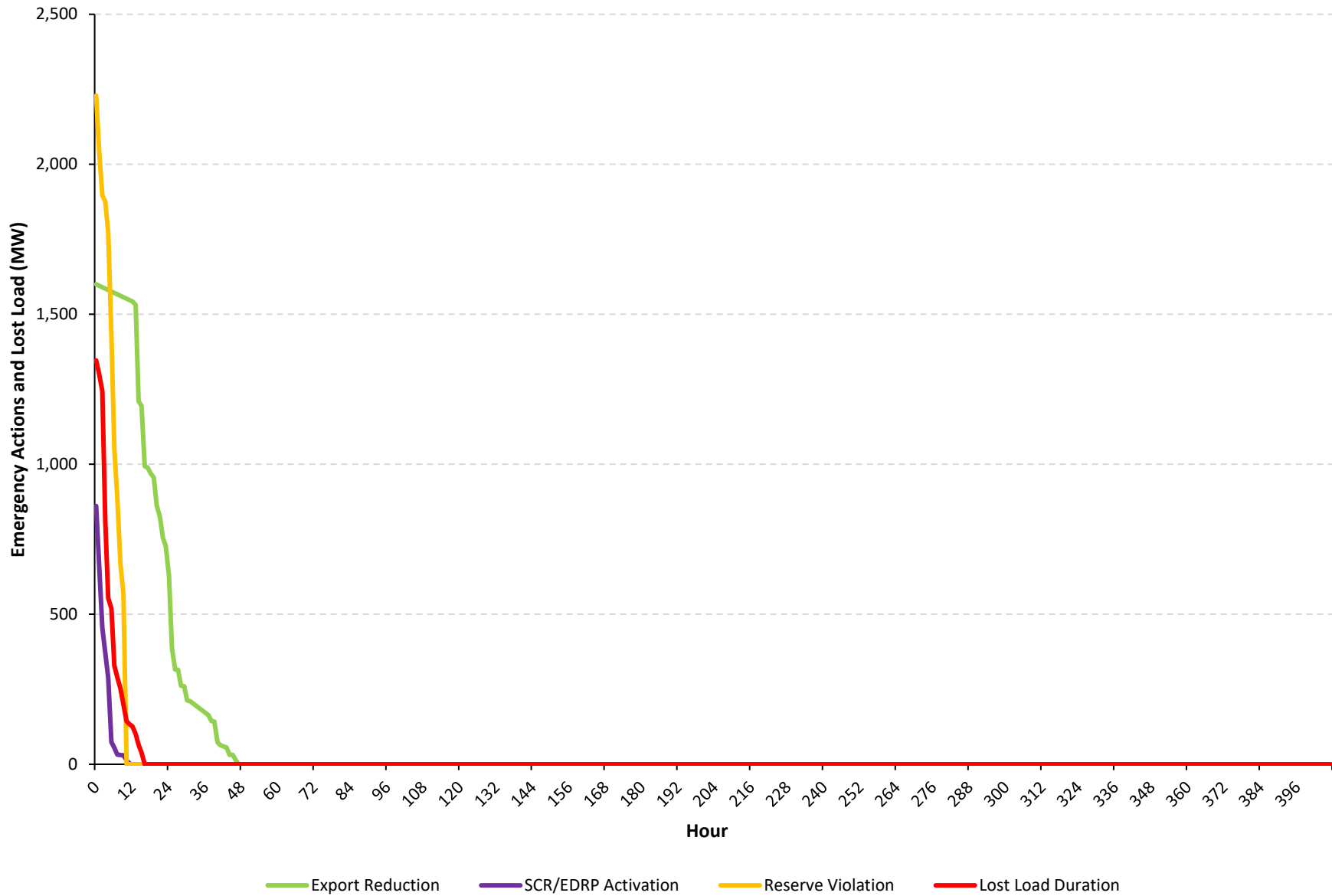
Scenario 3 - PD 7 No Refill



Notes:

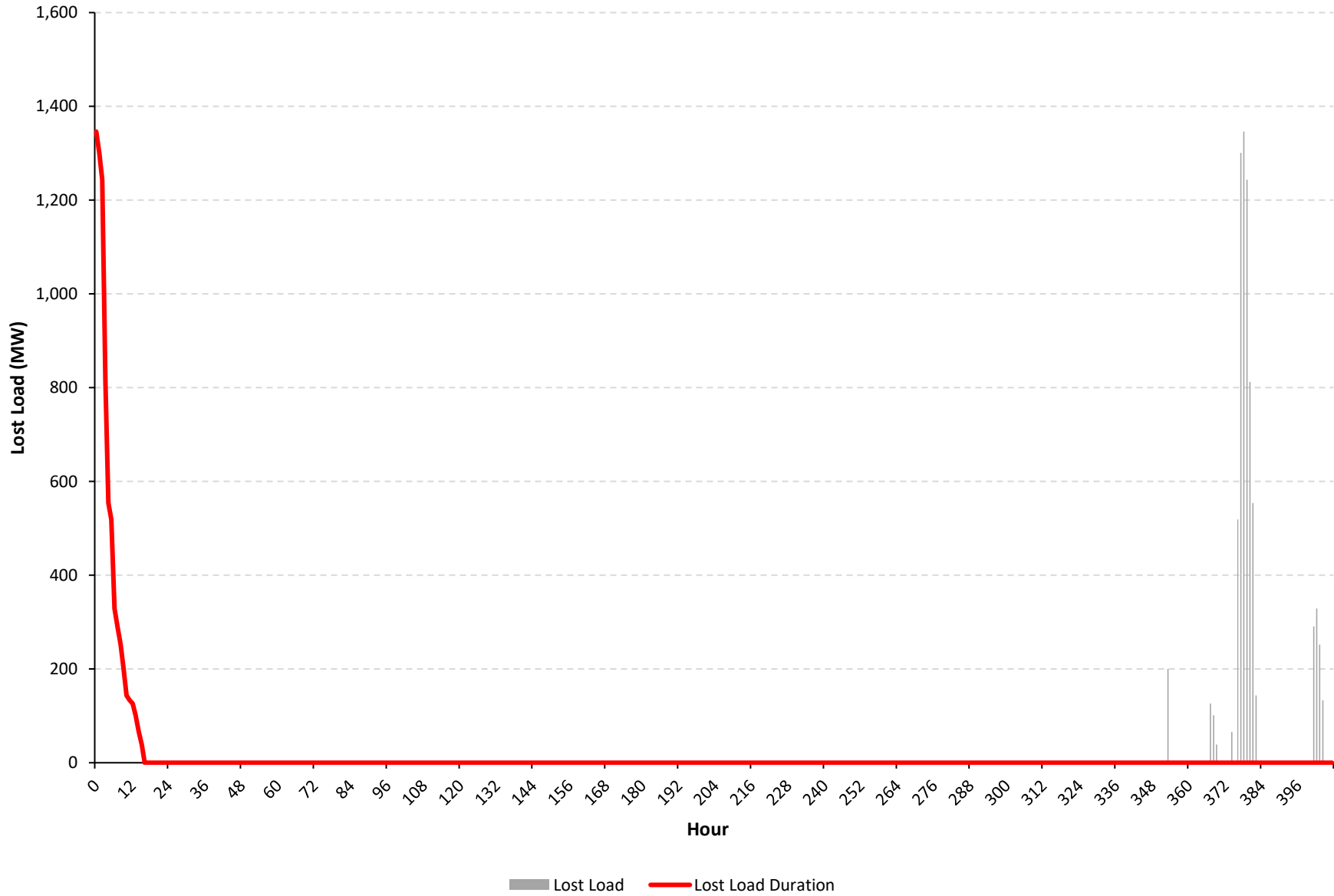
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 3 - PD 7 No Refill

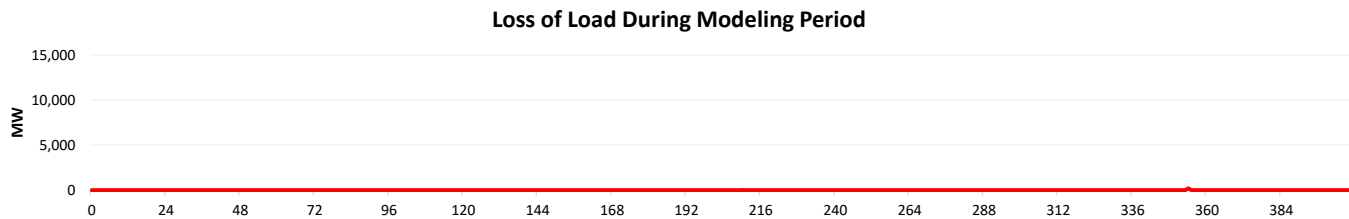
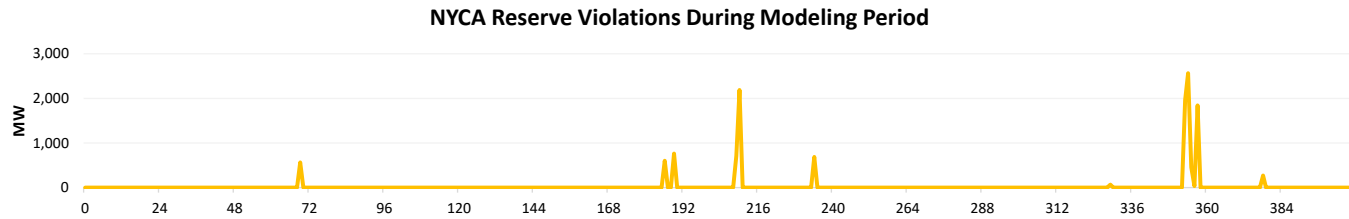
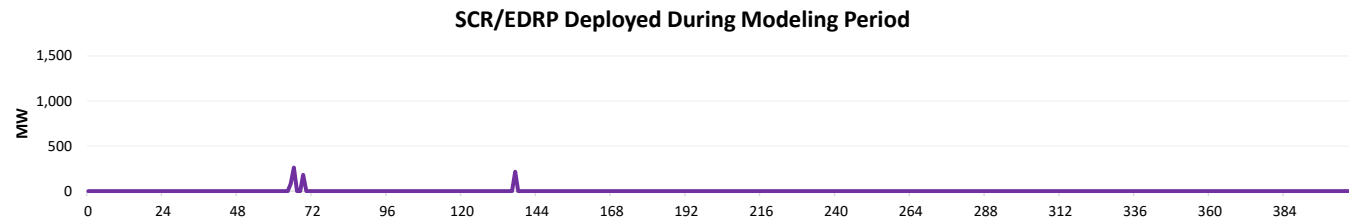
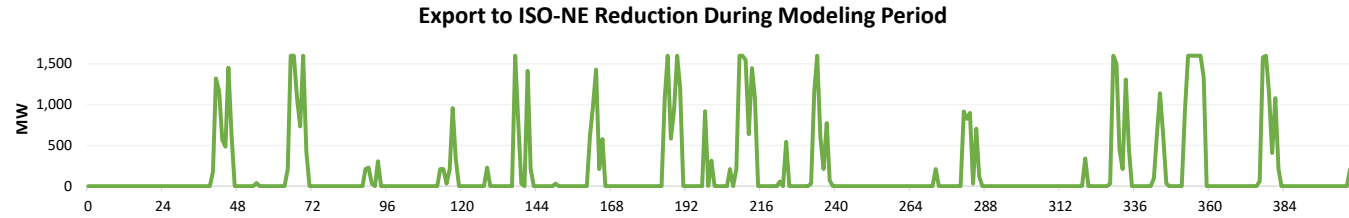
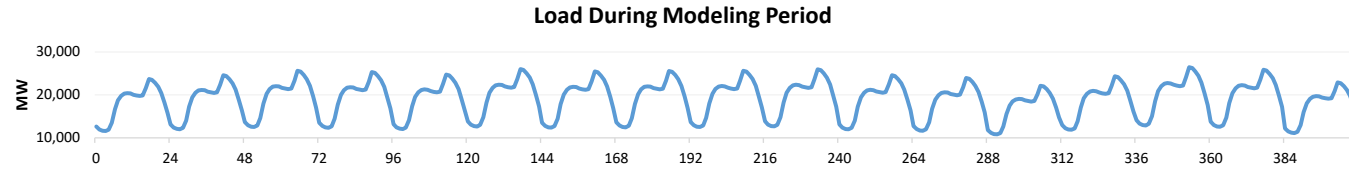


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	100
Total MWh	74,422
Avg. MW	182.4

SCR Deployment	
Total Hrs.	4
Total MWh	740
Avg. MW	1.8

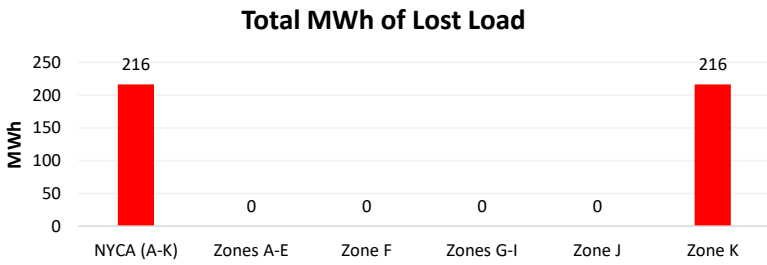
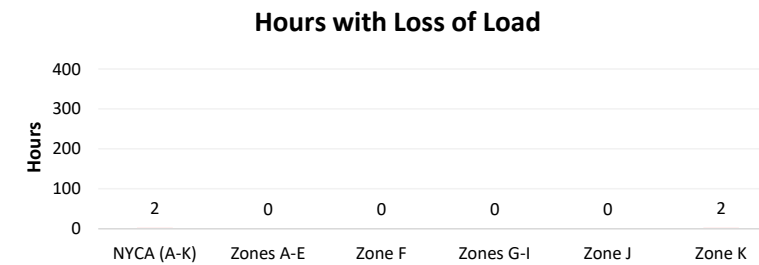
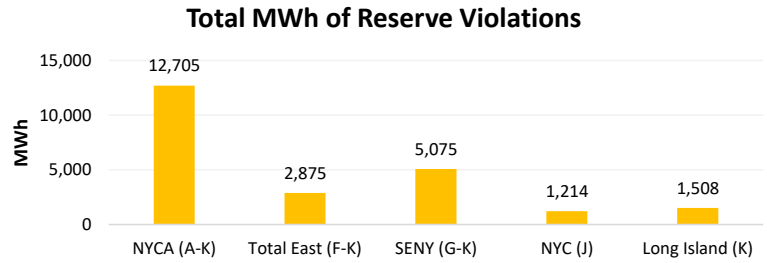
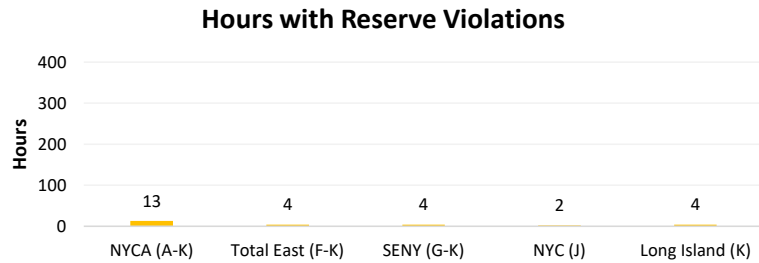
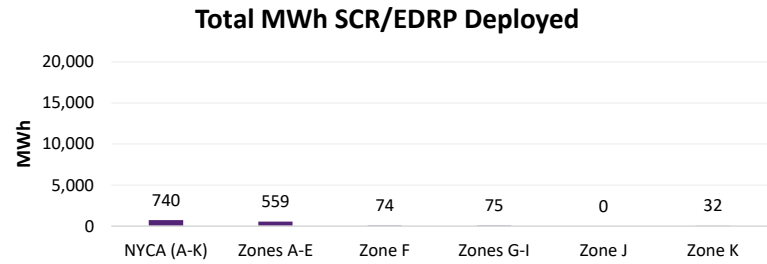
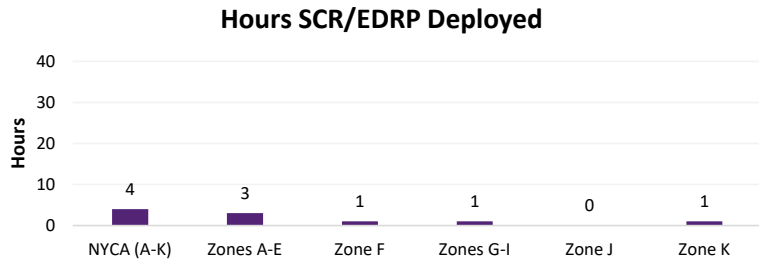
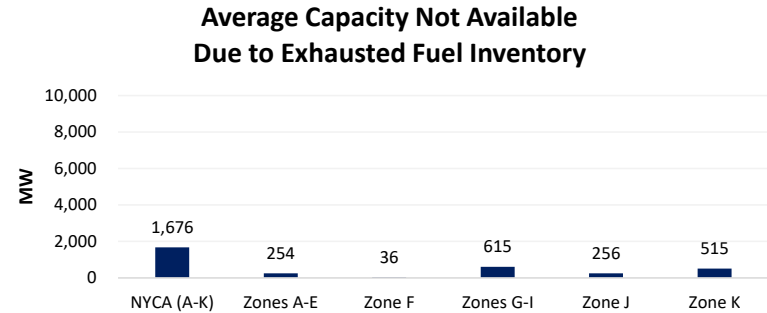
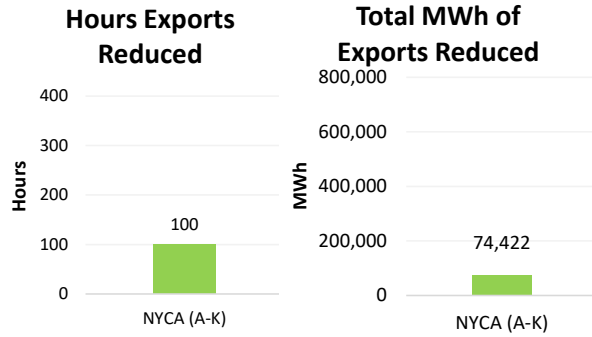
Reserve Violations	
Total Hrs.	13
Total MWh	12,705
Avg. MW	31.1
First Hour with Viol.	69
First Hour, Zone K	210

Loss of Load	
Total Hrs.	2
Total MWh	216
Avg. MW	0.5
First Hour with Losses	210
First Hour, Zone K	210

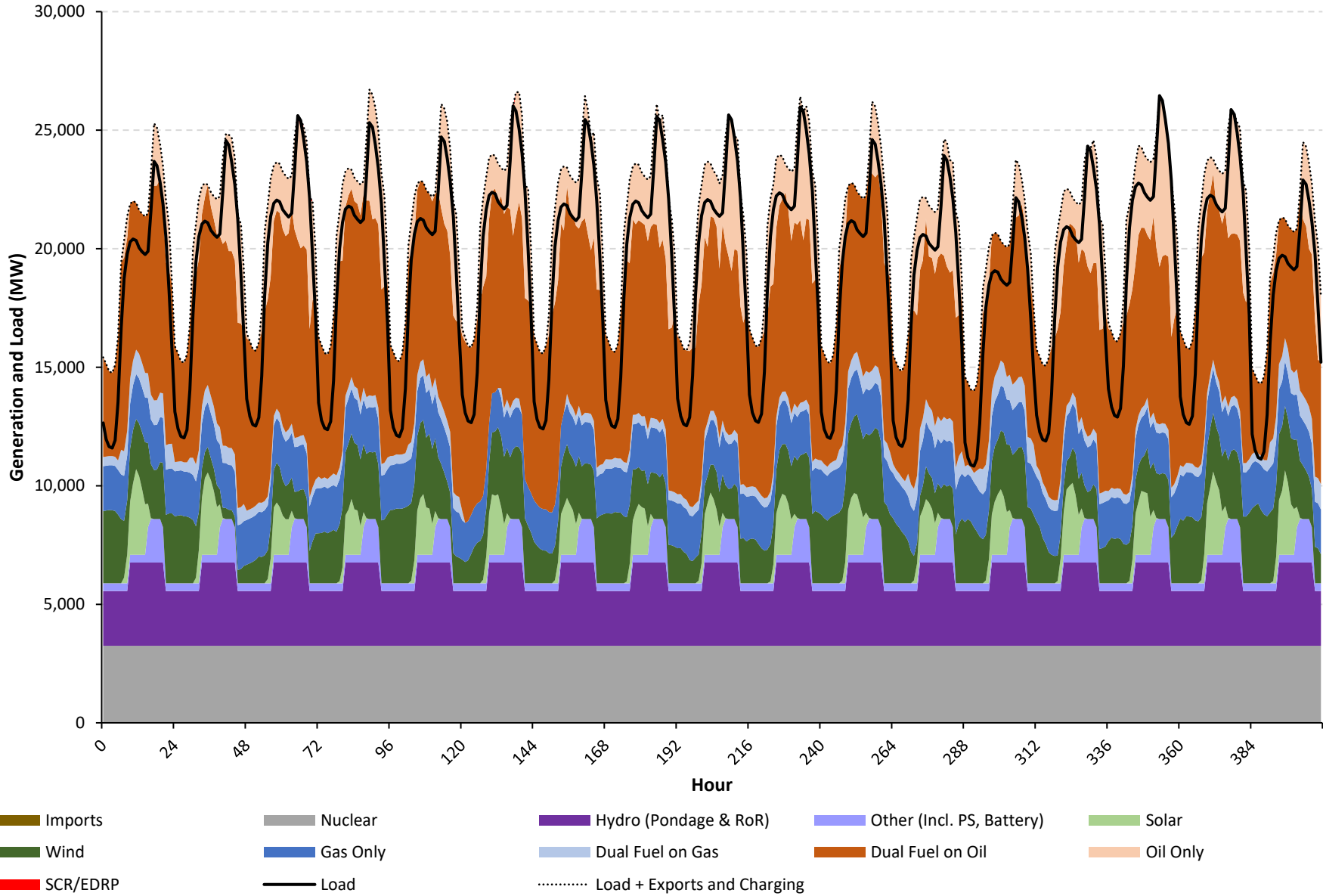
Full Period Results Summary

Case Name: Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)

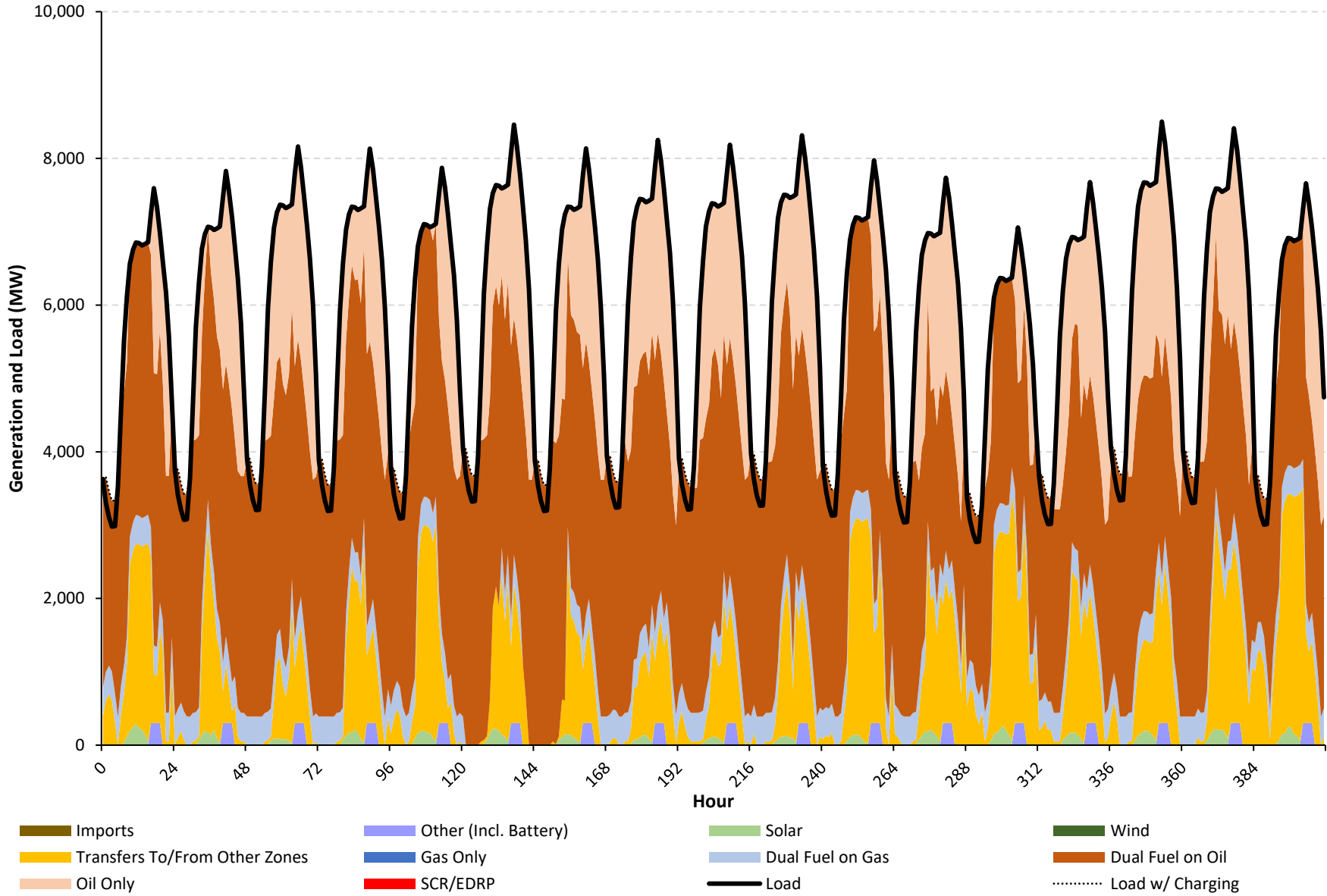
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



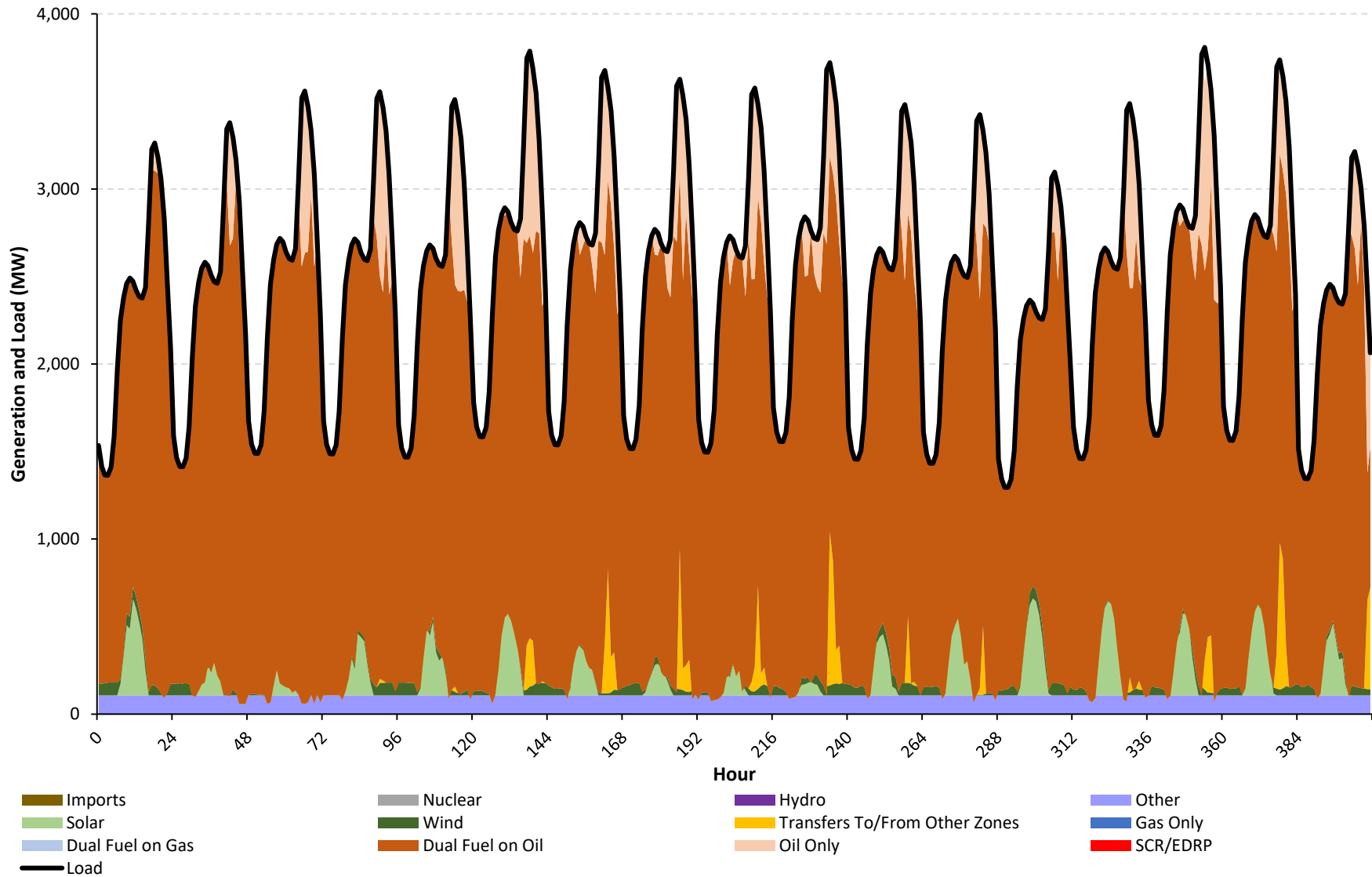
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



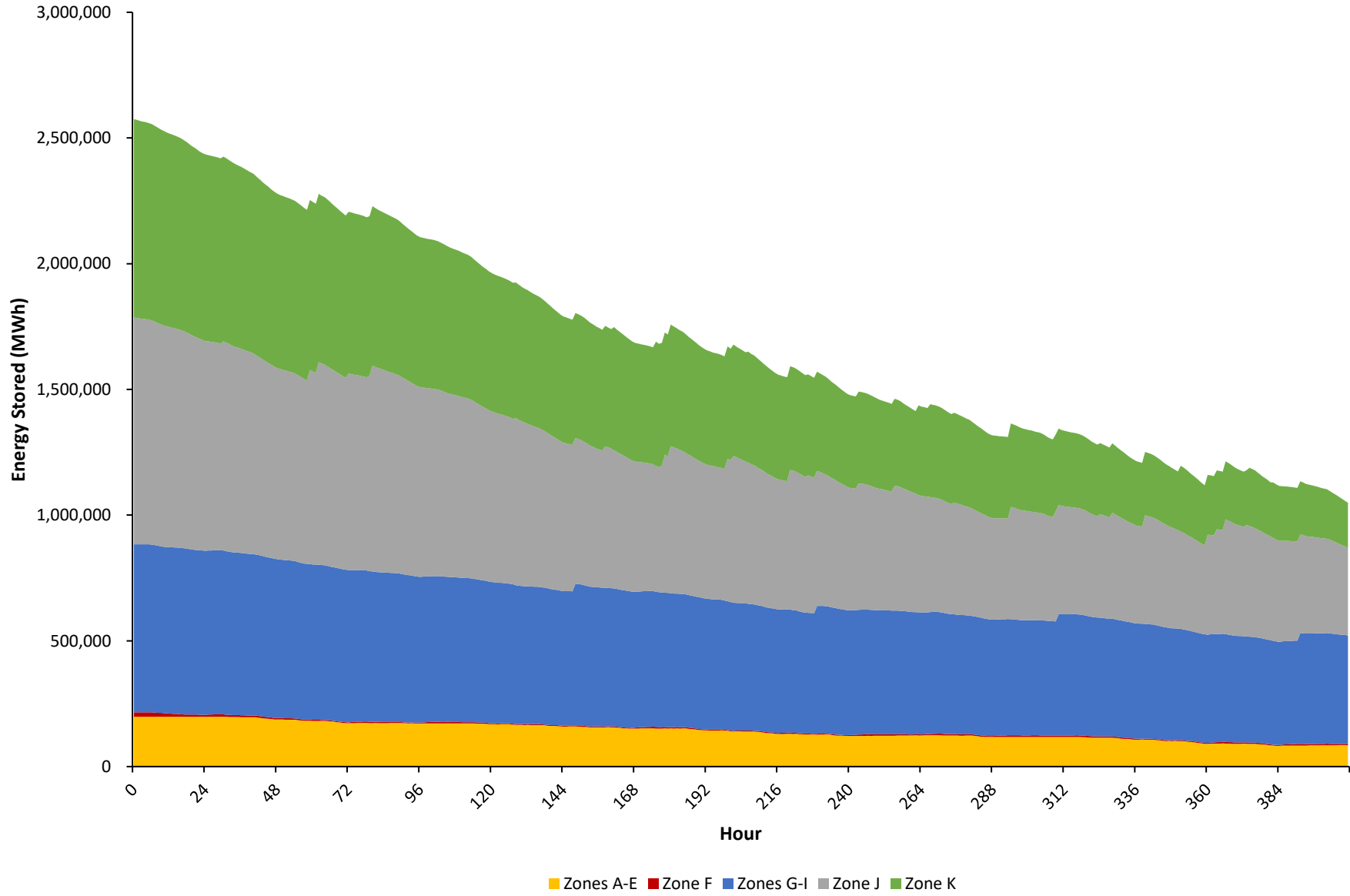
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)

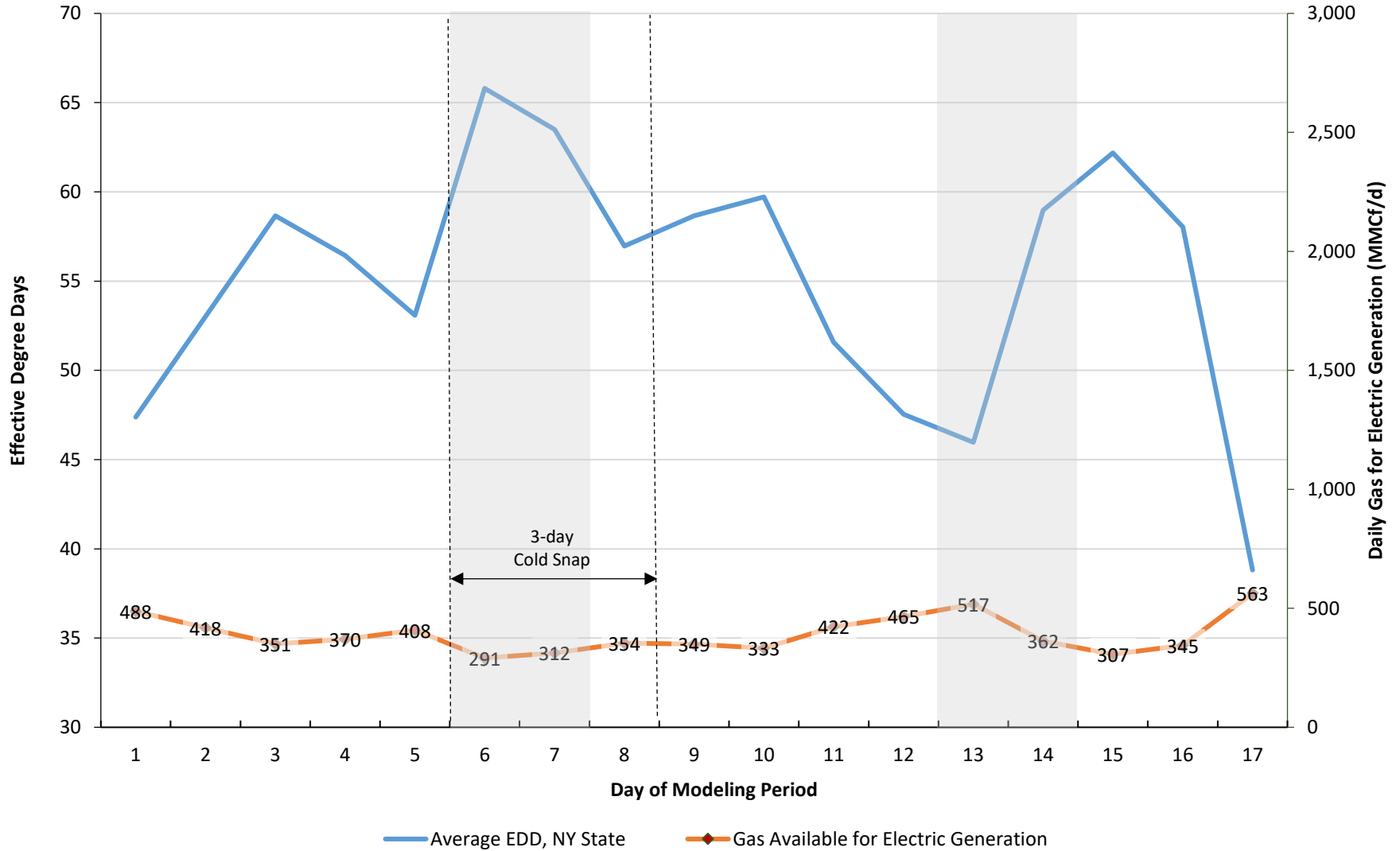


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

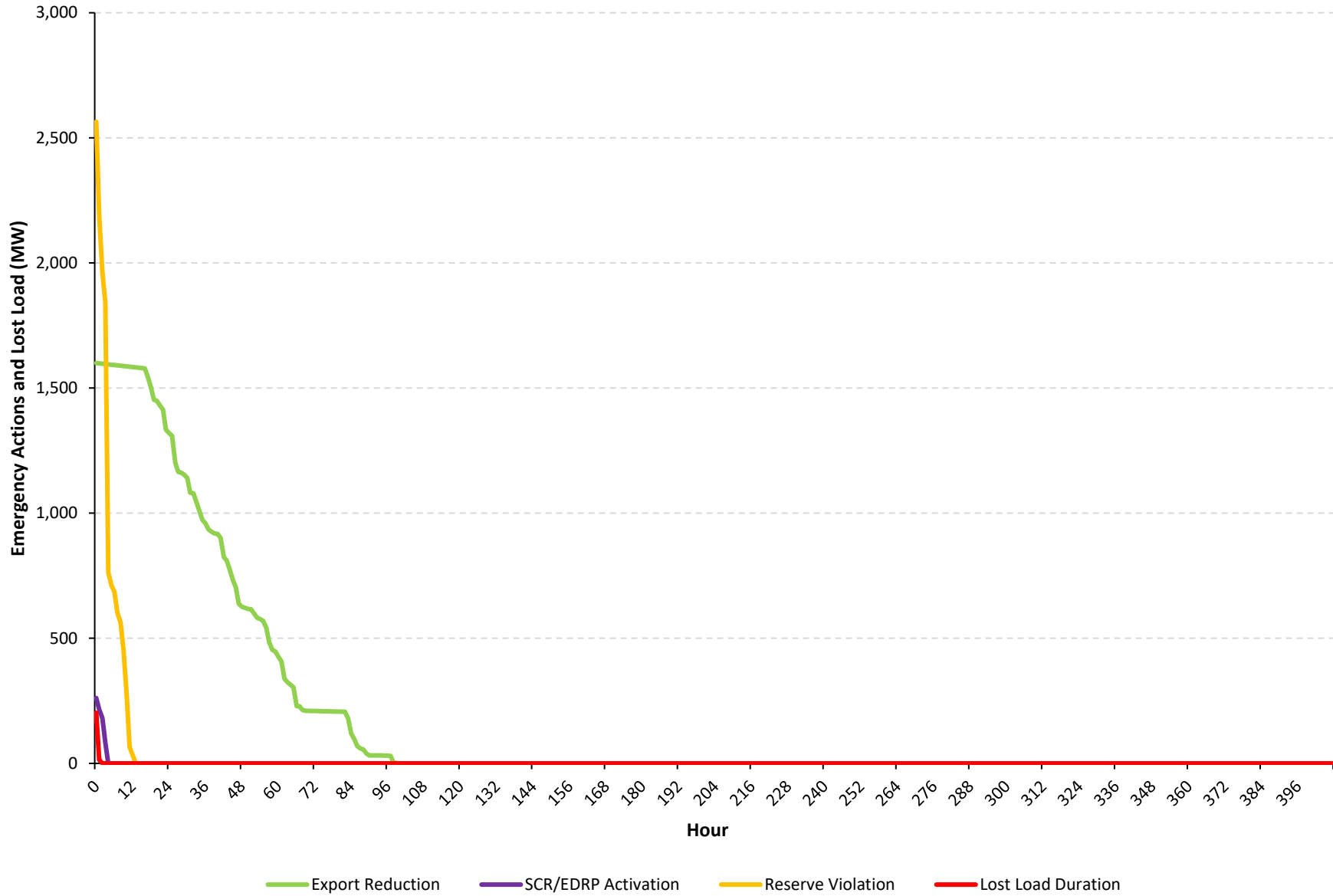
Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



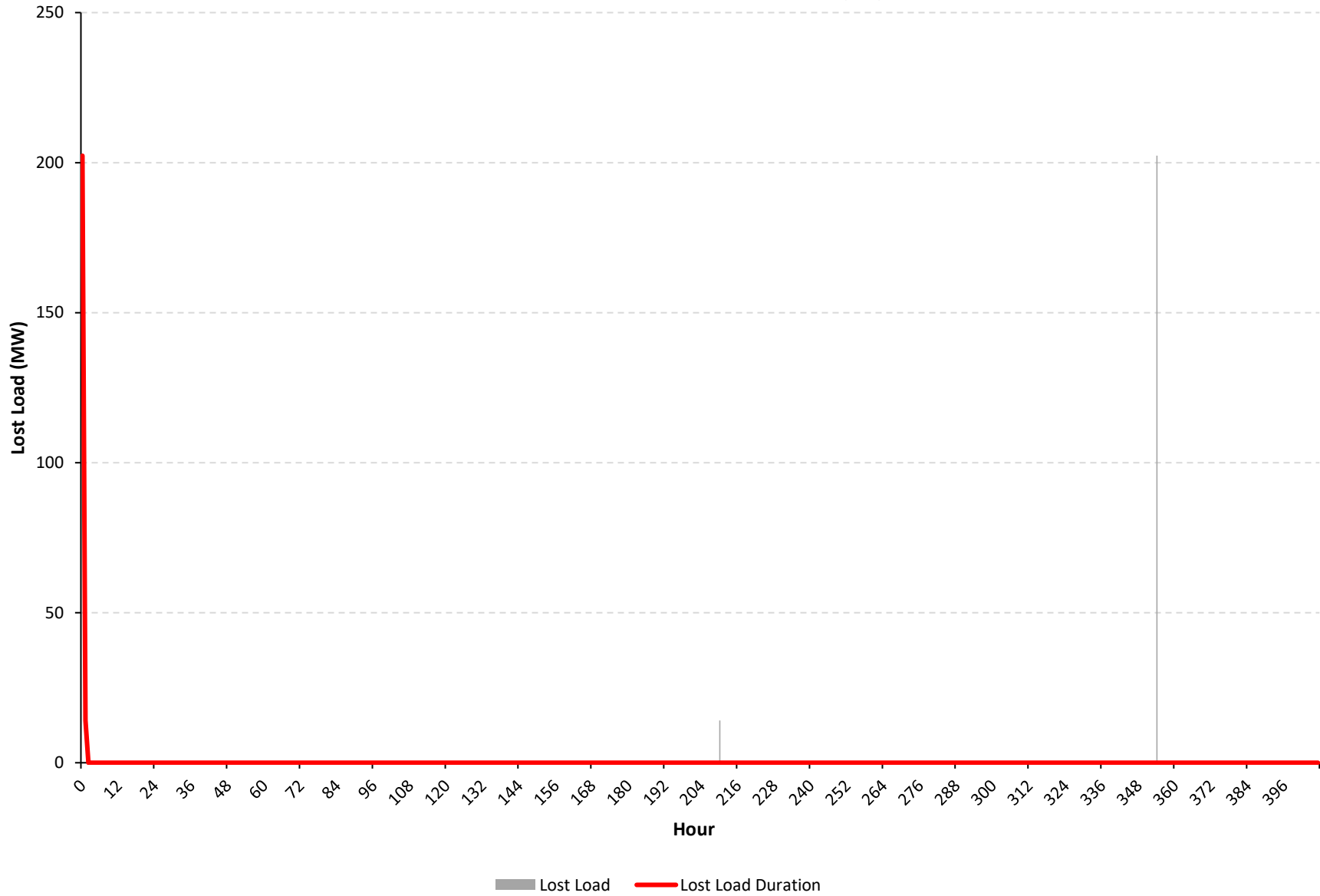
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 8 Non-Firm Gas Unavailable (F-K)

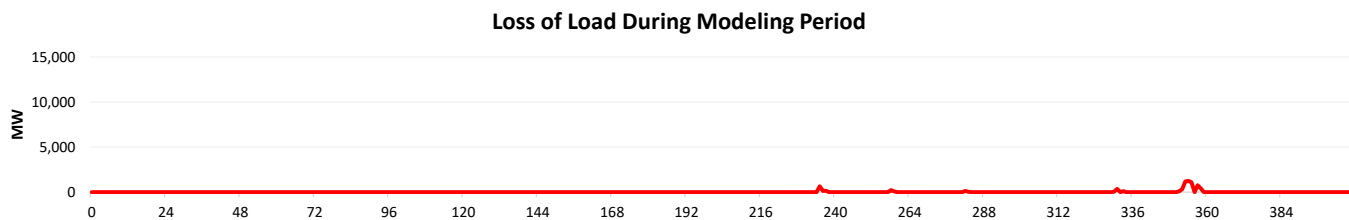
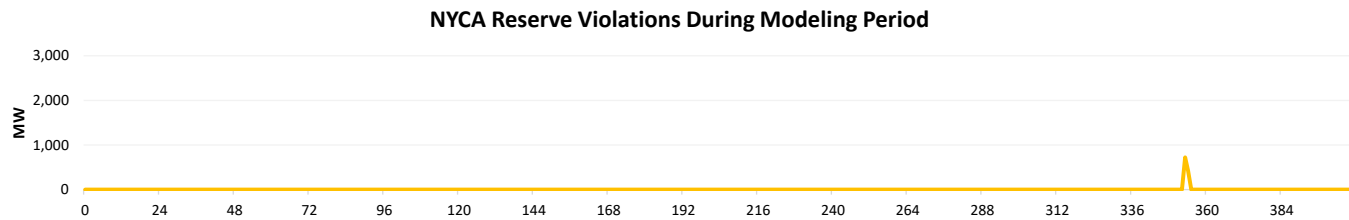
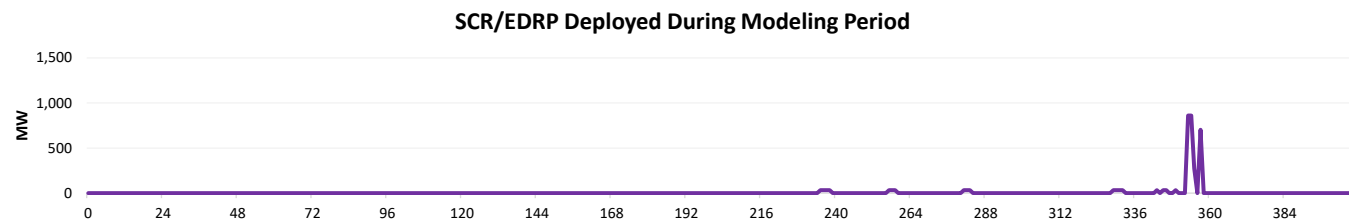
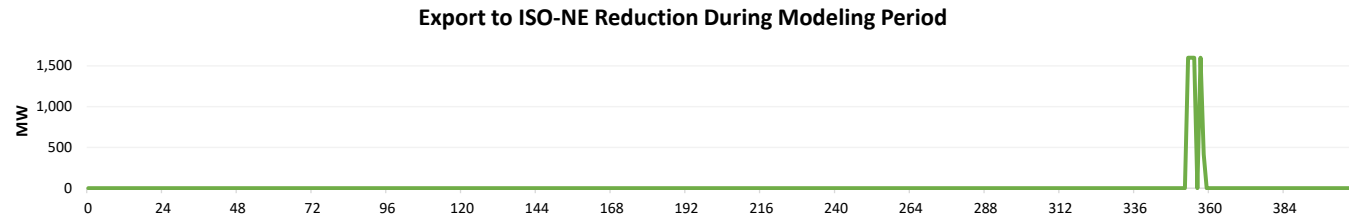
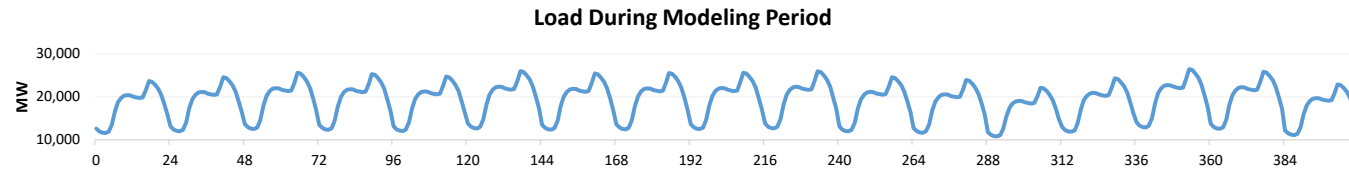


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 3 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	5
Total MWh	6,814
Avg. MW	16.7

SCR Deployment	
Total Hrs.	22
Total MWh	3,275
Avg. MW	8.0

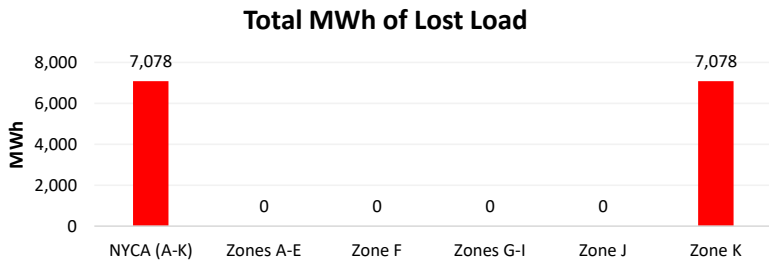
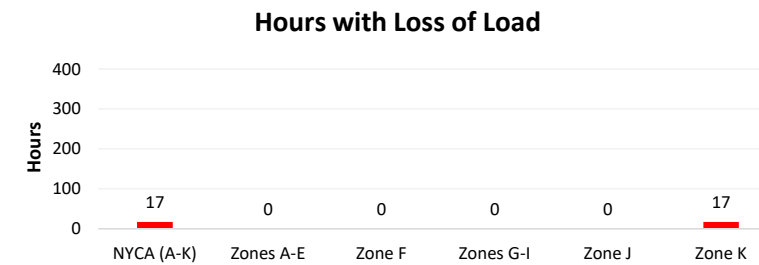
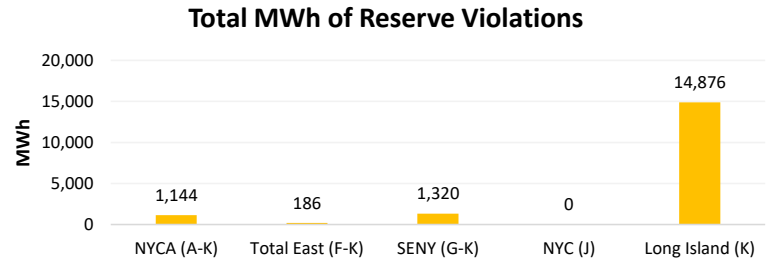
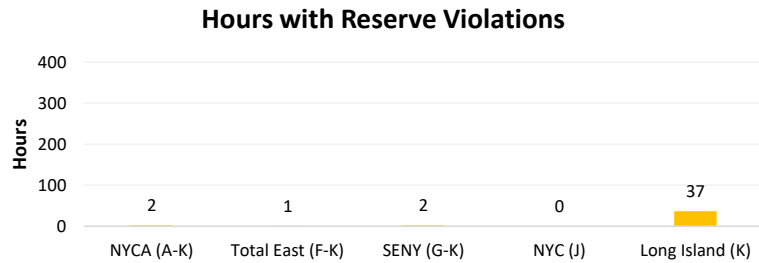
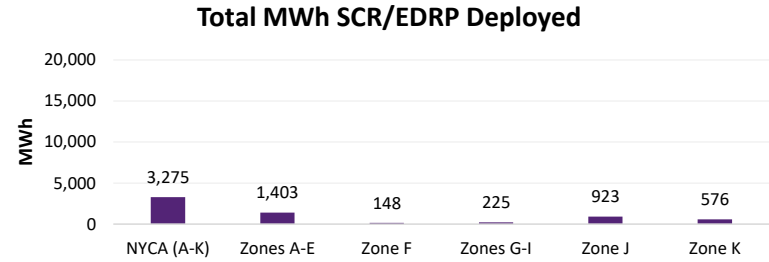
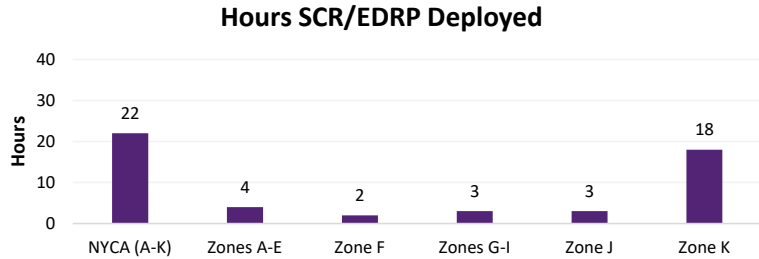
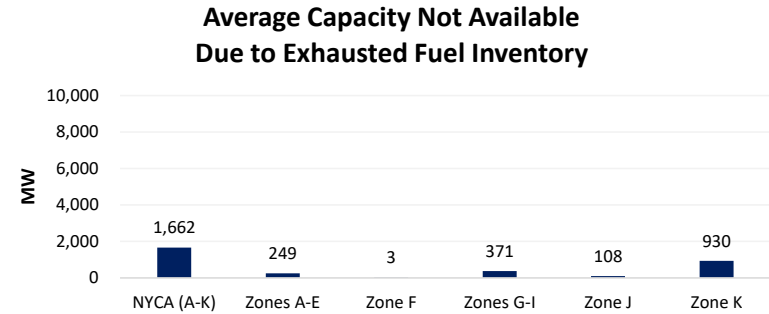
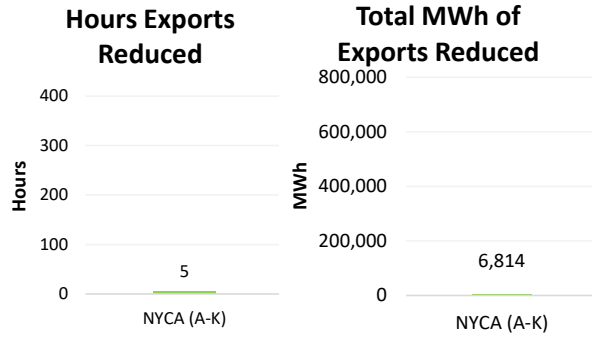
Reserve Violations	
Total Hrs.	2
Total MWh	1,144
Avg. MW	2.8
First Hour with Viol.	235
First Hour, Zone K	235

Loss of Load	
Total Hrs.	17
Total MWh	7,078
Avg. MW	17.3
First Hour with Losses	235
First Hour, Zone K	235

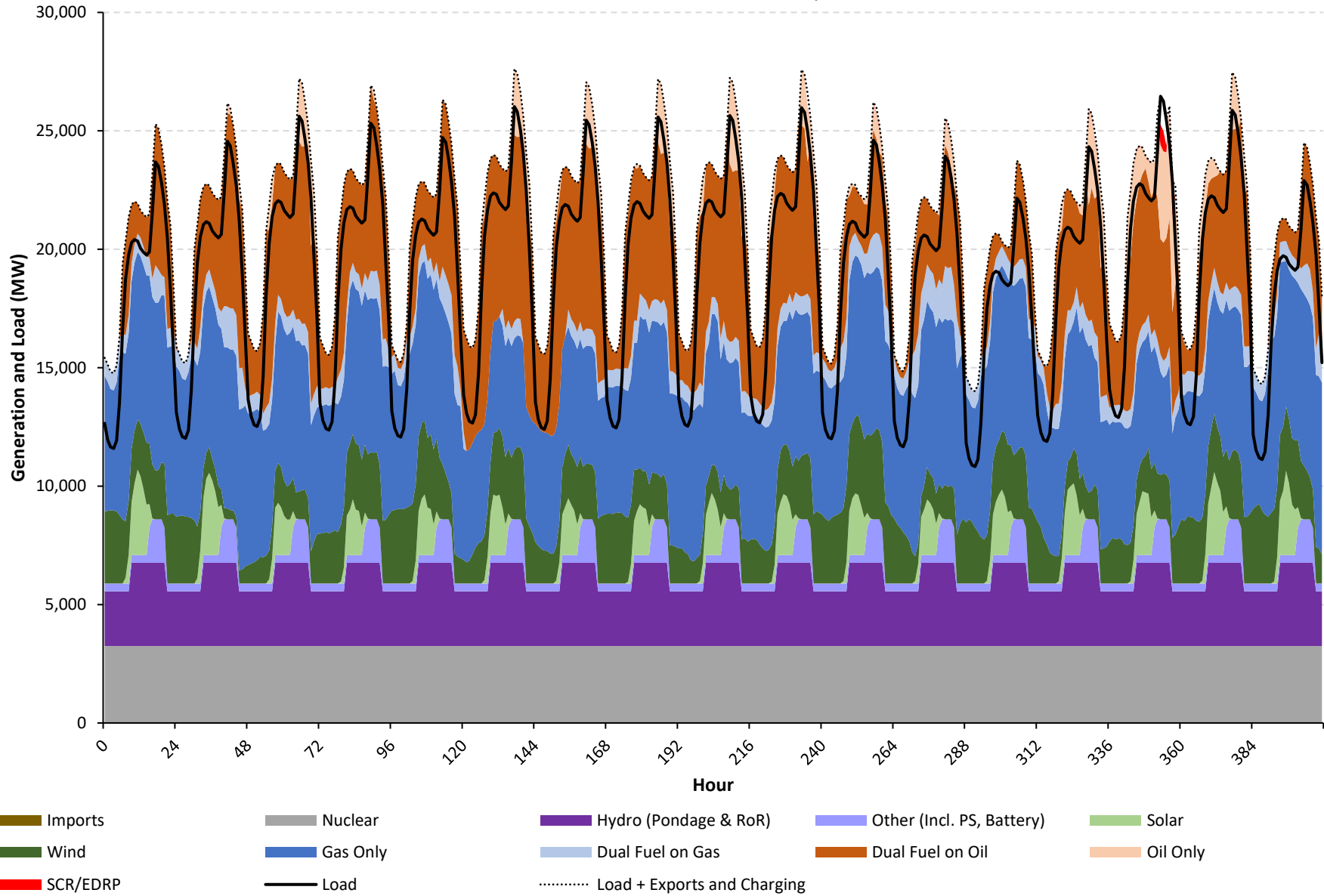
Full Period Results Summary

Case Name: Scenario 3 - PD 9 Low Fuel Inventory

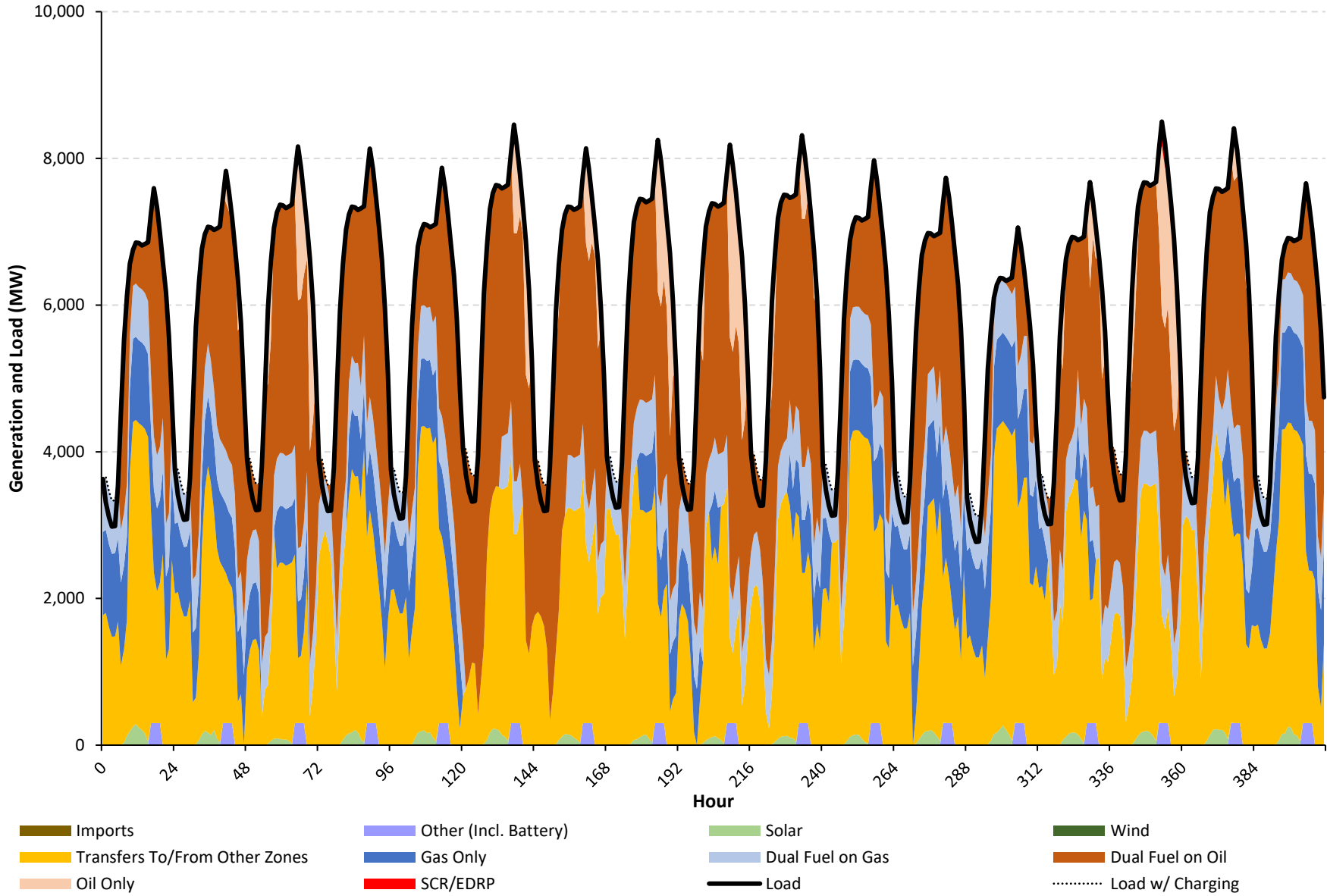
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



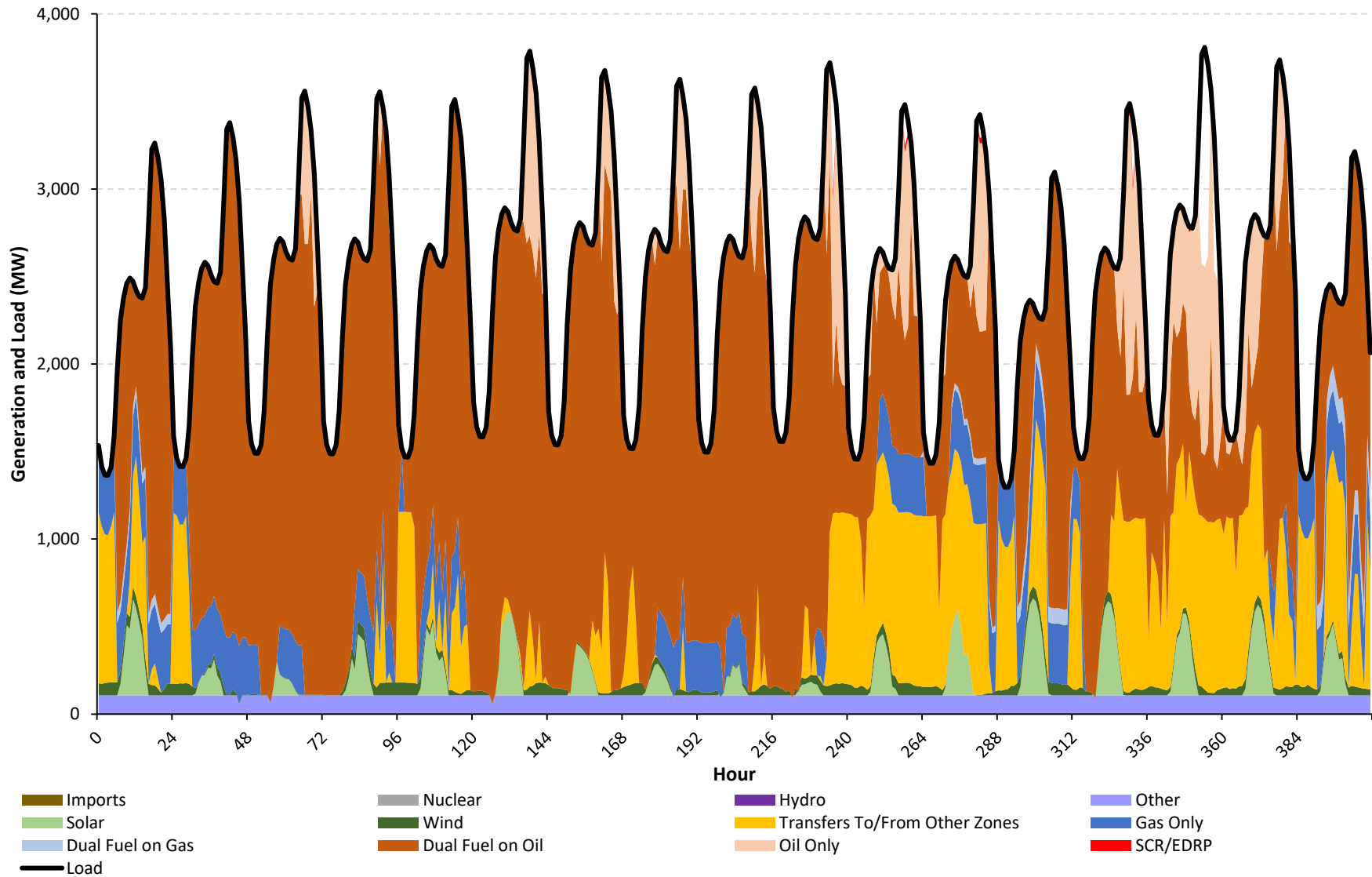
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 9 Low Fuel Inventory



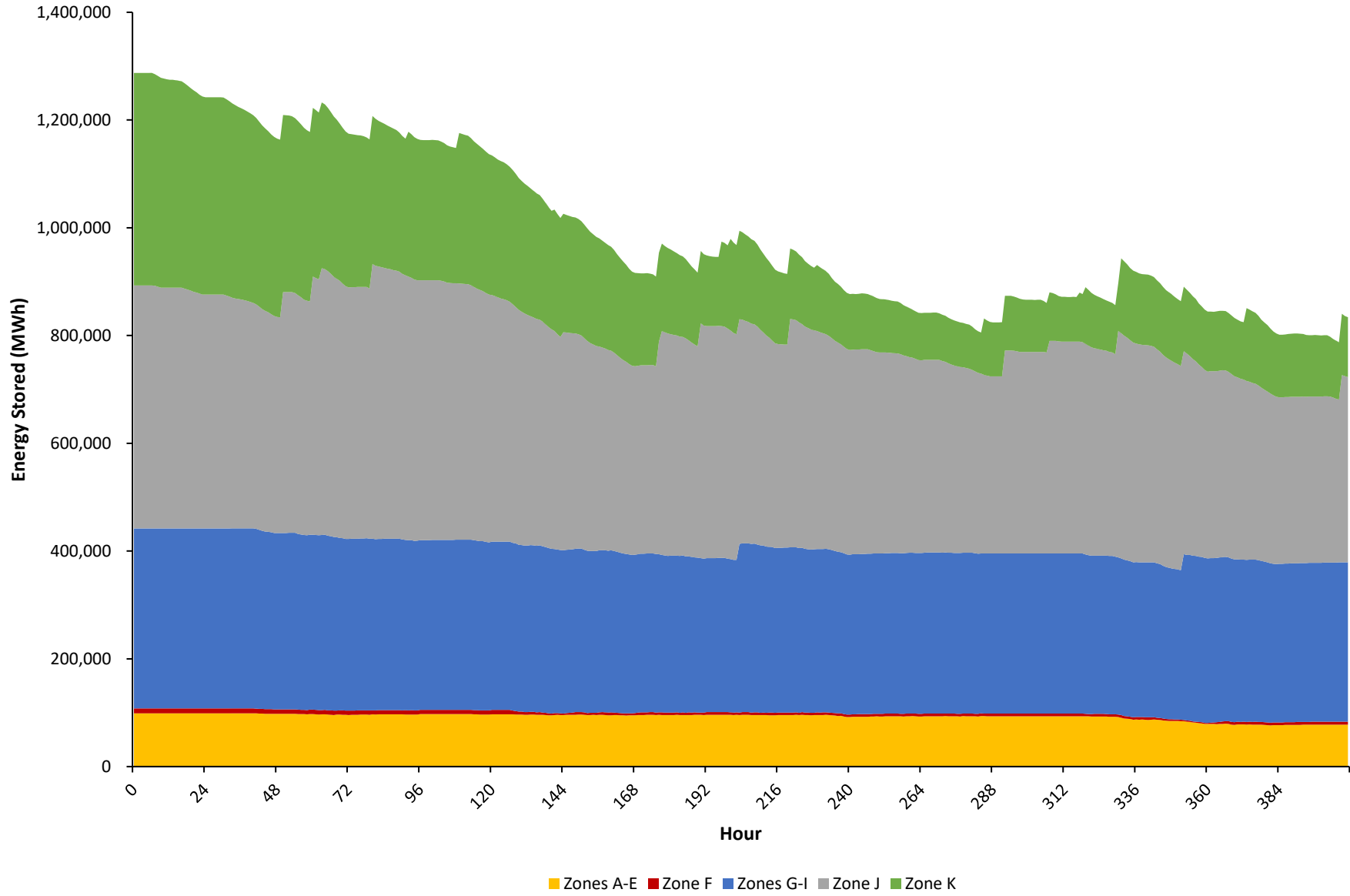
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 9 Low Fuel Inventory



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 9 Low Fuel Inventory

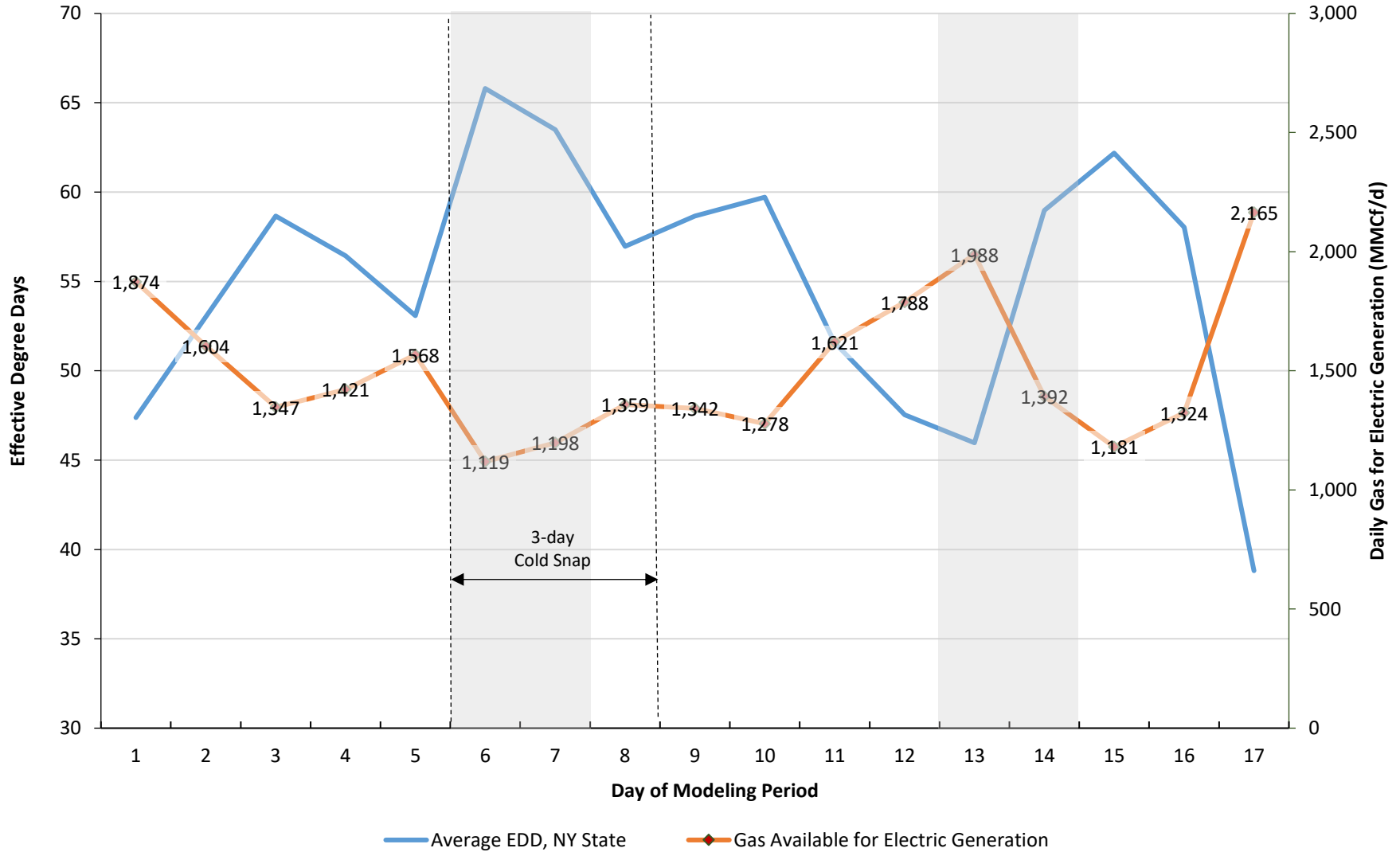


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 9 Low Fuel Inventory



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

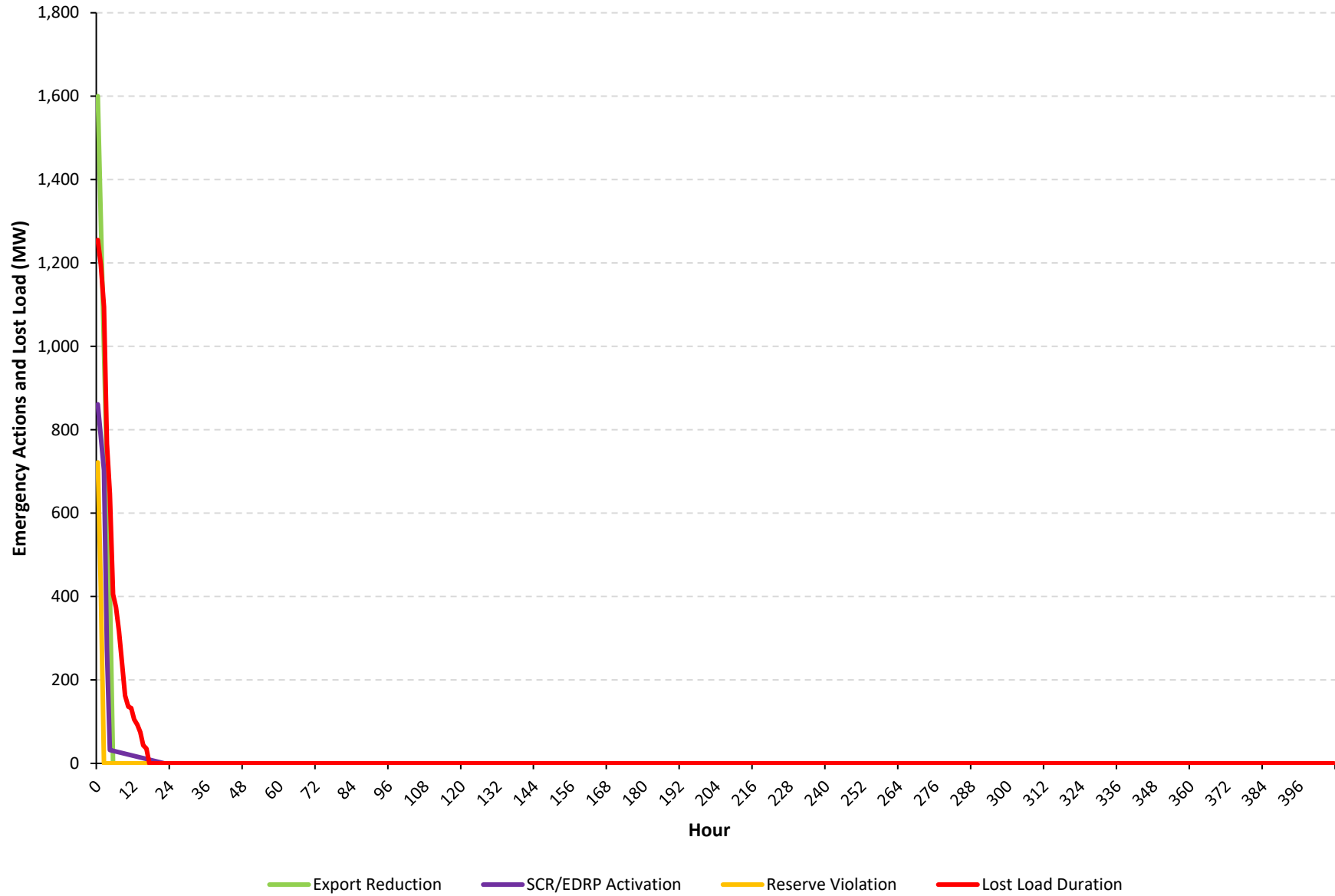
Scenario 3 - PD 9 Low Fuel Inventory



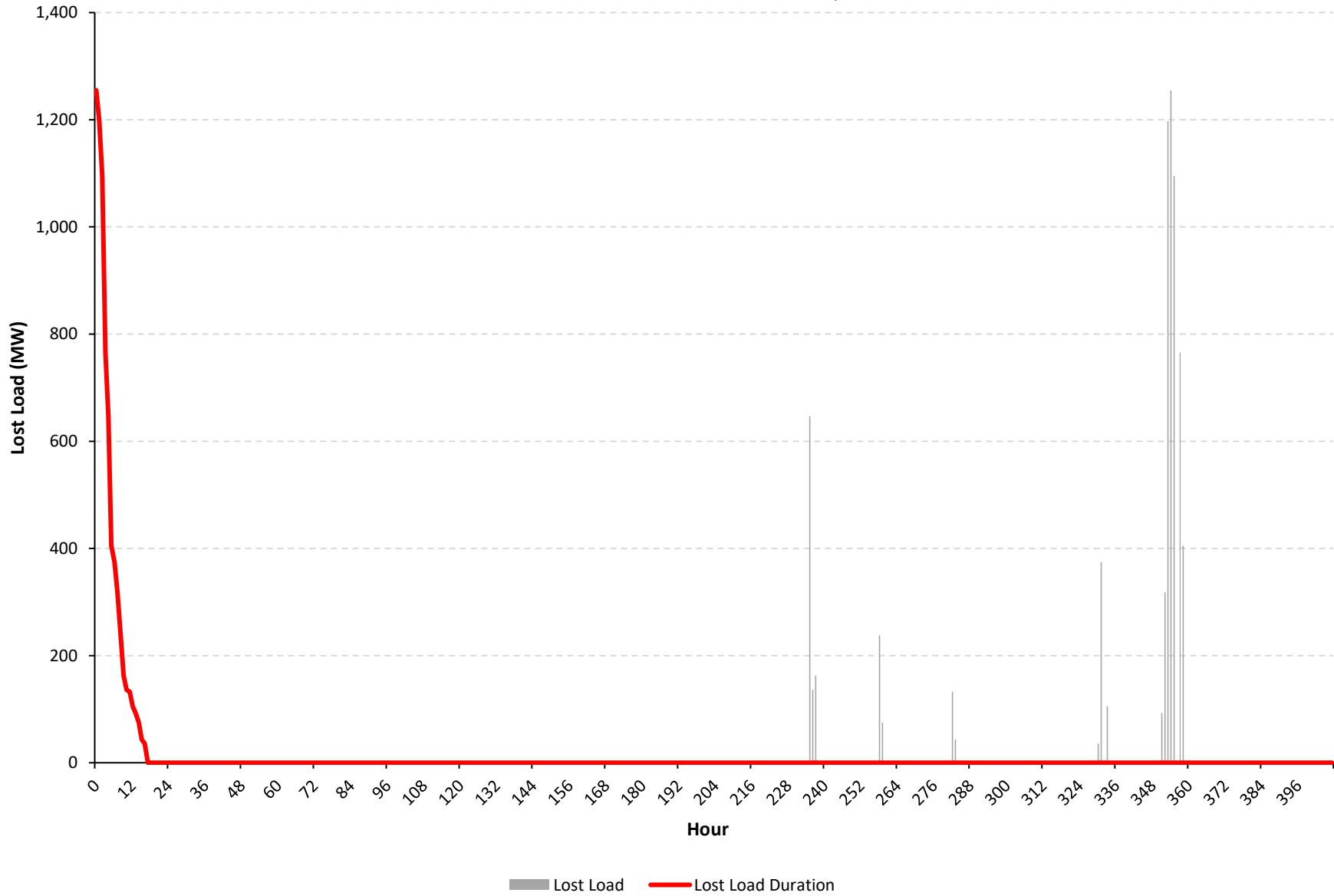
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 9 Low Fuel Inventory



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 9 Low Fuel Inventory



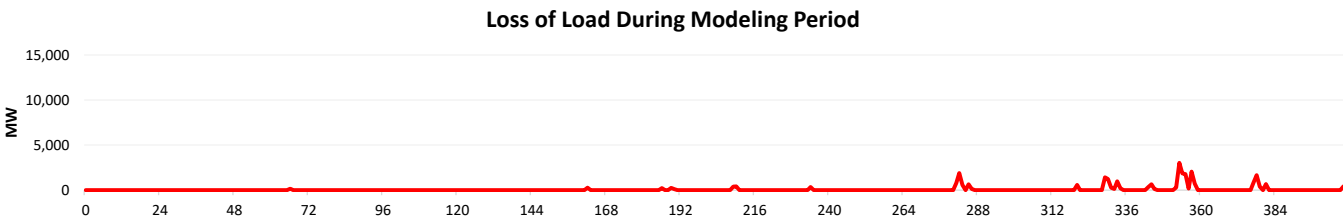
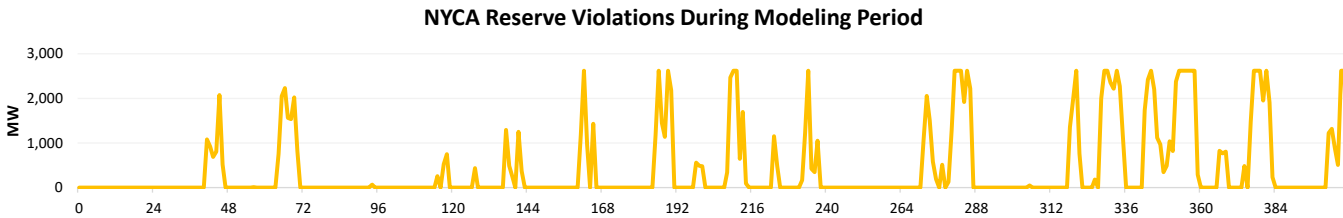
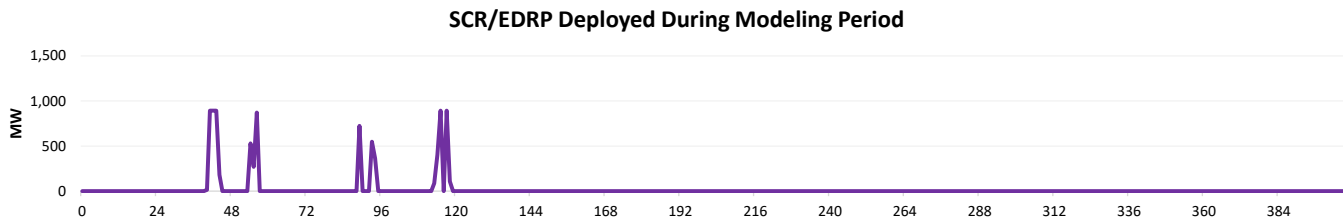
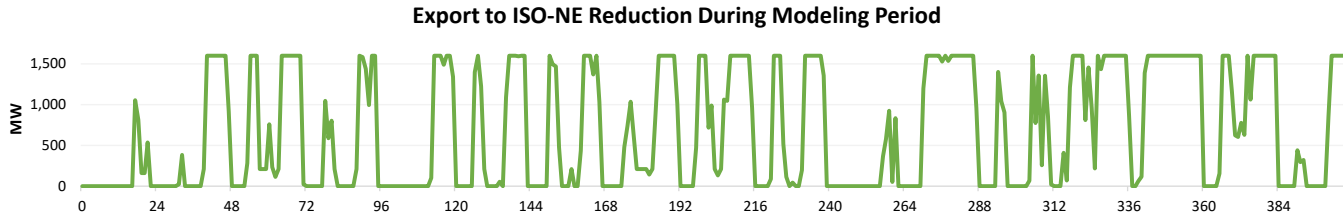
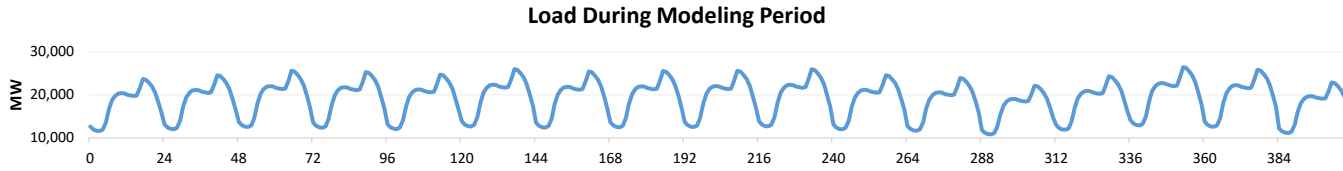
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	237
Total MWh	275,961
Avg. MW	676.4

SCR Deployment	
Total Hrs.	16
Total MWh	8,560
Avg. MW	21.0

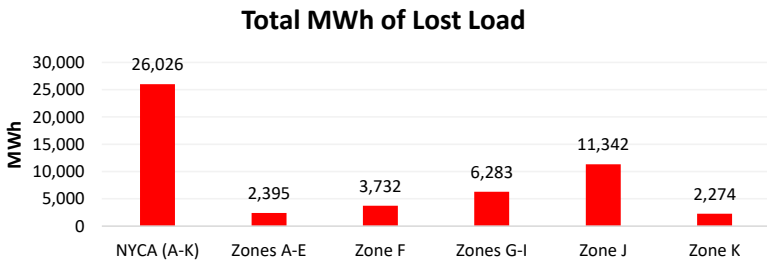
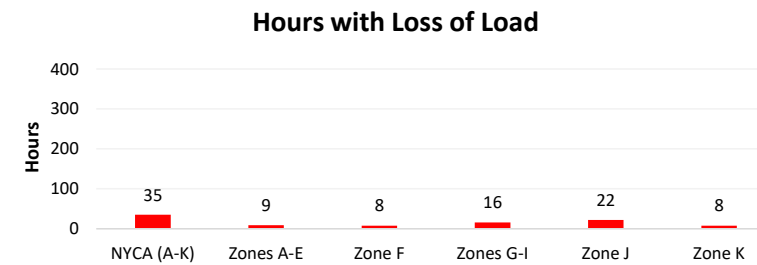
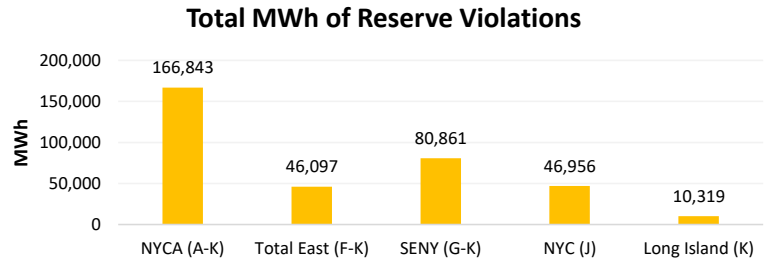
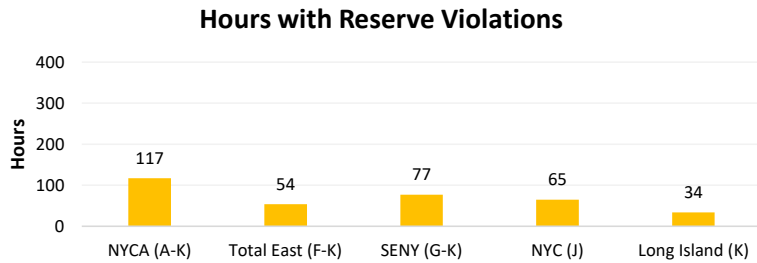
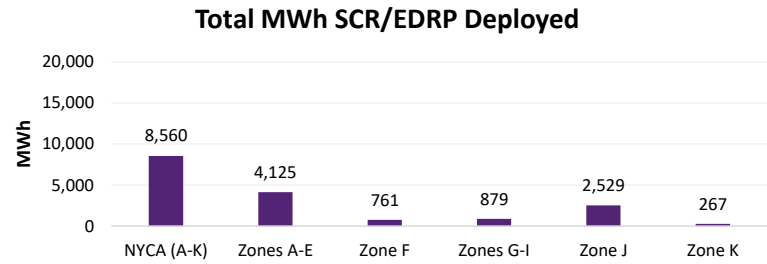
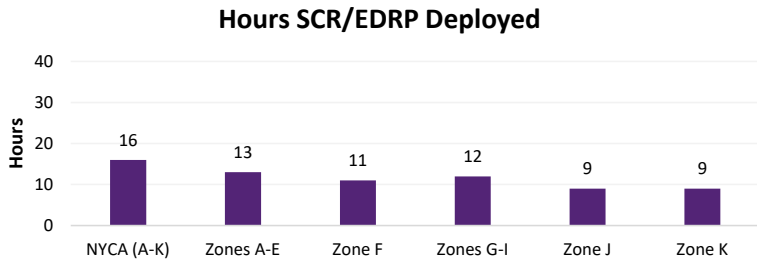
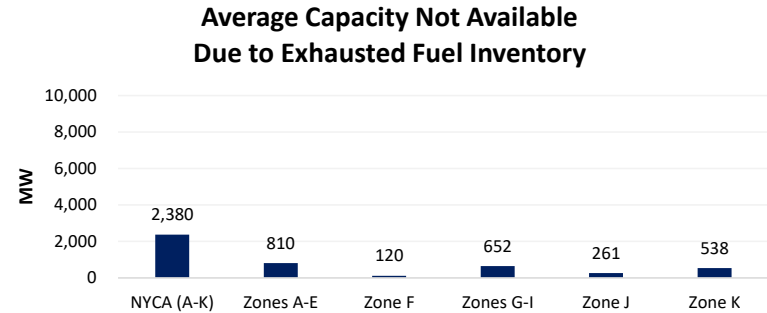
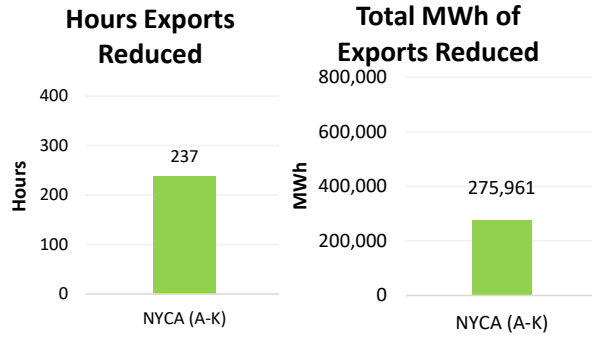
Reserve Violations	
Total Hrs.	117
Total MWh	166,843
Avg. MW	408.9
First Hour with Viol.	41
First Hour, Zone K	137

Loss of Load	
Total Hrs.	35
Total MWh	26,026
Avg. MW	63.8
First Hour with Losses	66
First Hour, Zone K	162

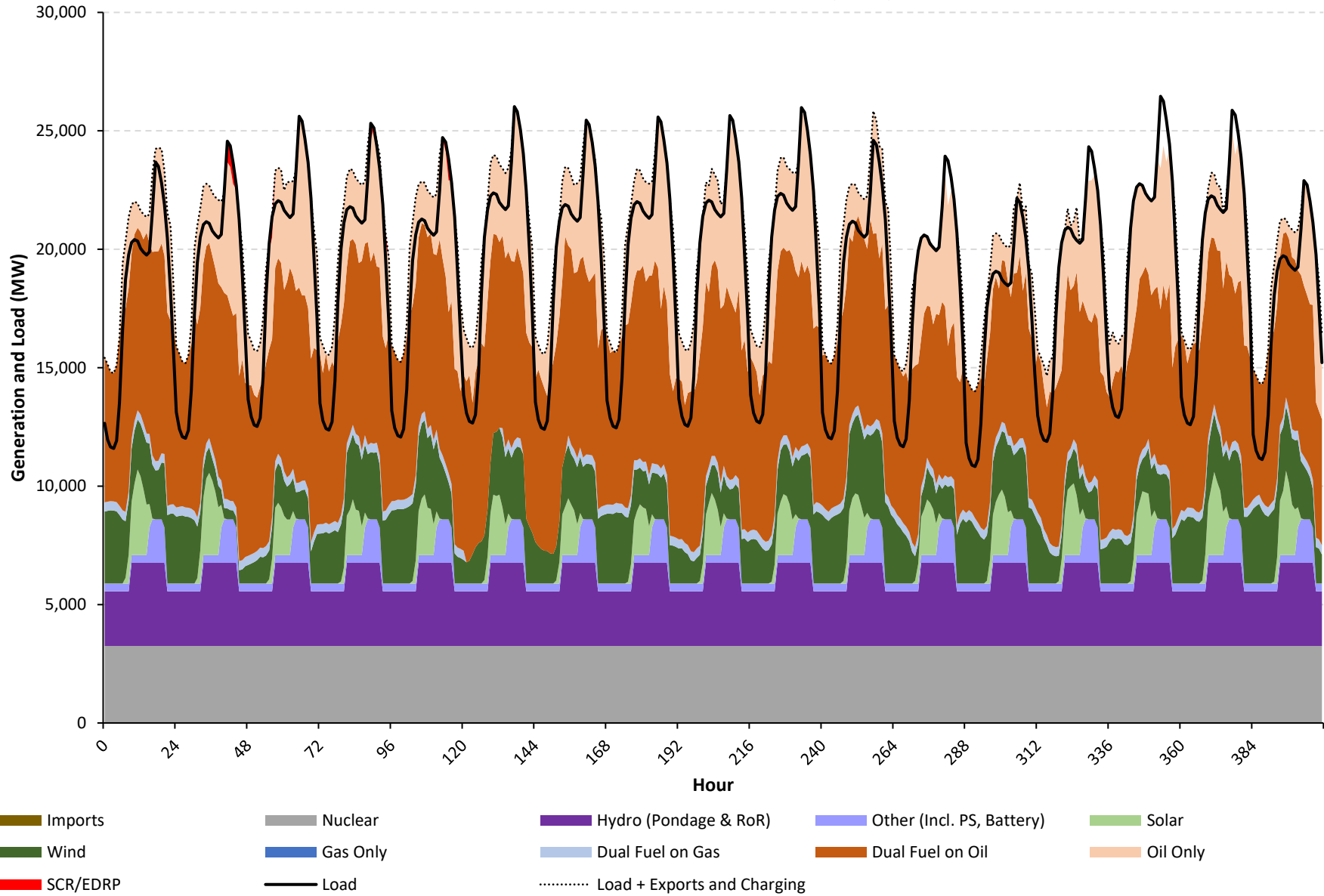
Full Period Results Summary

Case Name: Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)

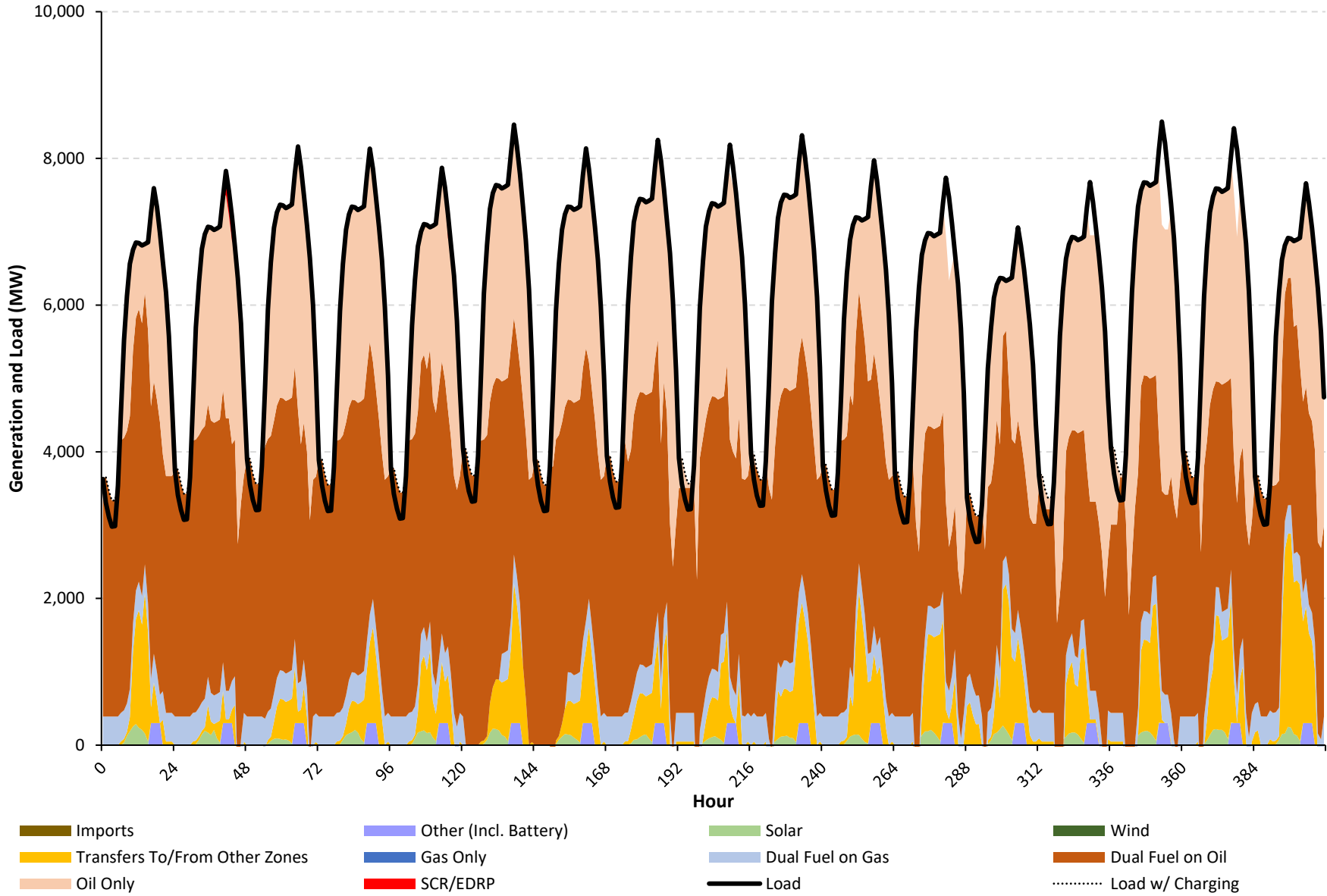
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



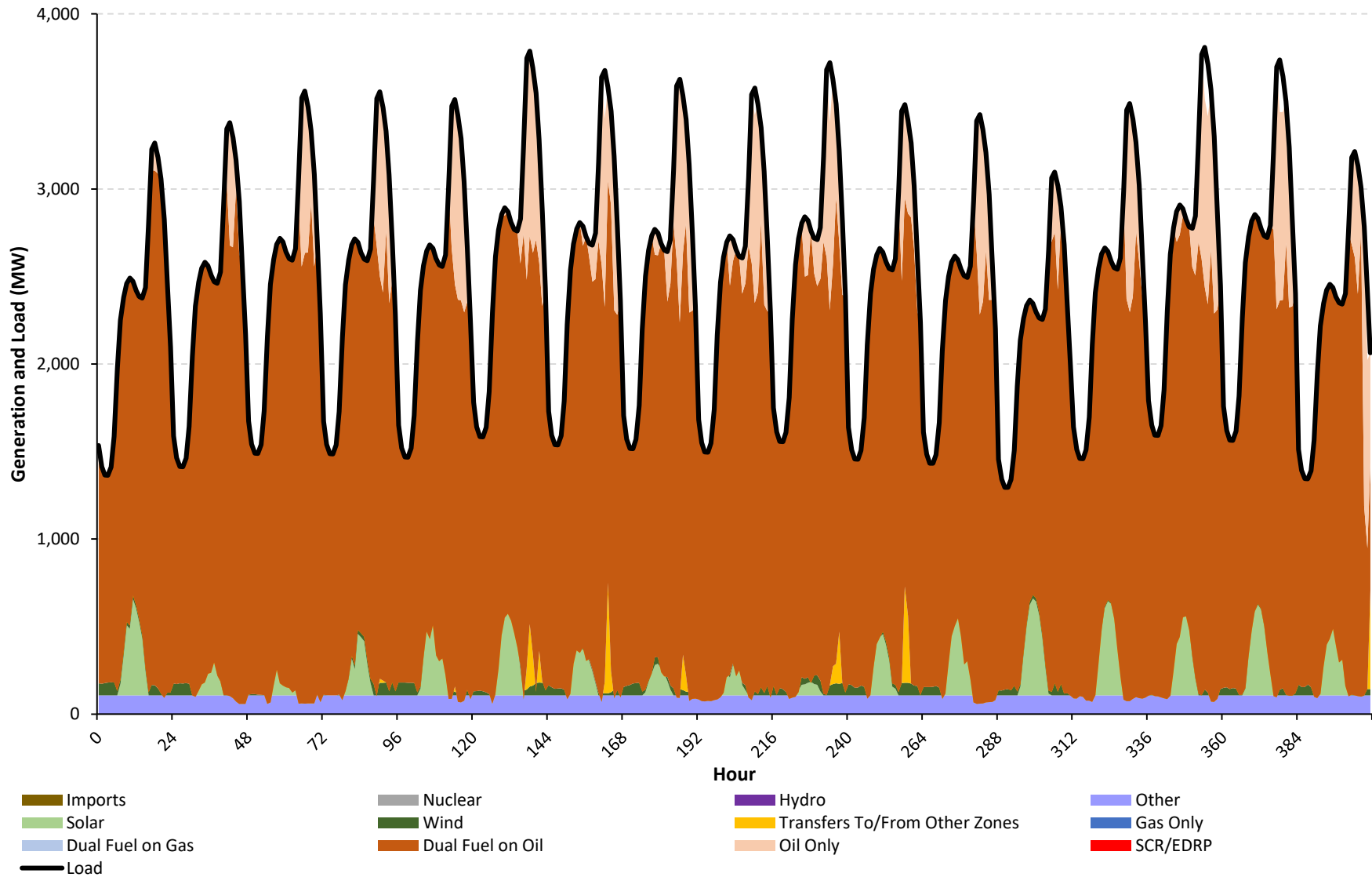
NYCA Hourly Generation (MWh) by Fuel Group Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



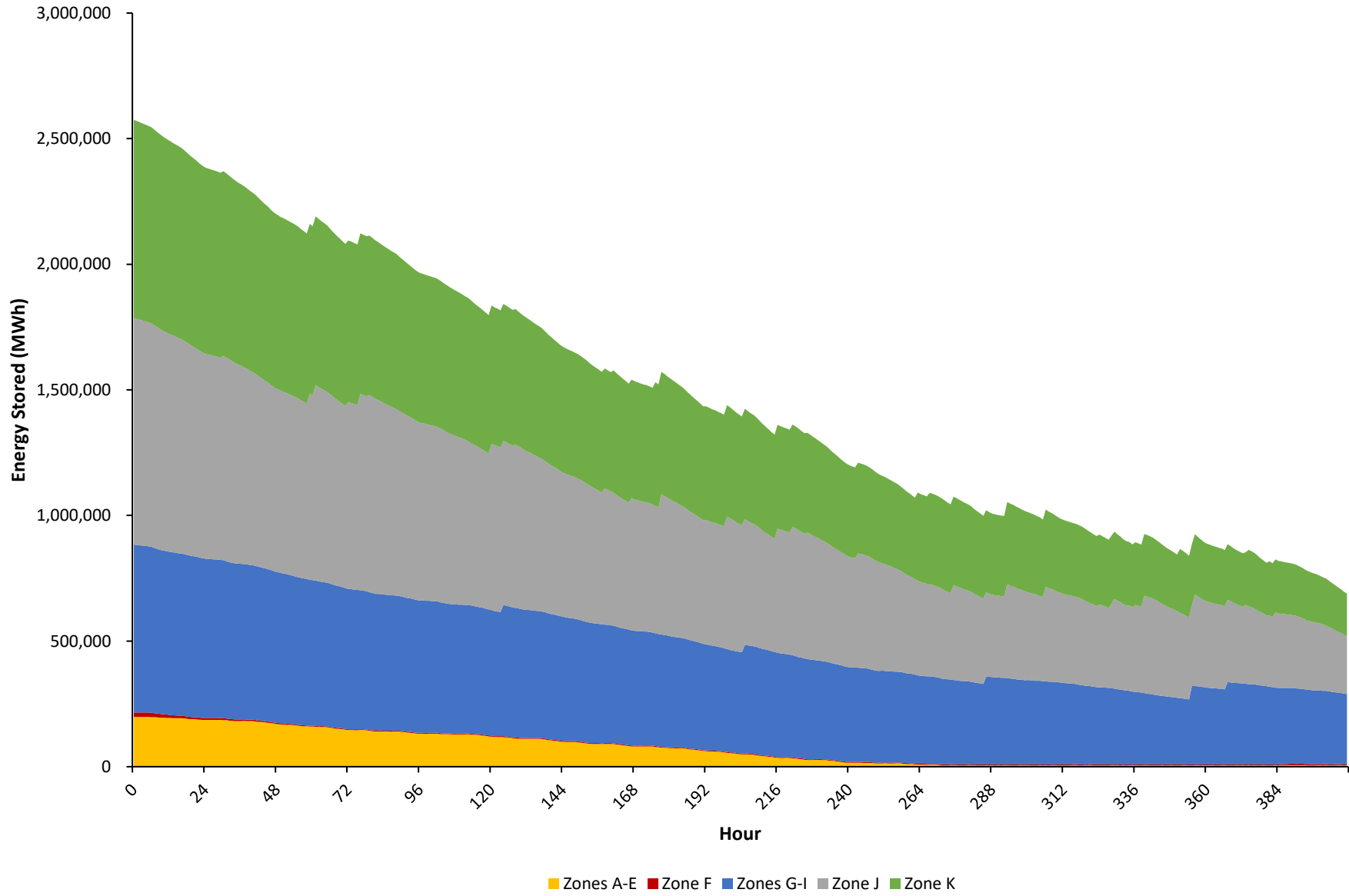
Zone J Hourly Generation (MW) by Fuel Group Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)

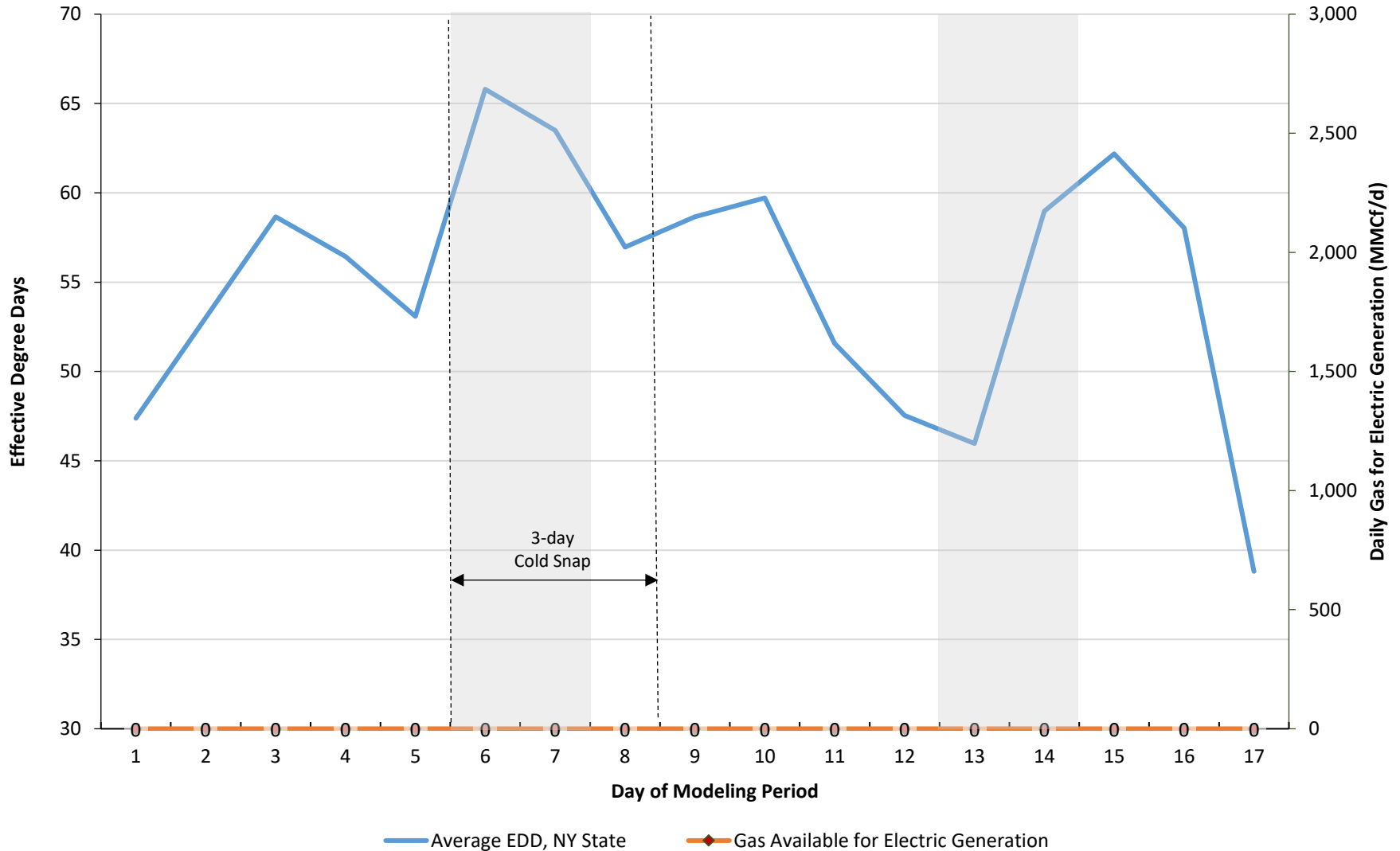


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

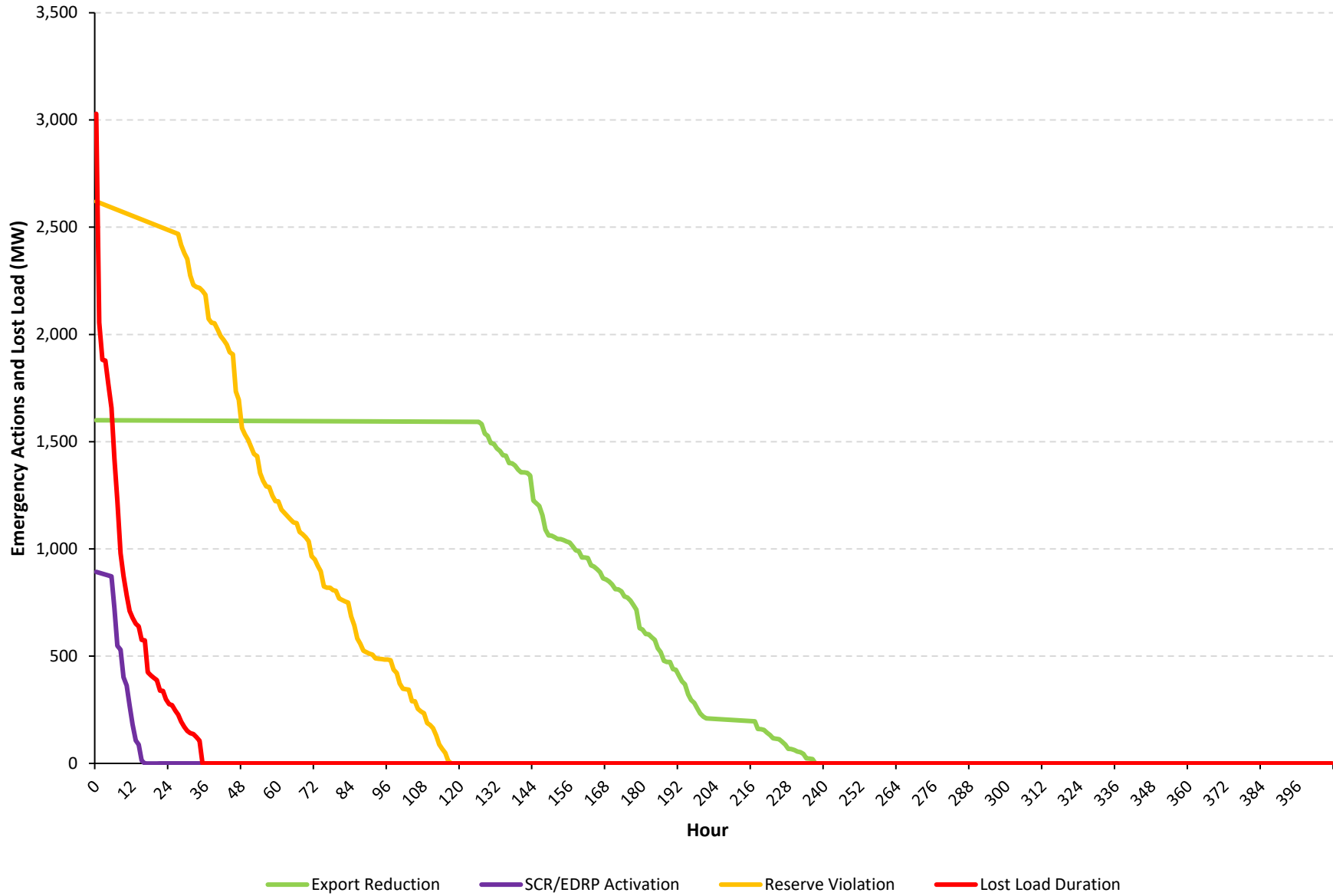
Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



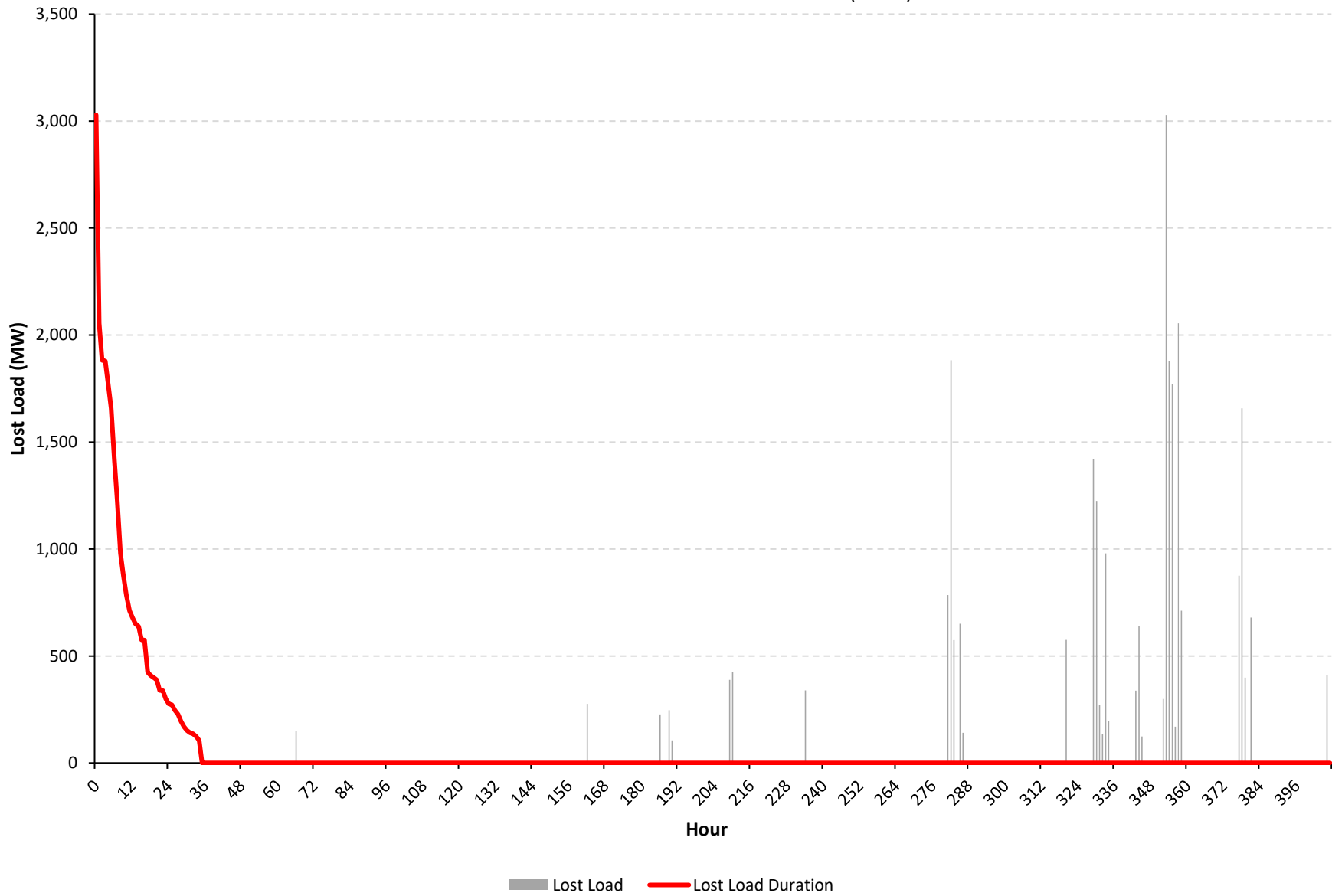
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 3 - PD 10 Non-Firm Gas Unavailable (NYCA)



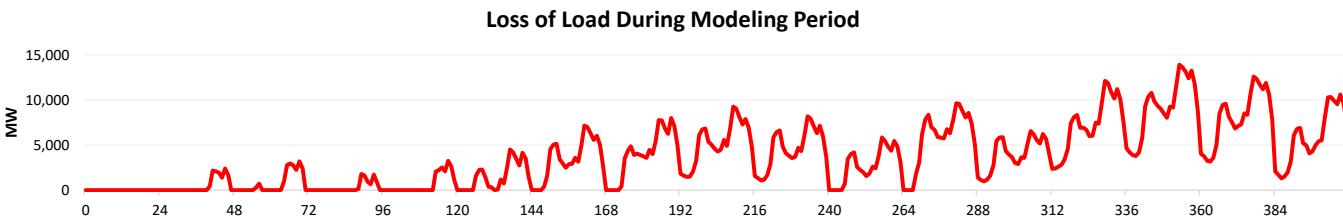
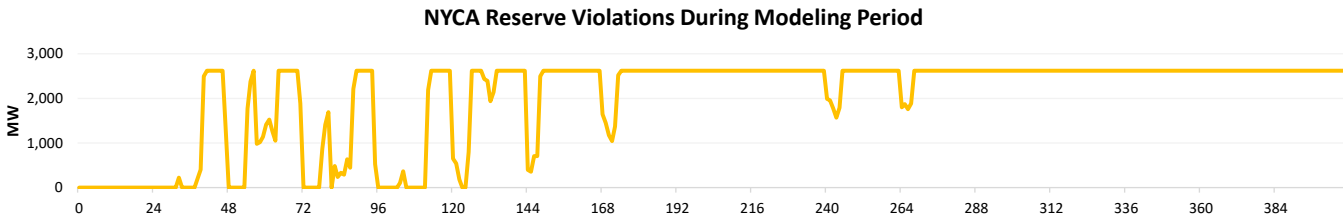
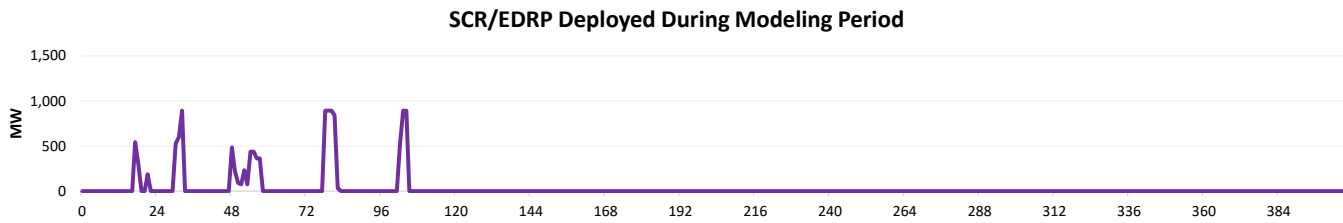
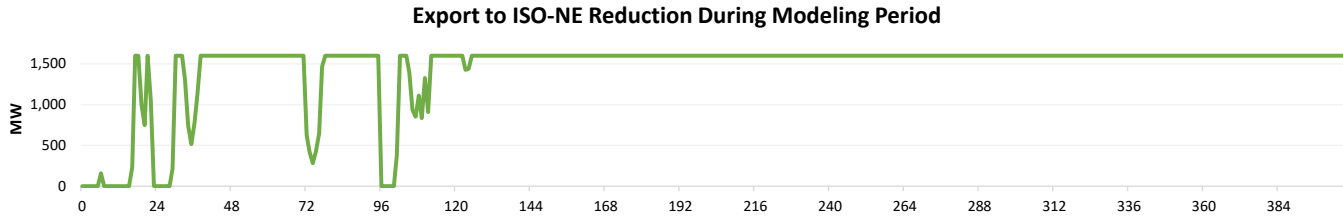
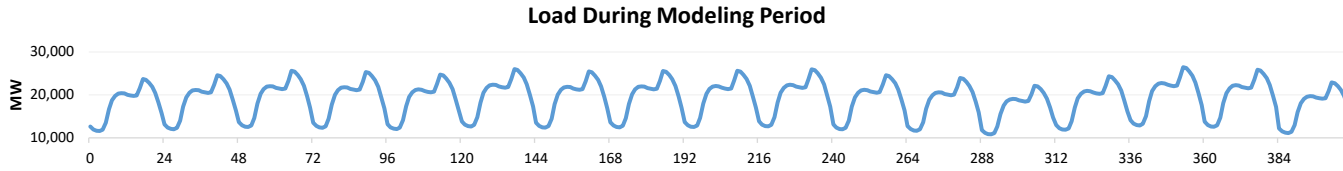
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	382
Total MWh	590,338
Avg. MW	1,446.9

SCR Deployment	
Total Hrs.	24
Total MWh	11,700
Avg. MW	28.7

Reserve Violations	
Total Hrs.	342
Total MWh	818,927
Avg. MW	2,007.2
First Hour with Viol.	32
First Hour, Zone K	65

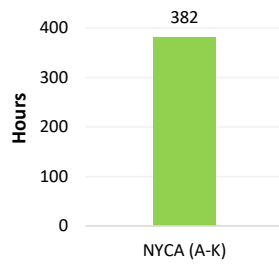
Loss of Load	
Total Hrs.	293
Total MWh	1,528,902
Avg. MW	3,747.3
First Hour with Losses	40
First Hour, Zone K	113

Full Period Results Summary

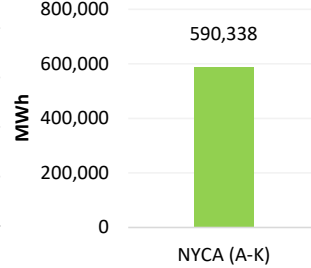
Case Name: Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	Off
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW

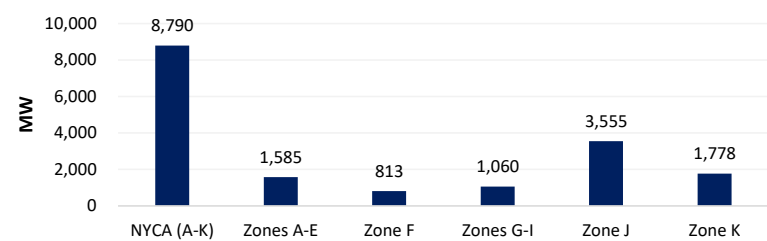
Hours Exports Reduced



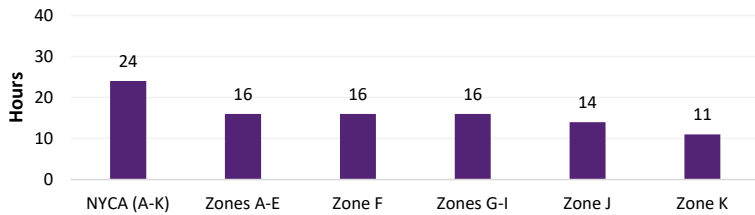
Total MWh of Exports Reduced



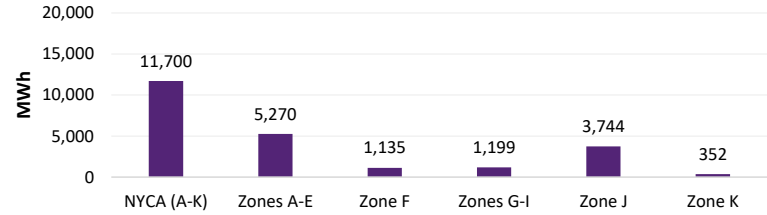
Average Capacity Not Available Due to Exhausted Fuel Inventory



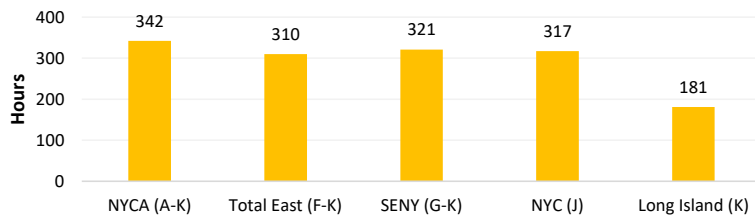
Hours SCR/EDRP Deployed



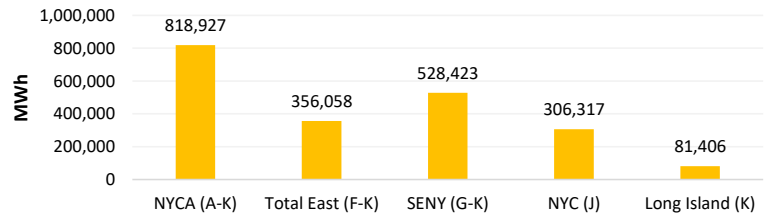
Total MWh SCR/EDRP Deployed



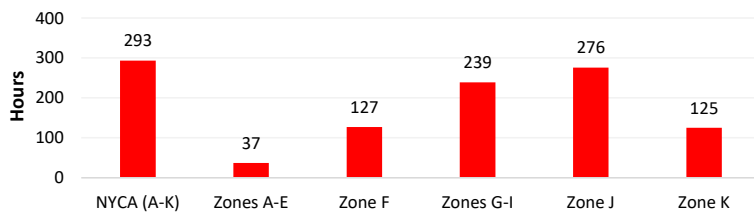
Hours with Reserve Violations



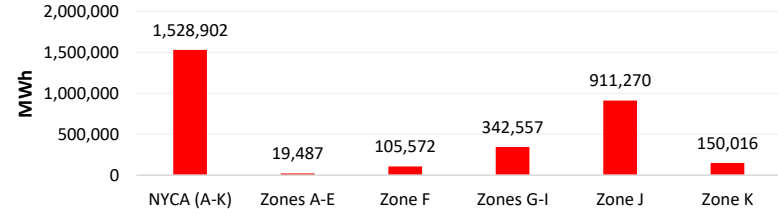
Total MWh of Reserve Violations



Hours with Loss of Load



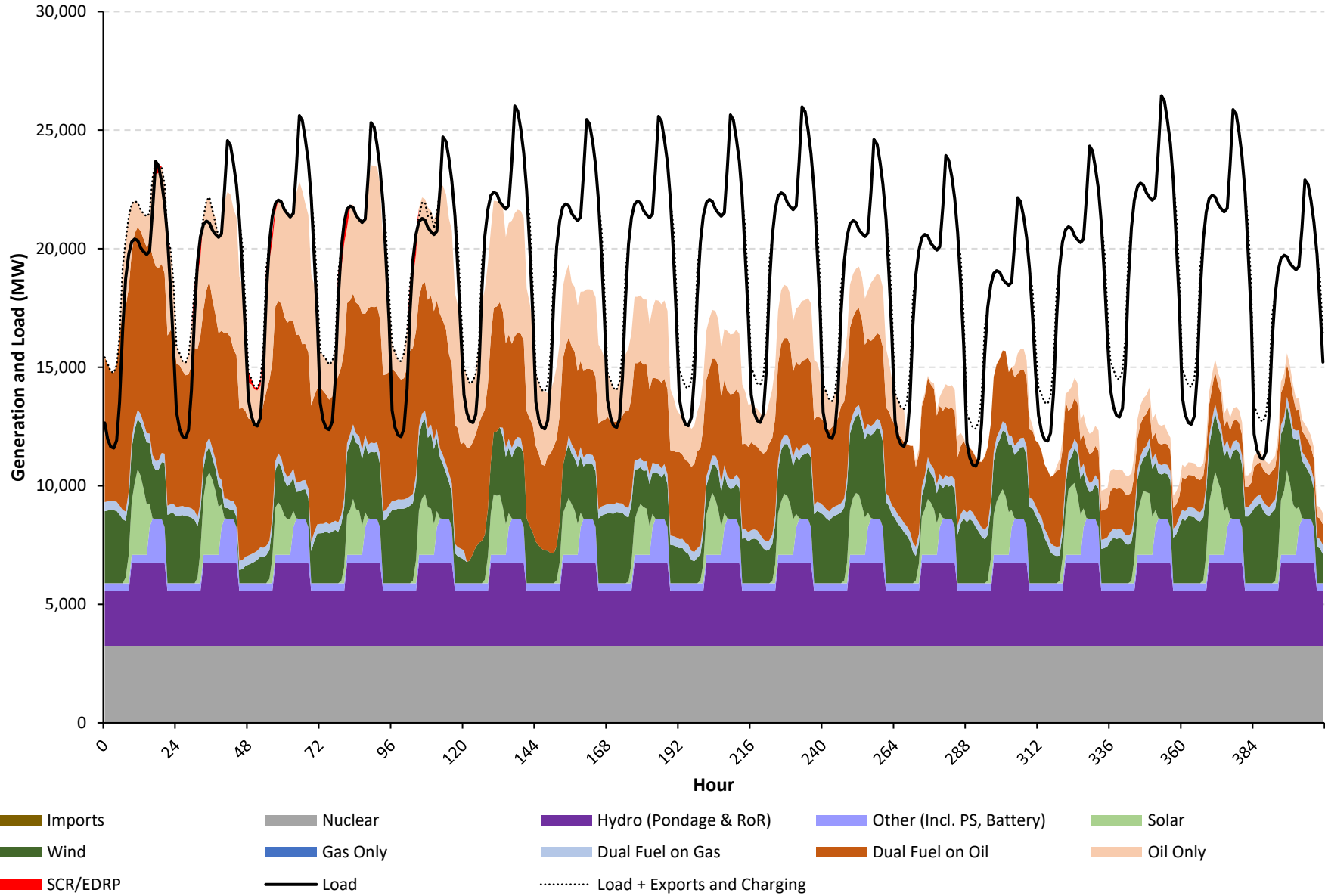
Total MWh of Lost Load



NYCA

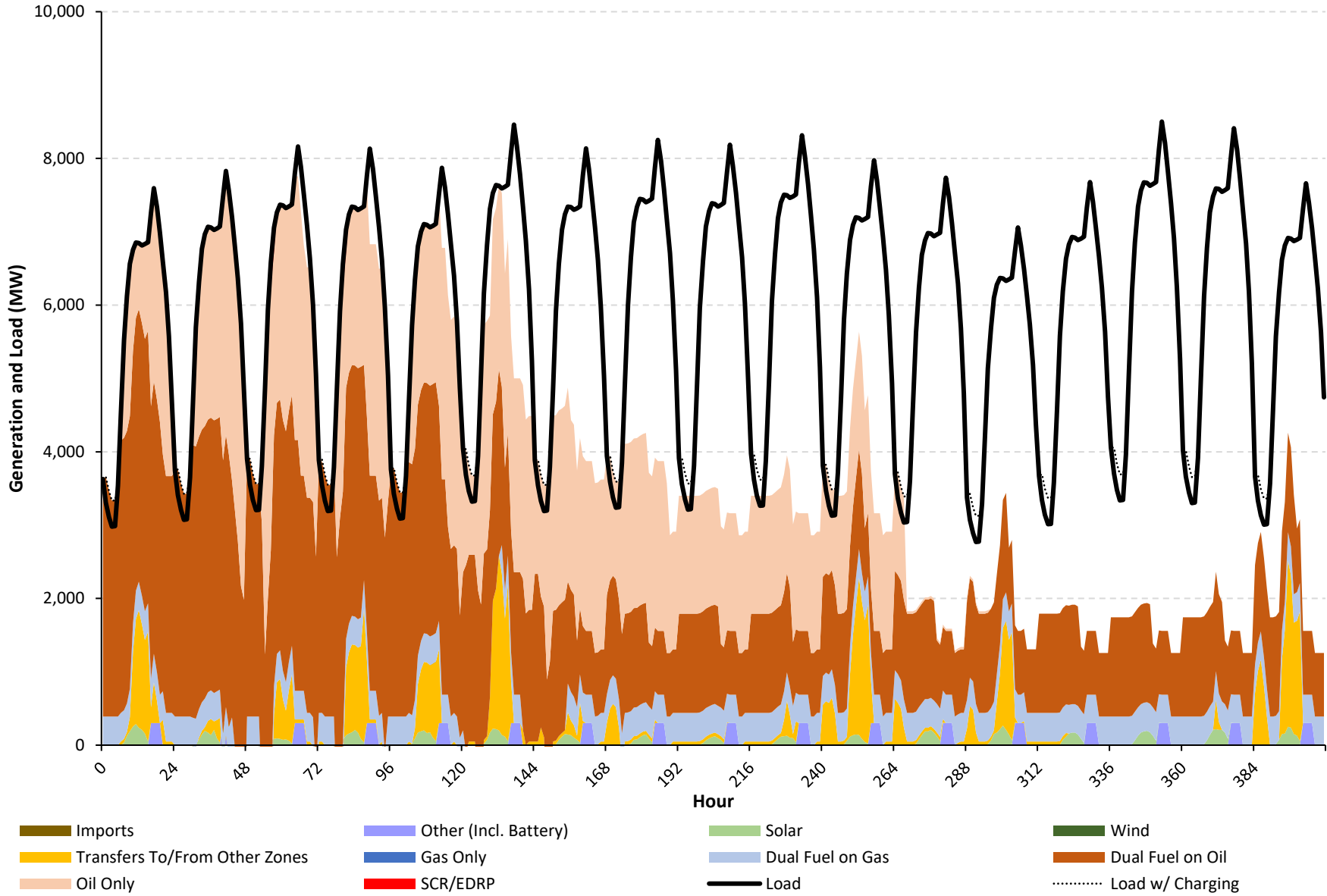
Hourly Generation (MWh) by Fuel Group

Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



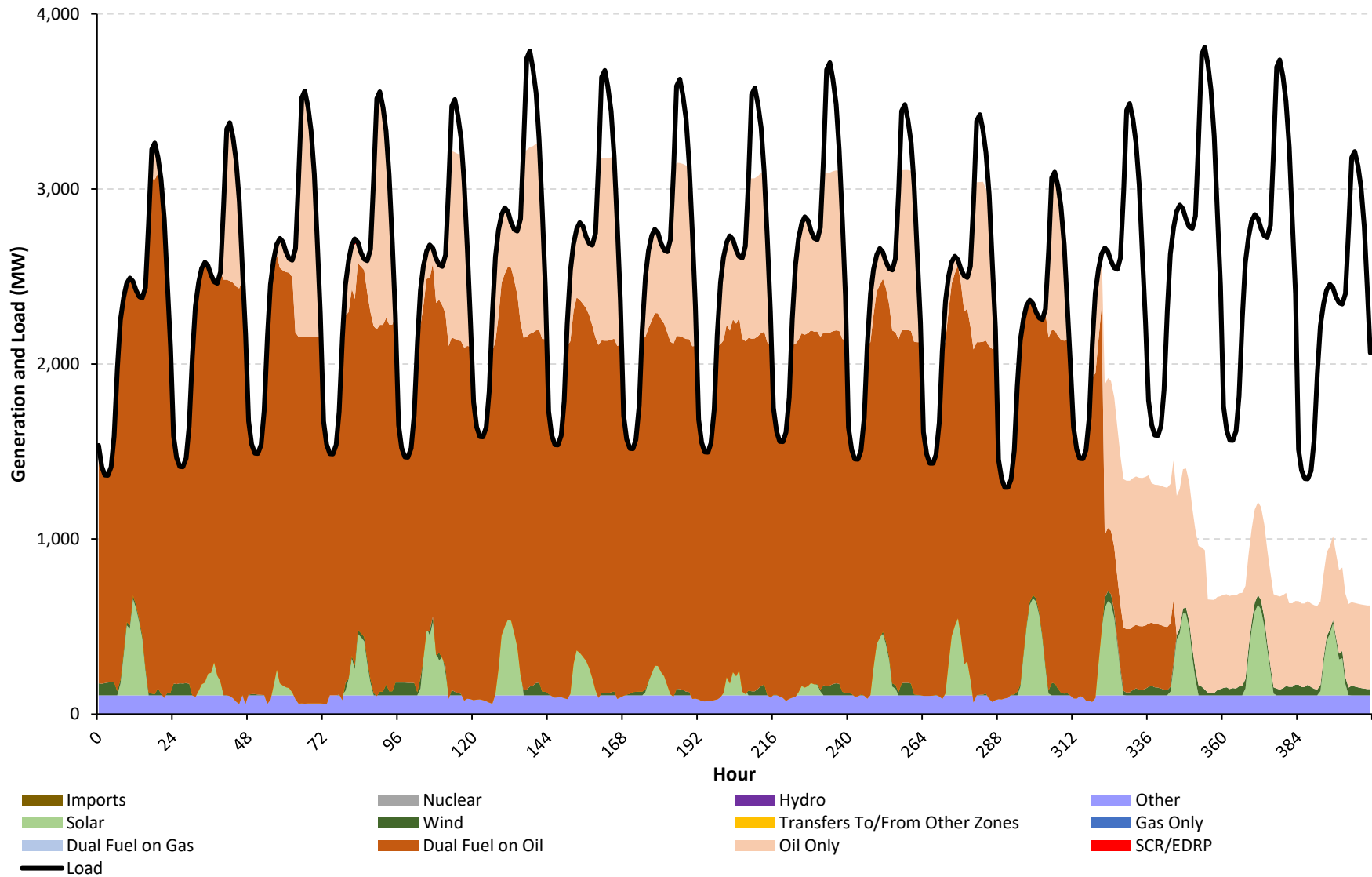
Zone J Hourly Generation (MW) by Fuel Group

Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

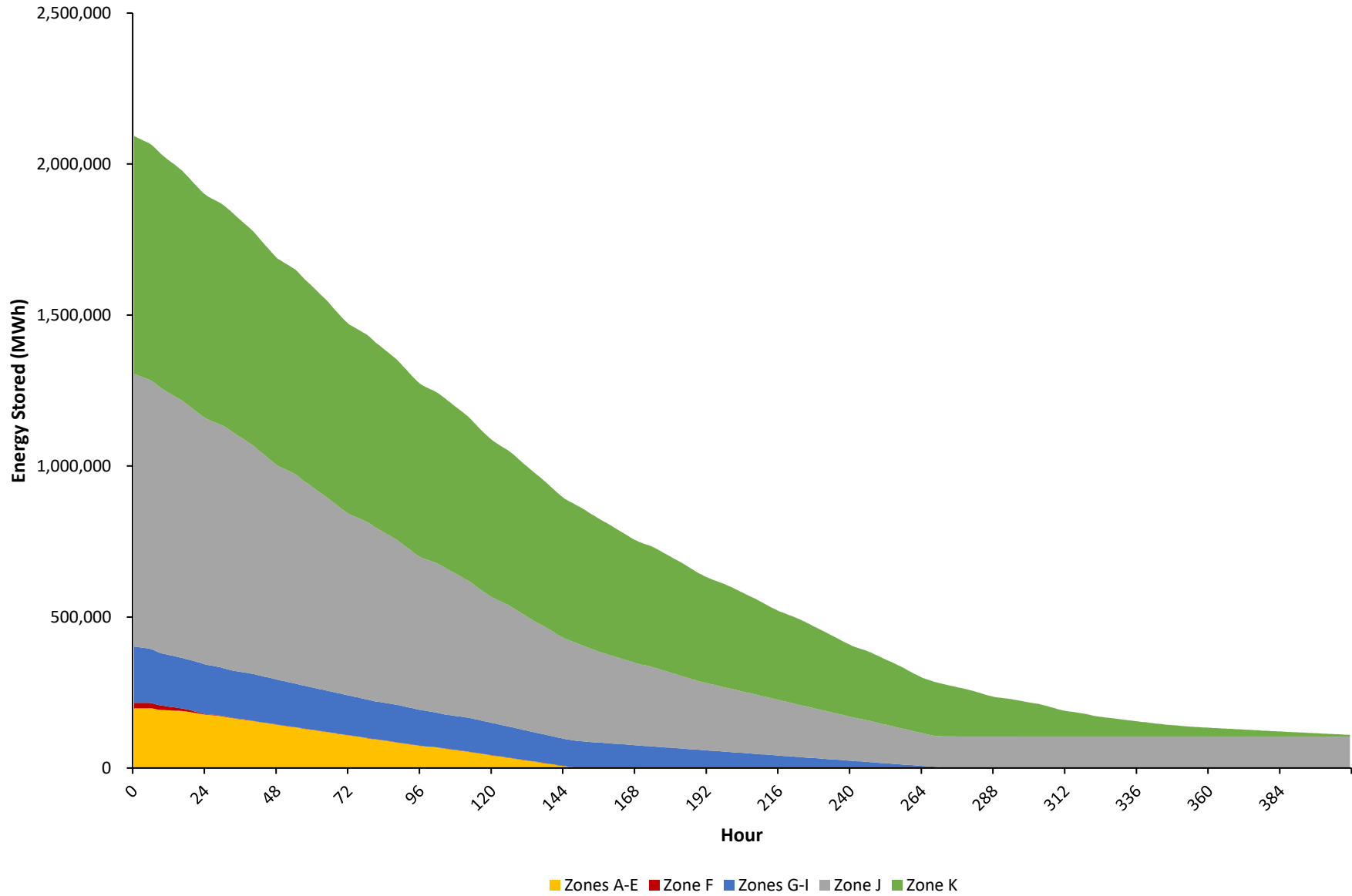


Zone K Hourly Generation (MW) by Fuel Group

Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

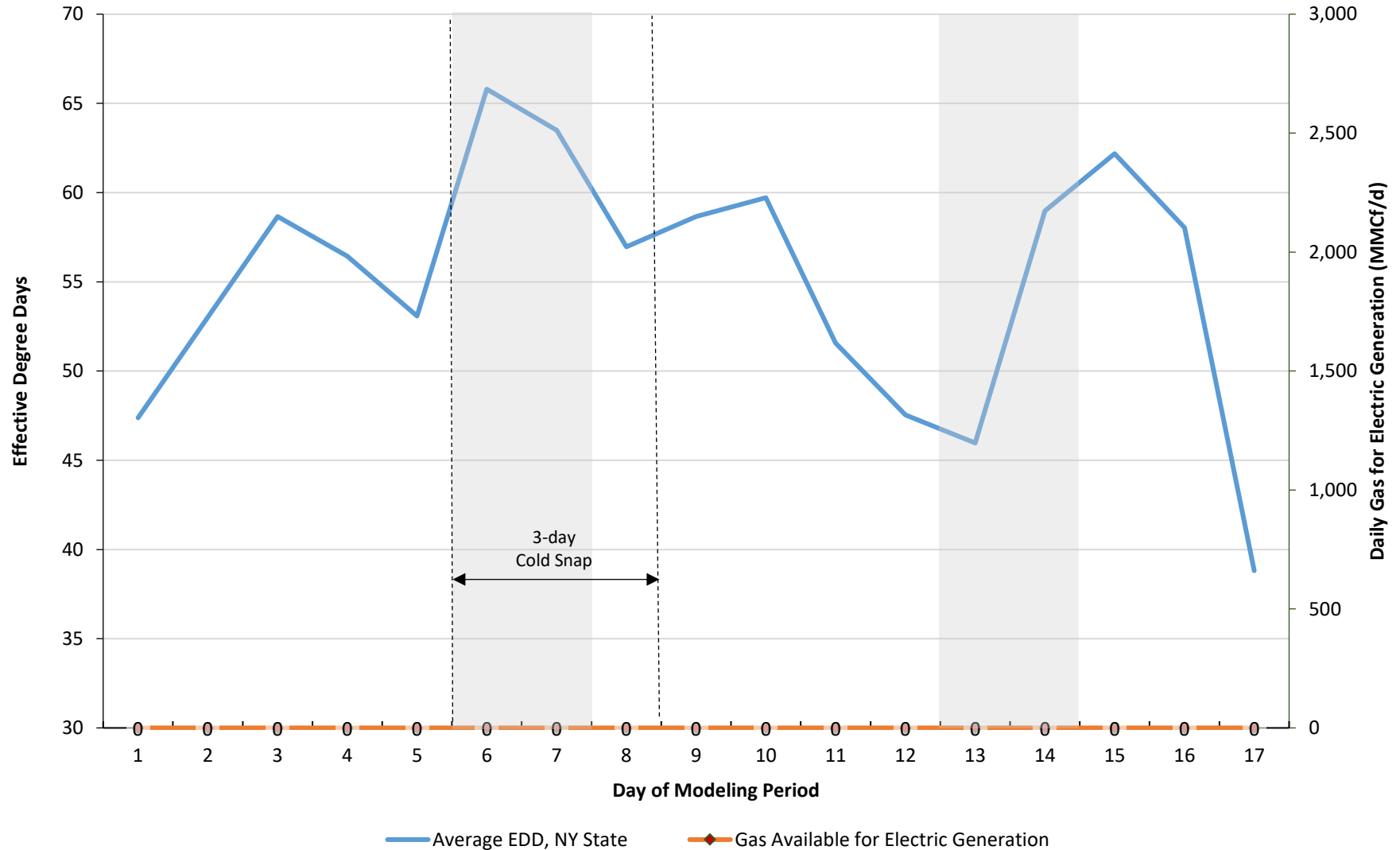


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

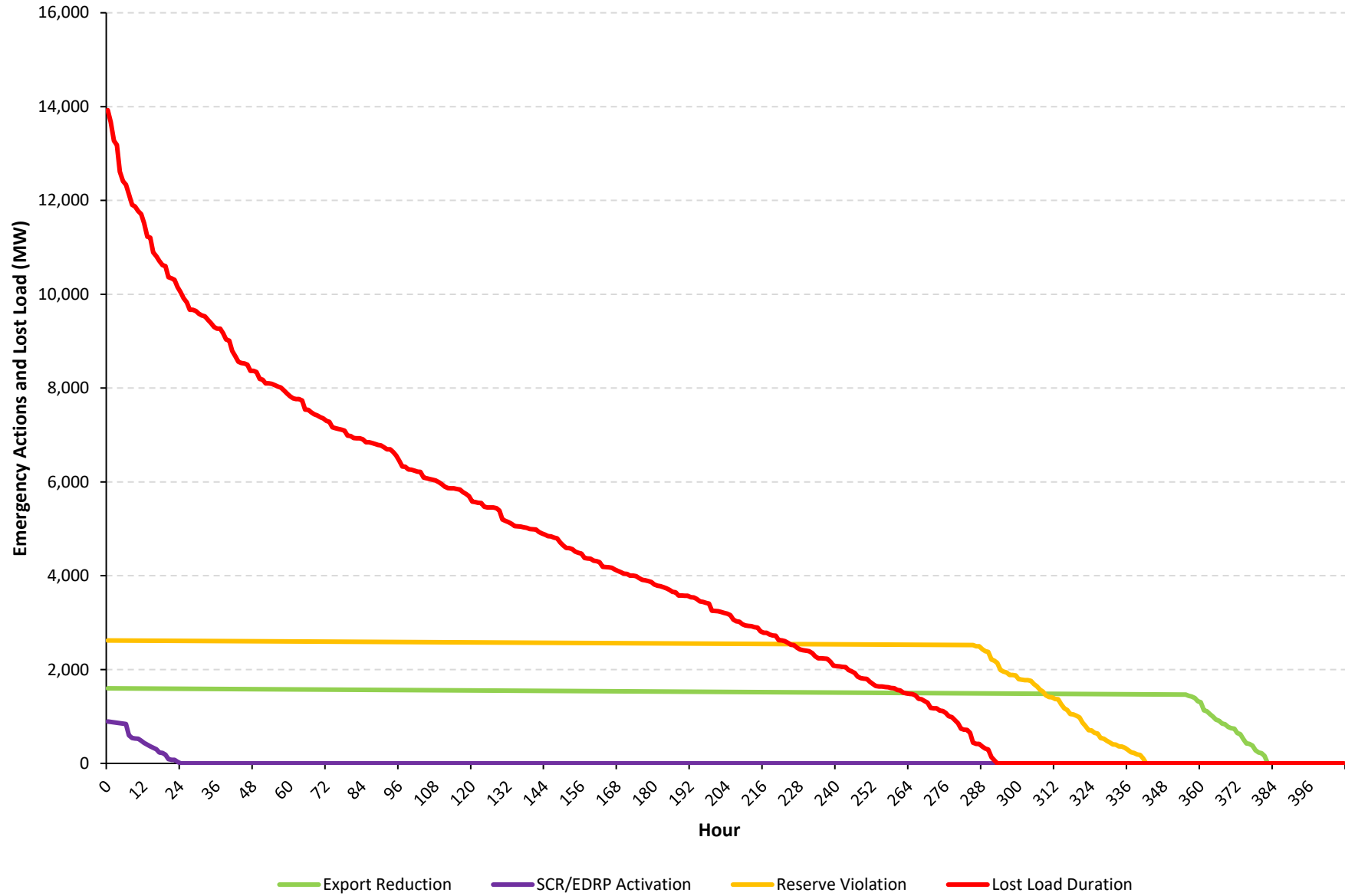
Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

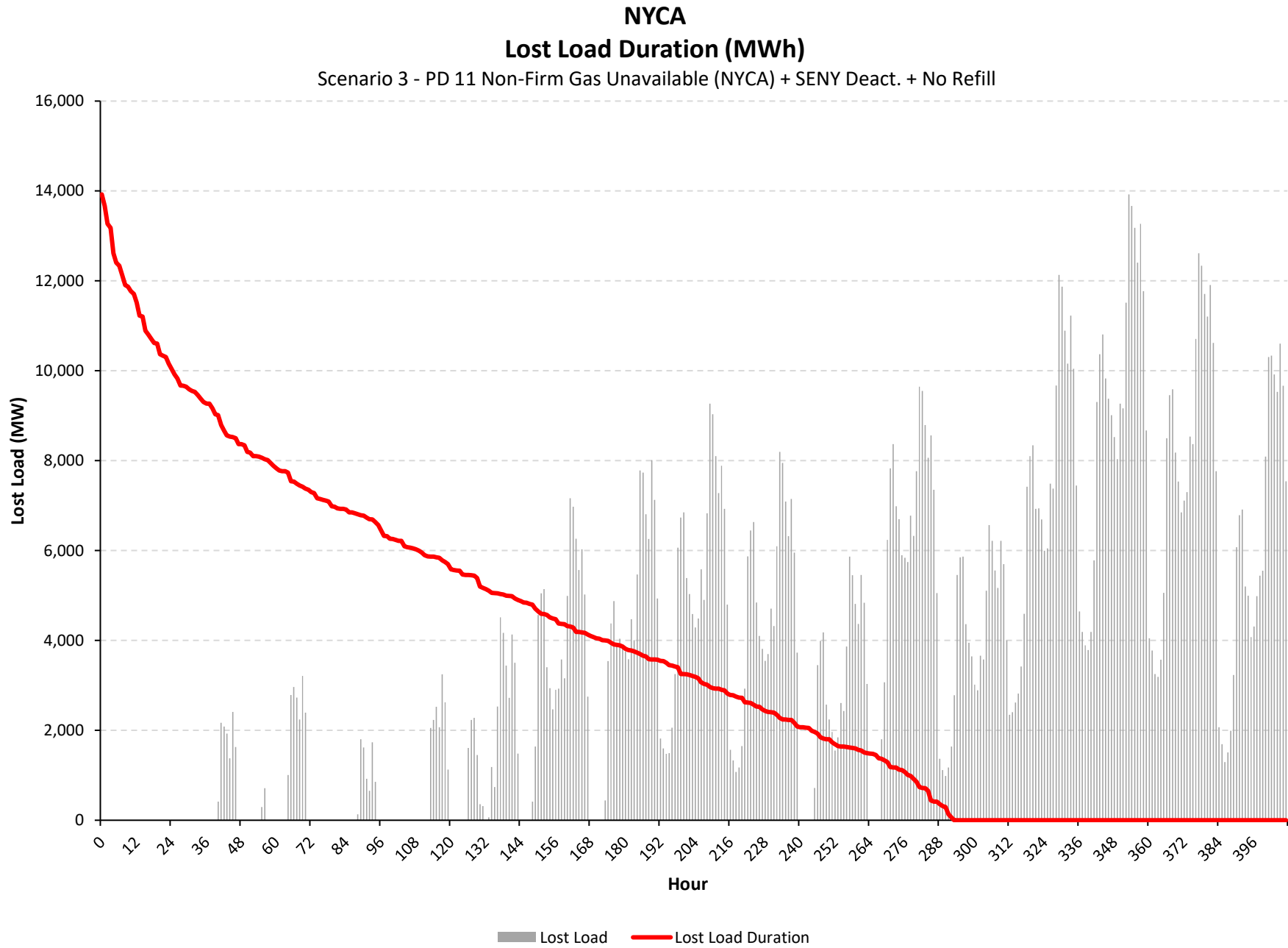


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 3 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill





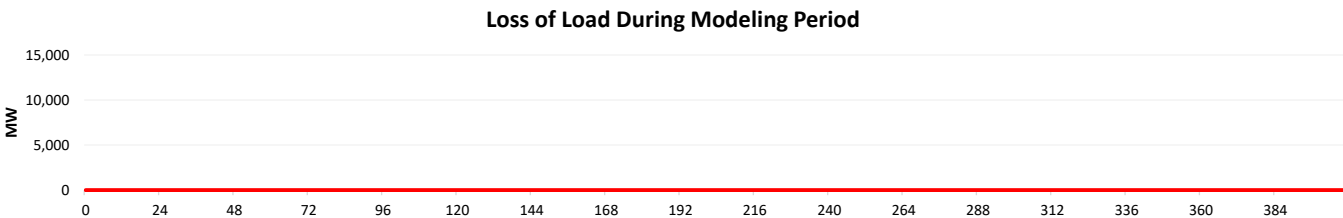
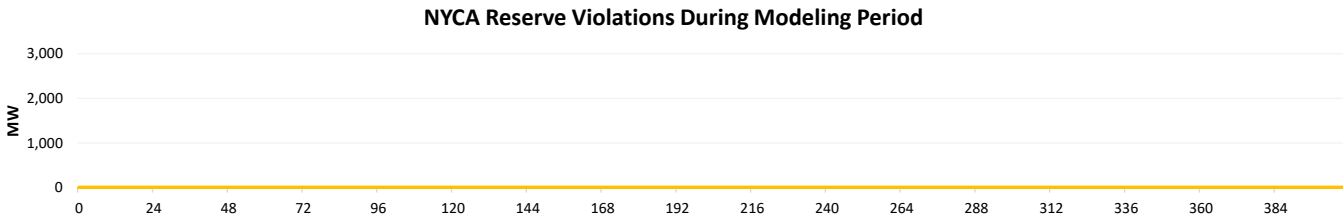
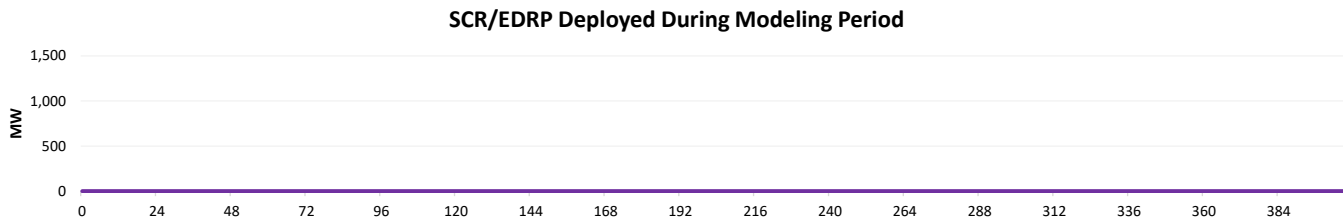
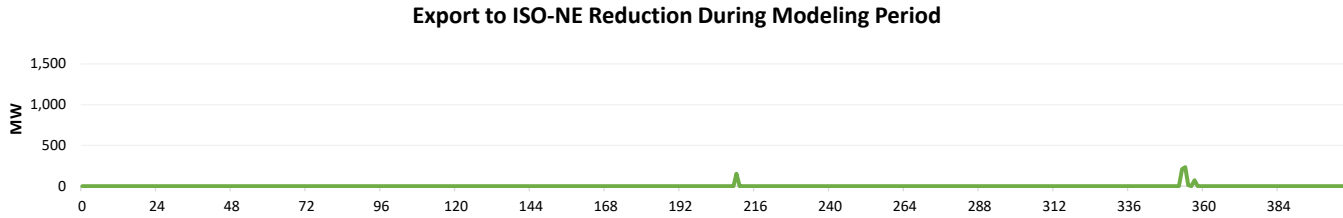
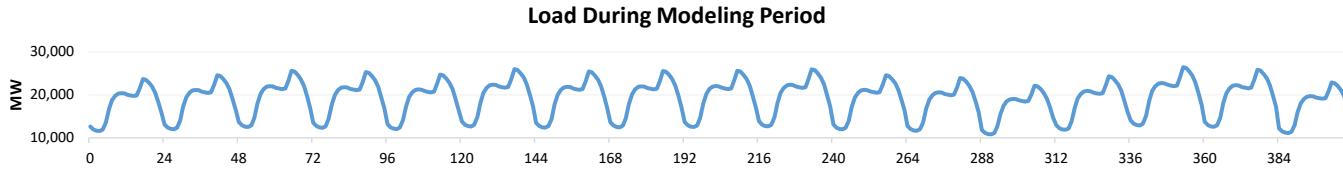
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 4 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	5
Total MWh	681
Avg. MW	1.7

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

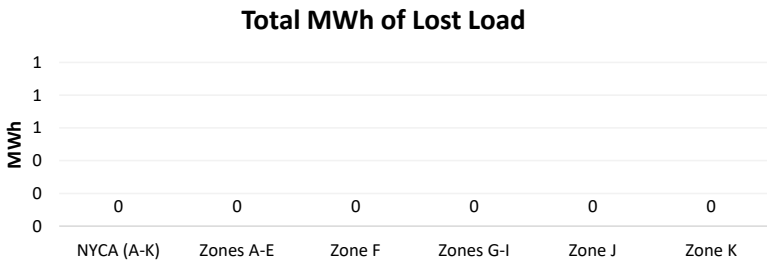
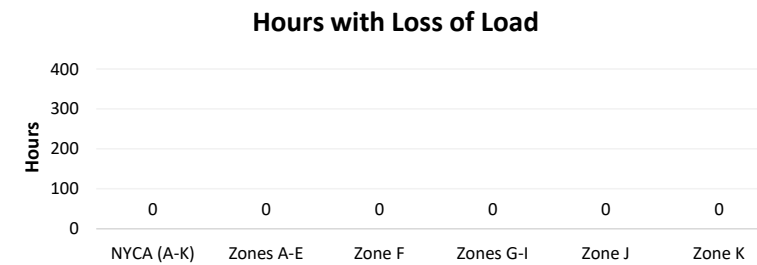
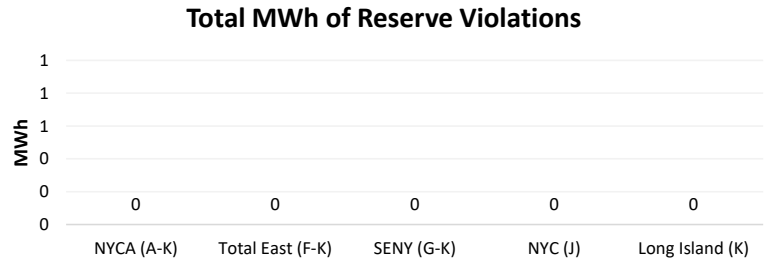
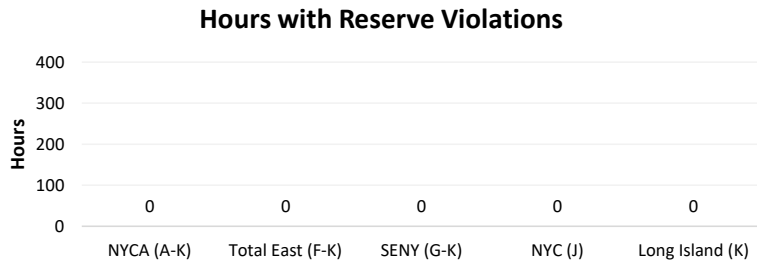
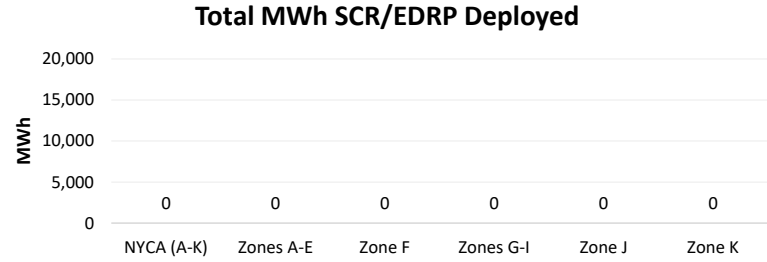
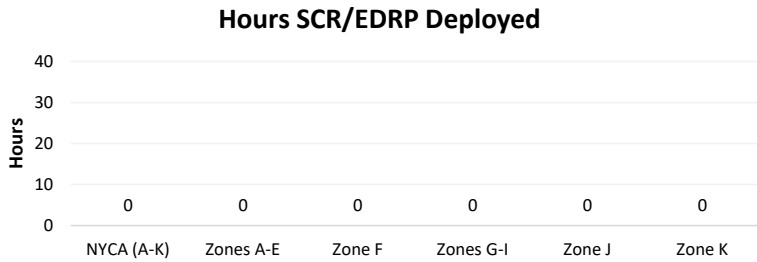
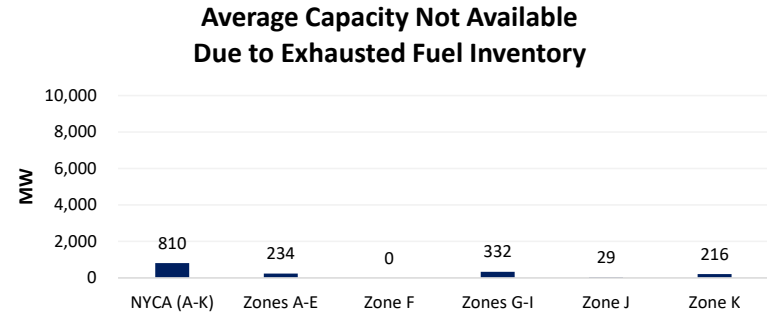
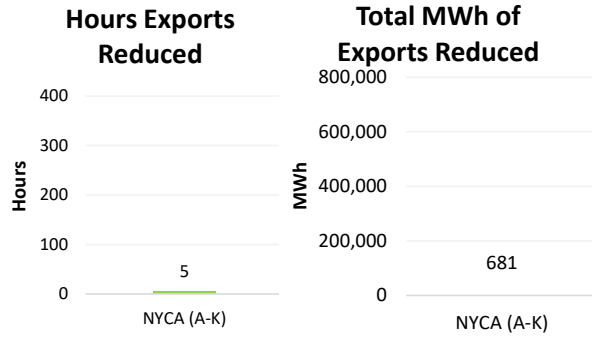
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

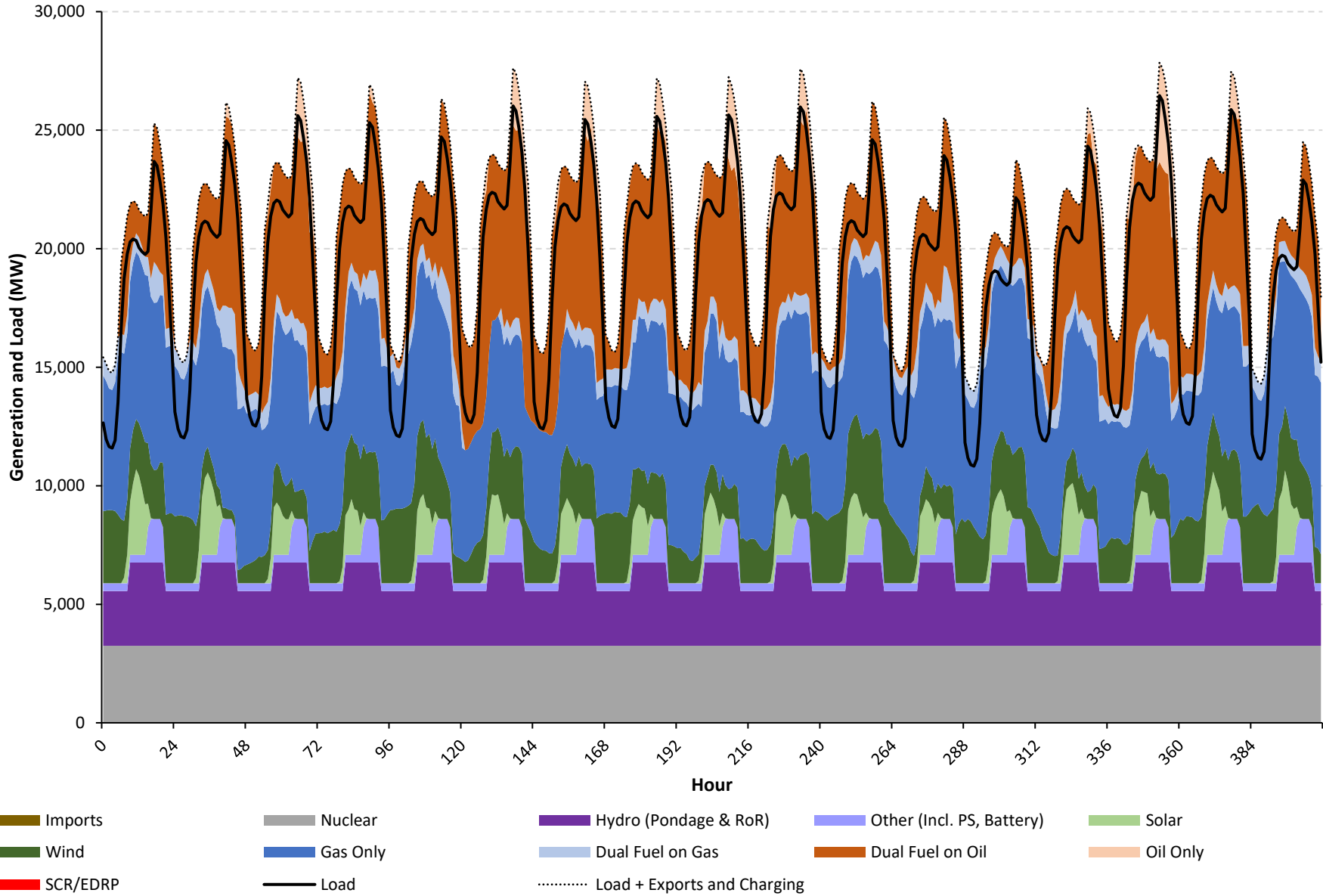
Full Period Results Summary

Case Name: Scenario 4 - PD 1 No Disruptions

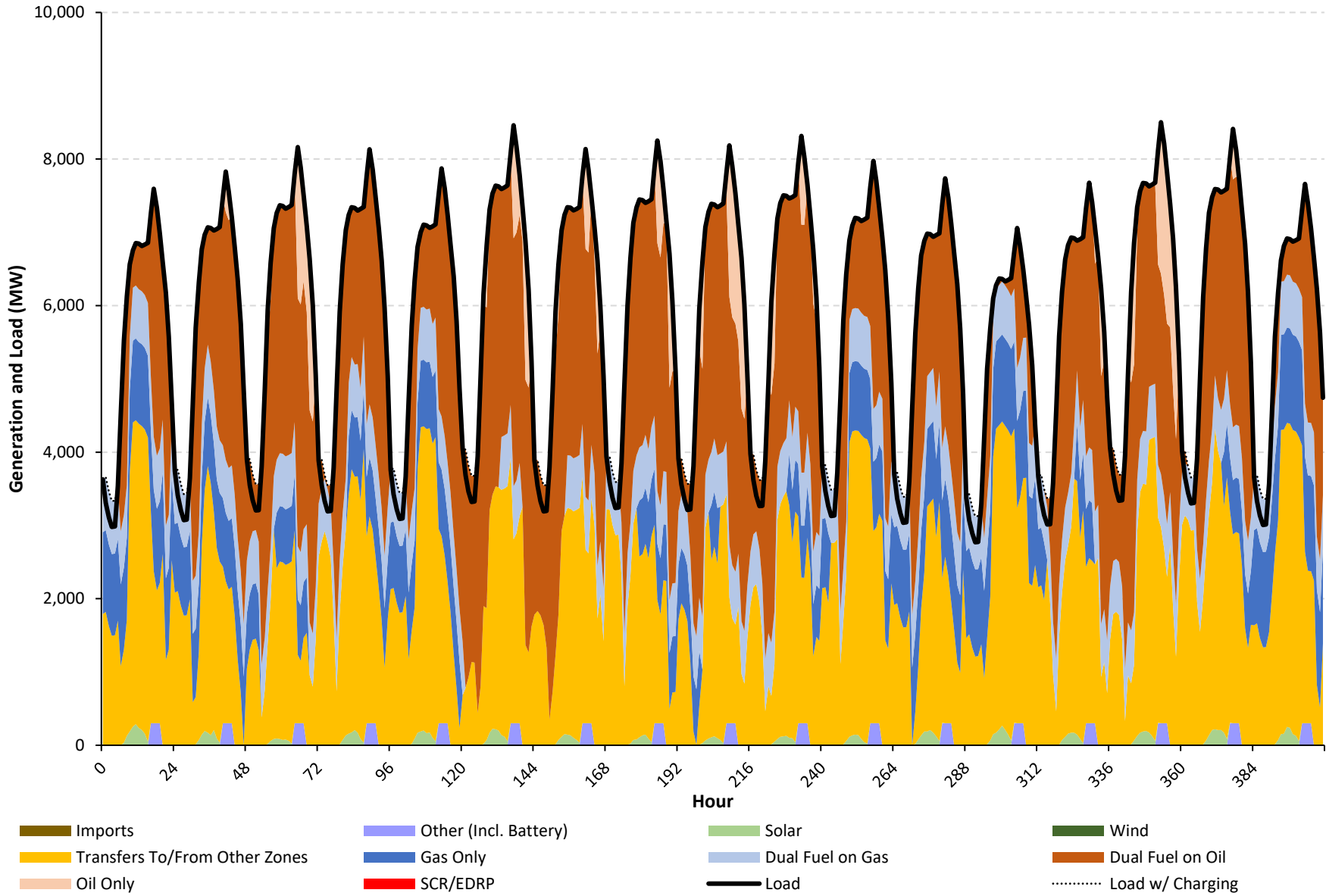
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



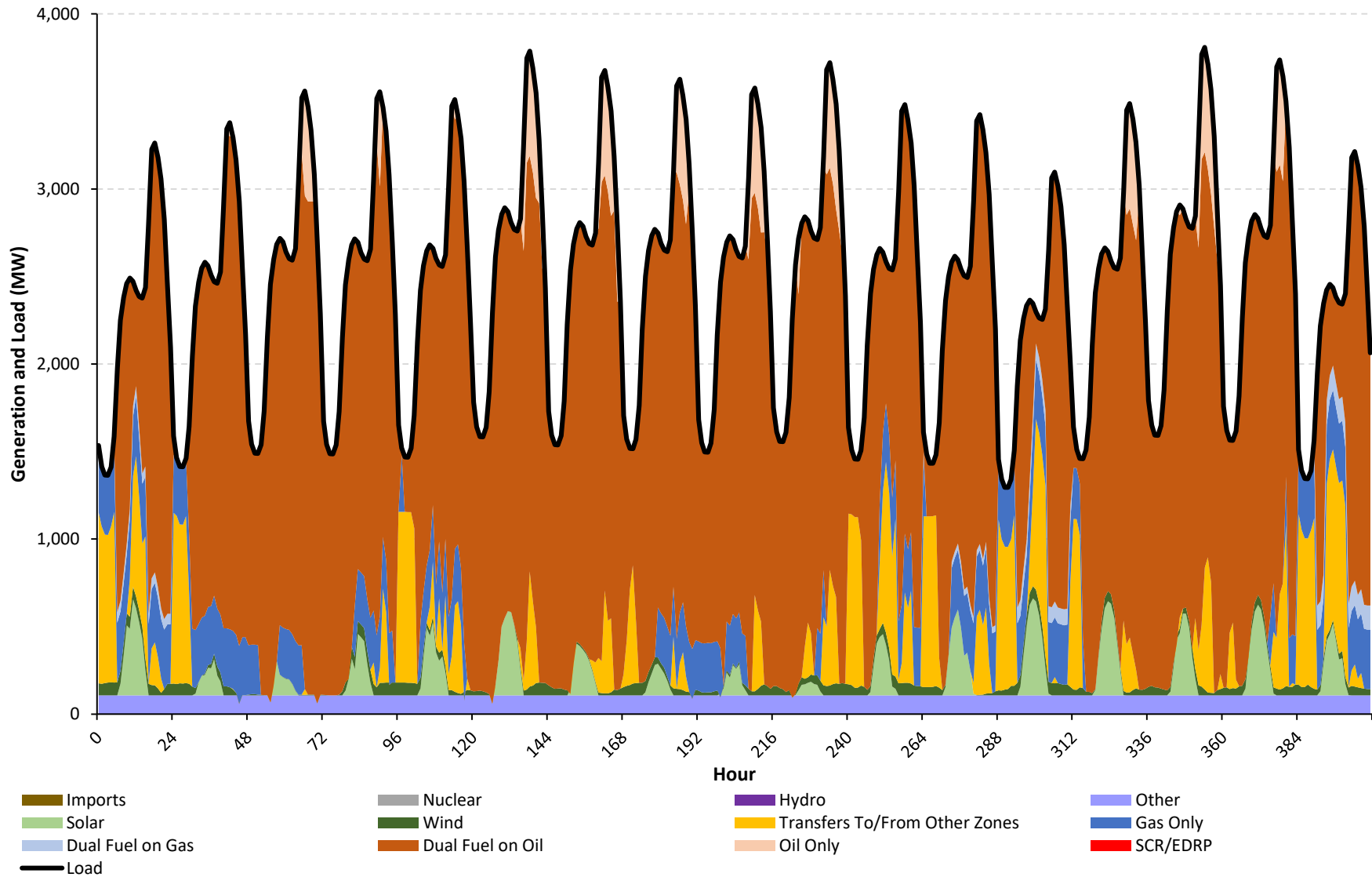
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 1 No Disruptions



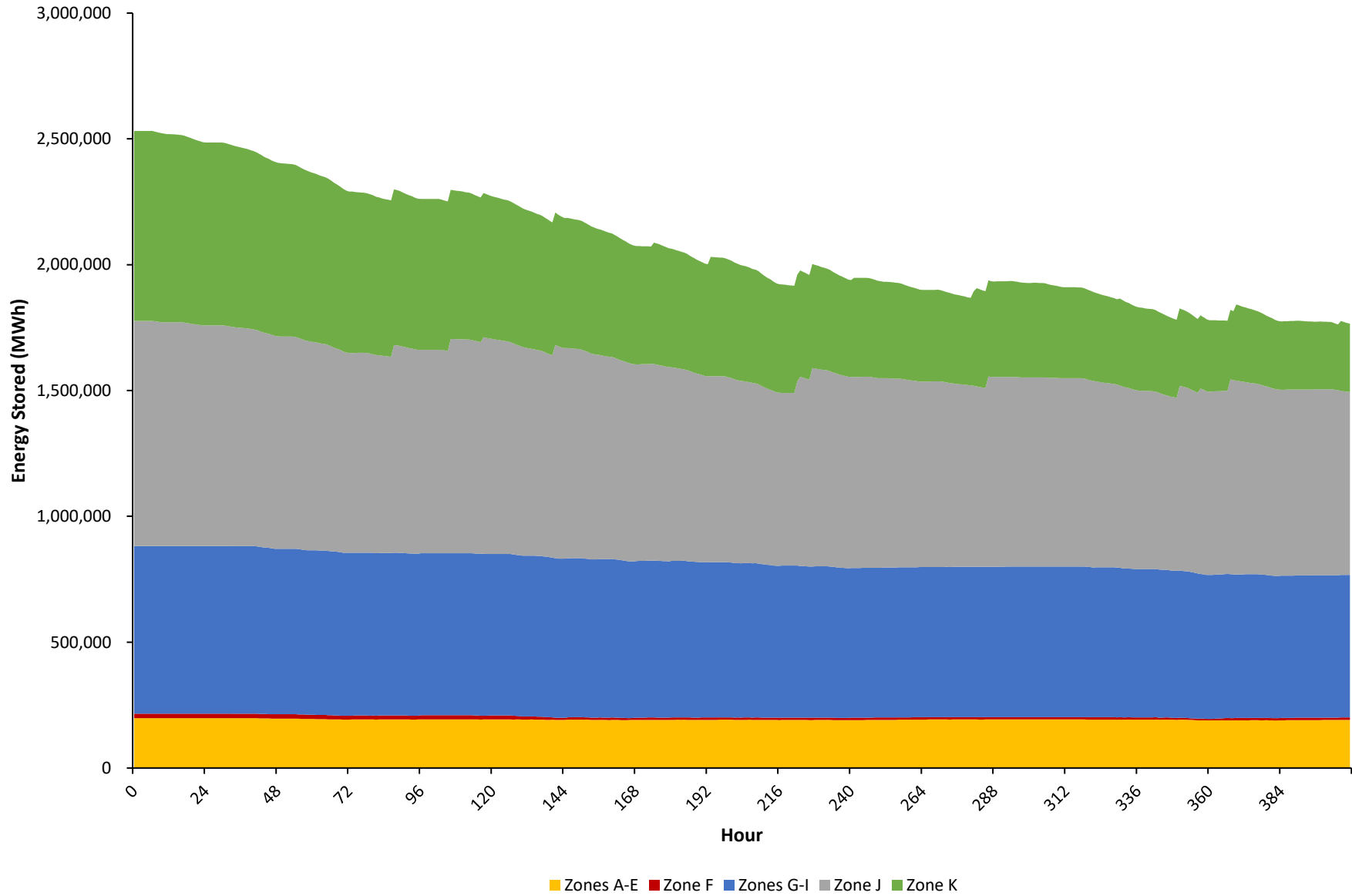
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 1 No Disruptions

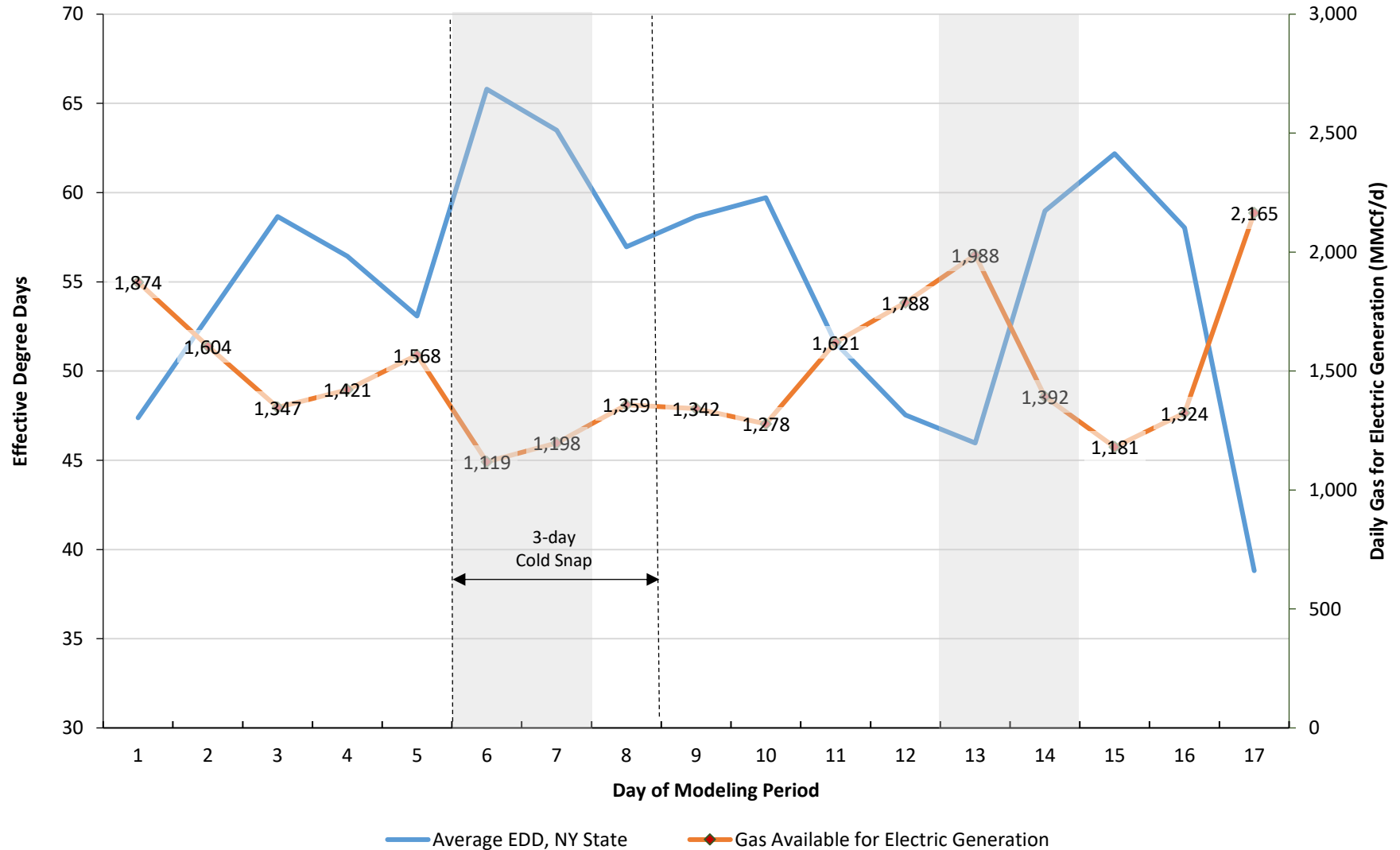


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

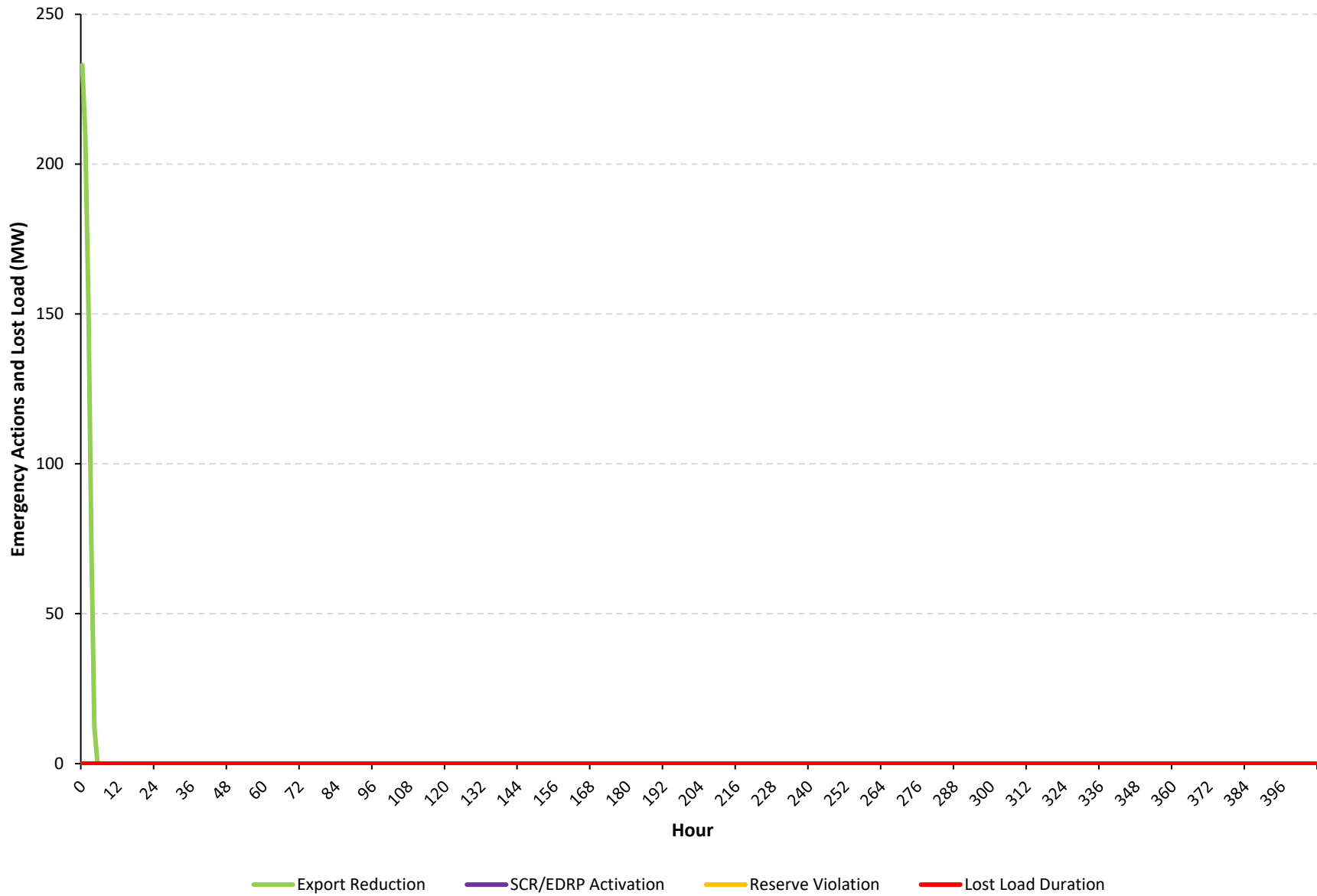
Scenario 4 - PD 1 No Disruptions



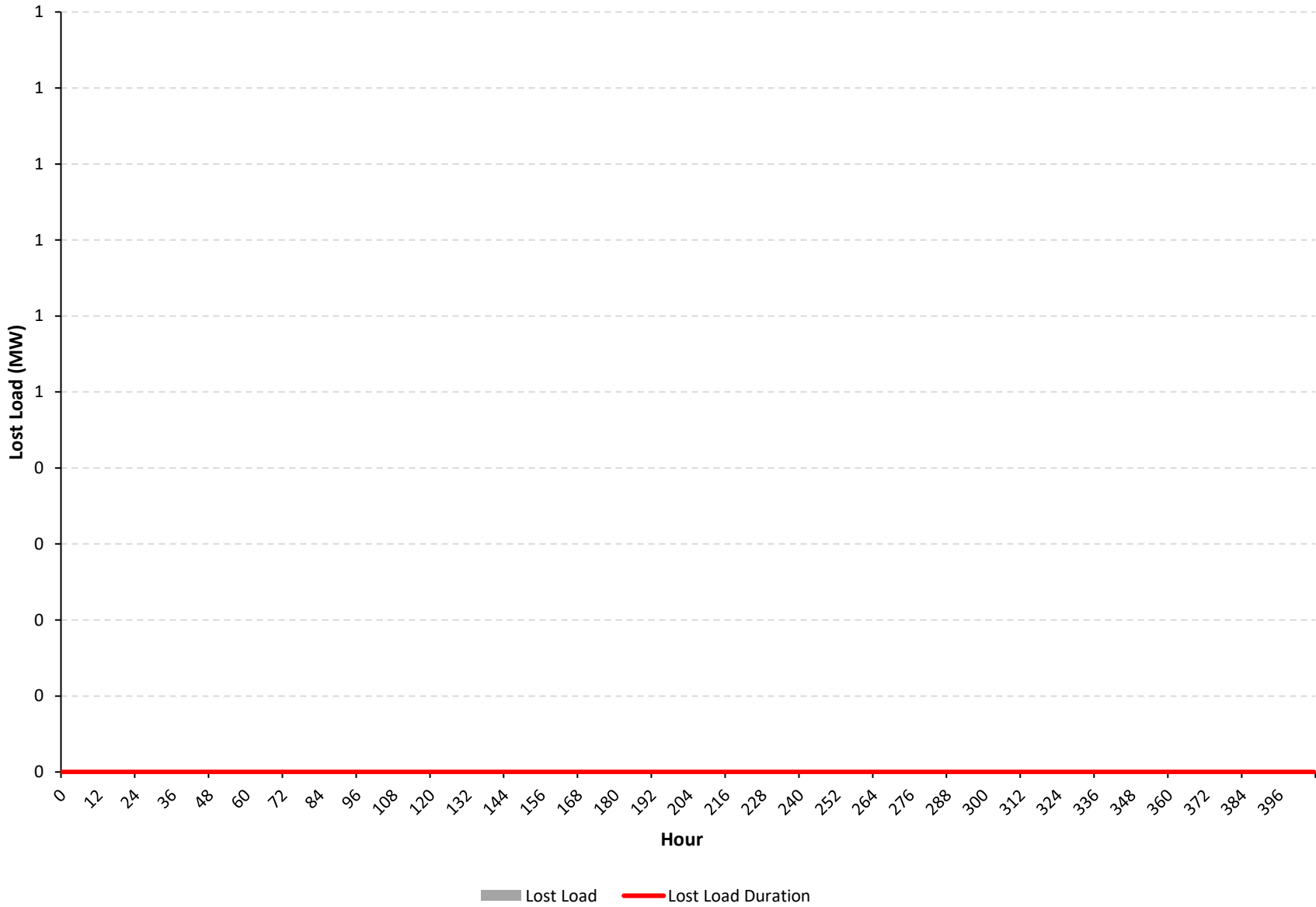
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 1 No Disruptions



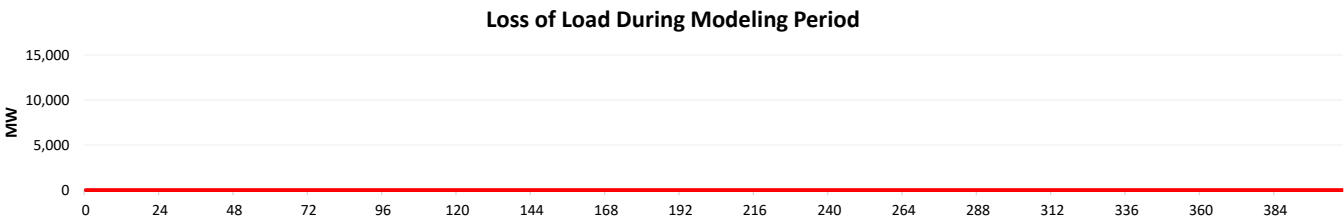
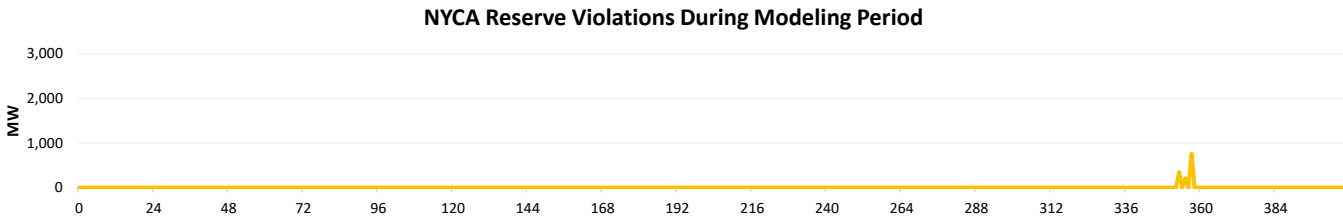
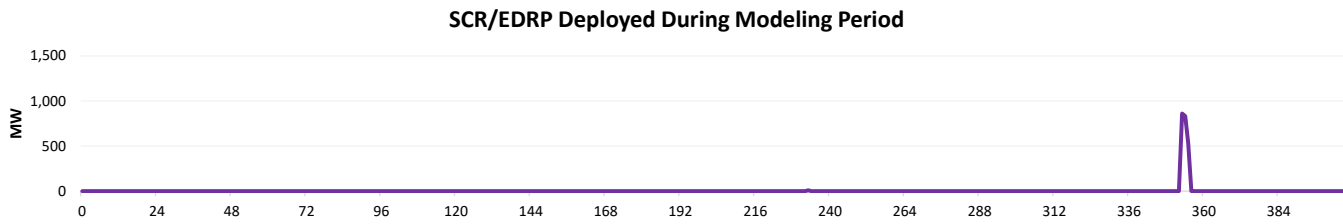
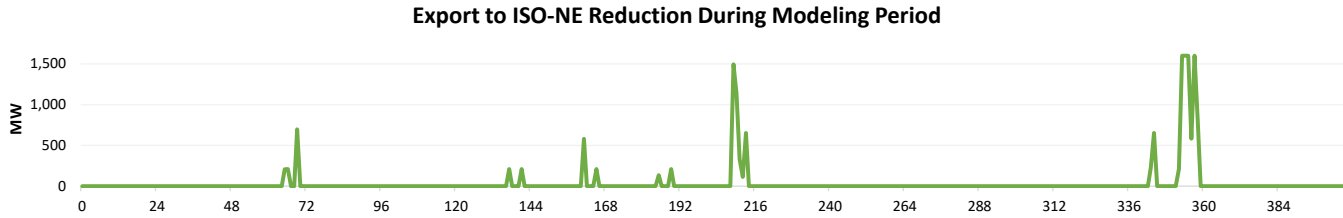
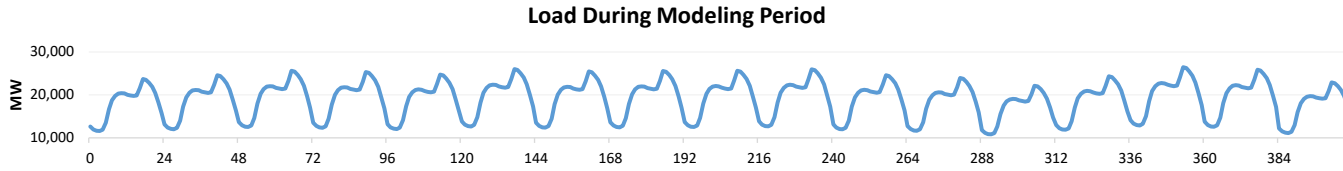
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 4 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	23
Total MWh	15,285
Avg. MW	37.5

SCR Deployment	
Total Hrs.	4
Total MWh	2,232
Avg. MW	5.5

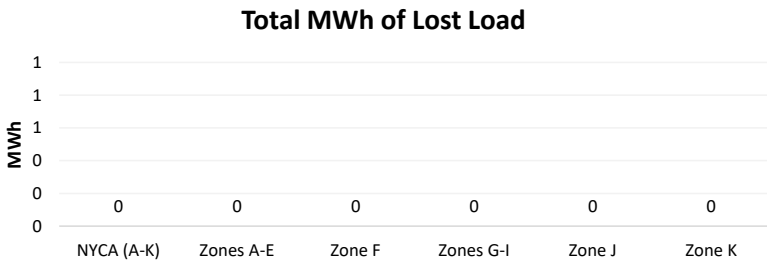
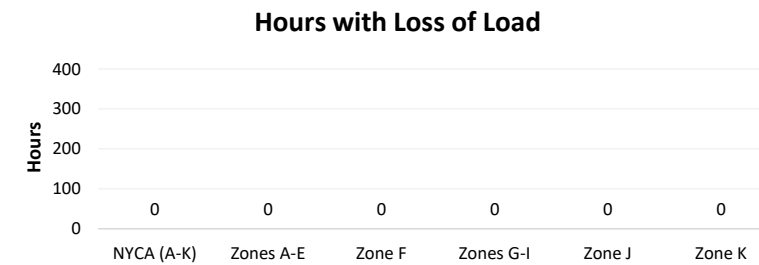
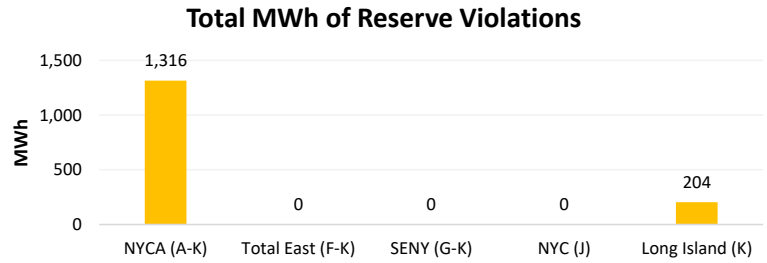
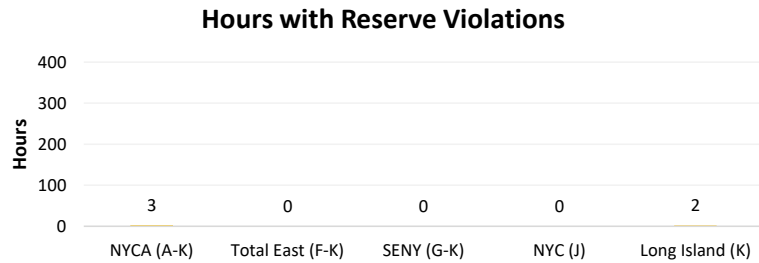
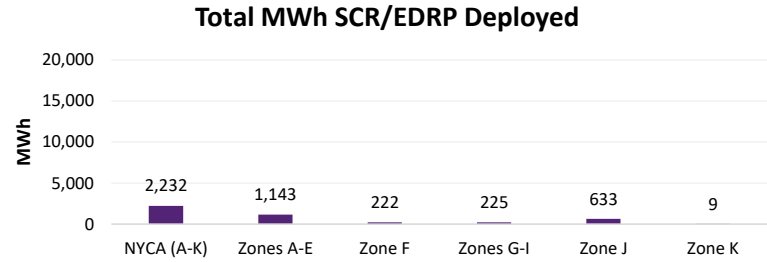
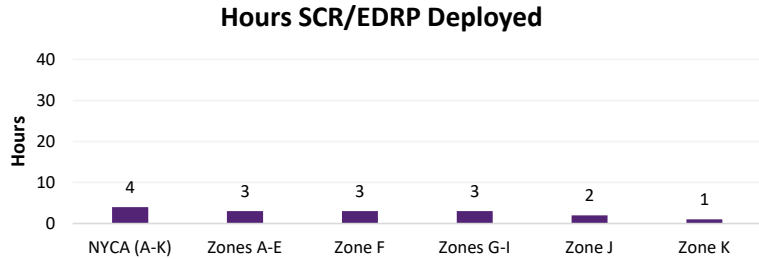
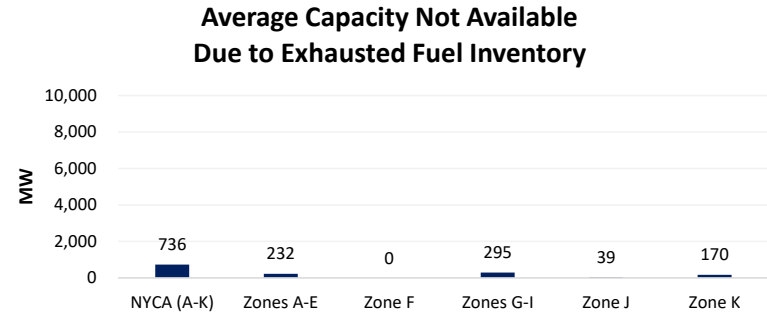
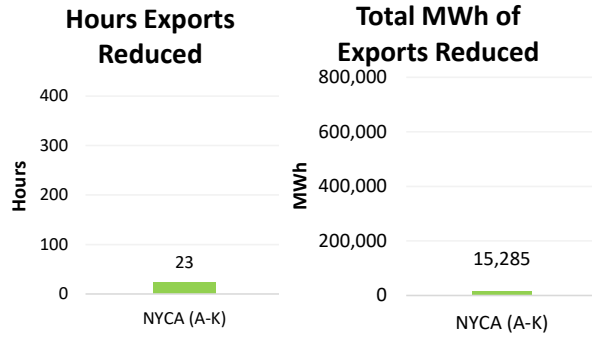
Reserve Violations	
Total Hrs.	3
Total MWh	1,316
Avg. MW	3.2
First Hour with Viol.	353
First Hour, Zone K	353

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

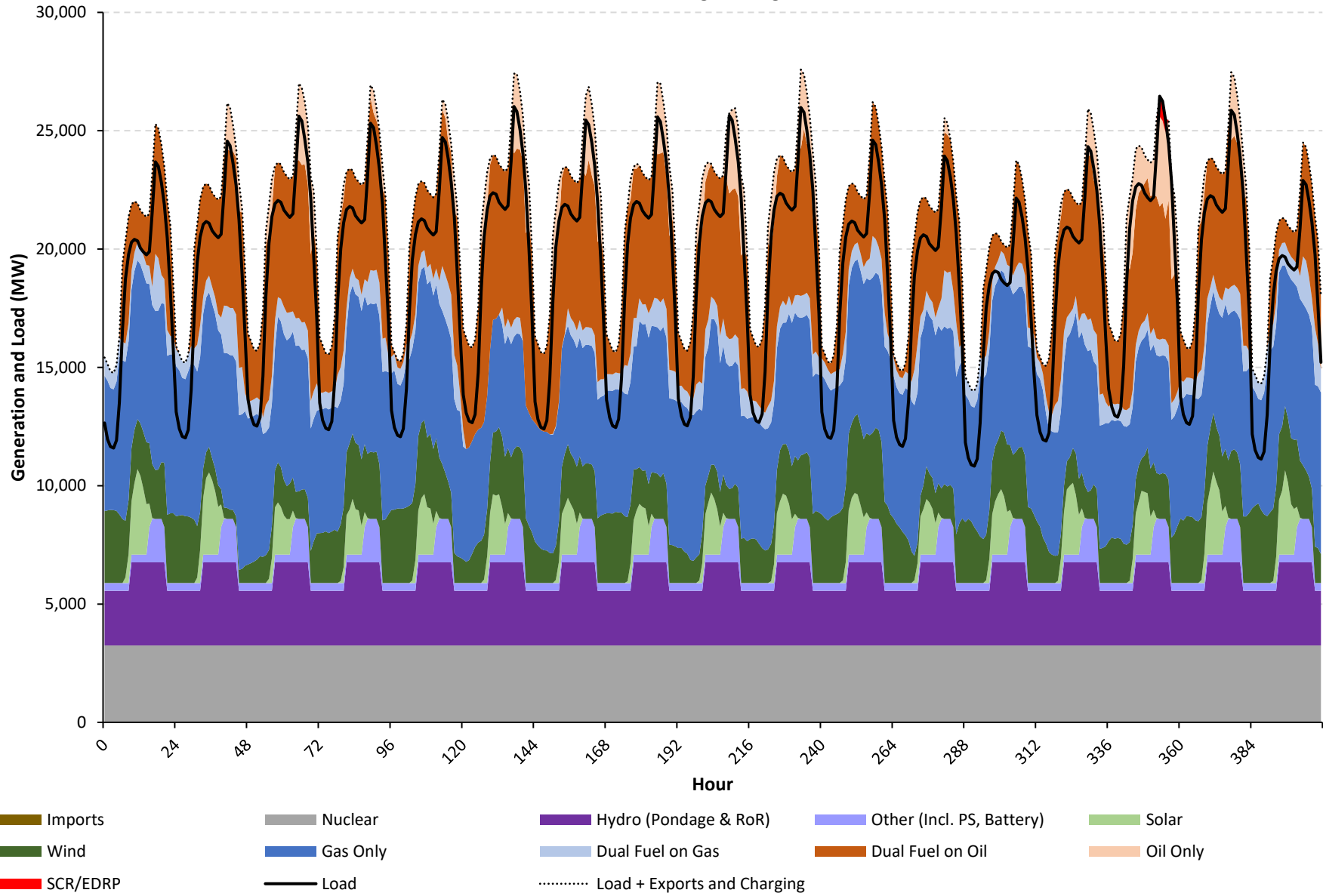
Full Period Results Summary

Case Name: Scenario 4 - PD 2 High Outage

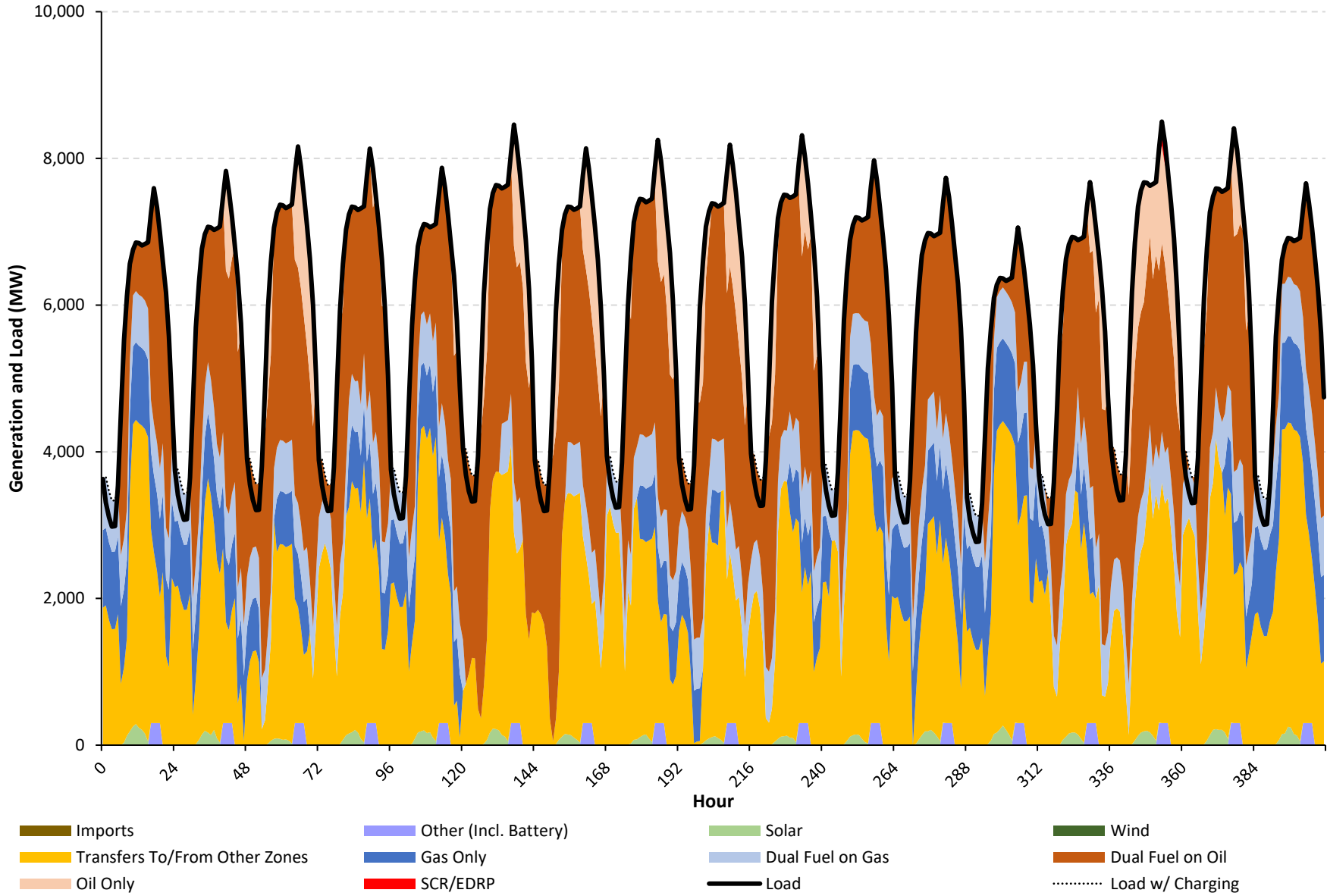
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



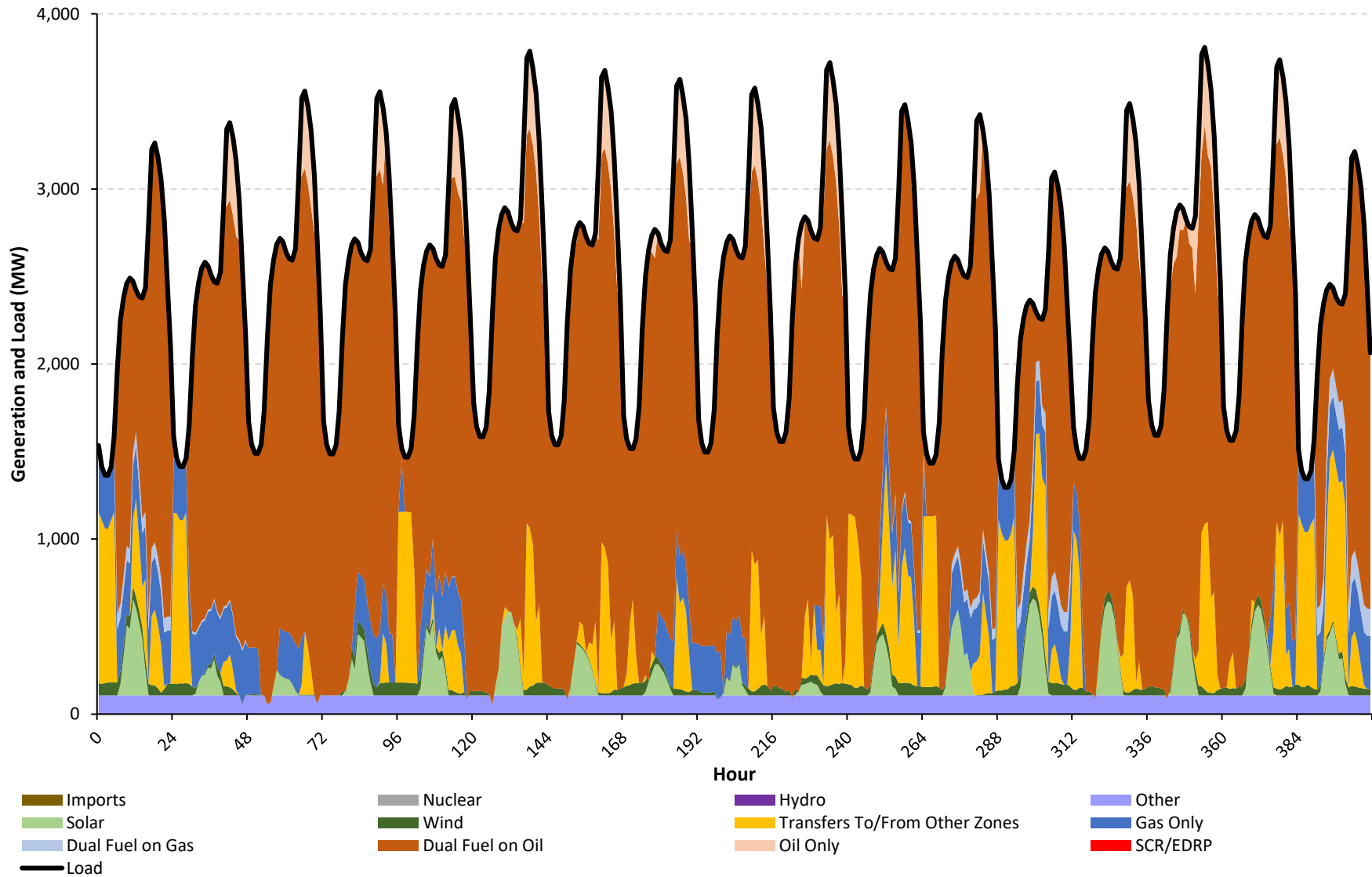
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 2 High Outage



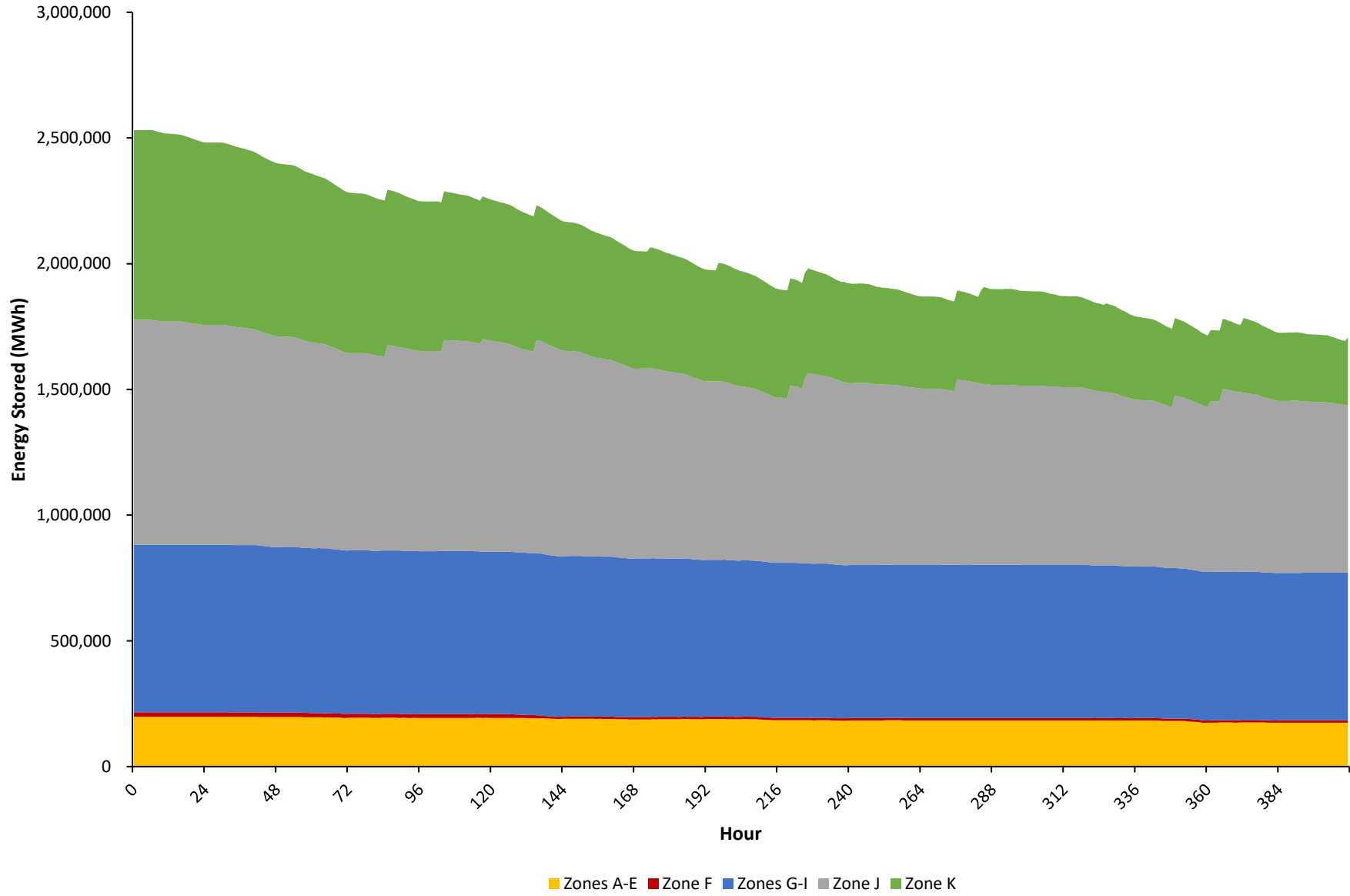
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 2 High Outage

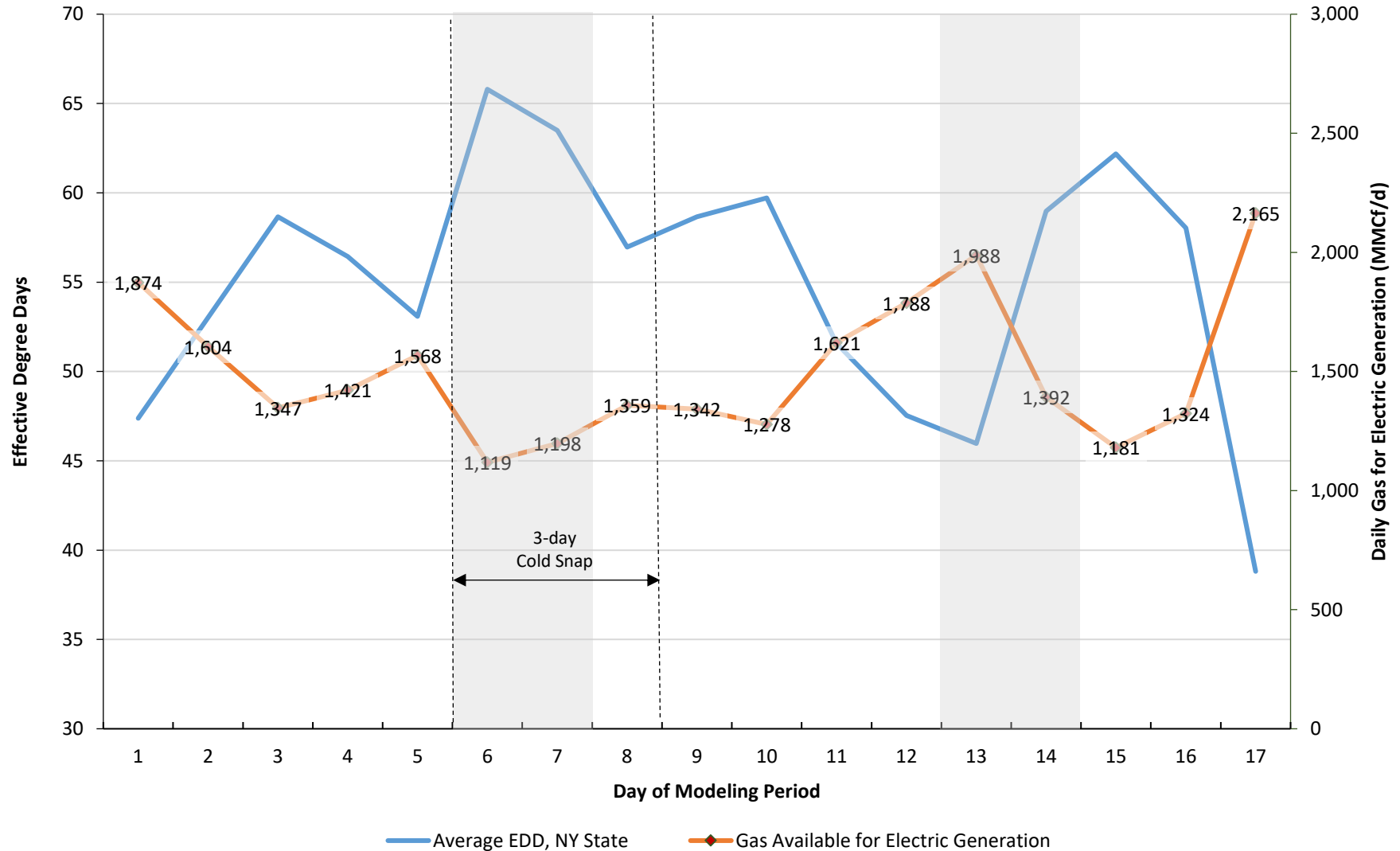


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

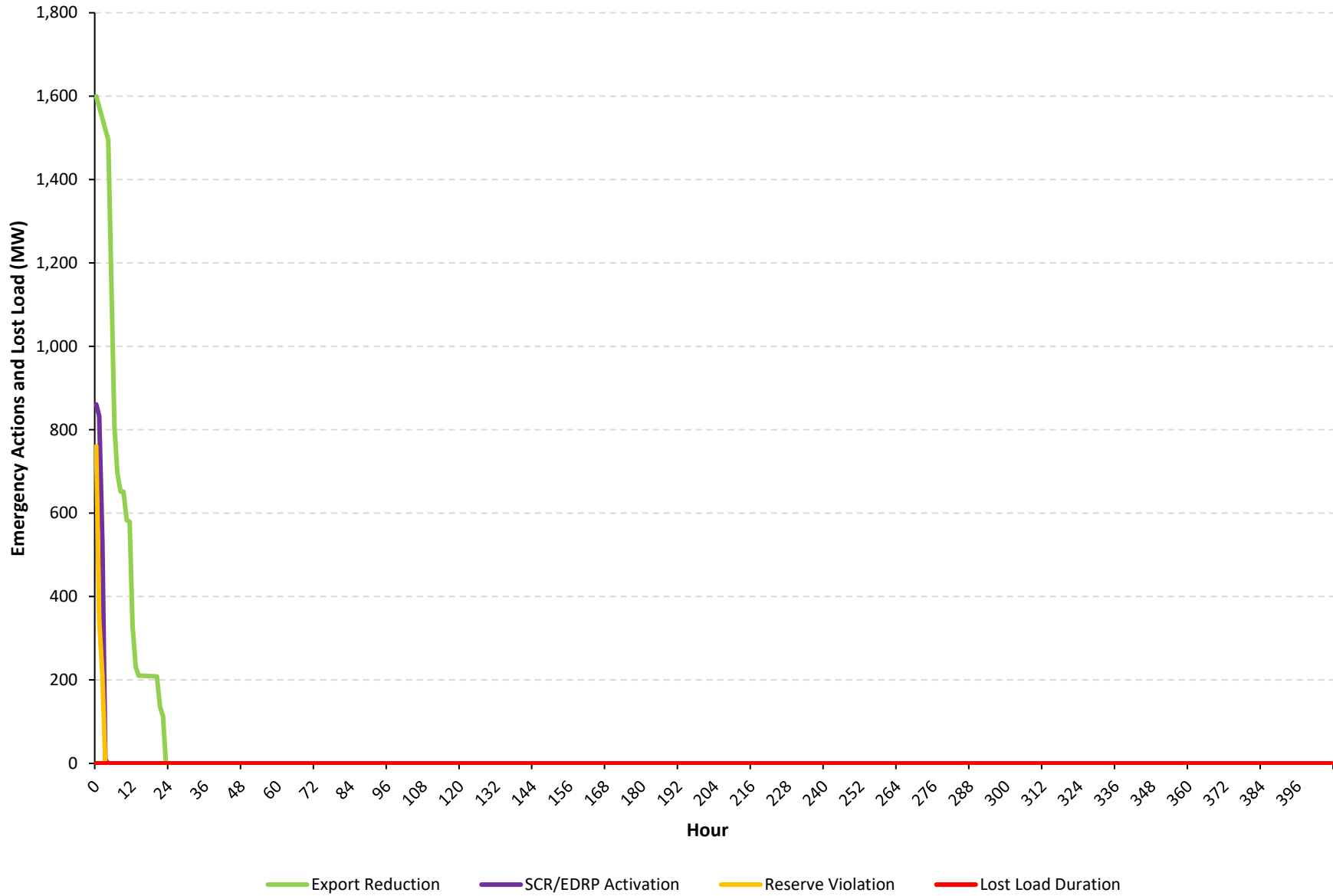
Scenario 4 - PD 2 High Outage



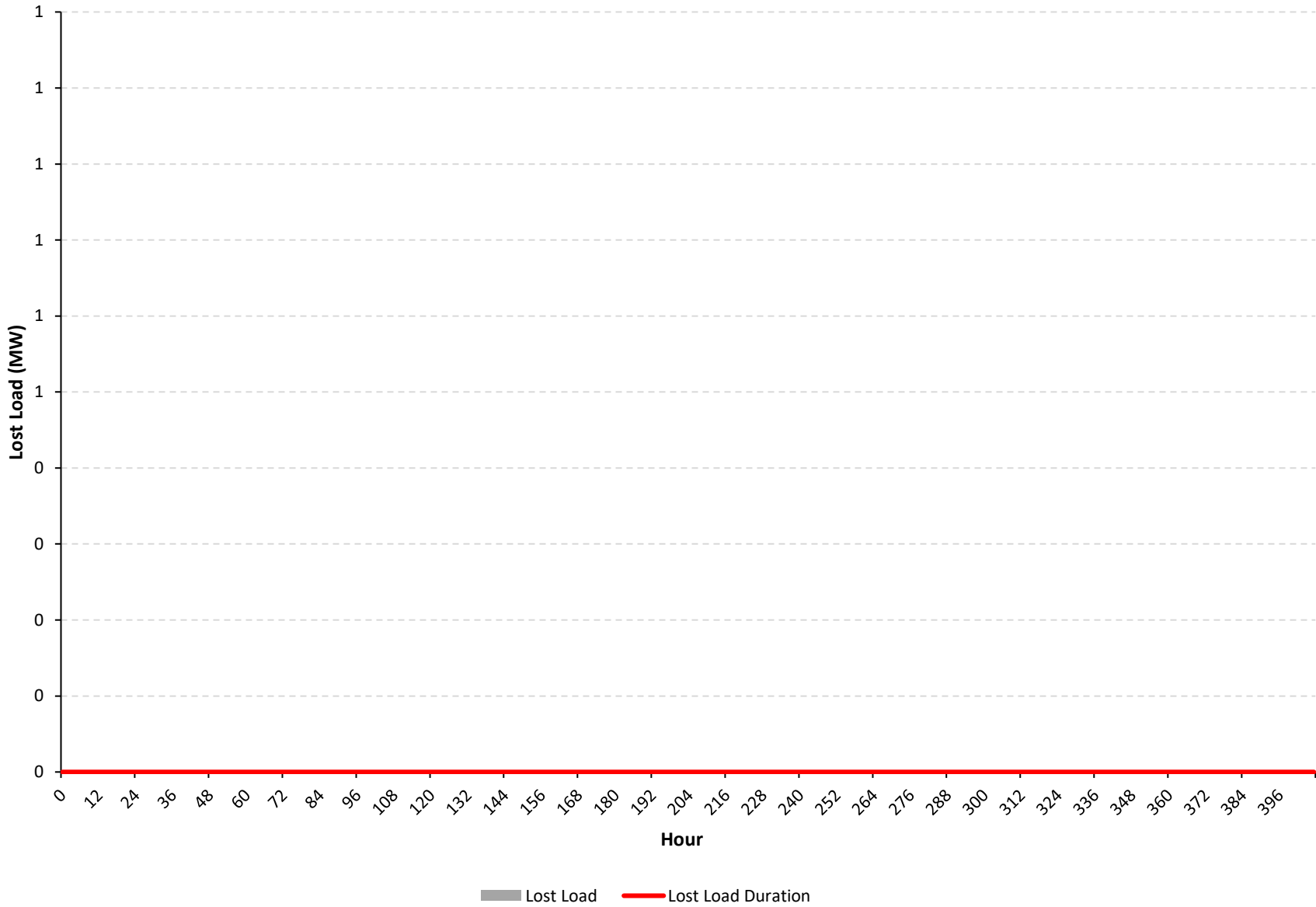
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 2 High Outage



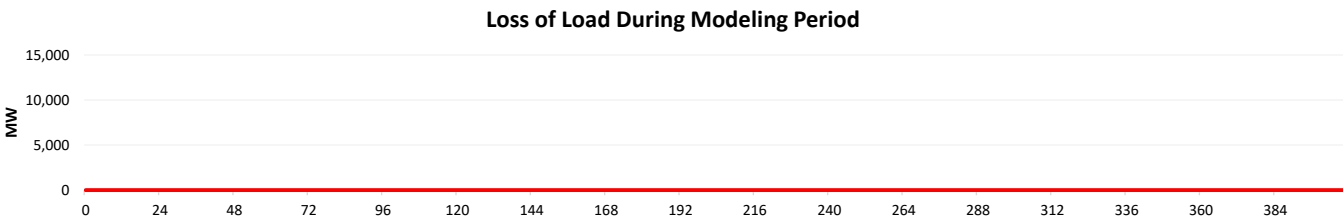
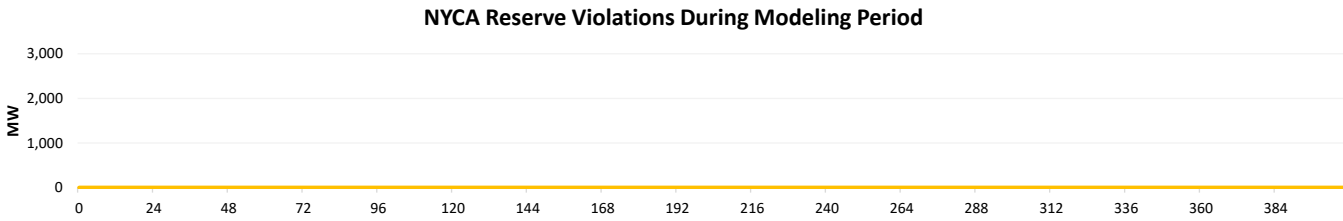
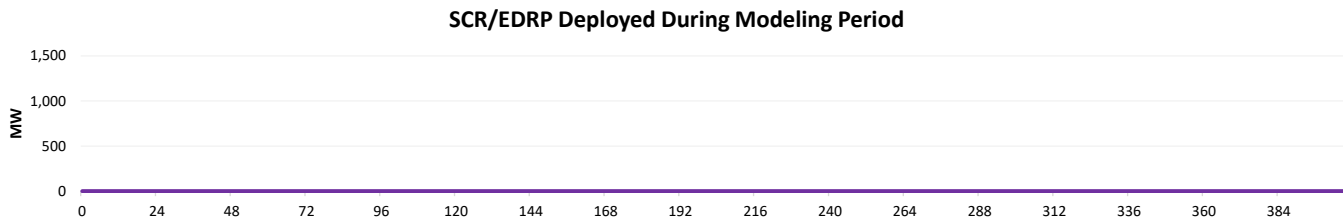
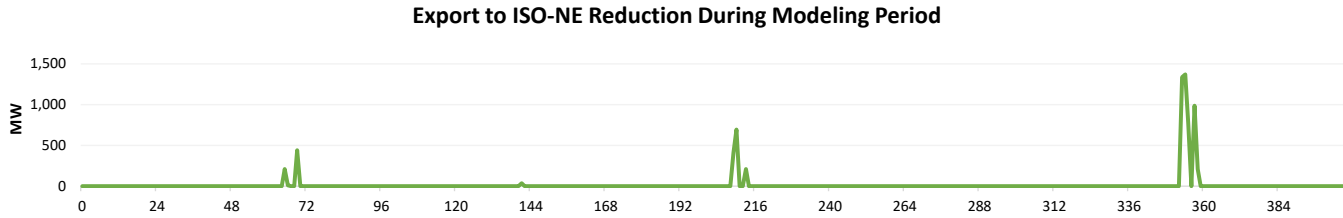
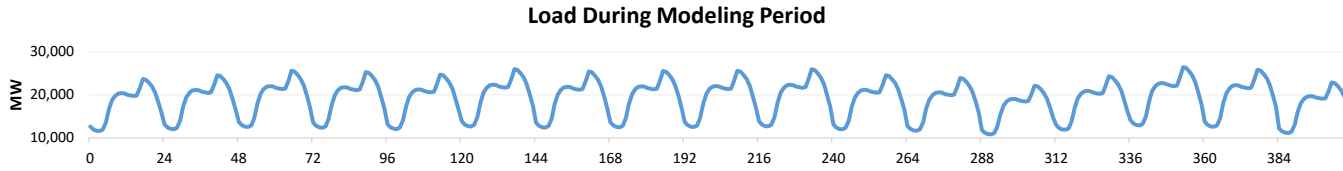
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 4 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	12
Total MWh	6,688
Avg. MW	16.4

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

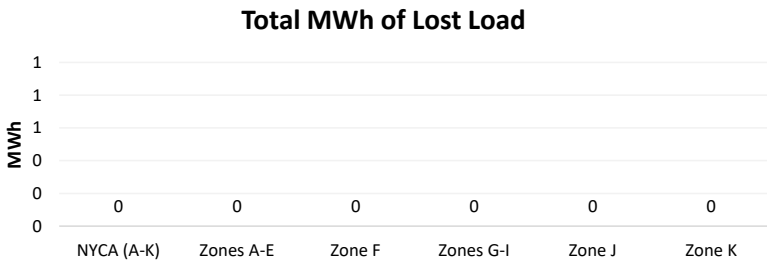
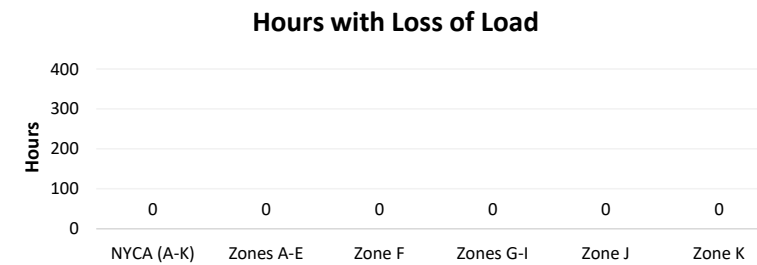
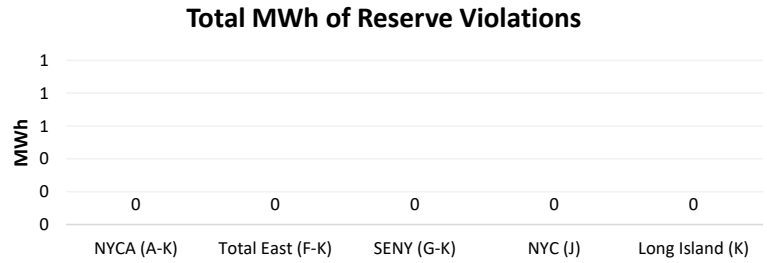
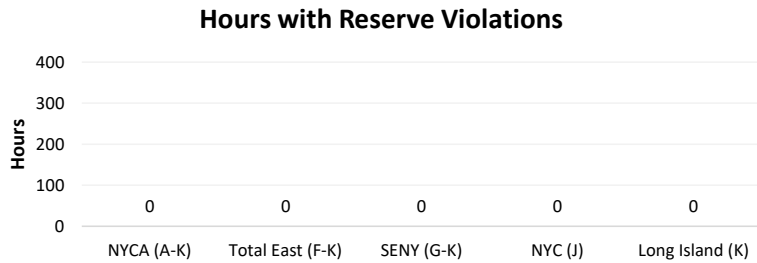
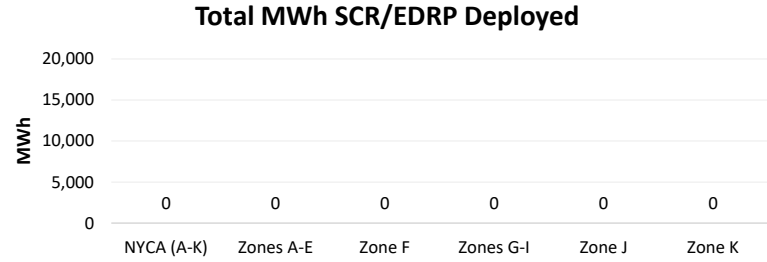
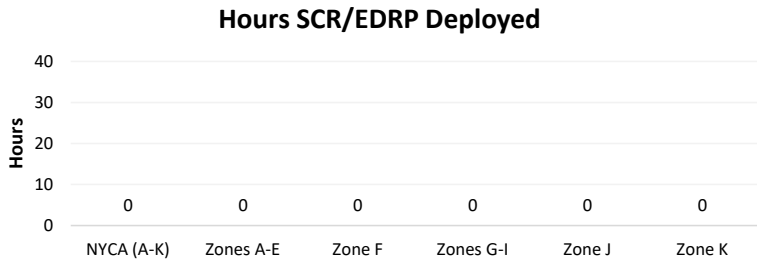
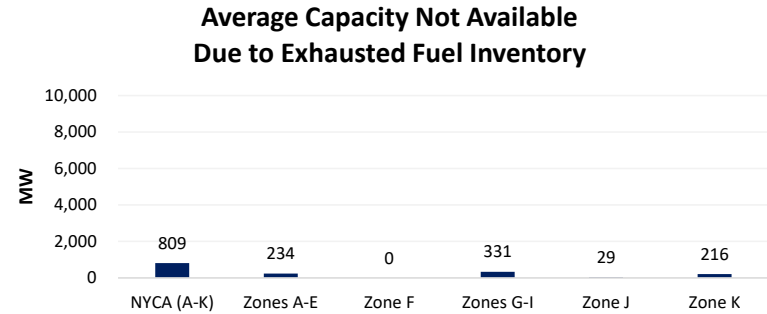
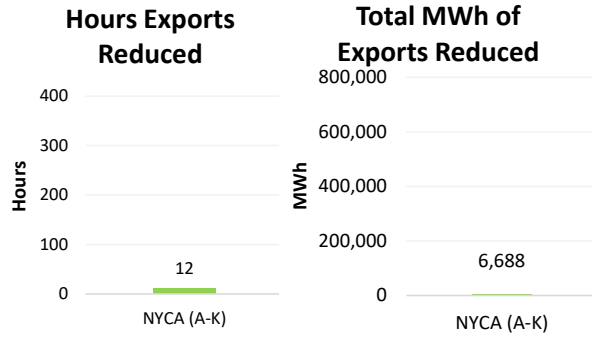
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

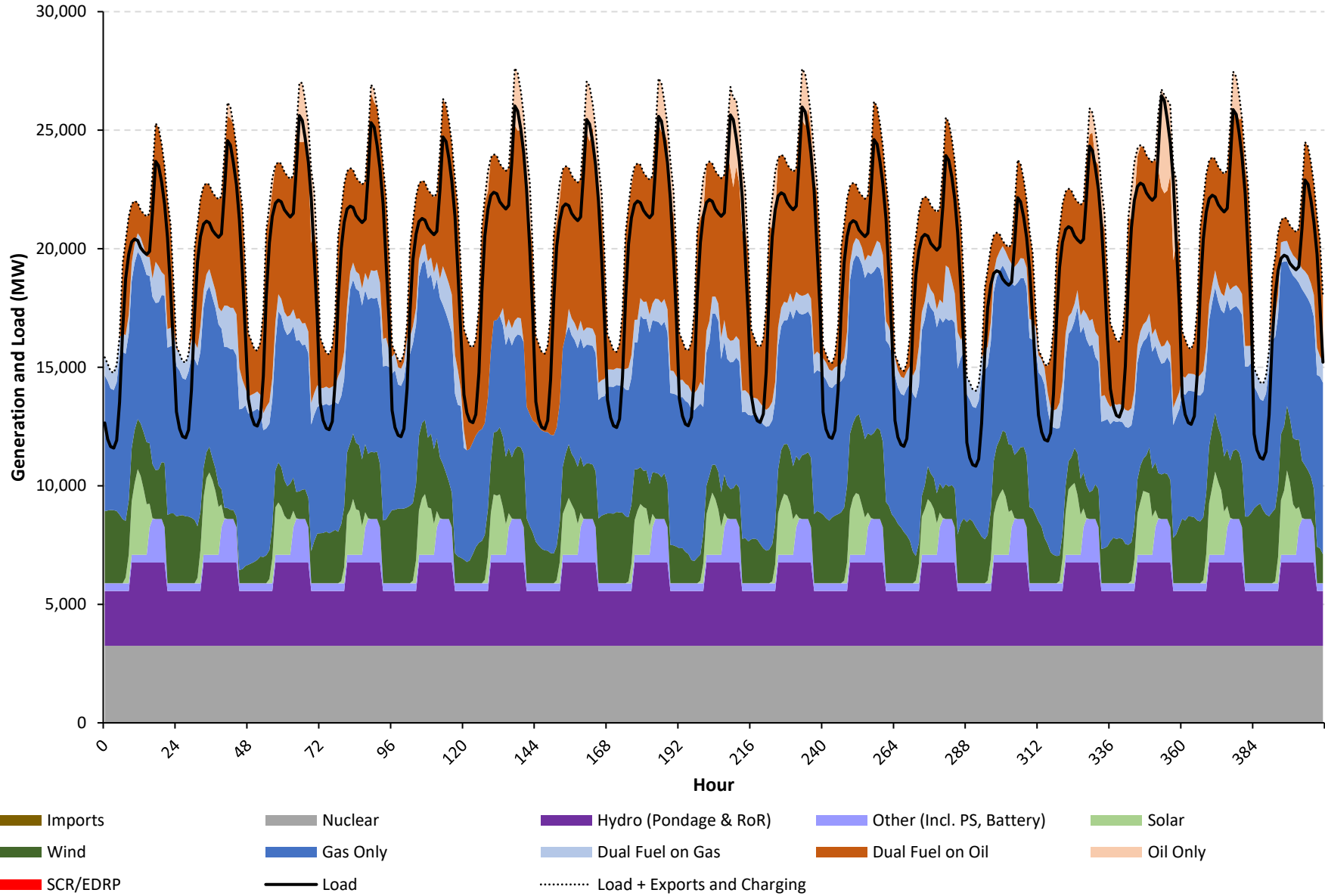
Full Period Results Summary

Case Name: Scenario 4 - PD 3 SENY Deactivation

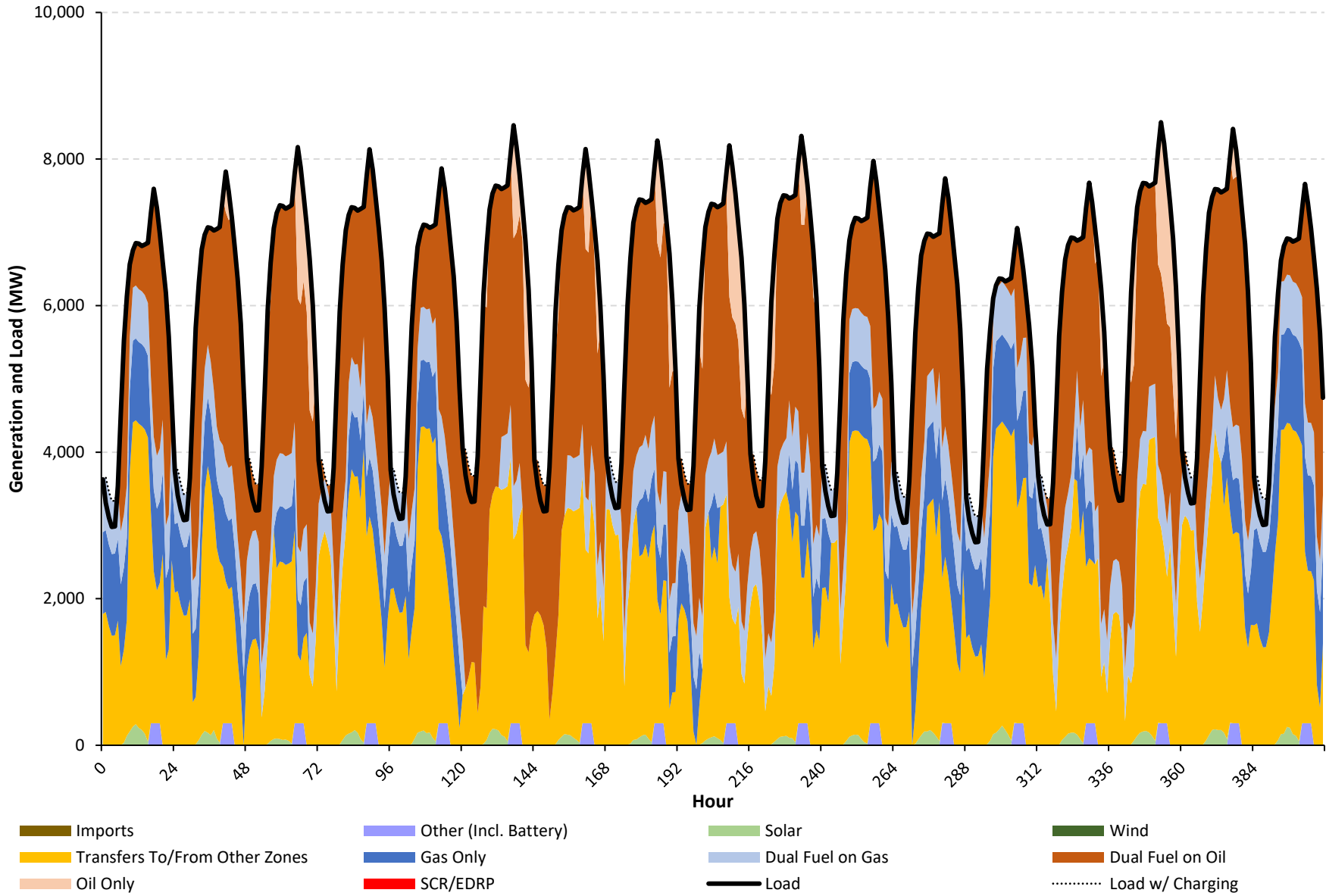
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



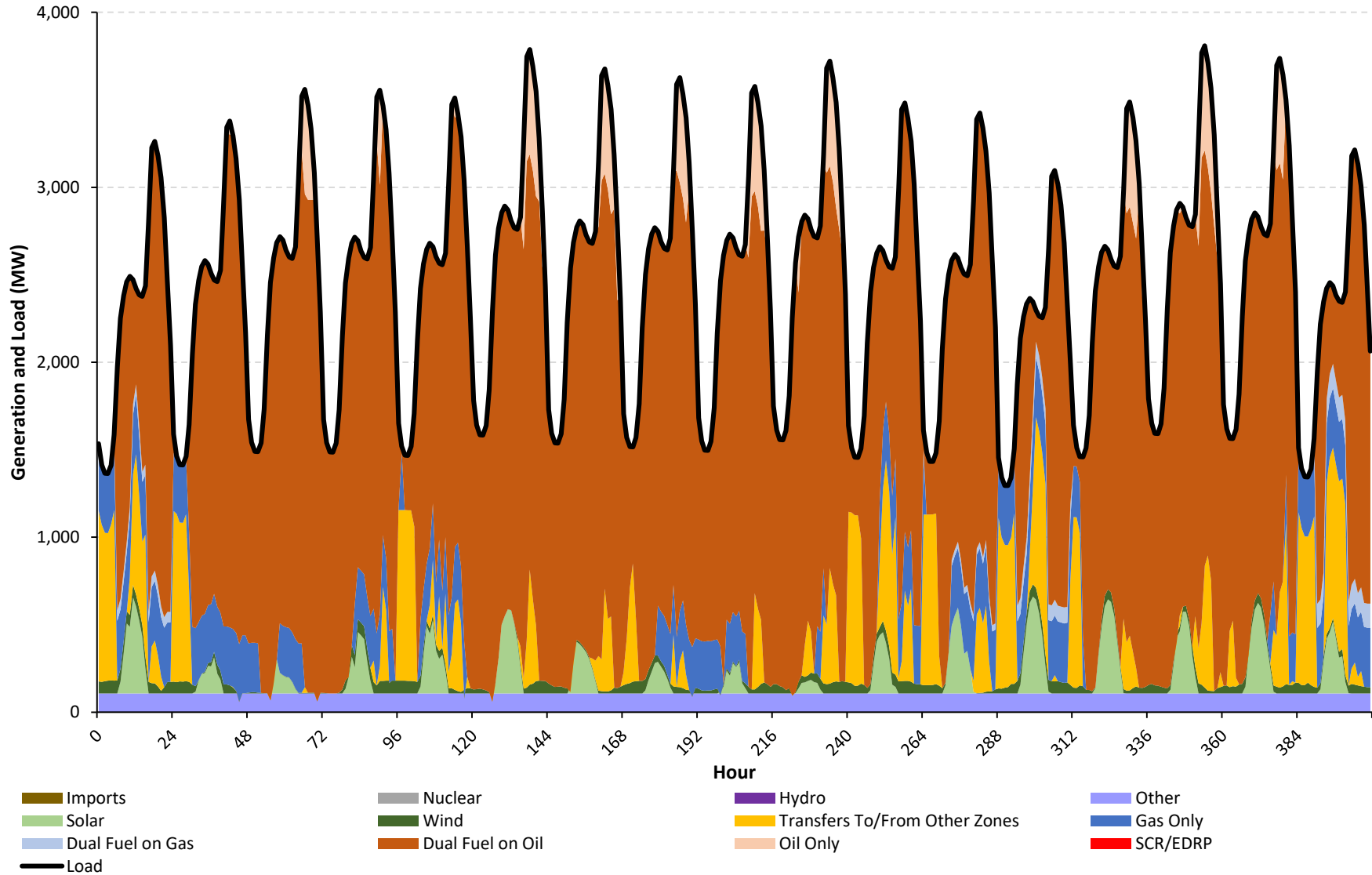
NYCA
Hourly Generation (MWh) by Fuel Group
 Scenario 4 - PD 3 SENY Deactivation



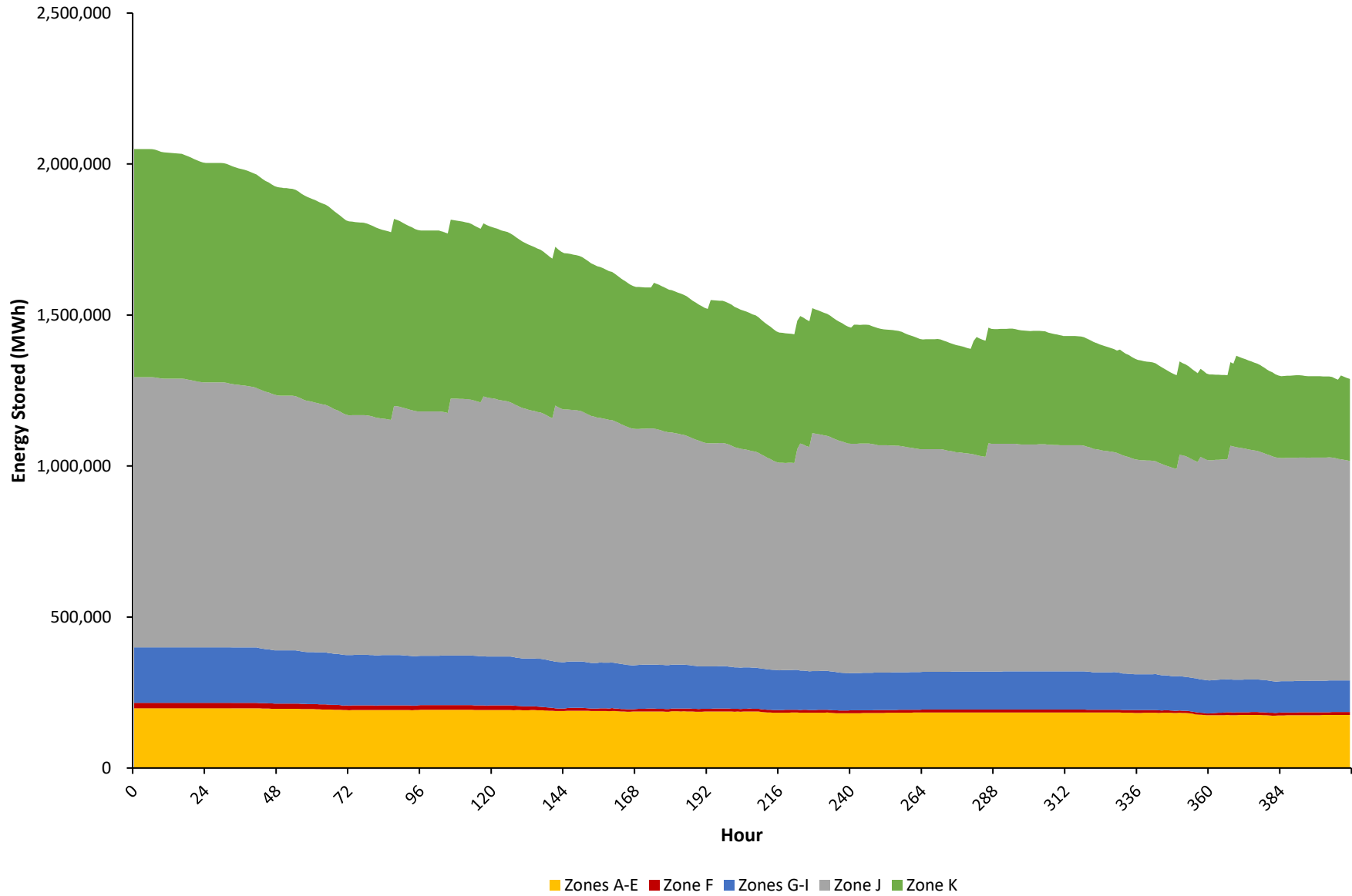
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 3 SENY Deactivation

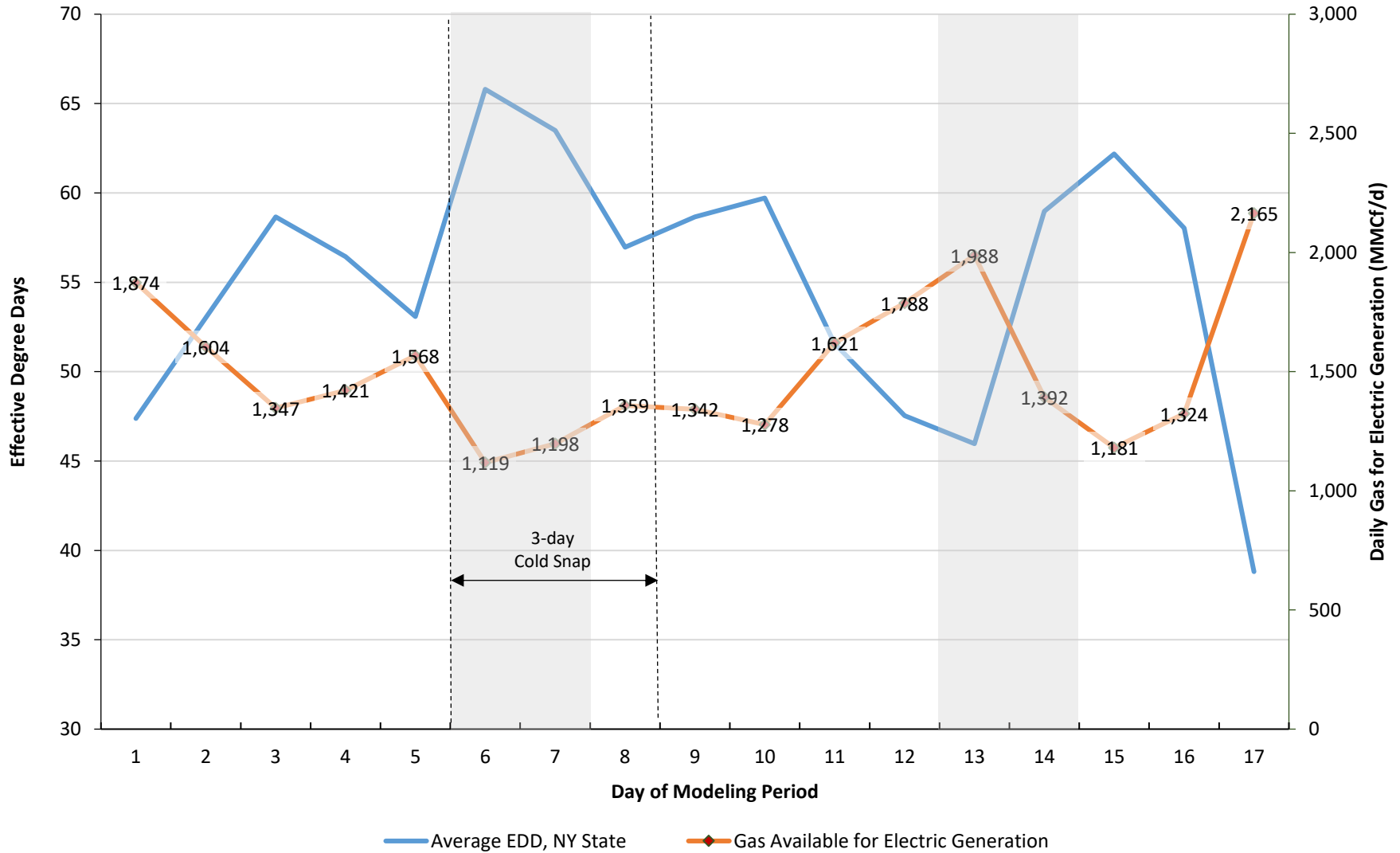


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

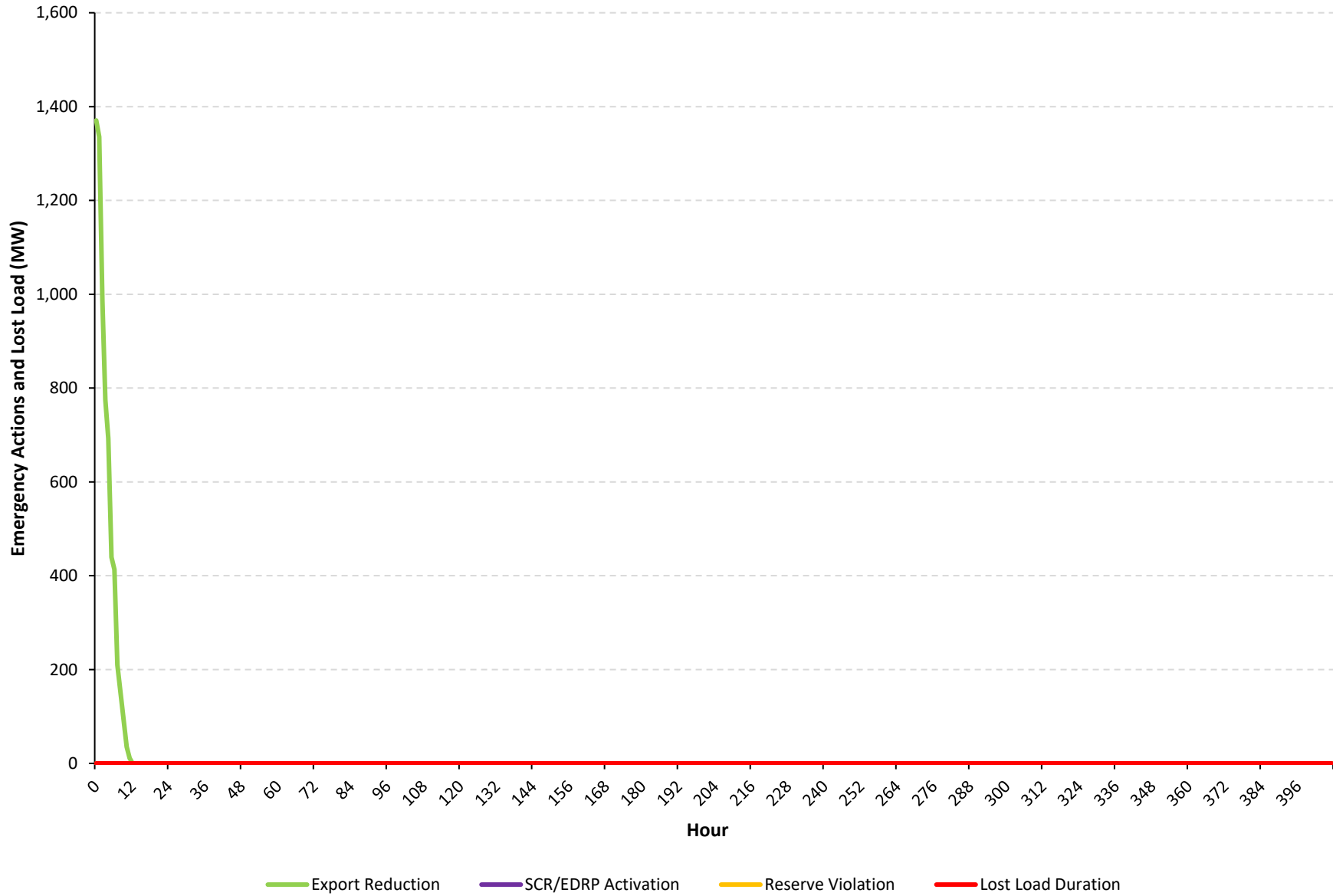
Scenario 4 - PD 3 SENY Deactivation

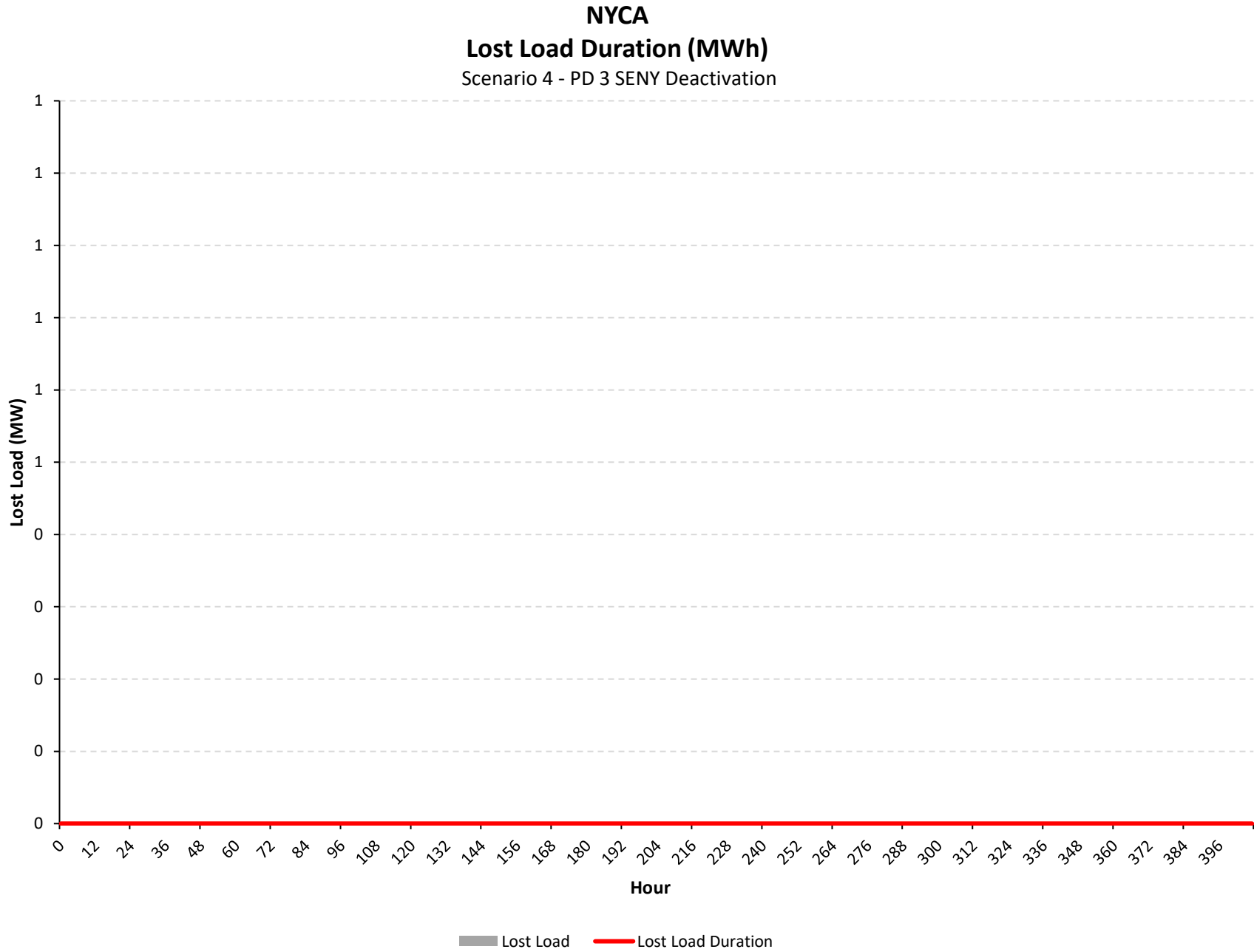


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 3 SENY Deactivation



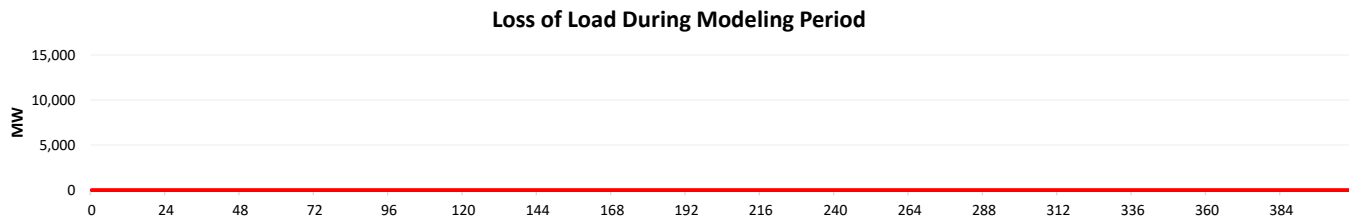
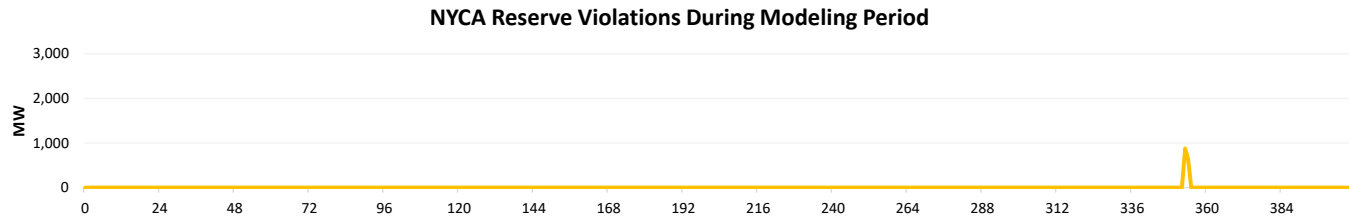
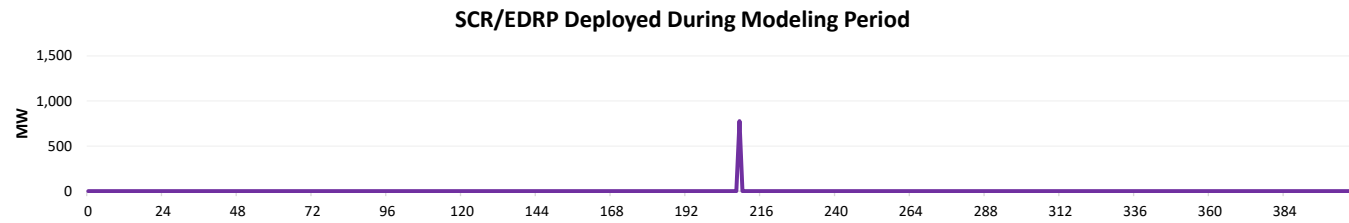
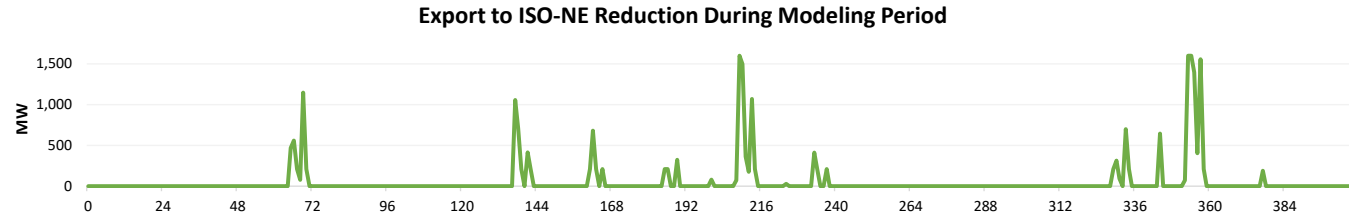
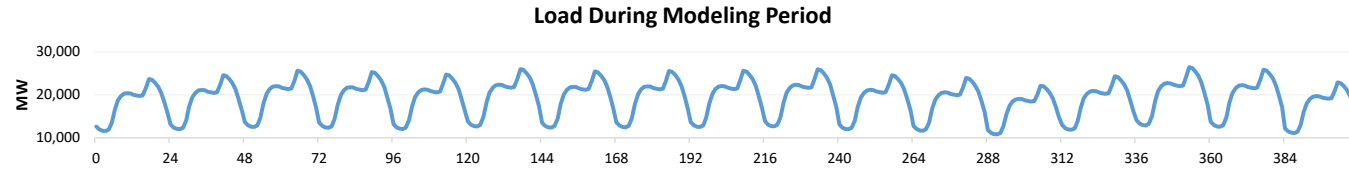


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 4 - PD 4 Nuclear Outage



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	44
Total MWh	22,451
Avg. MW	55.0

SCR Deployment	
Total Hrs.	1
Total MWh	777
Avg. MW	1.9

Reserve Violations	
Total Hrs.	2
Total MWh	1,520
Avg. MW	3.7
First Hour with Viol.	353
First Hour, Zone K	

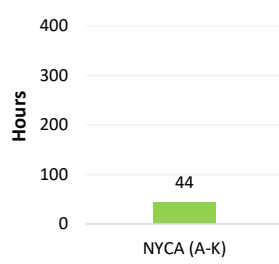
Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

Full Period Results Summary

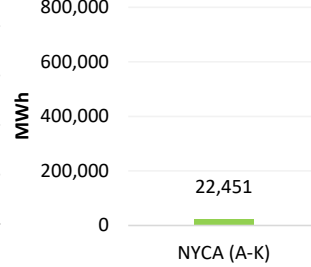
Case Name: Scenario 4 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

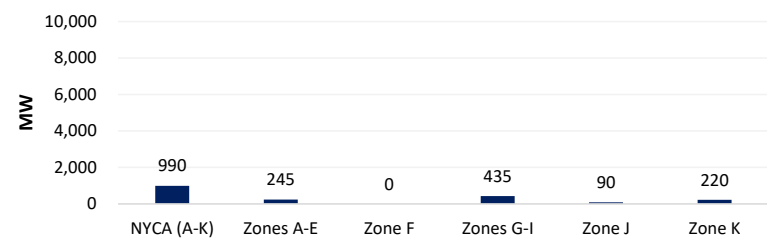
Hours Exports Reduced



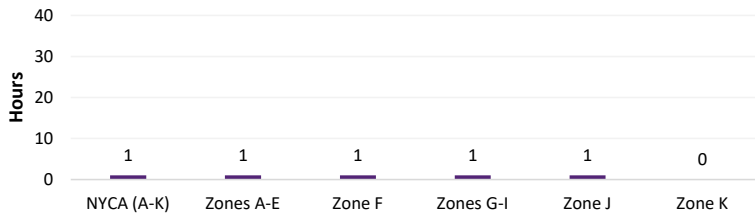
Total MWh of Exports Reduced



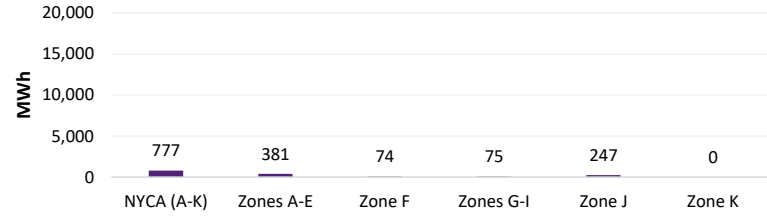
Average Capacity Not Available Due to Exhausted Fuel Inventory



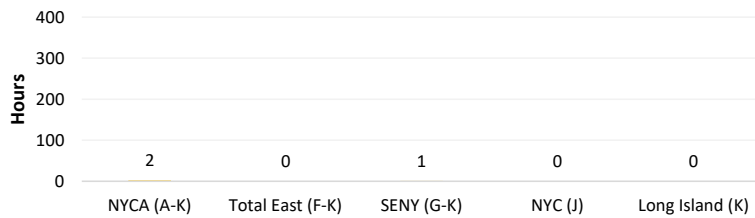
Hours SCR/EDRP Deployed



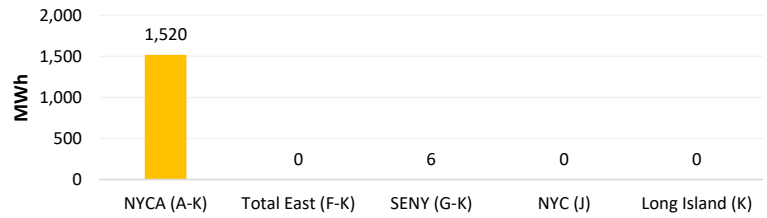
Total MWh SCR/EDRP Deployed



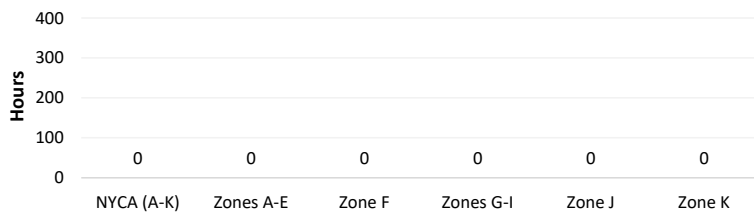
Hours with Reserve Violations



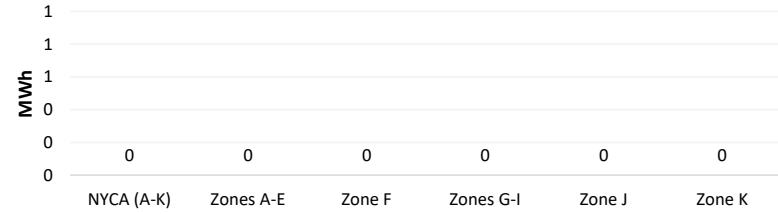
Total MWh of Reserve Violations



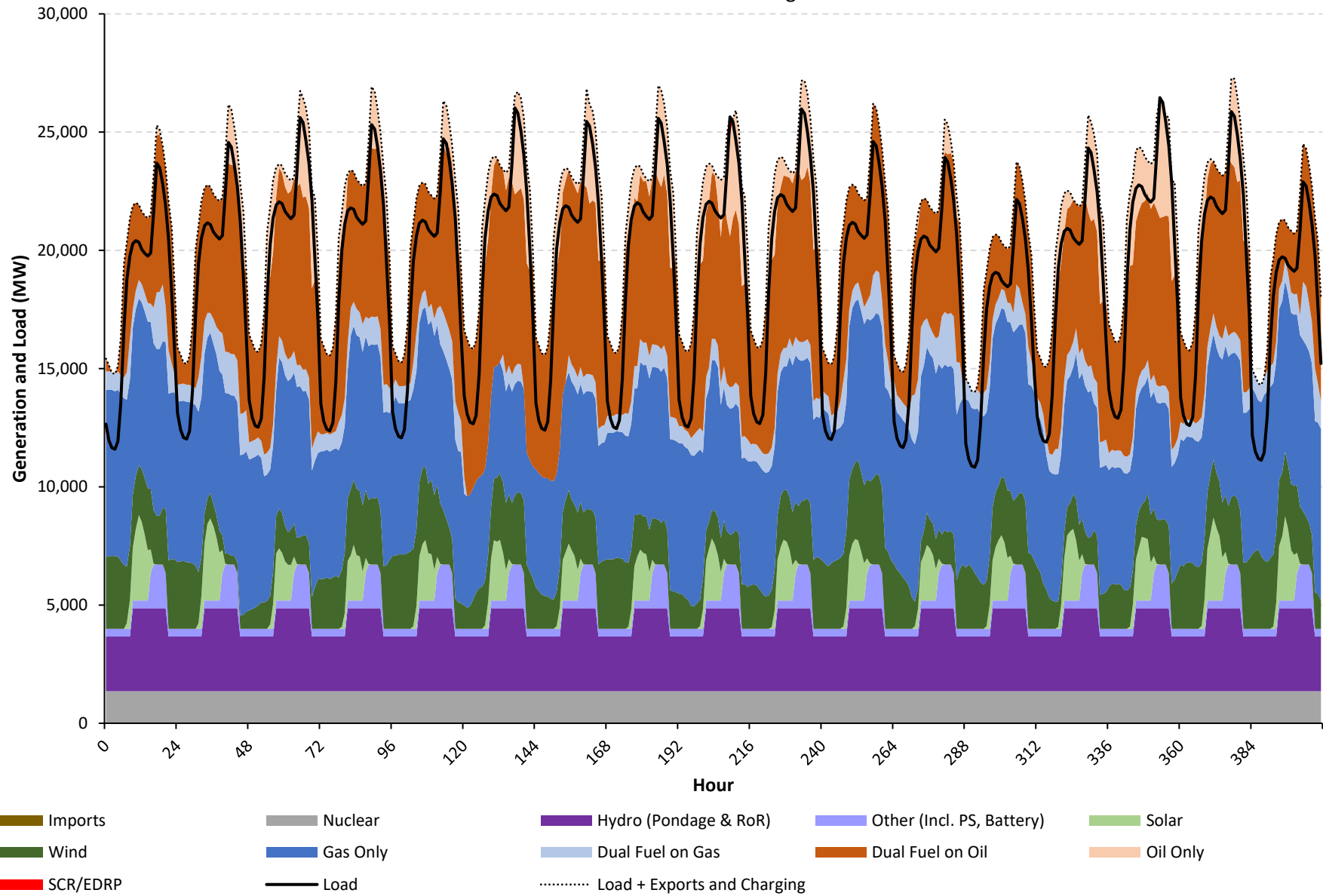
Hours with Loss of Load



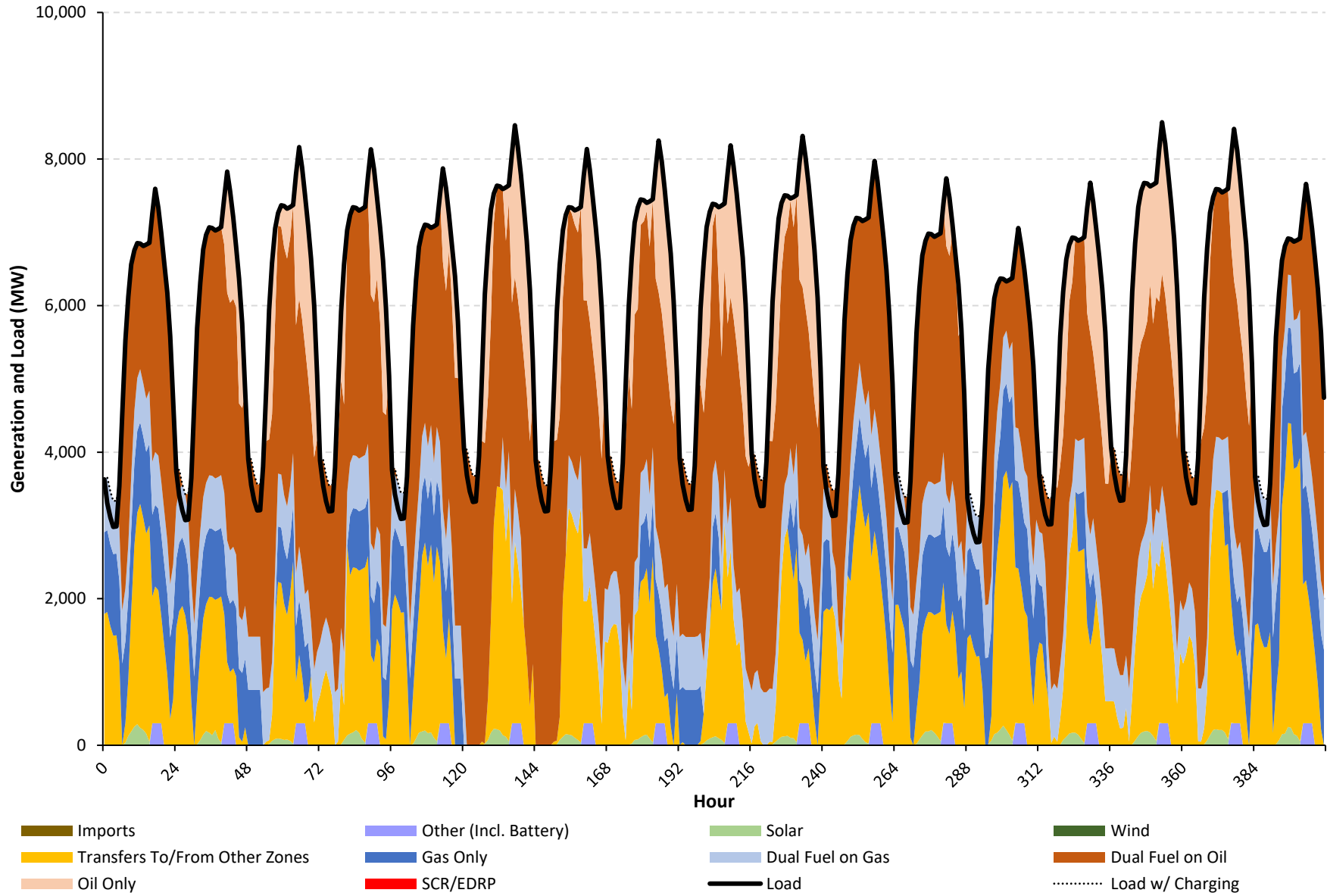
Total MWh of Lost Load



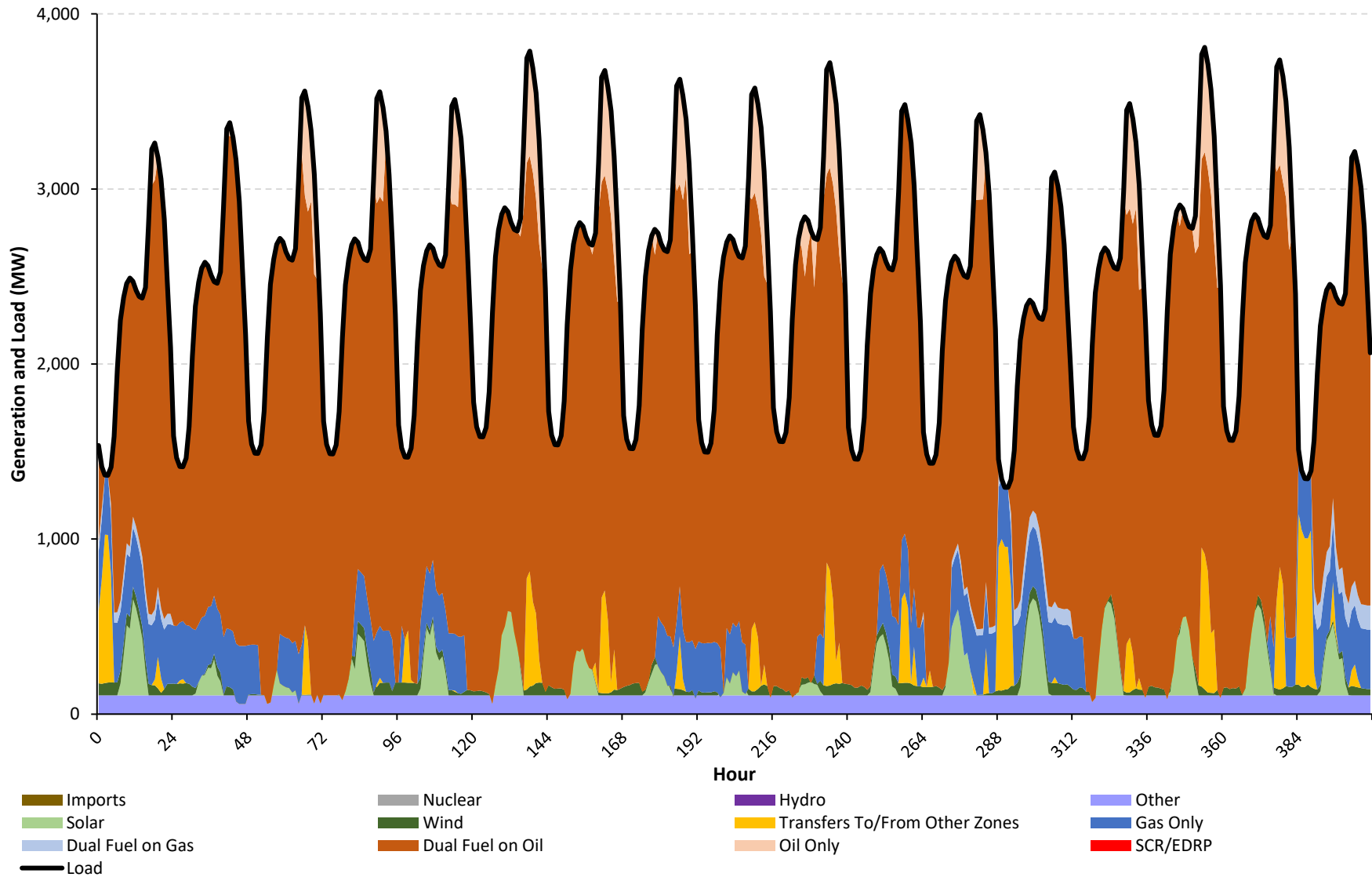
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 4 Nuclear Outage



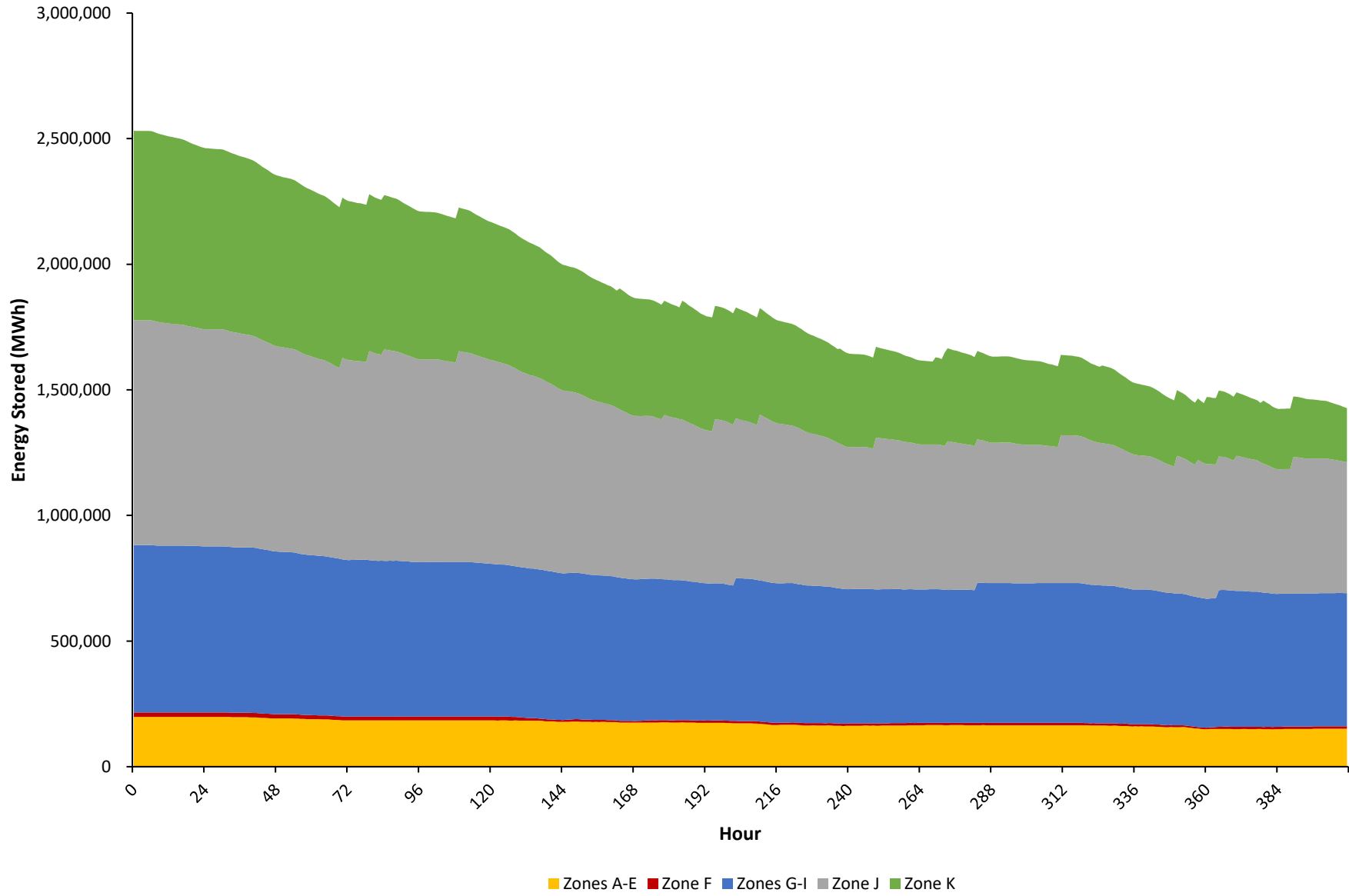
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 4 Nuclear Outage



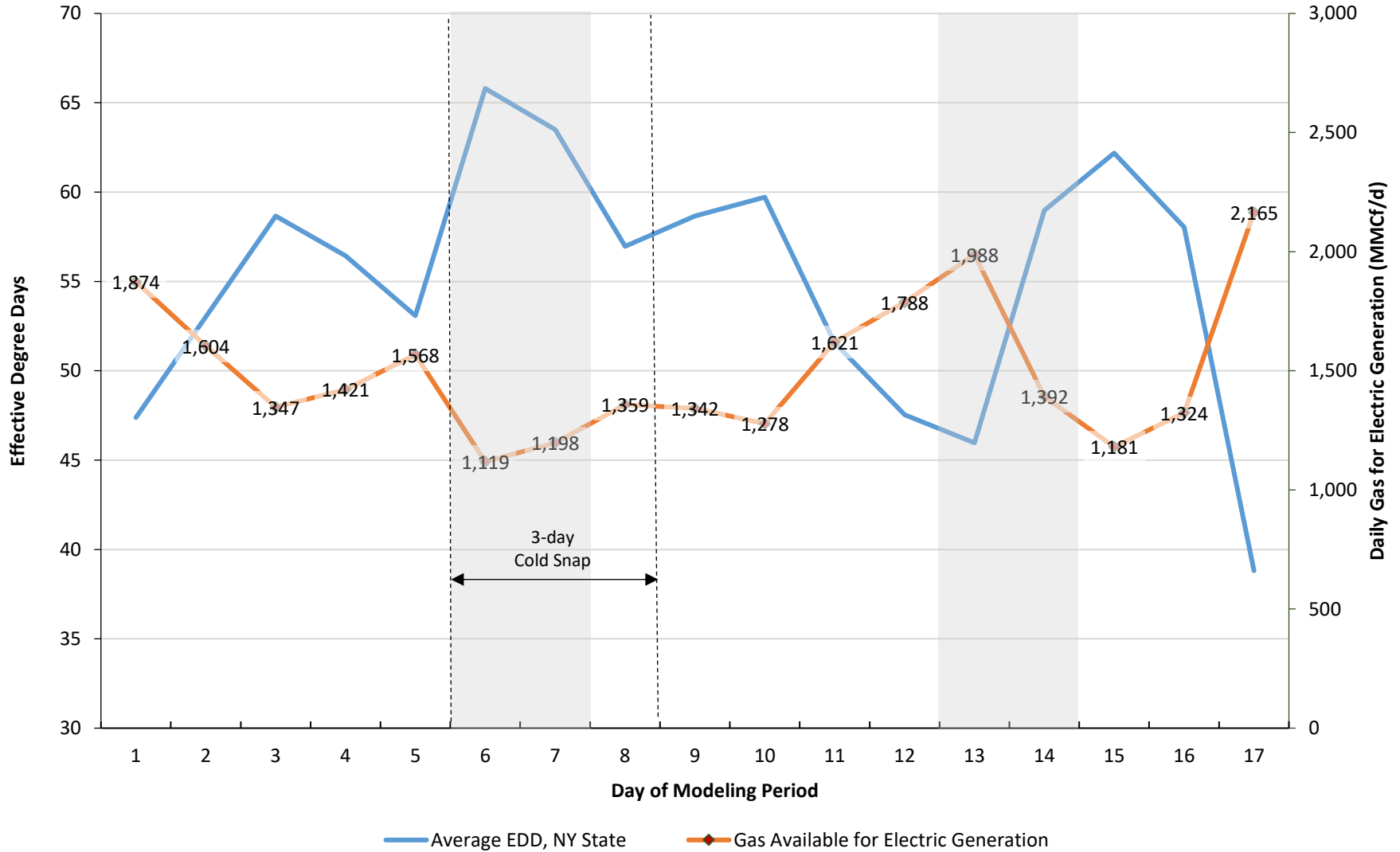
Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 4 Nuclear Outage



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 4 Nuclear Outage



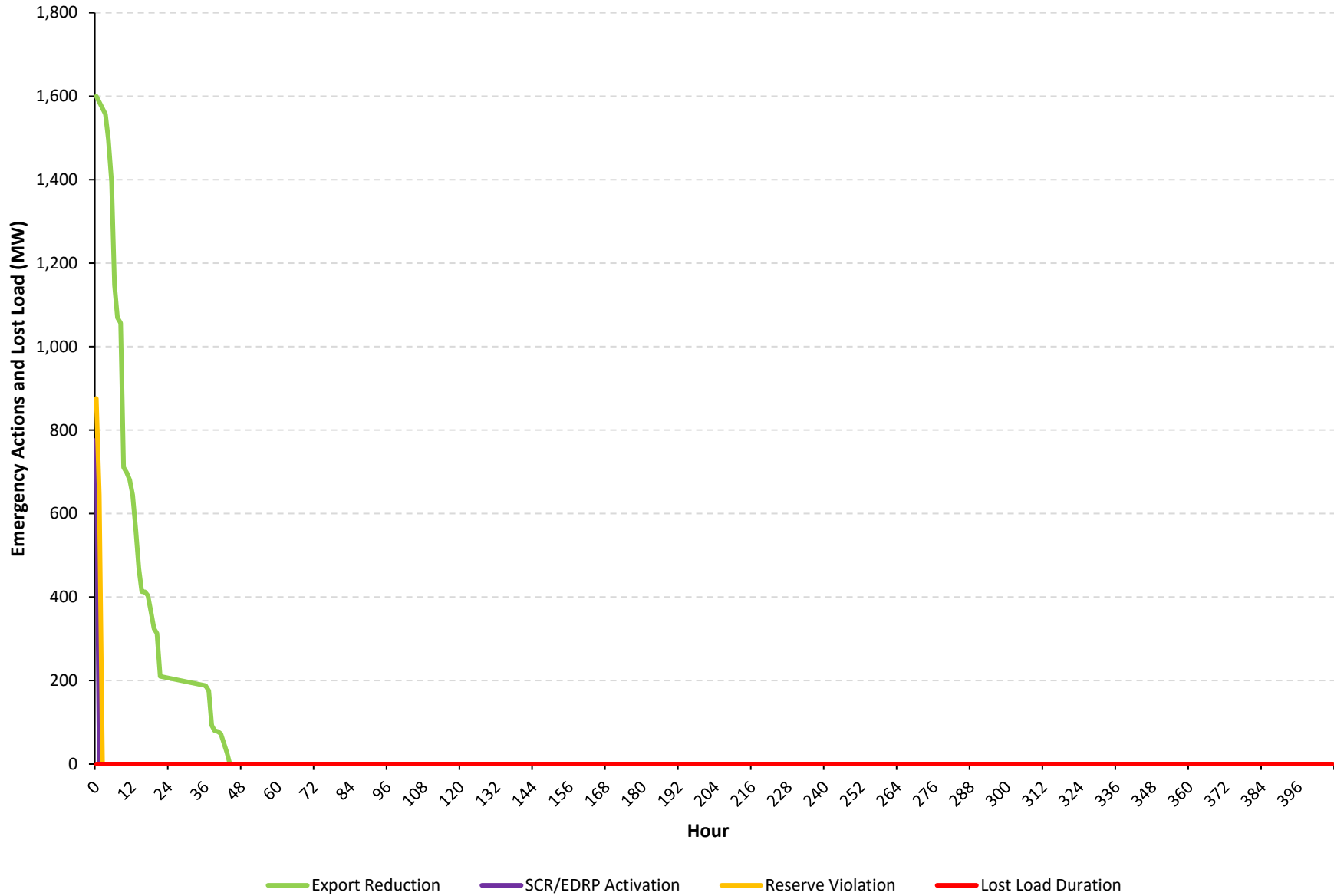
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 4 - PD 4 Nuclear Outage



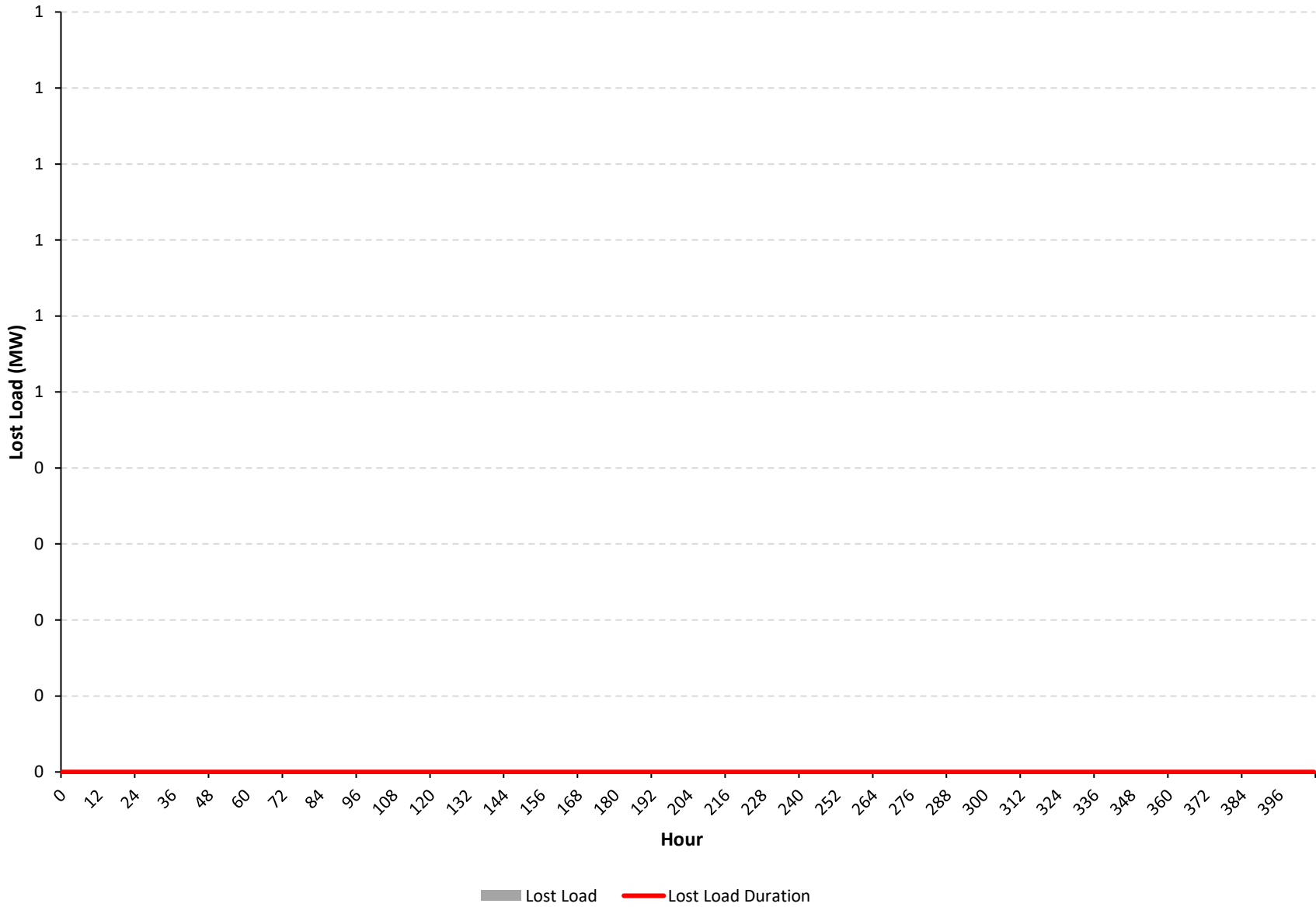
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 4 Nuclear Outage



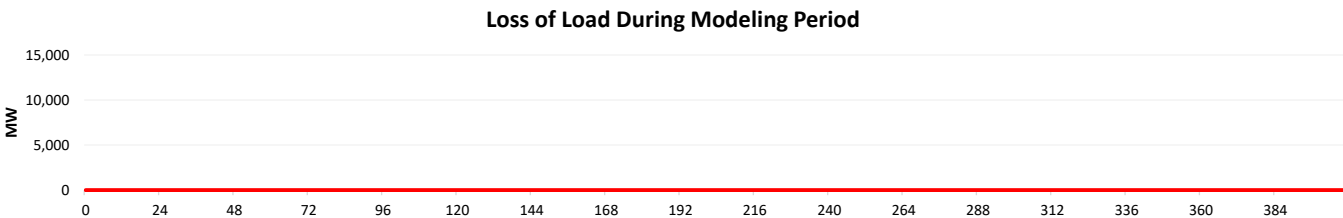
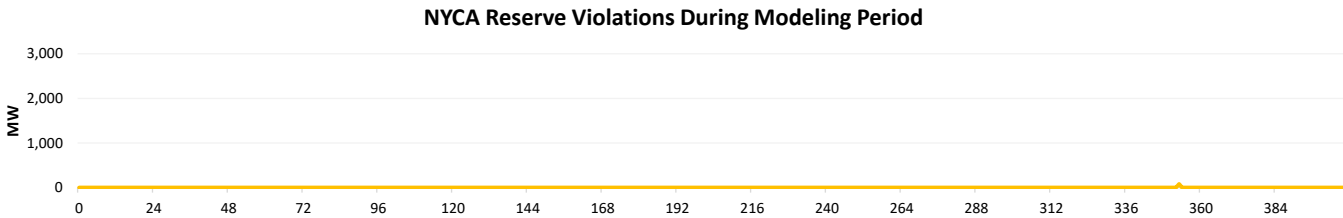
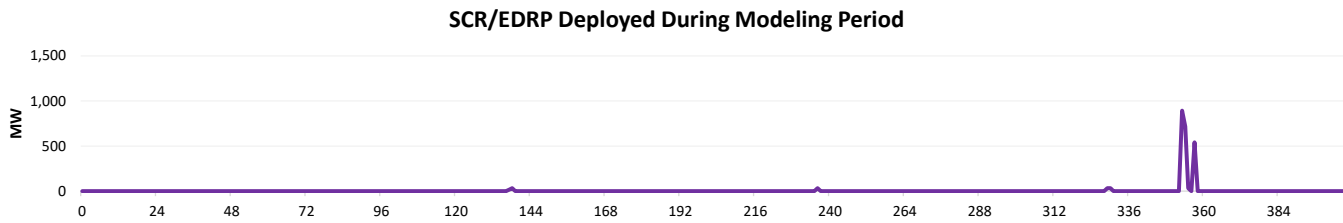
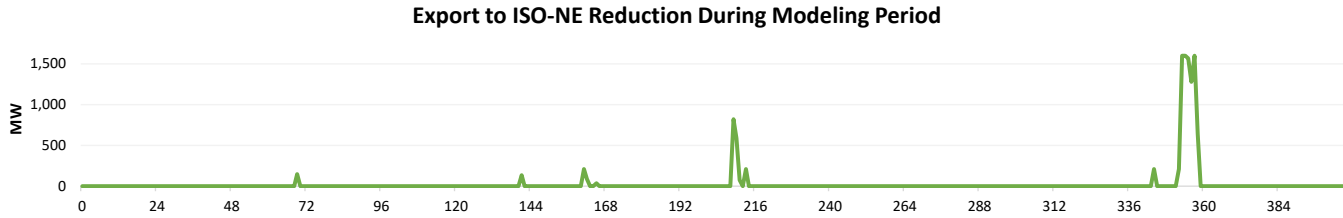
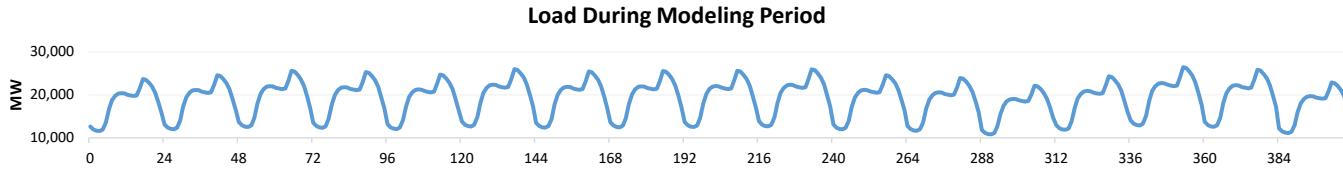
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 4 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	17
Total MWh	11,012
Avg. MW	27.0

SCR Deployment	
Total Hrs.	9
Total MWh	2,328
Avg. MW	5.7

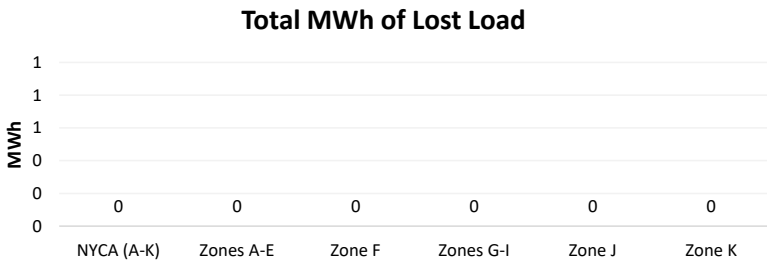
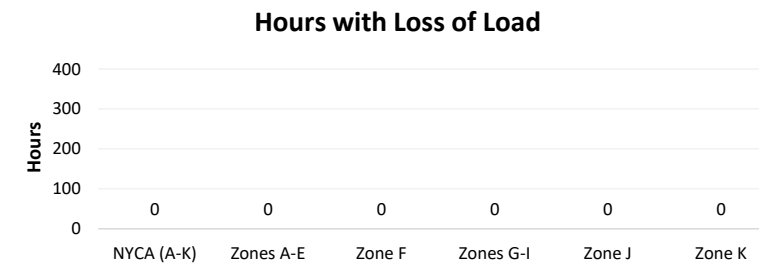
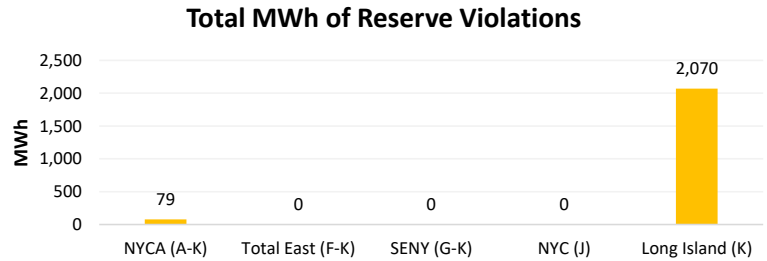
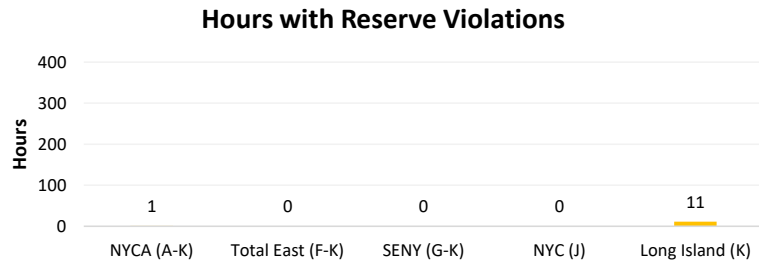
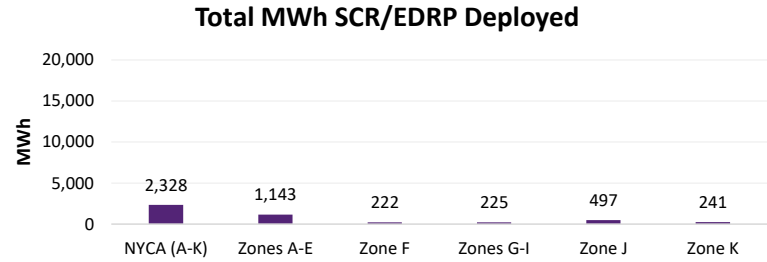
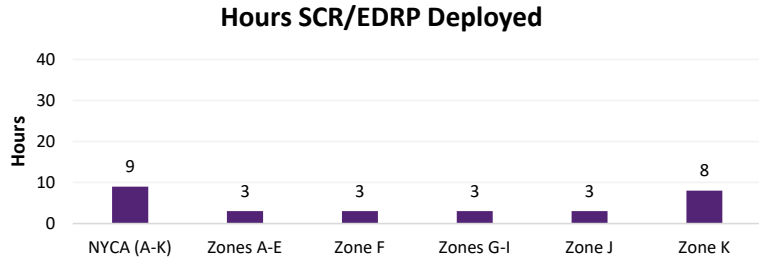
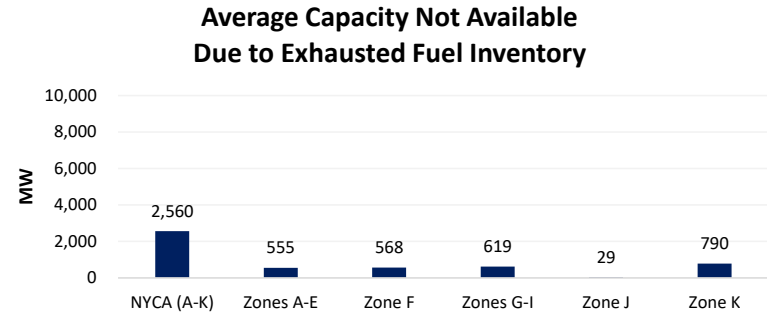
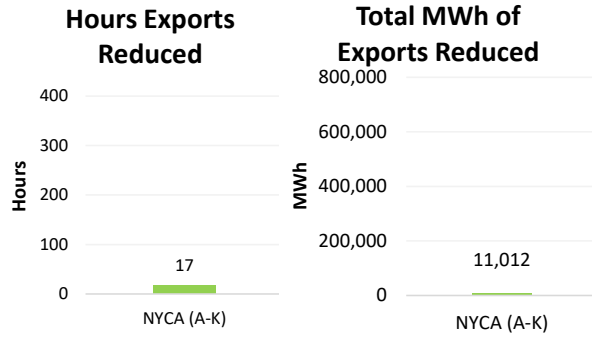
Reserve Violations	
Total Hrs.	1
Total MWh	79
Avg. MW	0.2
First Hour with Viol.	138
First Hour, Zone K	138

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

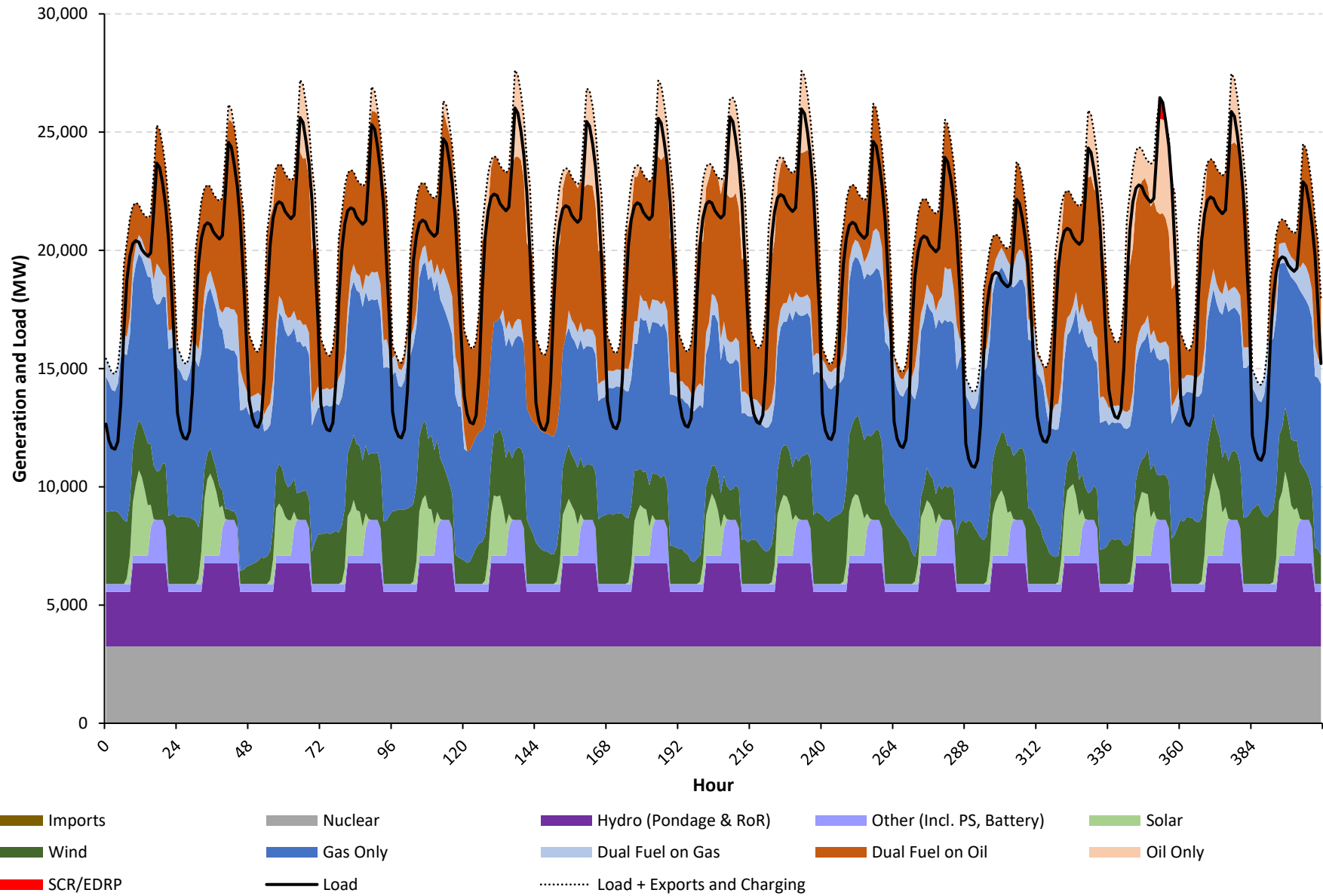
Full Period Results Summary

Case Name: Scenario 4 - PD 5 No Truck Refill

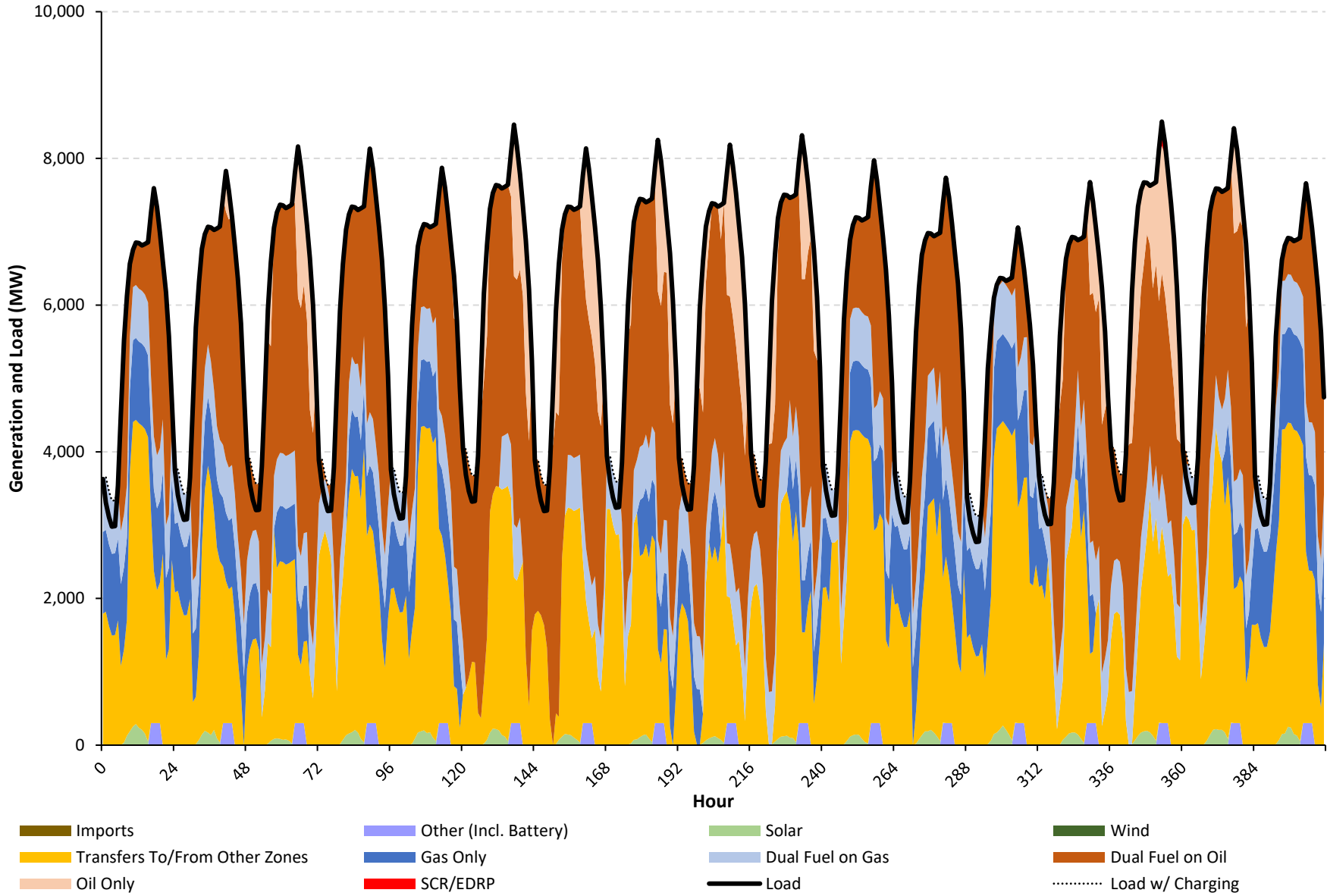
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



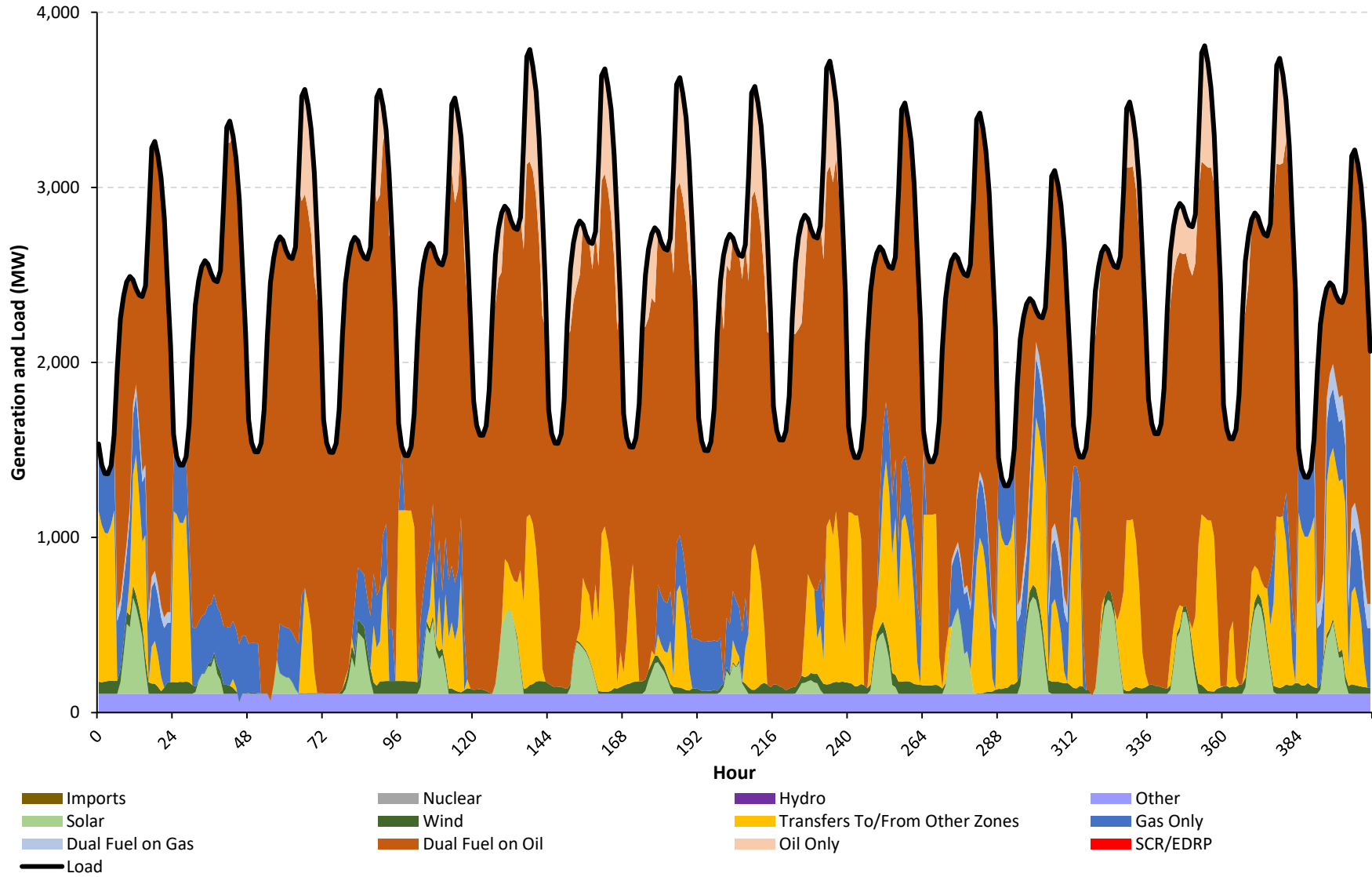
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 5 No Truck Refill



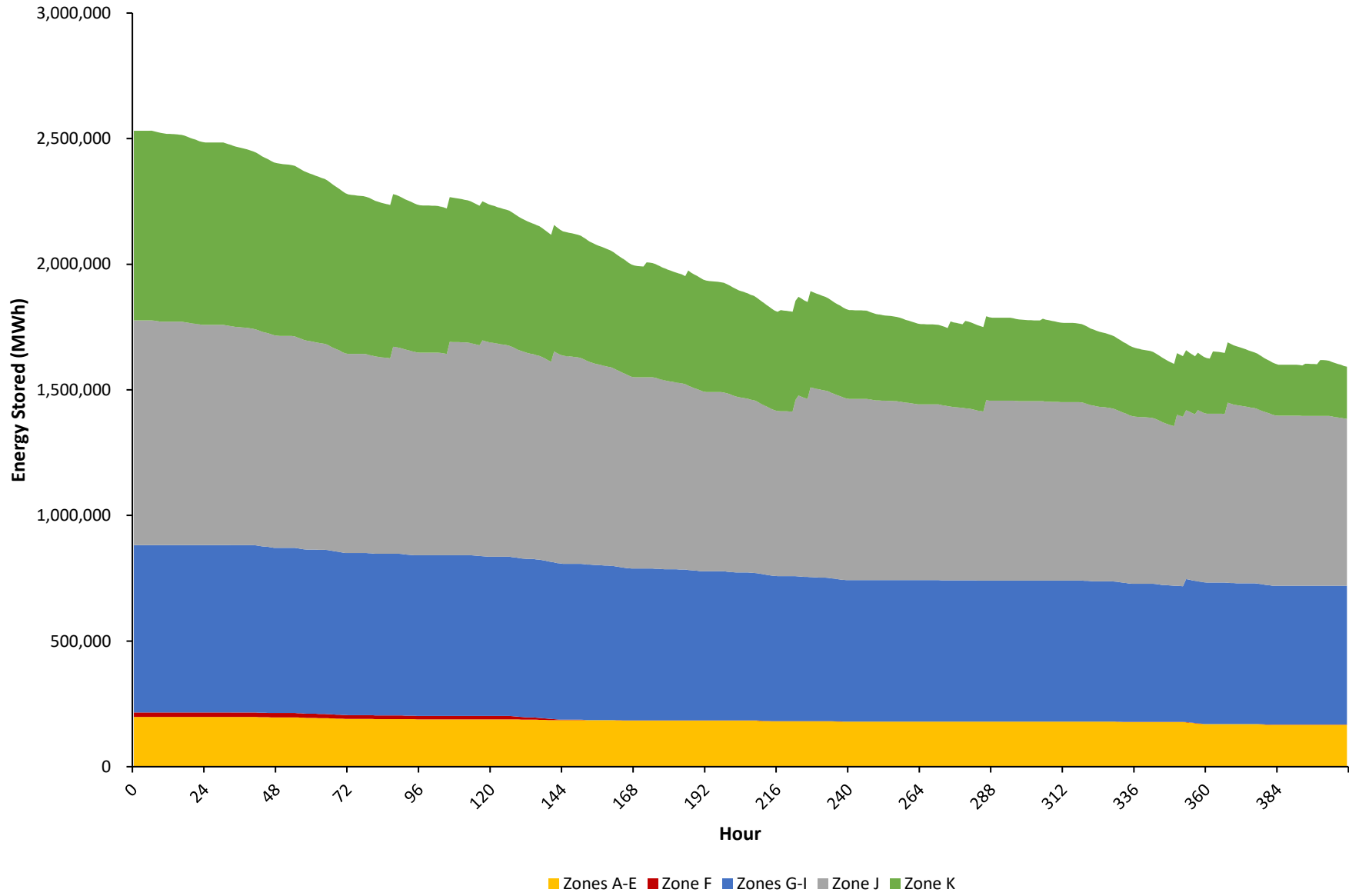
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 5 No Truck Refill

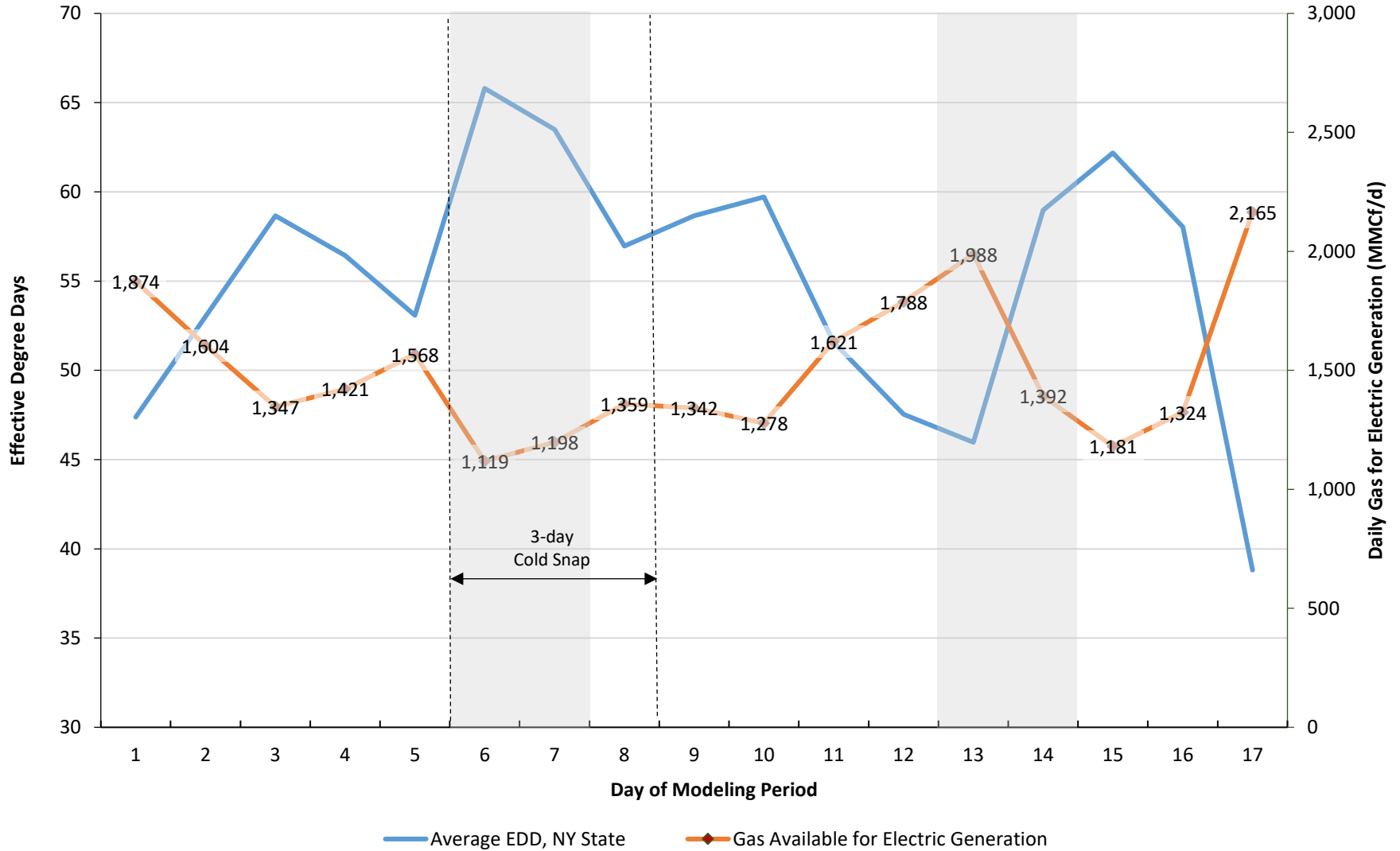


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

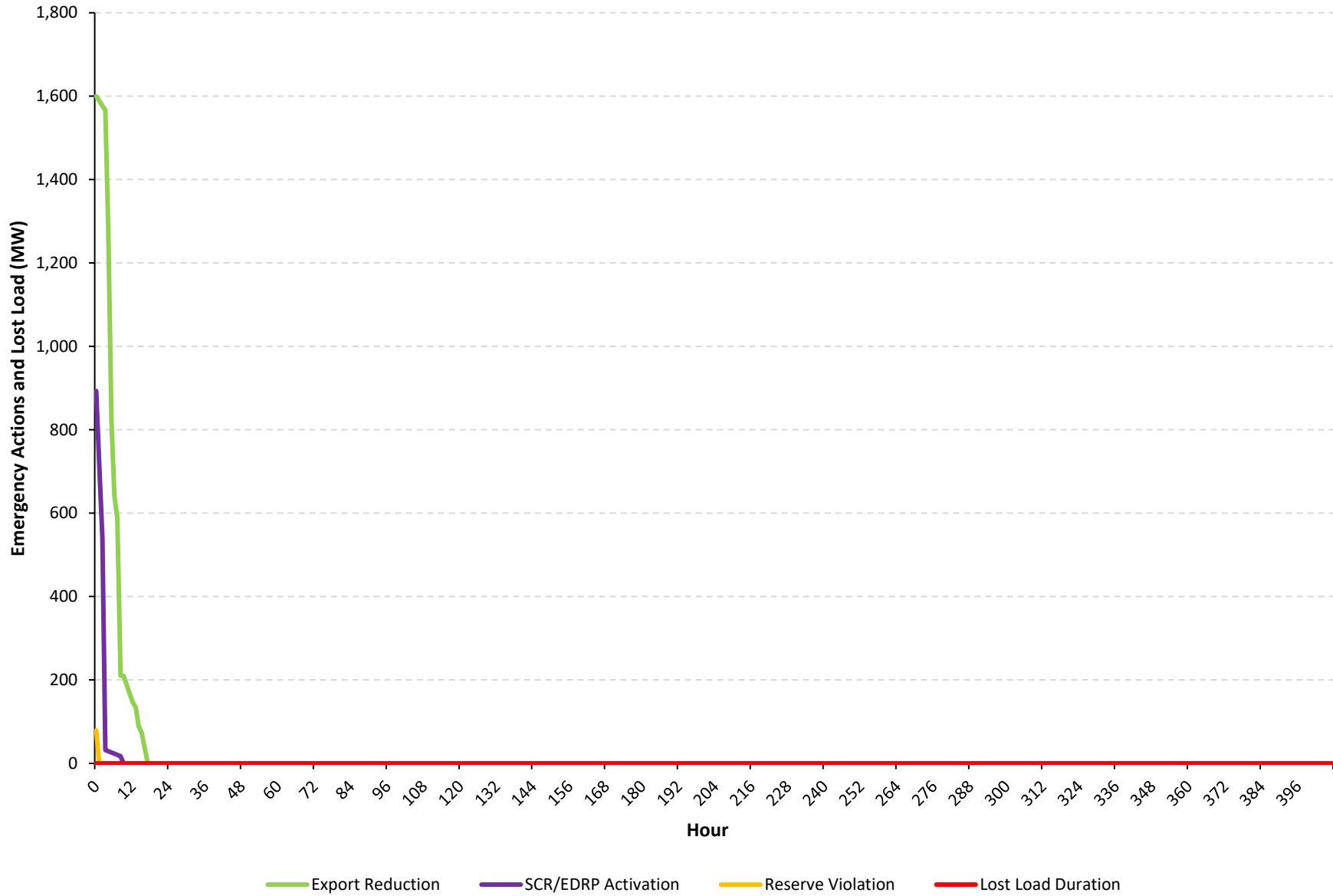
Scenario 4 - PD 5 No Truck Refill



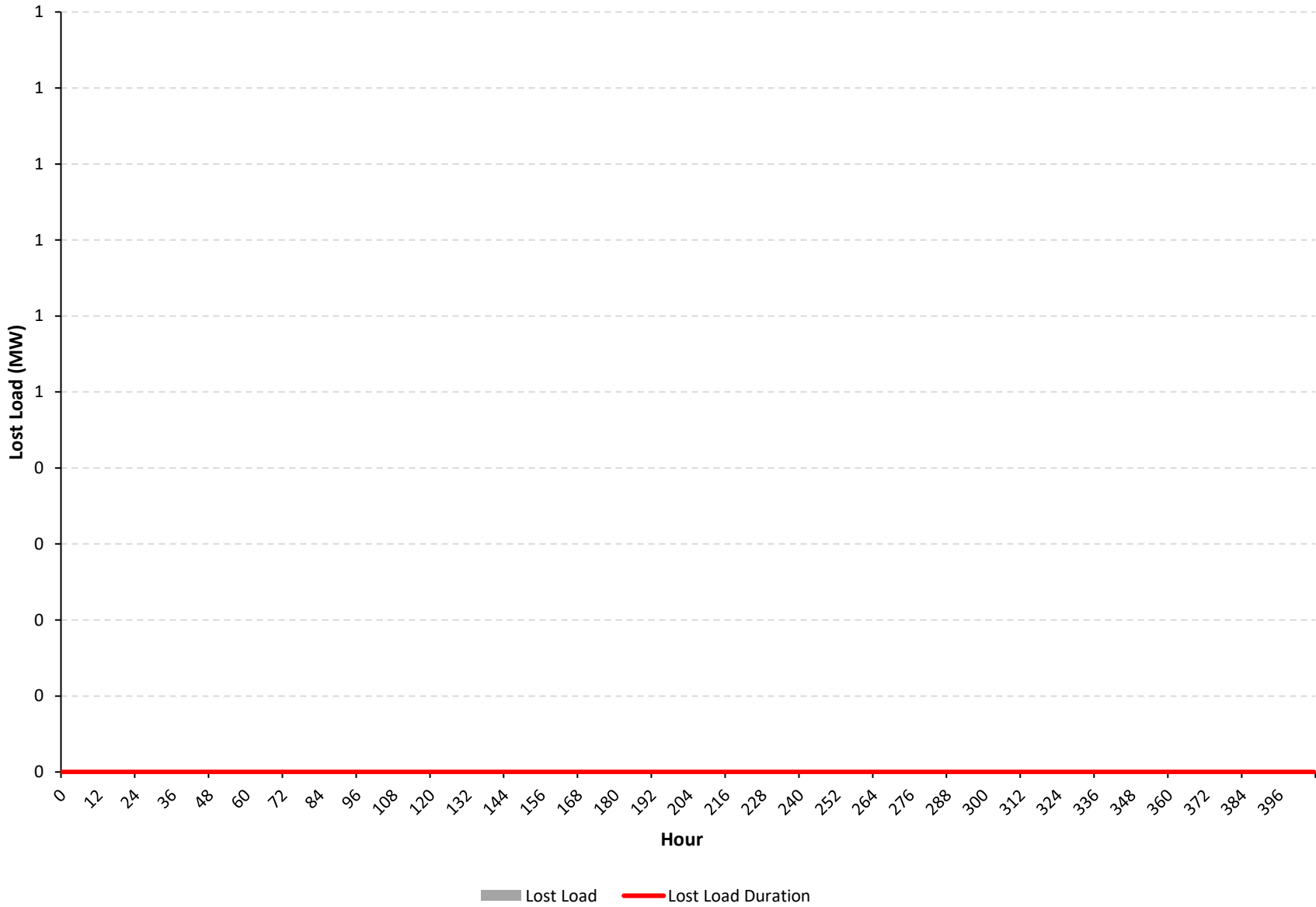
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 5 No Truck Refill



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 5 No Truck Refill



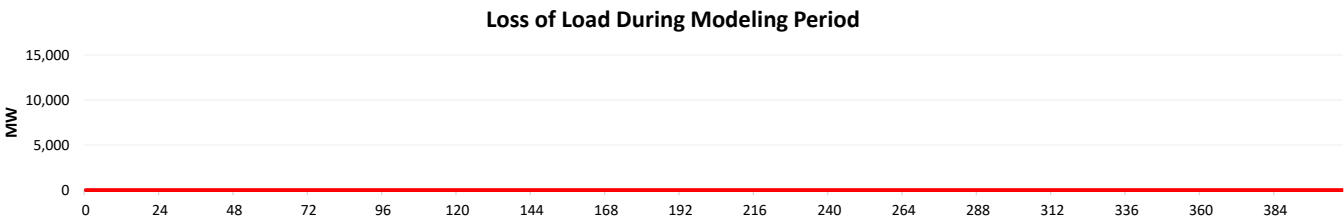
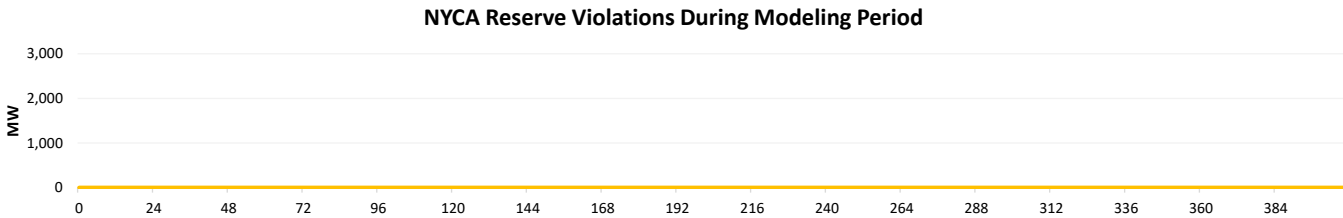
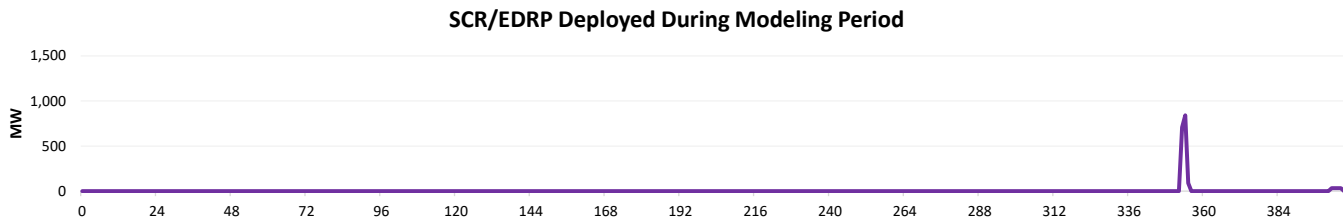
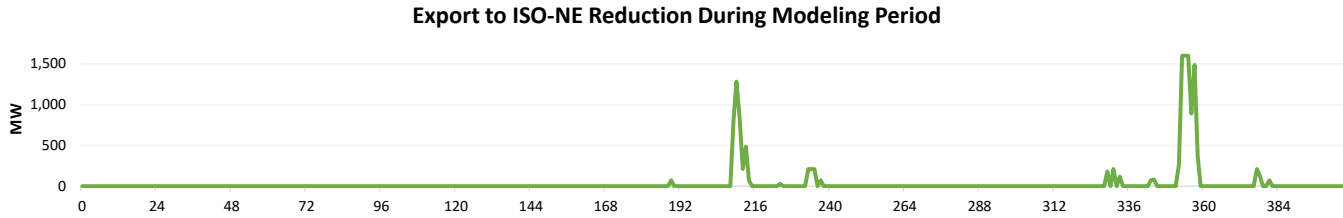
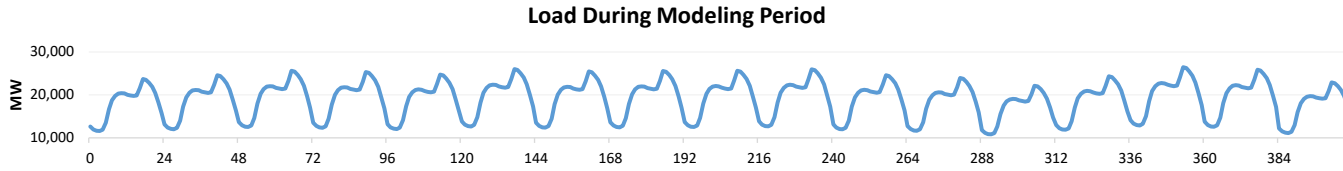
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 4 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	27
Total MWh	13,367
Avg. MW	32.8

SCR Deployment	
Total Hrs.	7
Total MWh	1,765
Avg. MW	4.3

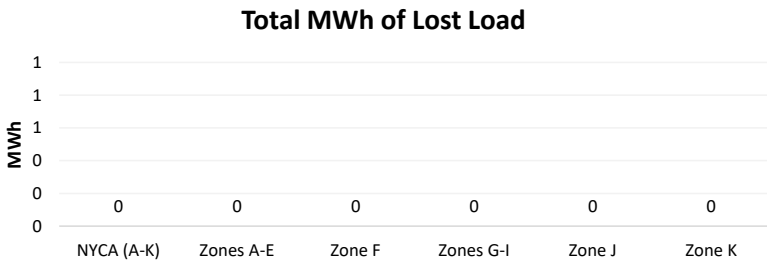
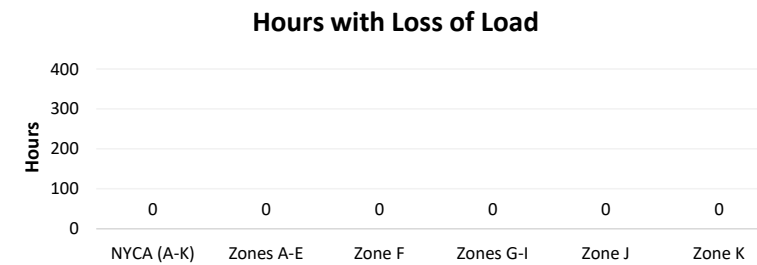
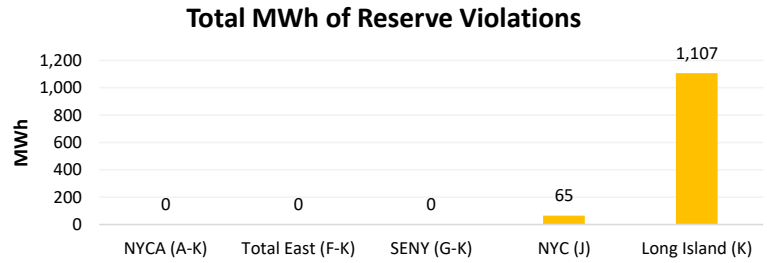
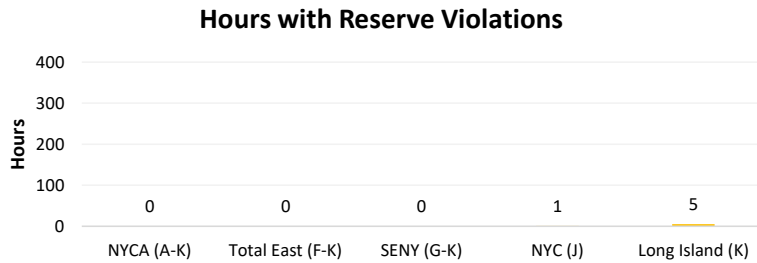
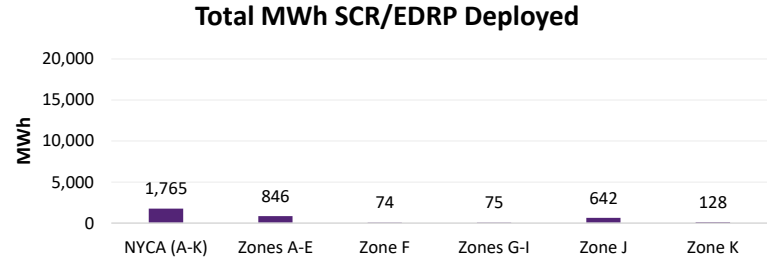
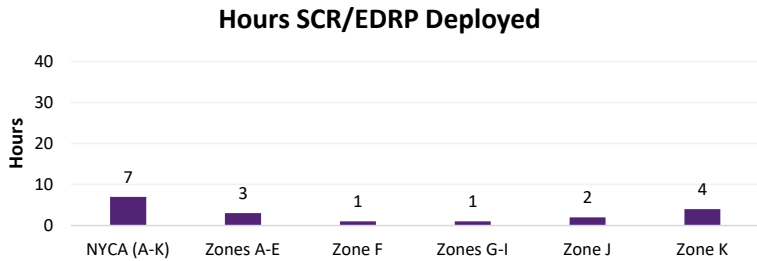
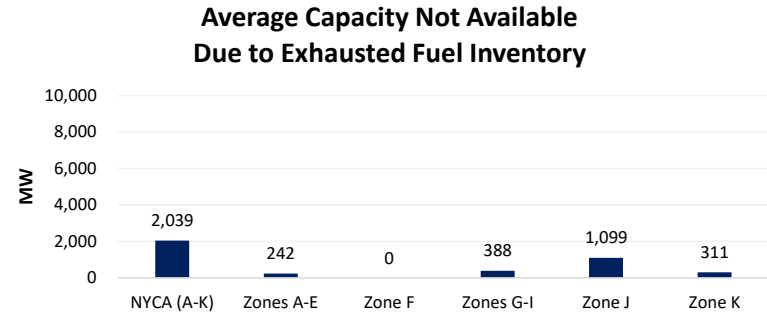
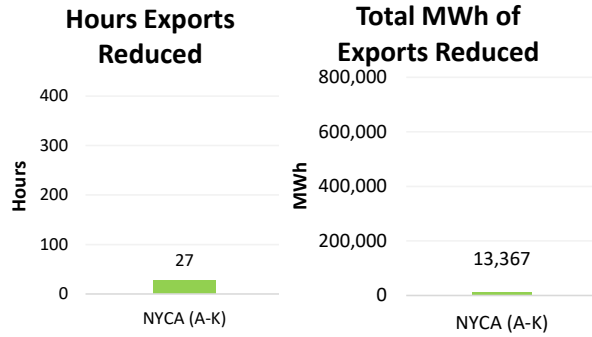
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	353
First Hour, Zone K	401

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

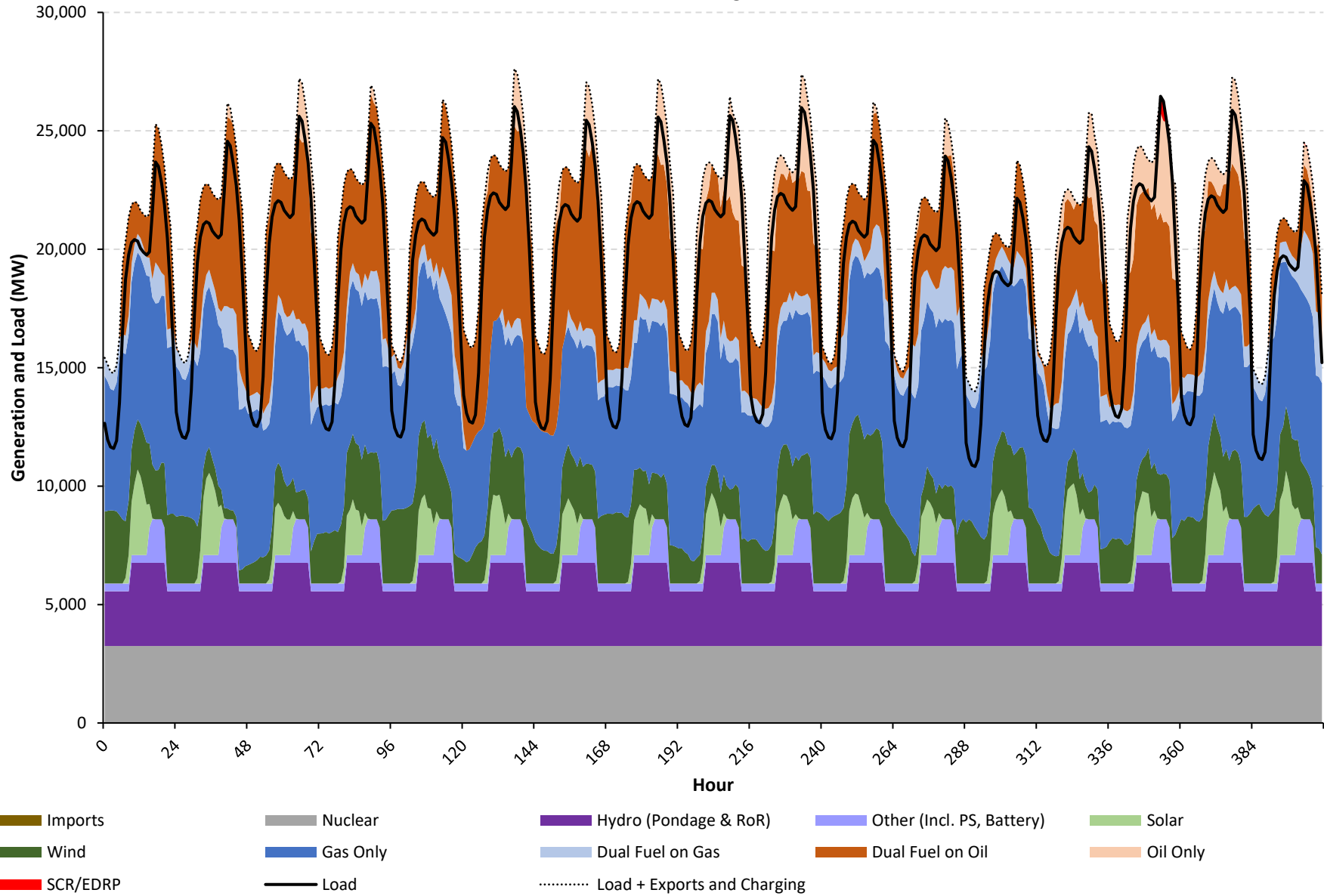
Full Period Results Summary

Case Name: Scenario 4 - PD 6 No Barge Refill

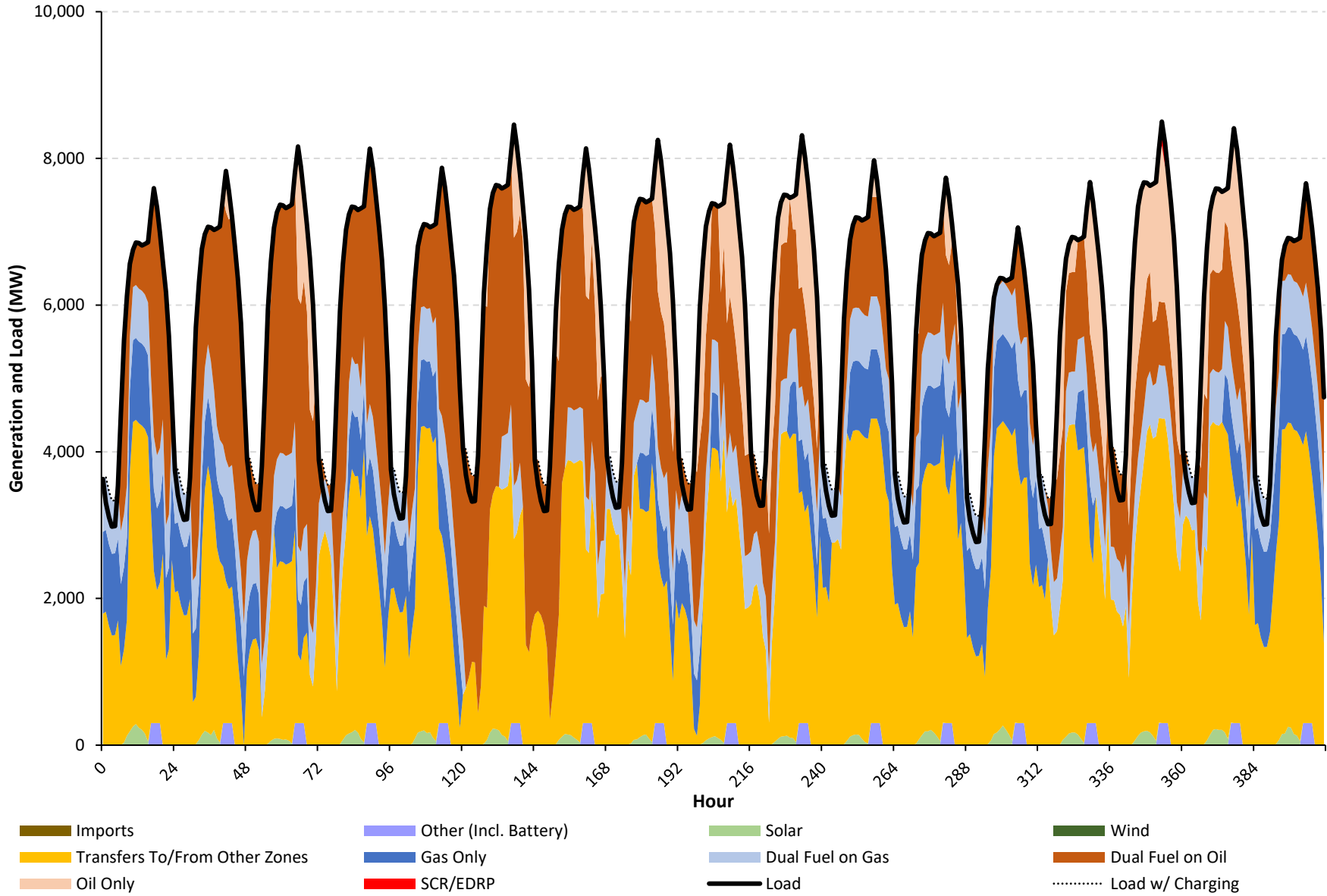
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



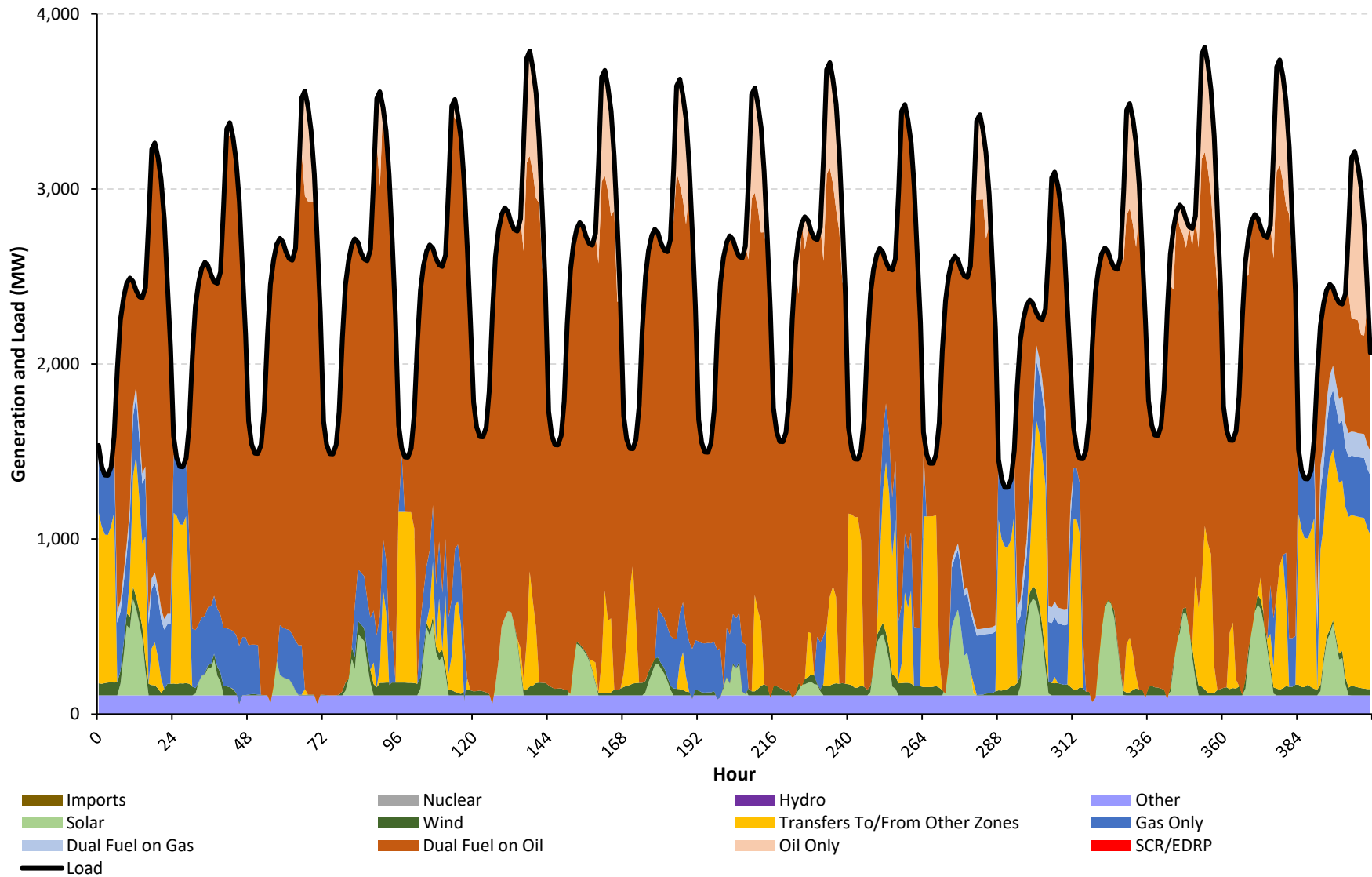
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 6 No Barge Refill



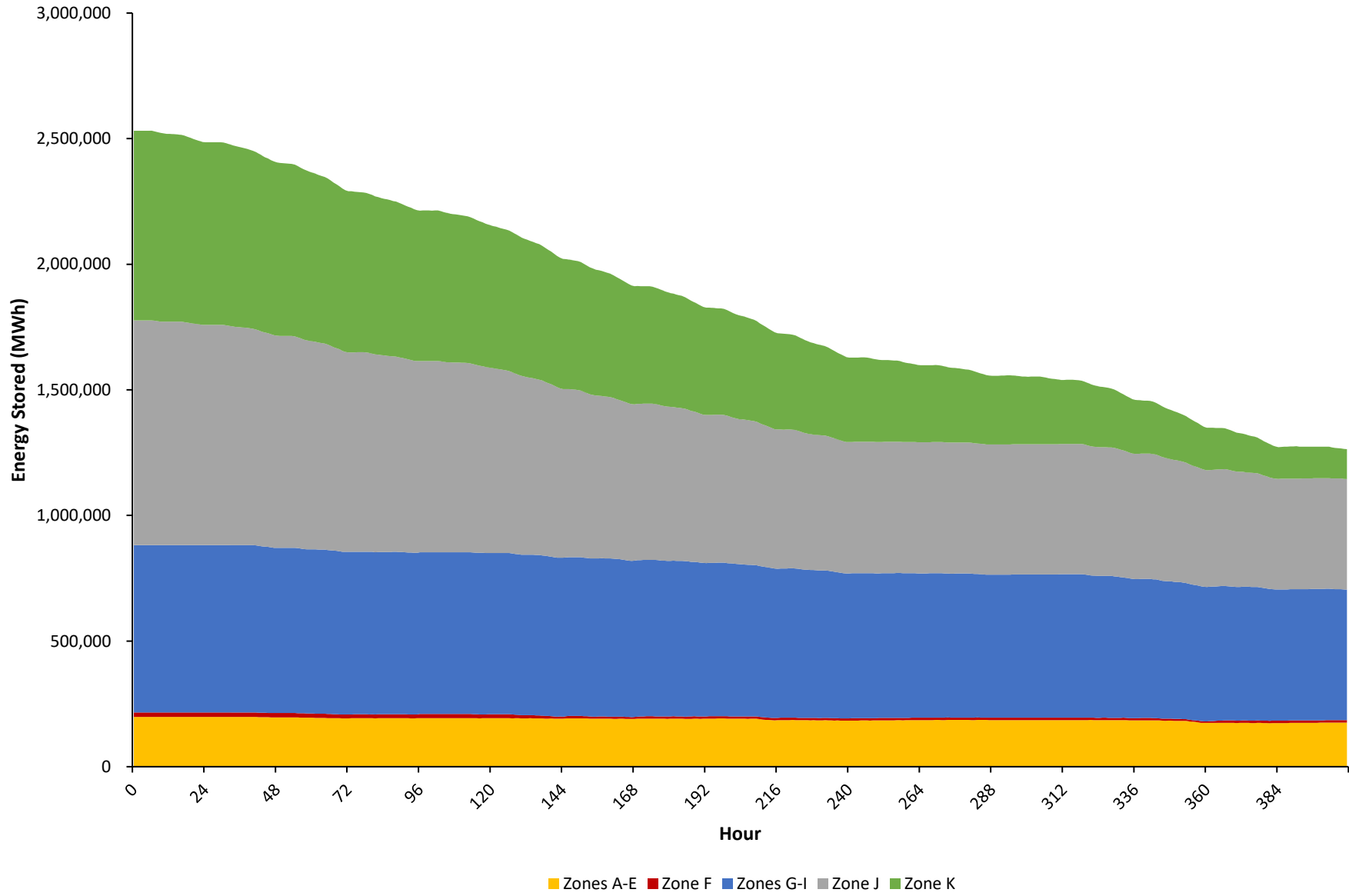
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 6 No Barge Refill

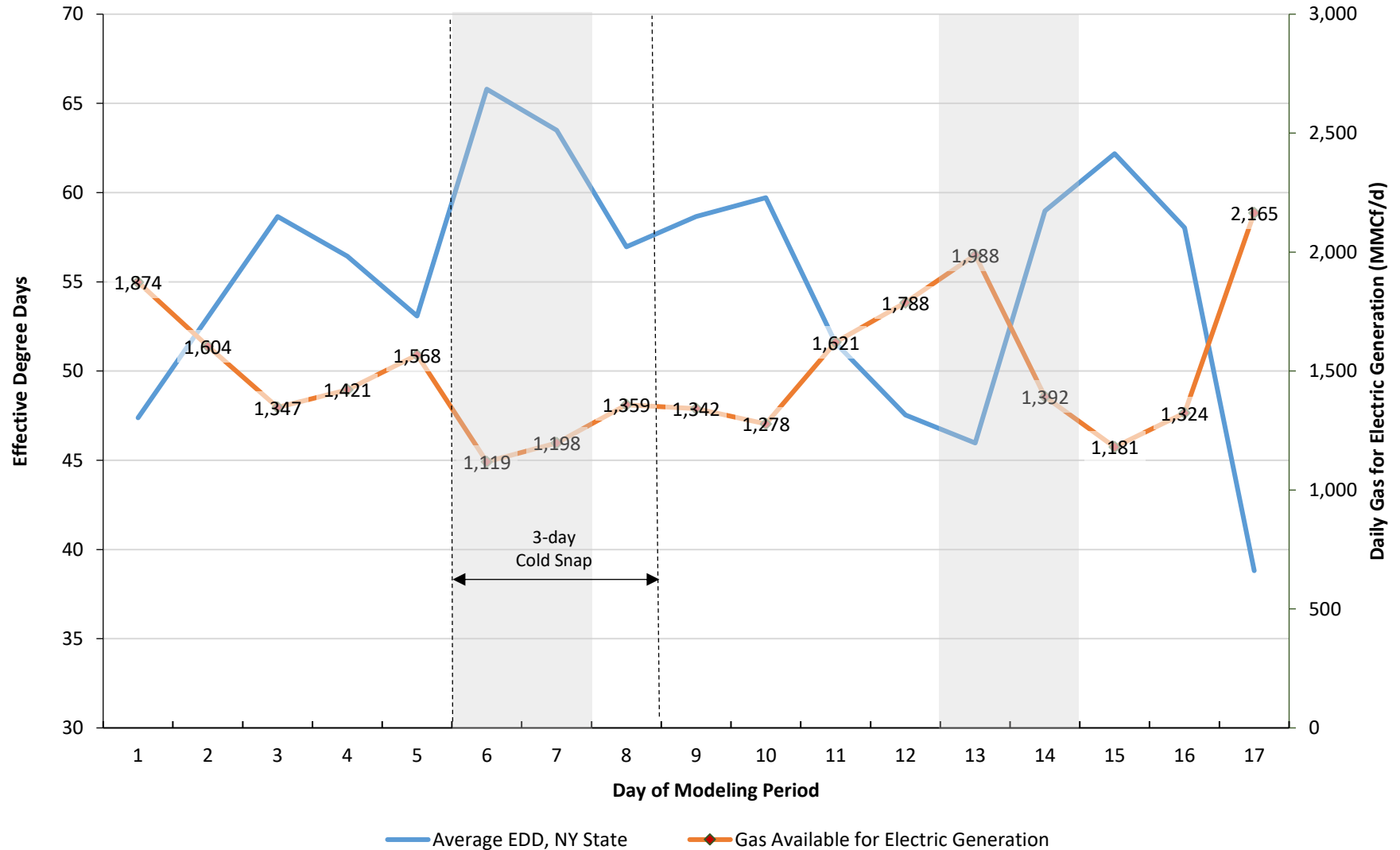


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

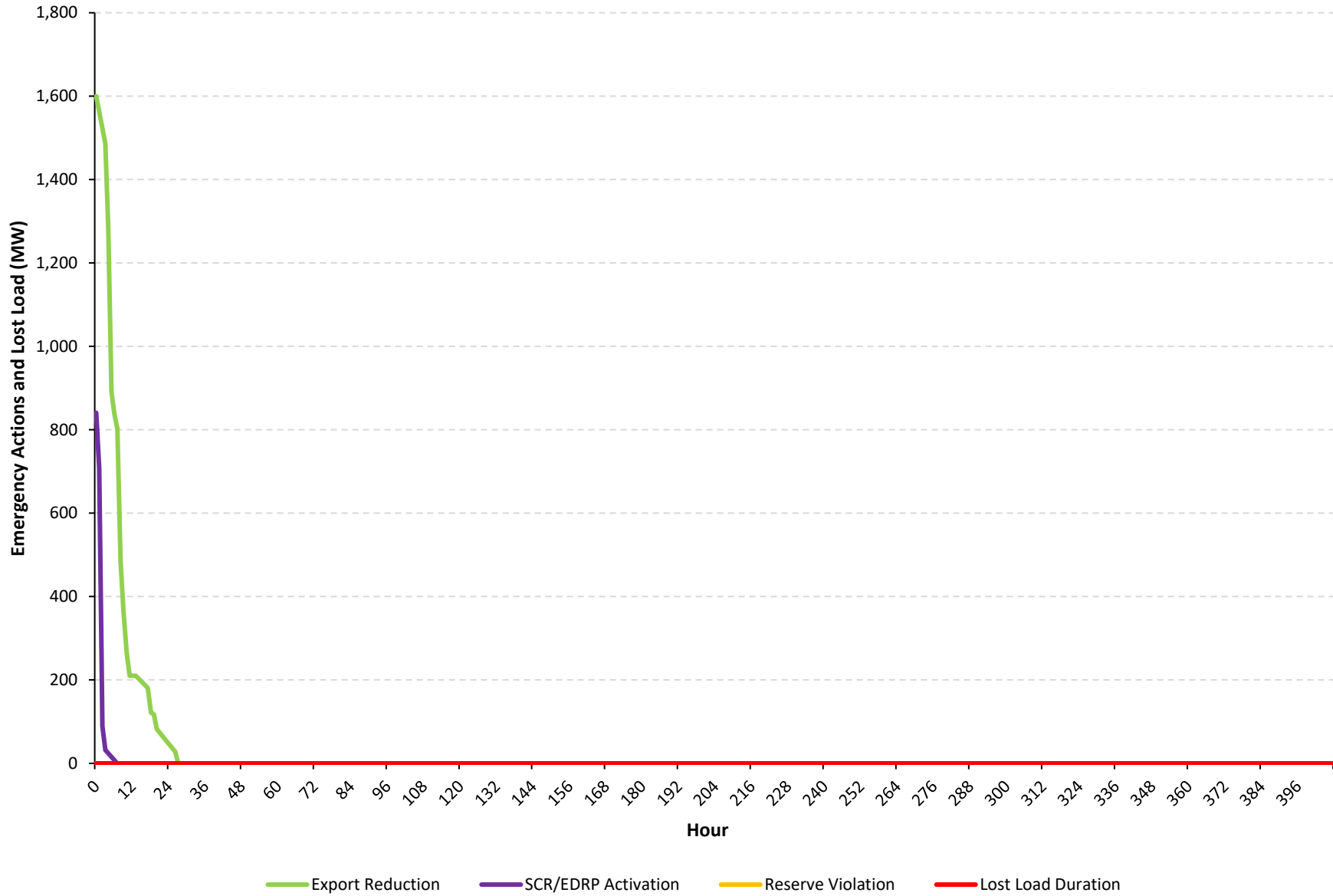
Scenario 4 - PD 6 No Barge Refill



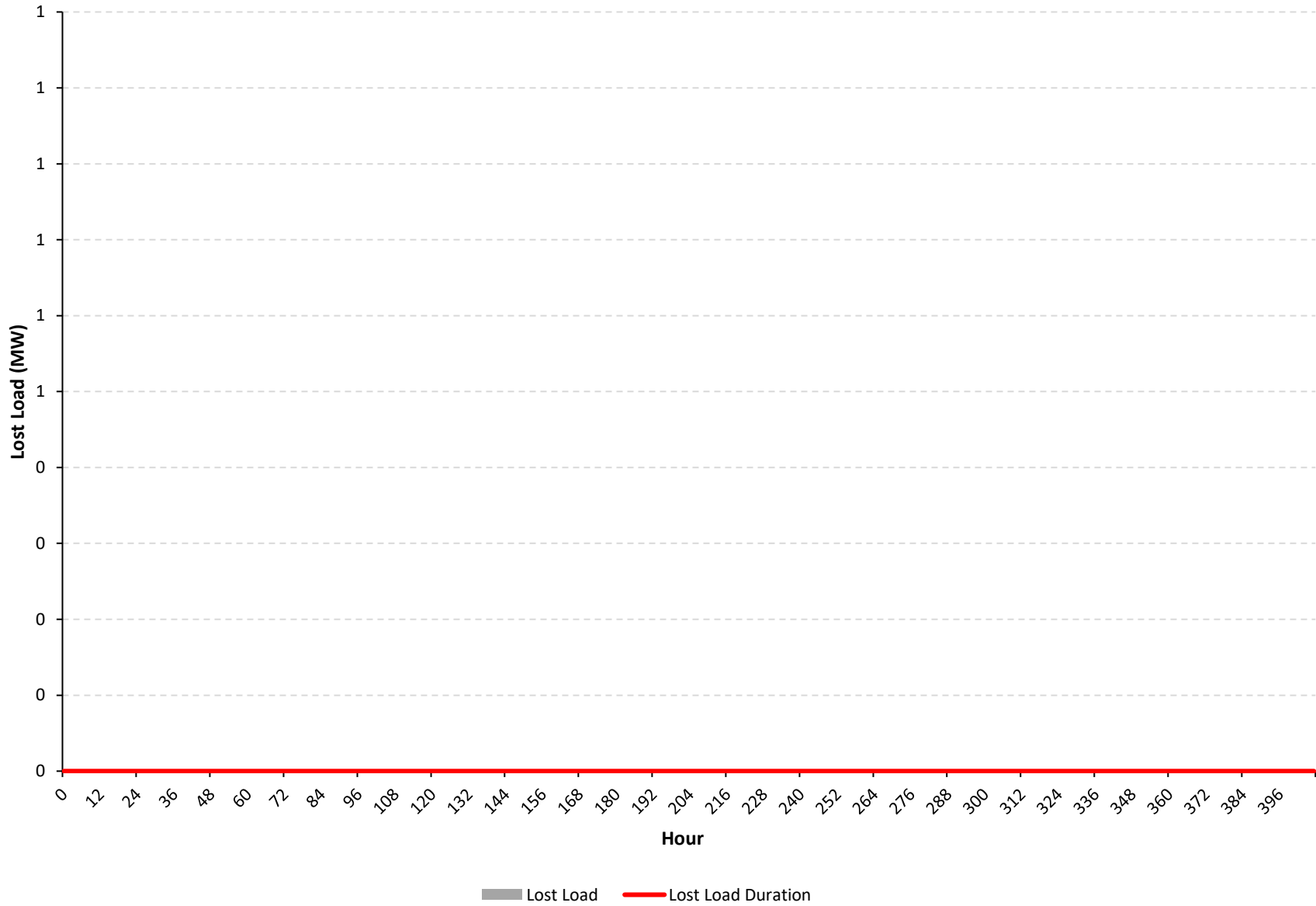
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 6 No Barge Refill



NYCA Lost Load Duration (MWh) Scenario 4 - PD 6 No Barge Refill



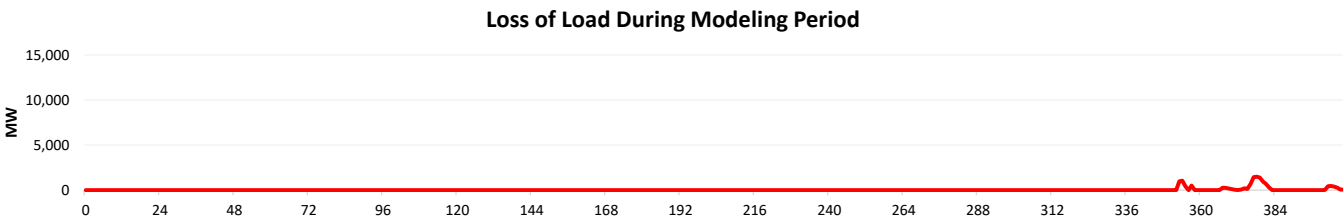
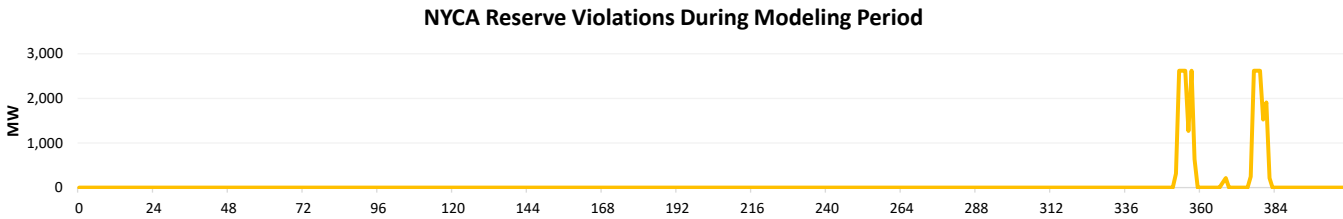
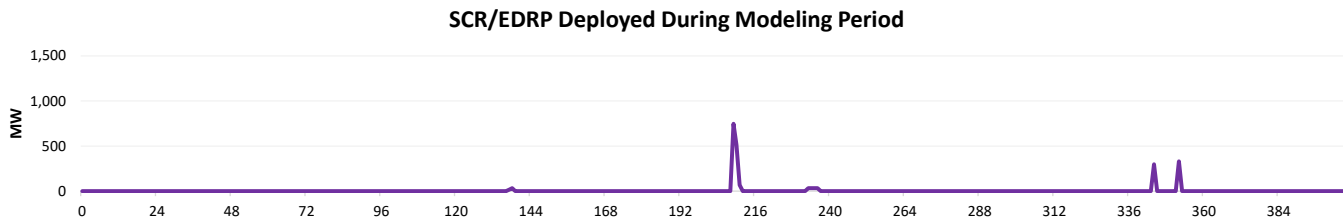
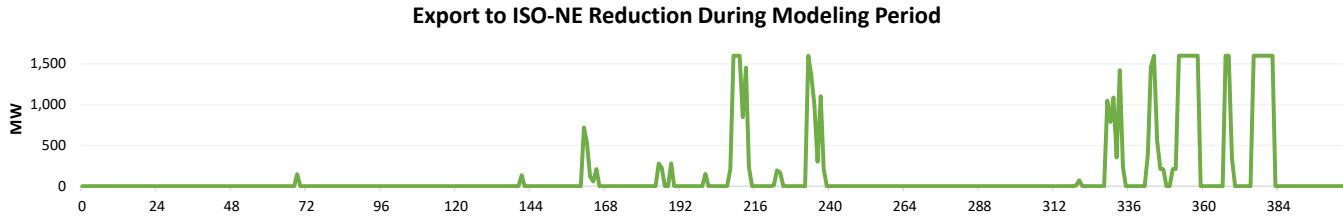
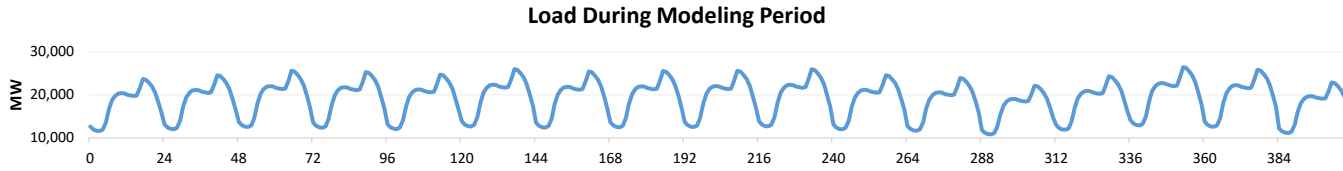
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 4 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	60
Total MWh	52,146
Avg. MW	127.8

SCR Deployment	
Total Hrs.	11
Total MWh	2,134
Avg. MW	5.2

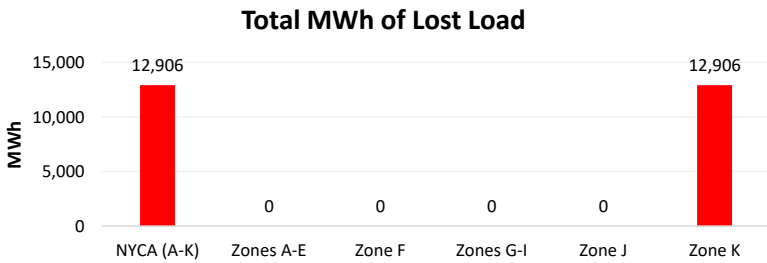
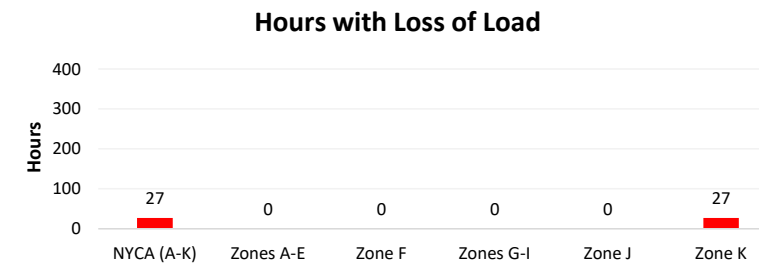
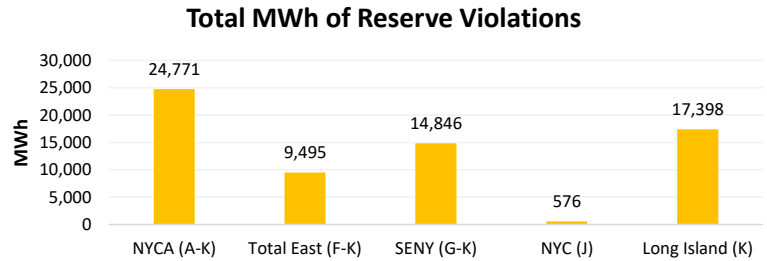
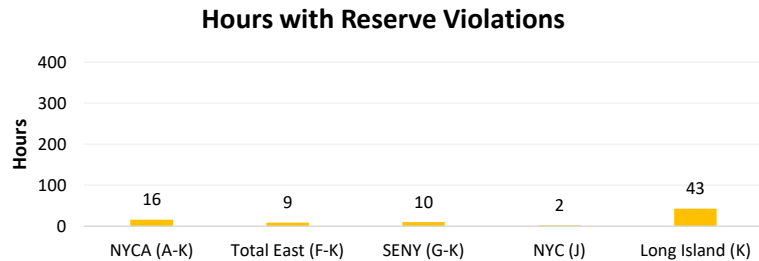
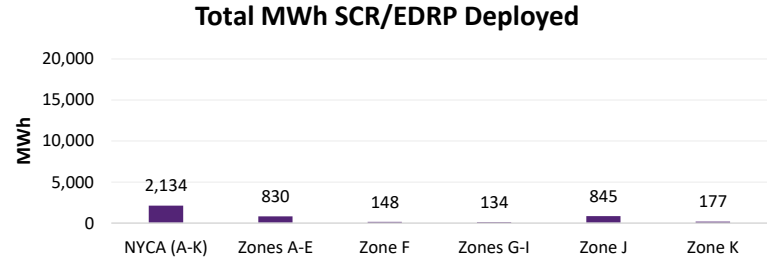
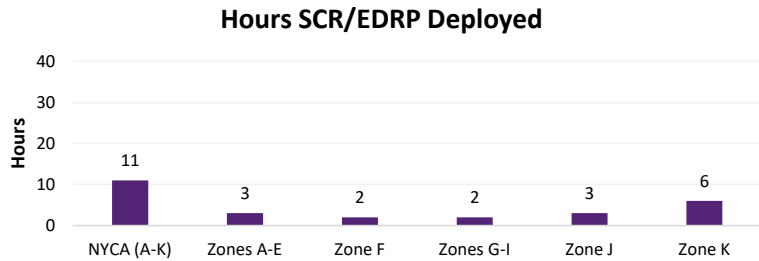
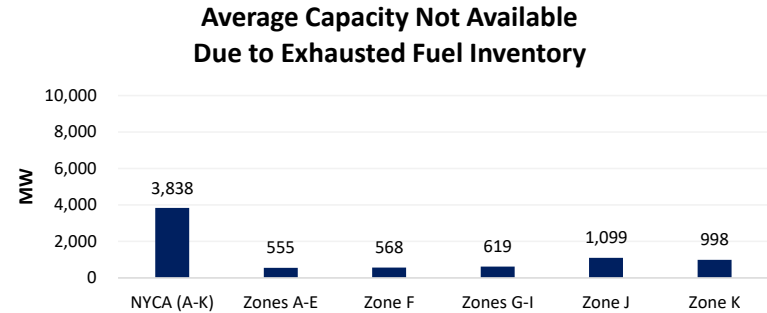
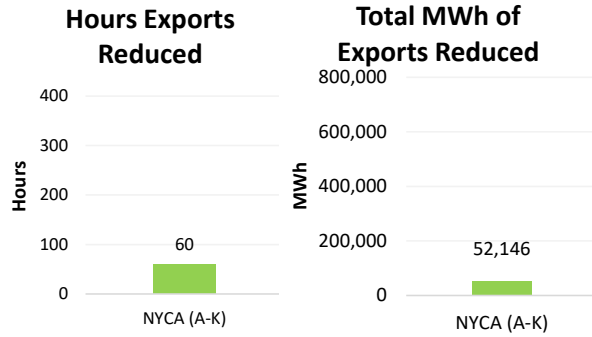
Reserve Violations	
Total Hrs.	16
Total MWh	24,771
Avg. MW	60.7
First Hour with Viol.	138
First Hour, Zone K	138

Loss of Load	
Total Hrs.	27
Total MWh	12,906
Avg. MW	31.6
First Hour with Losses	353
First Hour, Zone K	353

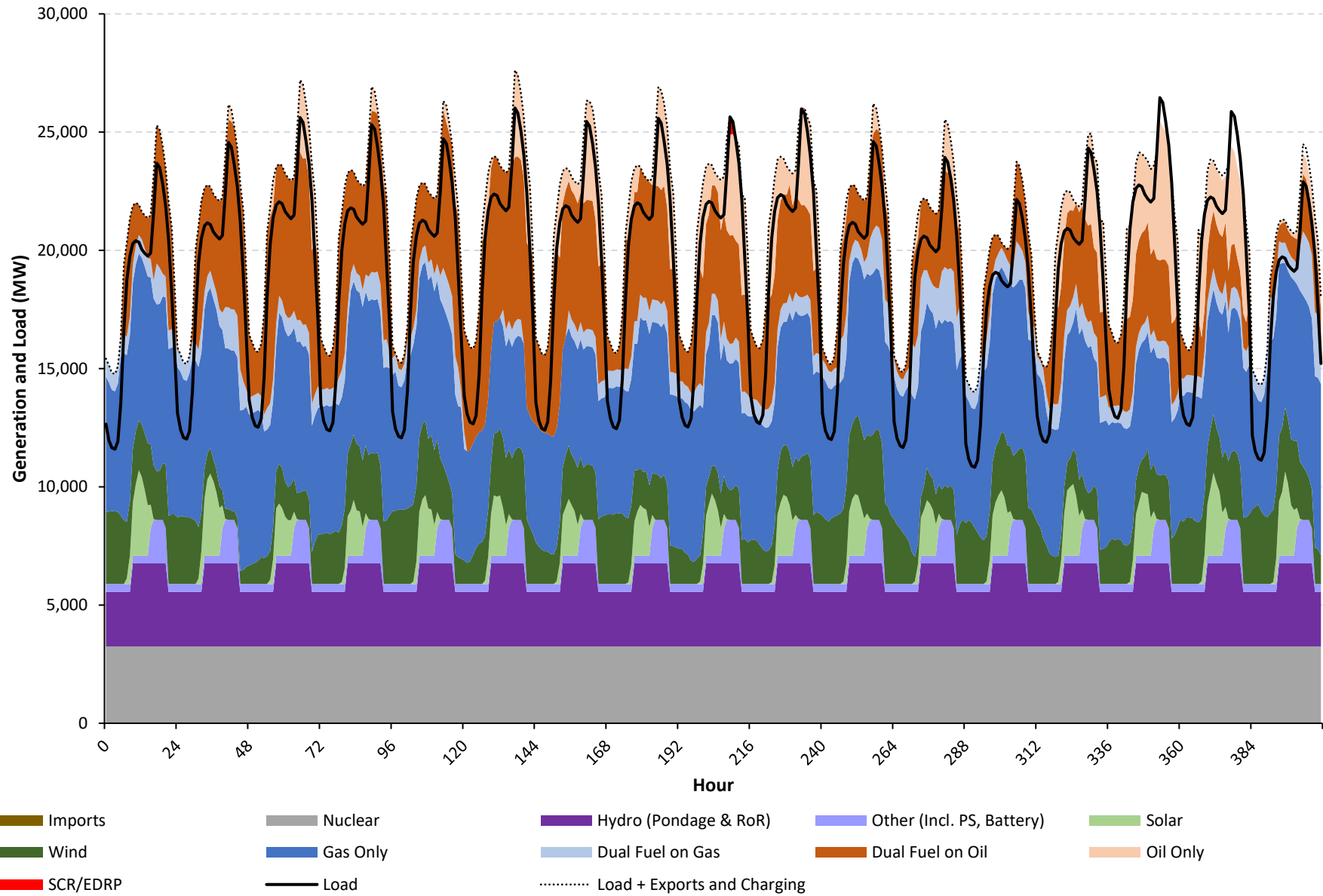
Full Period Results Summary

Case Name: Scenario 4 - PD 7 No Refill

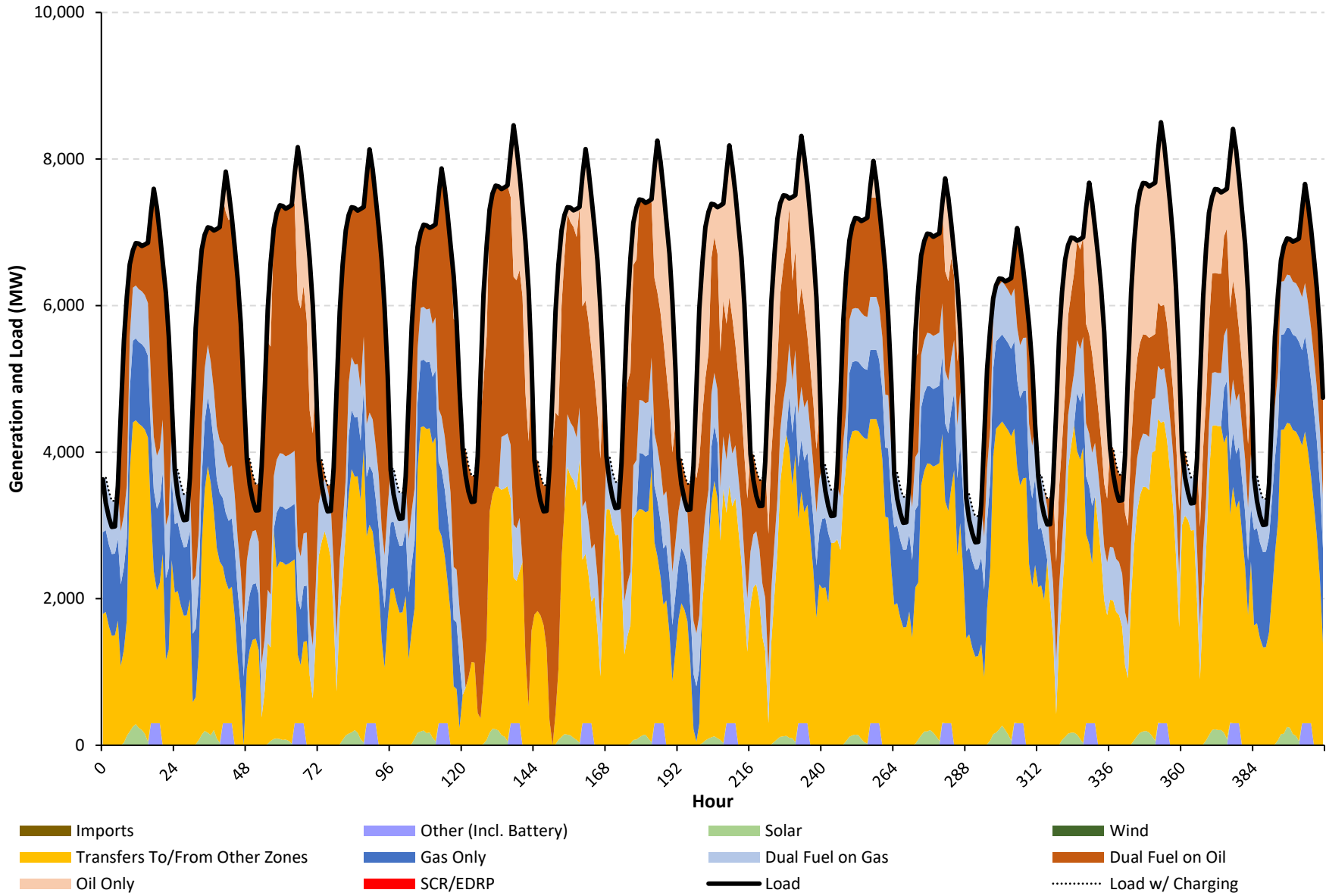
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



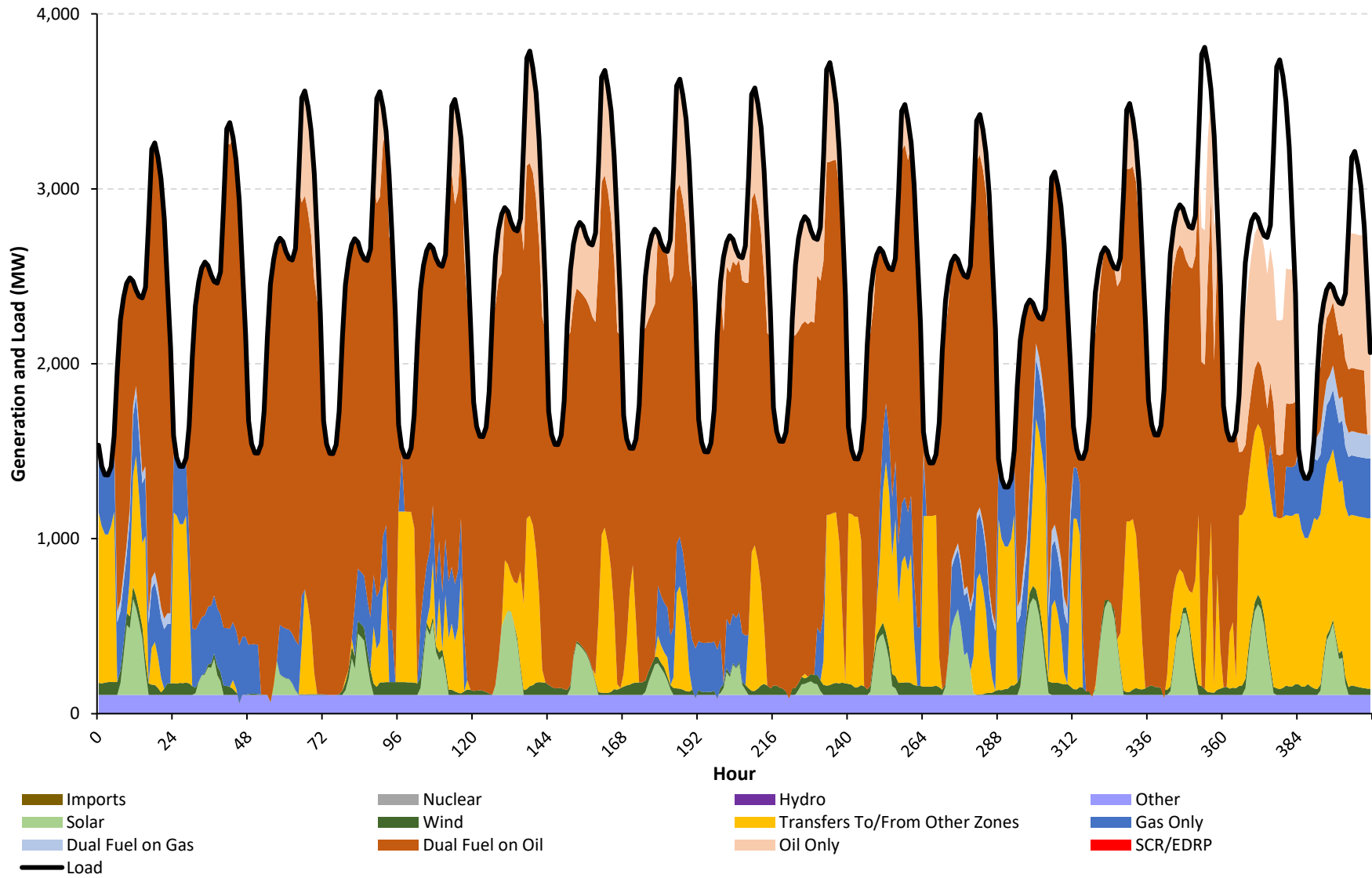
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 7 No Refill



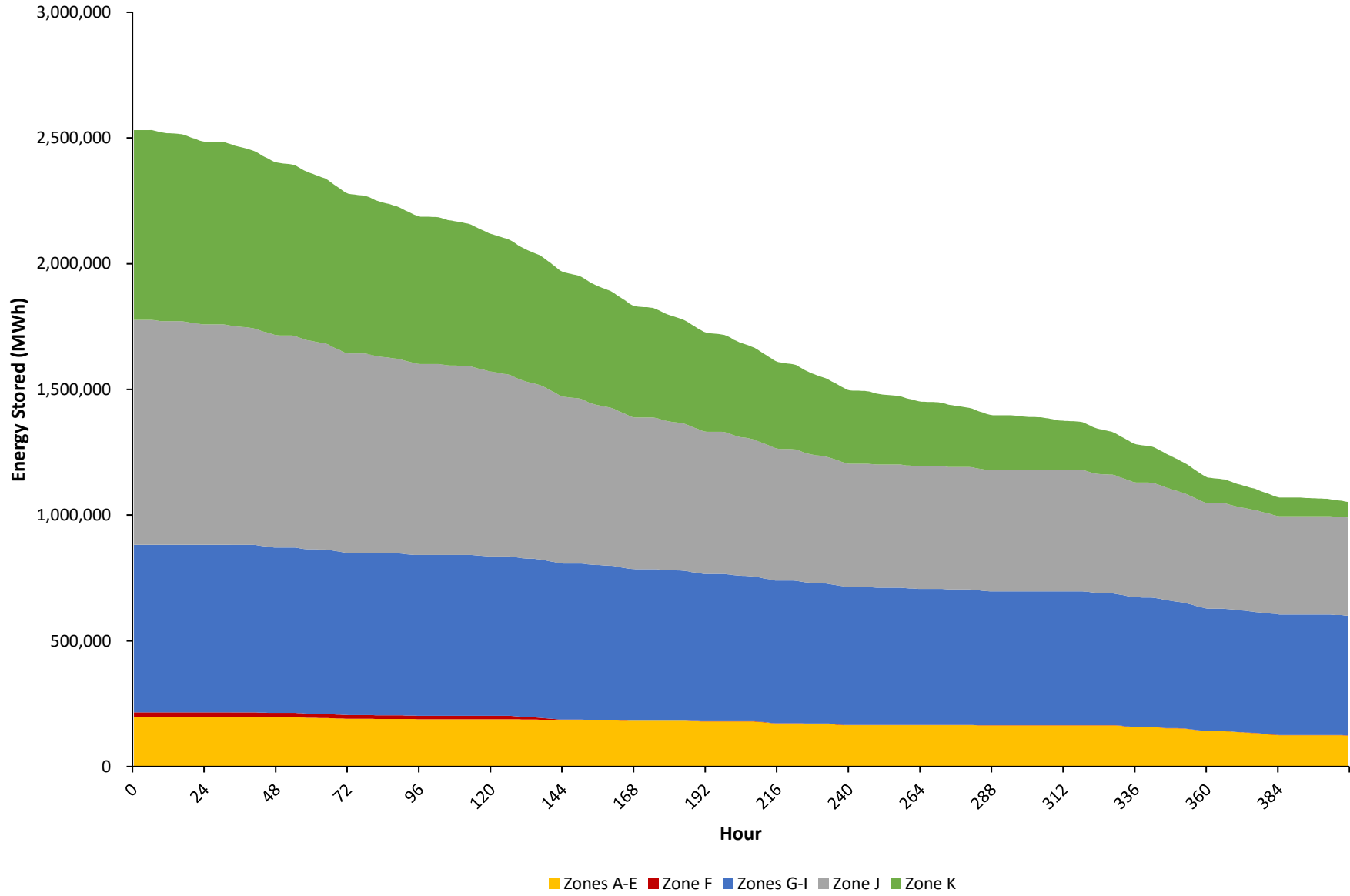
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 7 No Refill

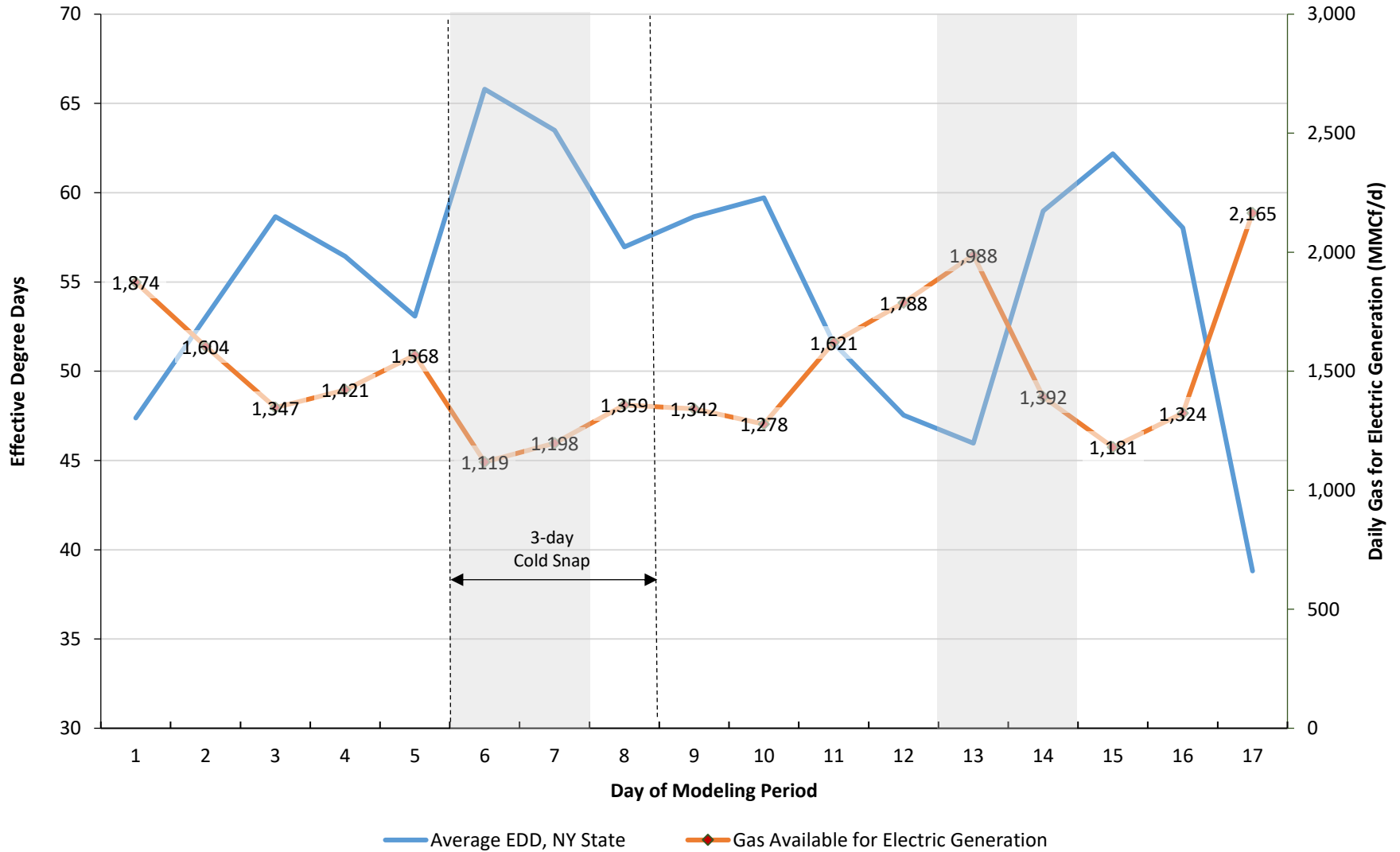


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

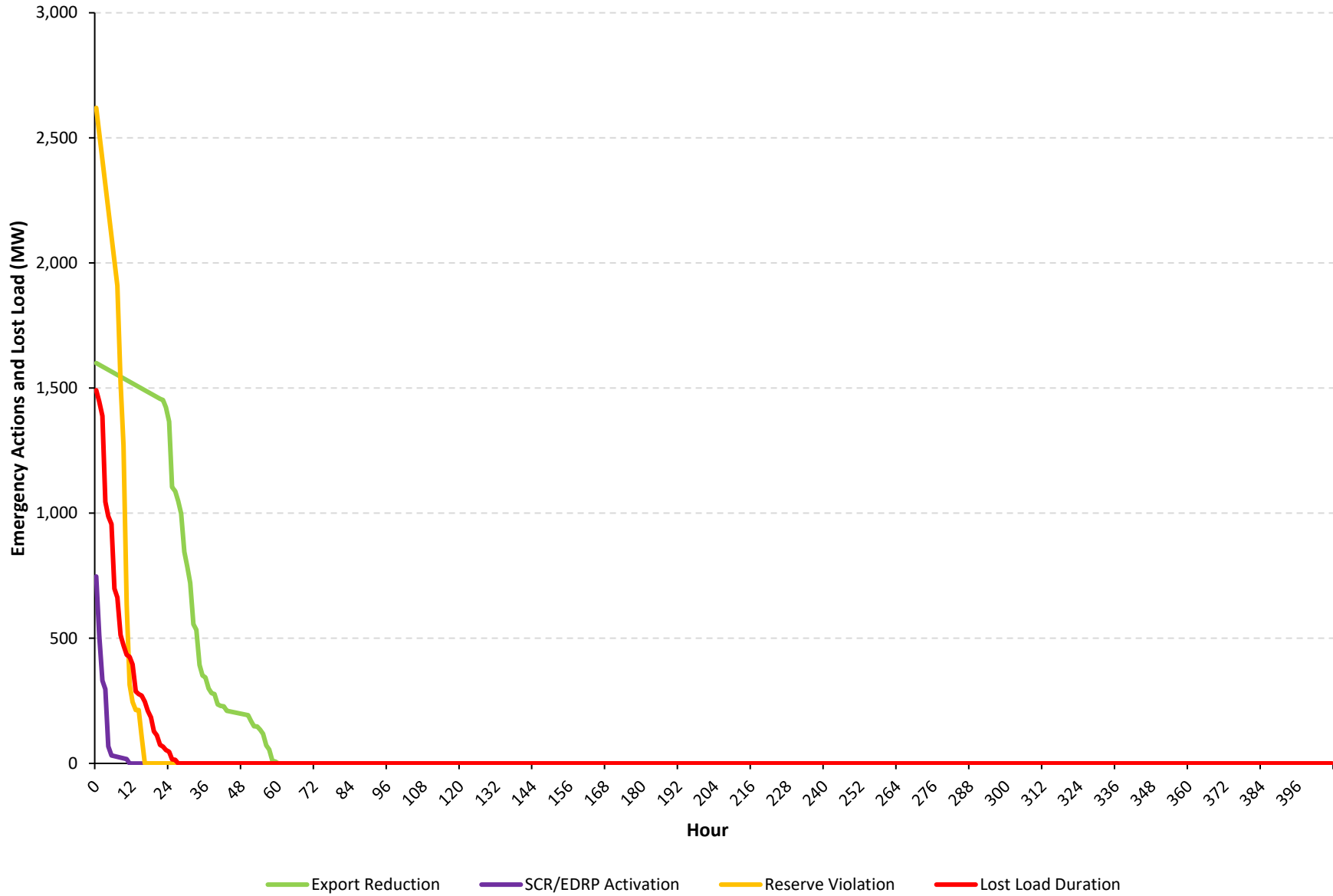
Scenario 4 - PD 7 No Refill



Notes:

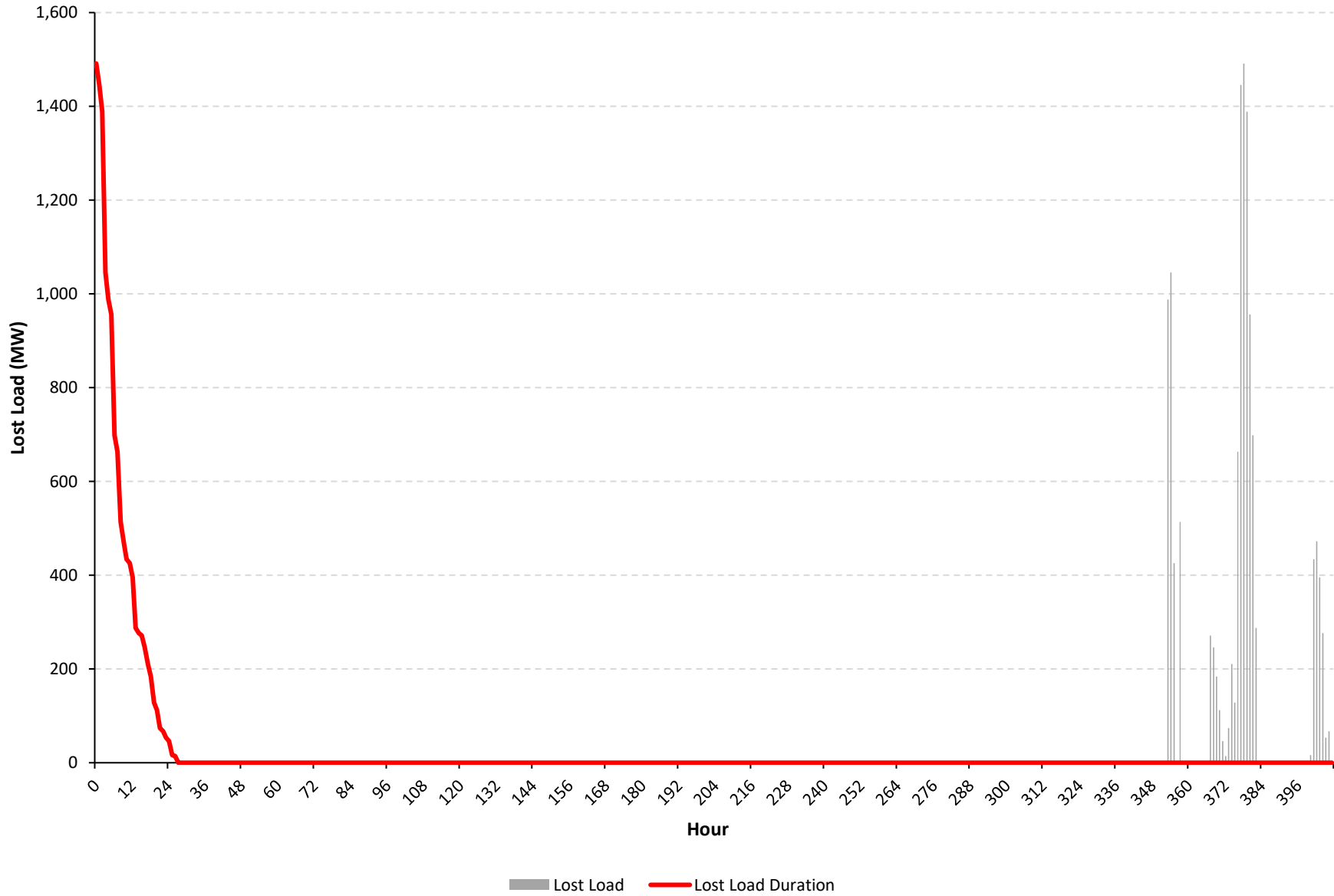
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 4 - PD 7 No Refill



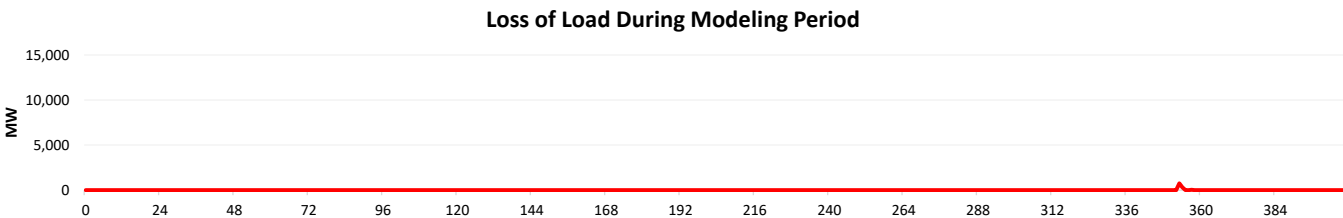
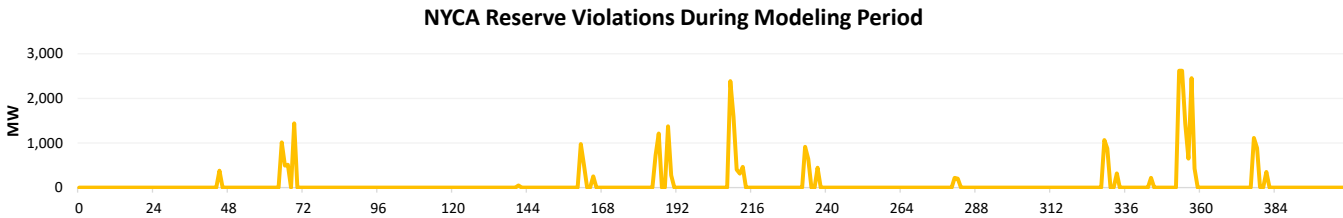
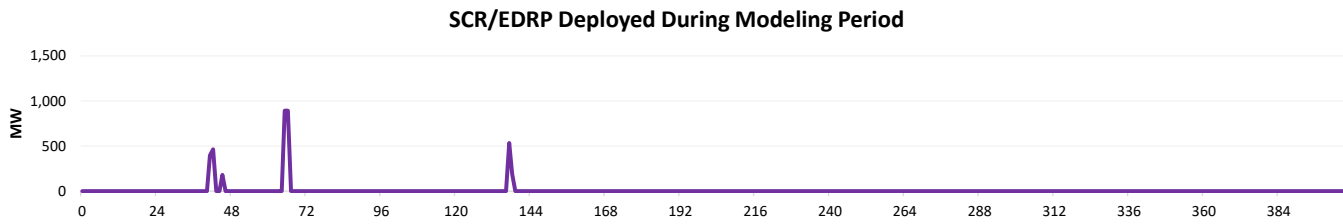
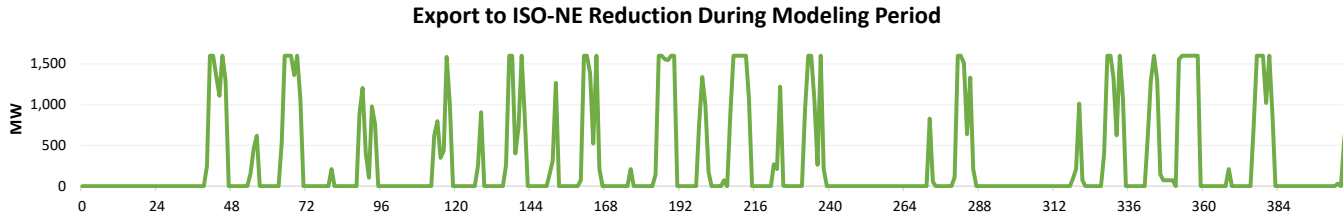
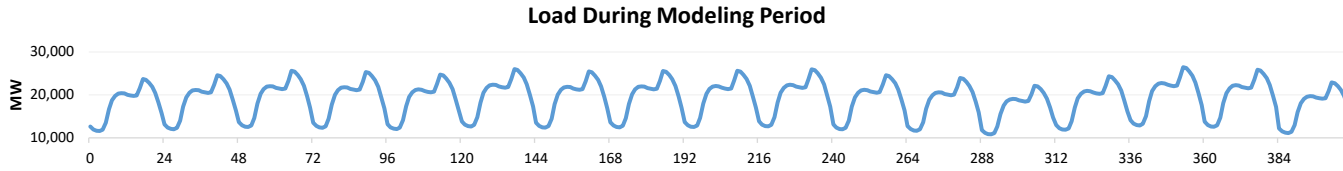
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	127
Total MWh	122,446
Avg. MW	300.1

SCR Deployment	
Total Hrs.	7
Total MWh	3,549
Avg. MW	8.7

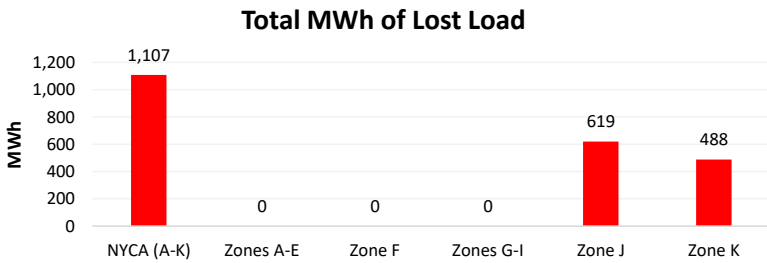
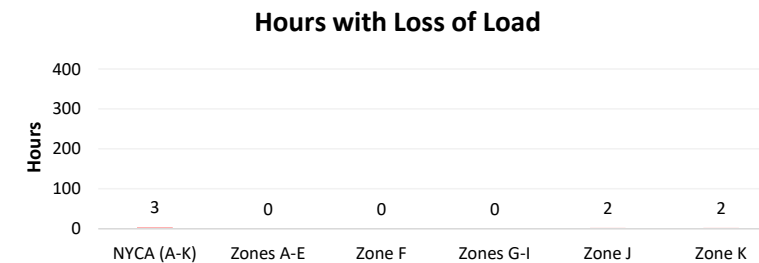
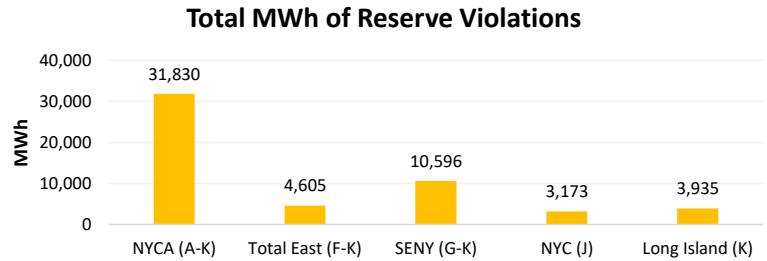
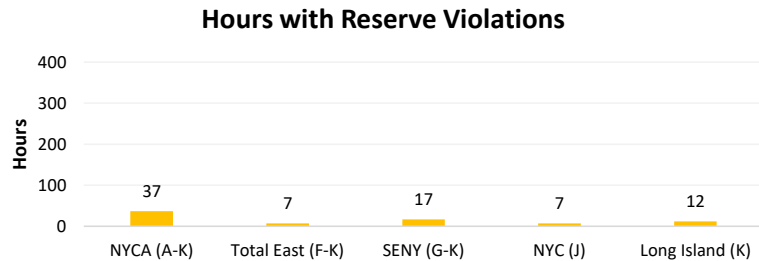
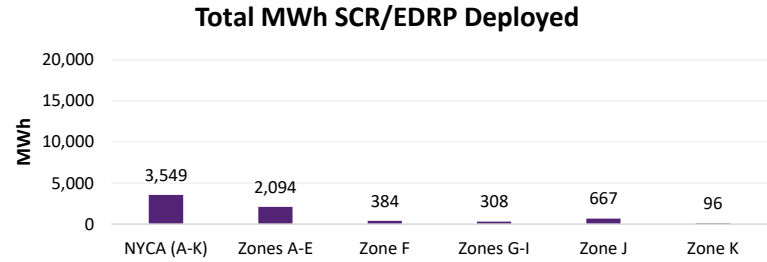
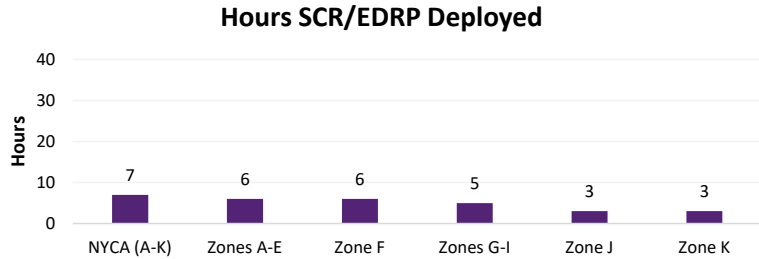
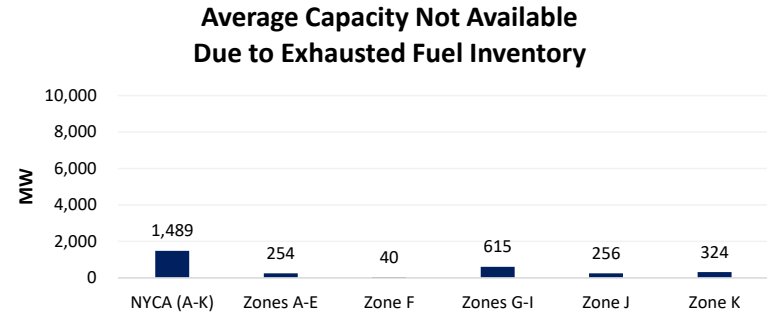
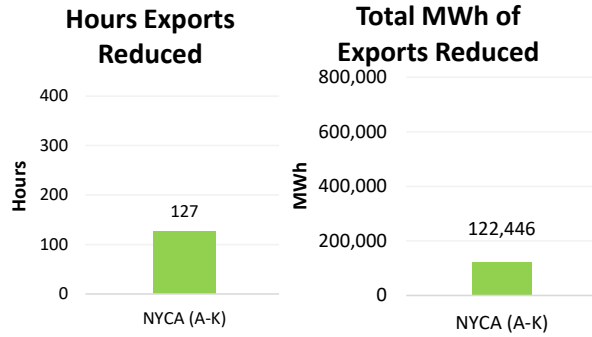
Reserve Violations	
Total Hrs.	37
Total MWh	31,830
Avg. MW	78.0
First Hour with Viol.	45
First Hour, Zone K	65

Loss of Load	
Total Hrs.	3
Total MWh	1,107
Avg. MW	2.7
First Hour with Losses	353
First Hour, Zone K	353

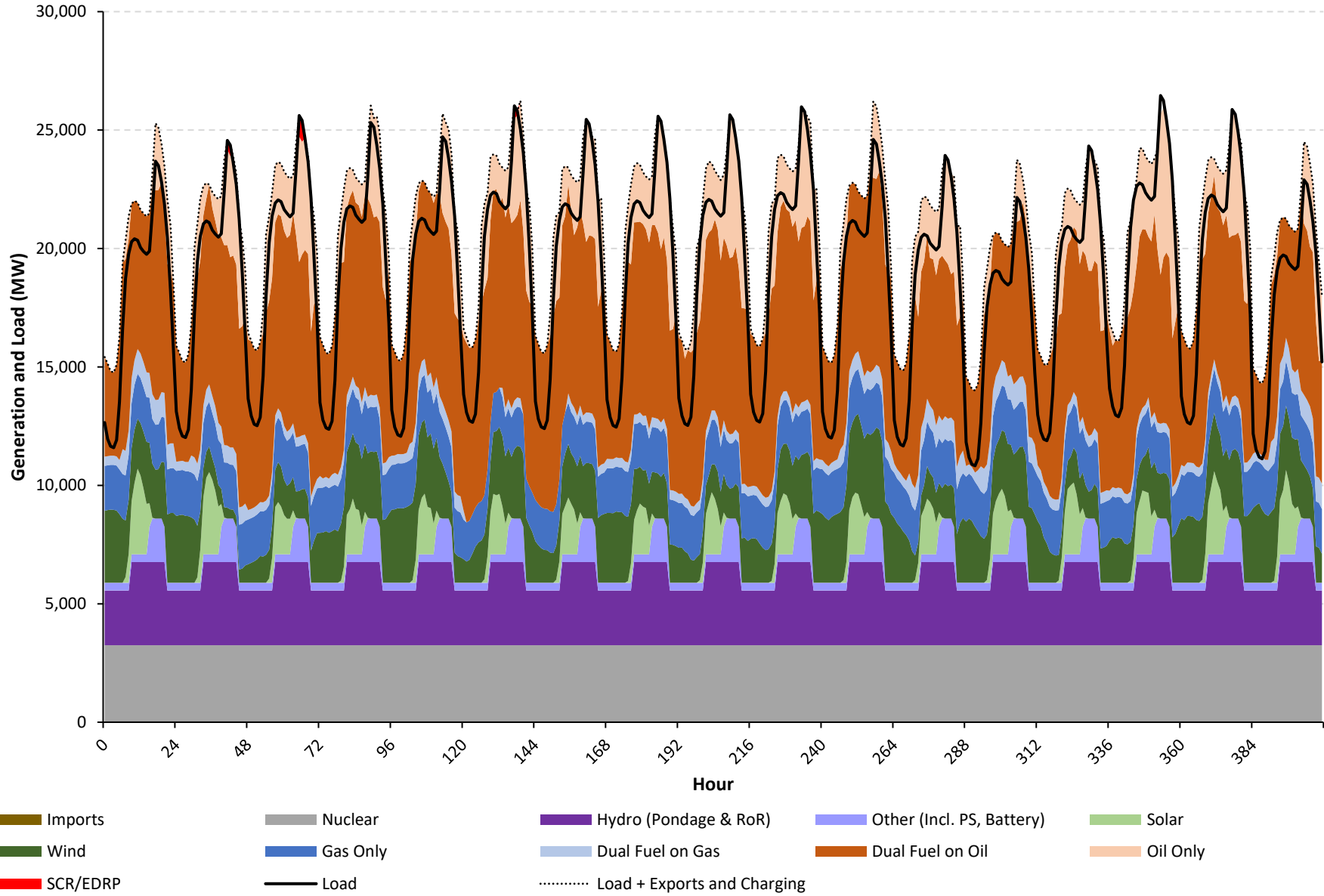
Full Period Results Summary

Case Name: Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)

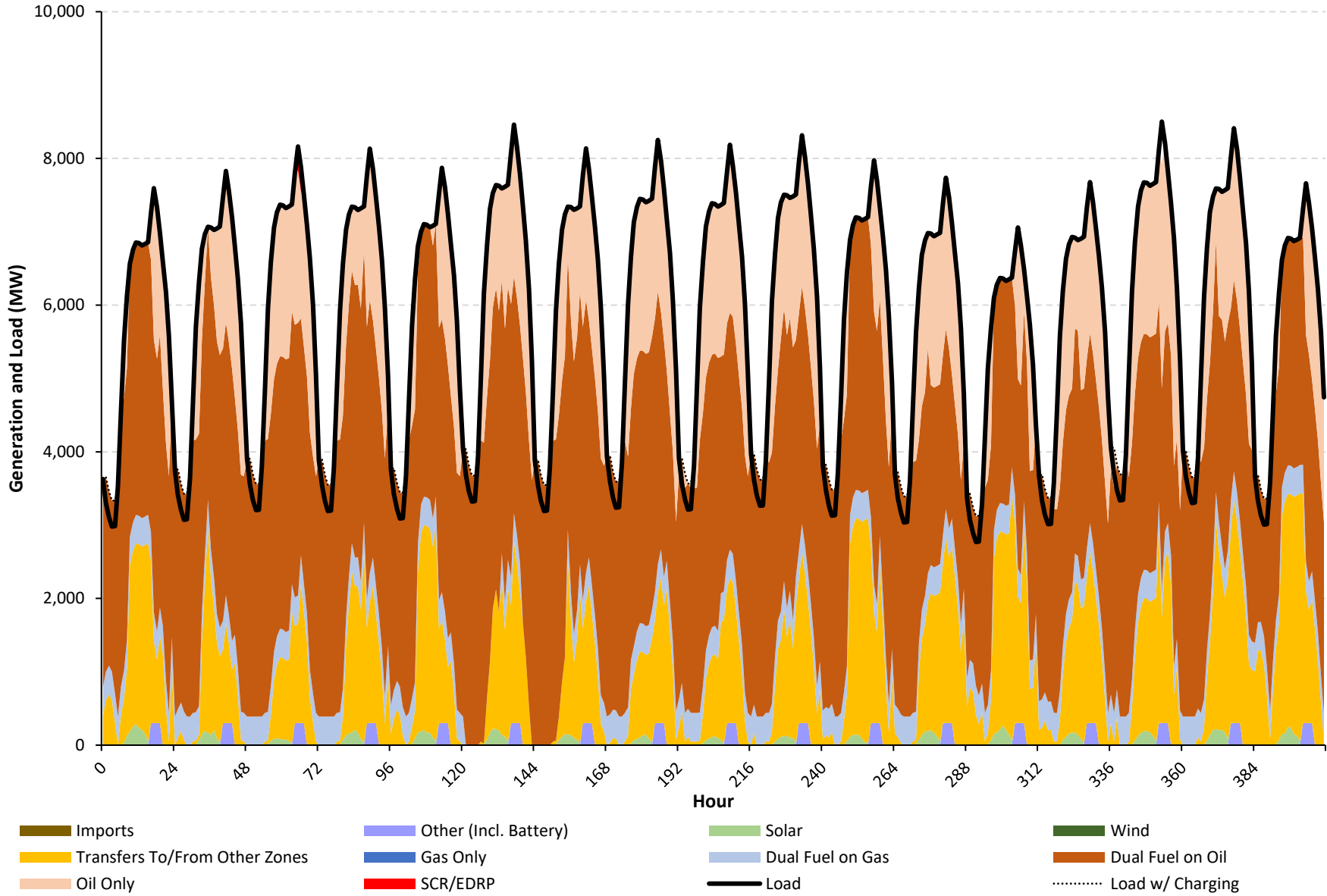
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



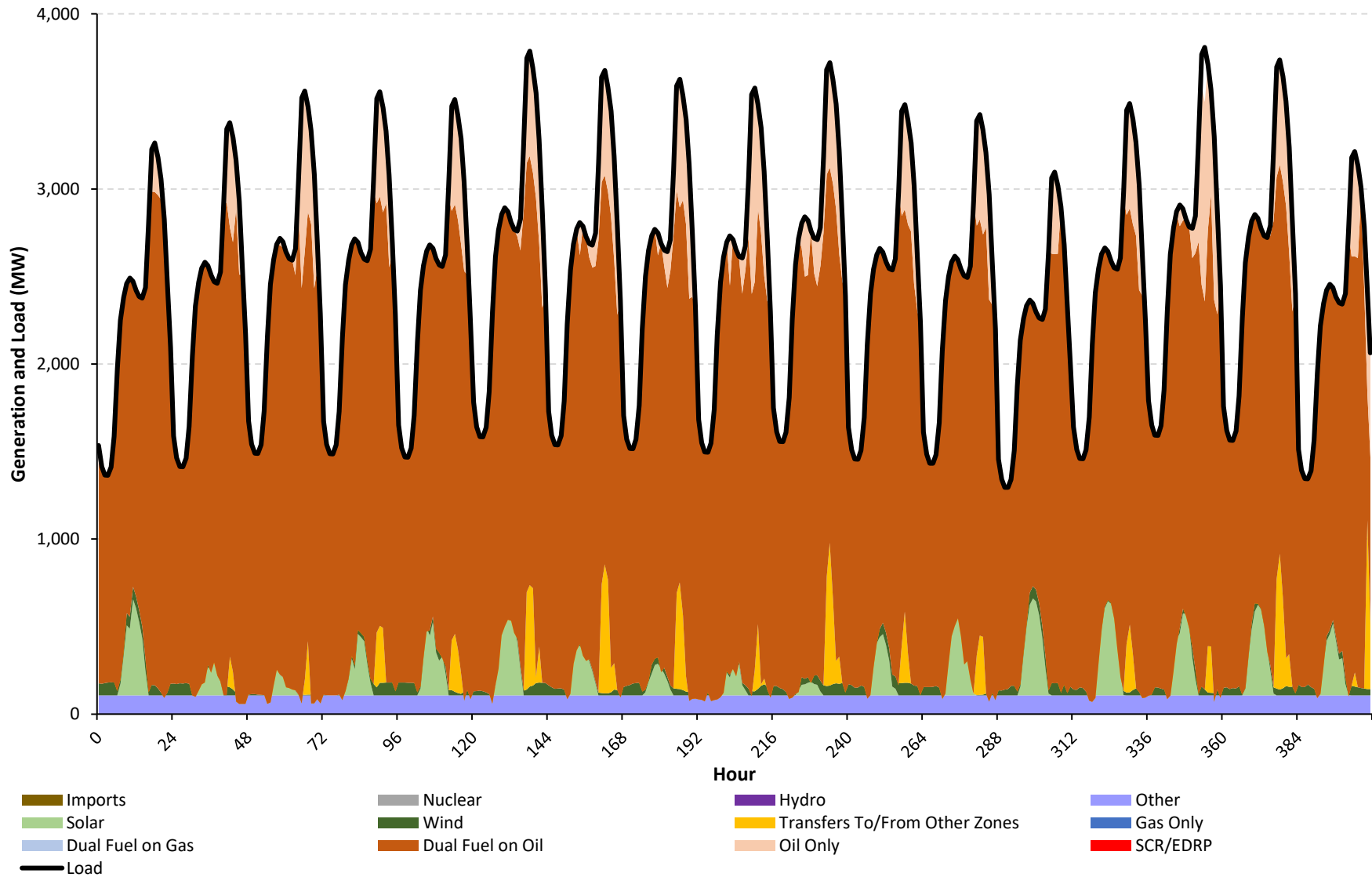
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



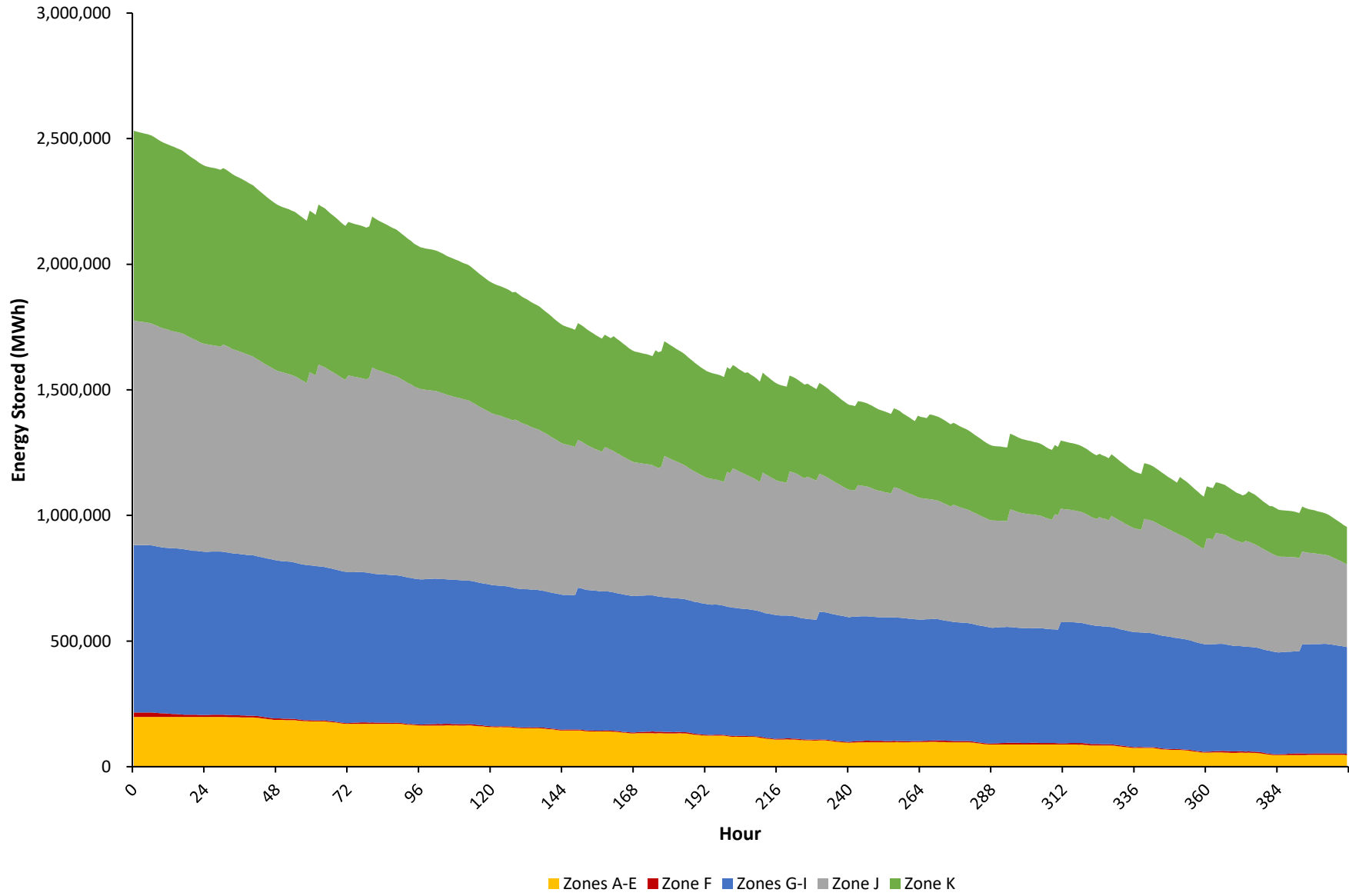
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)

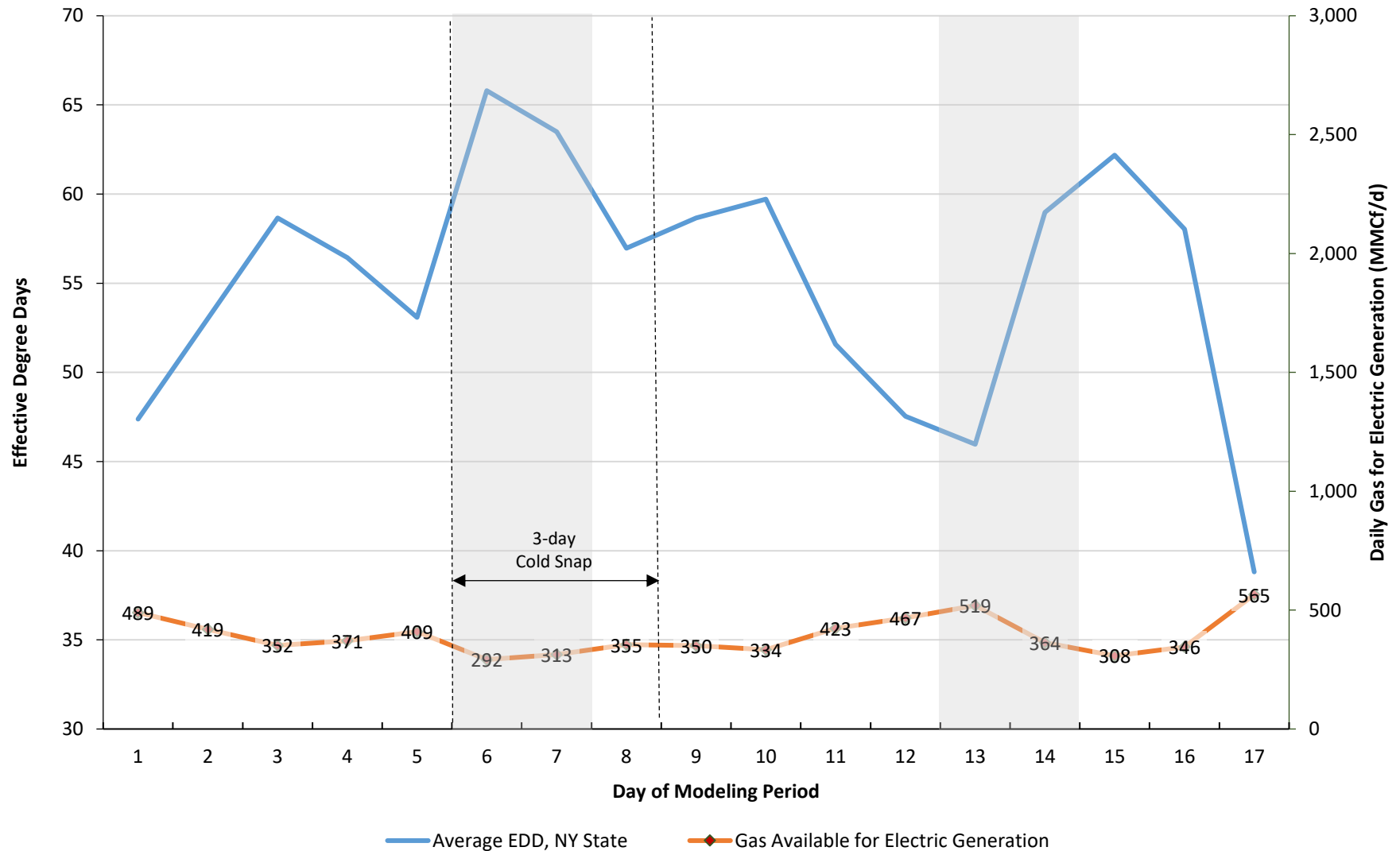


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

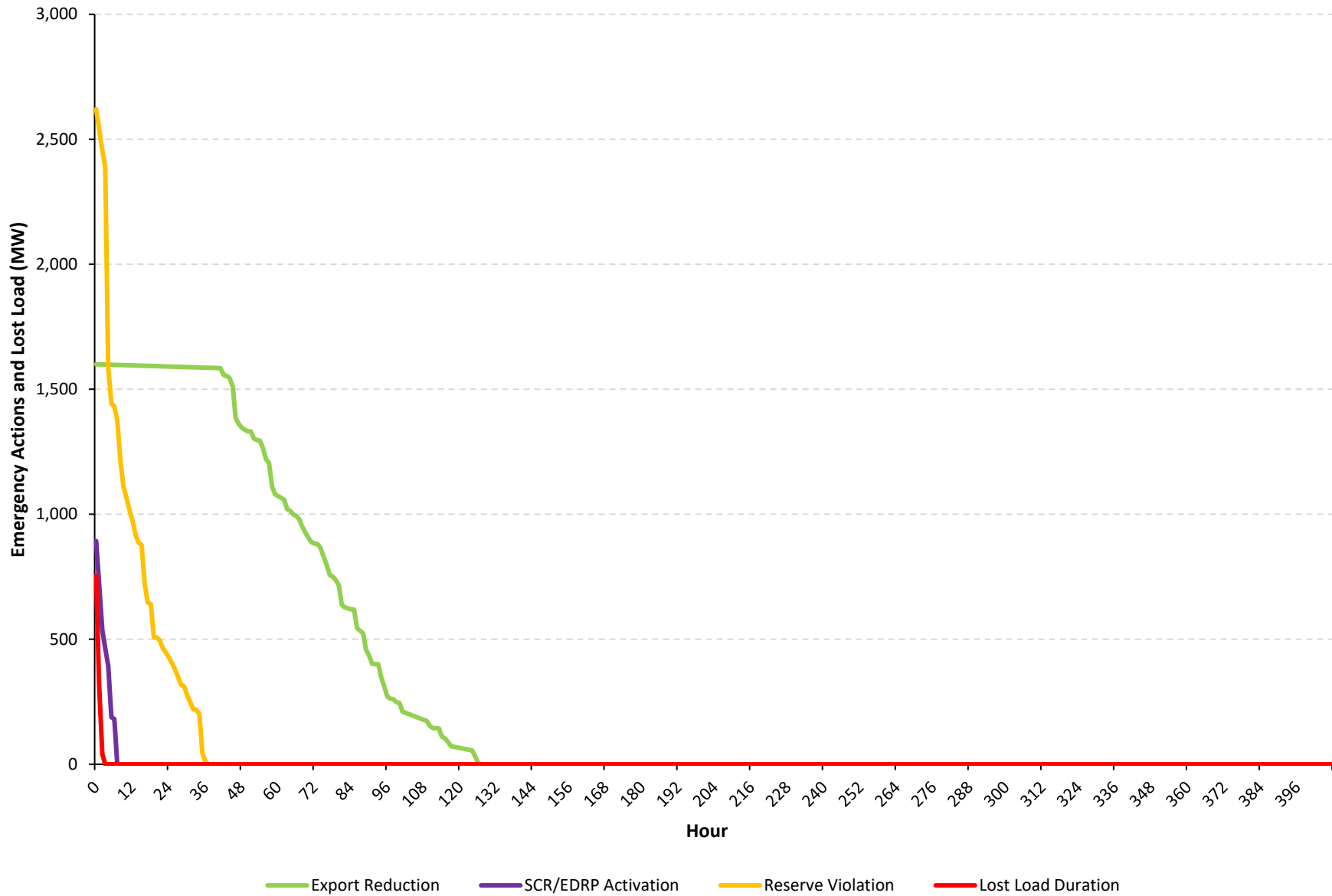
Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



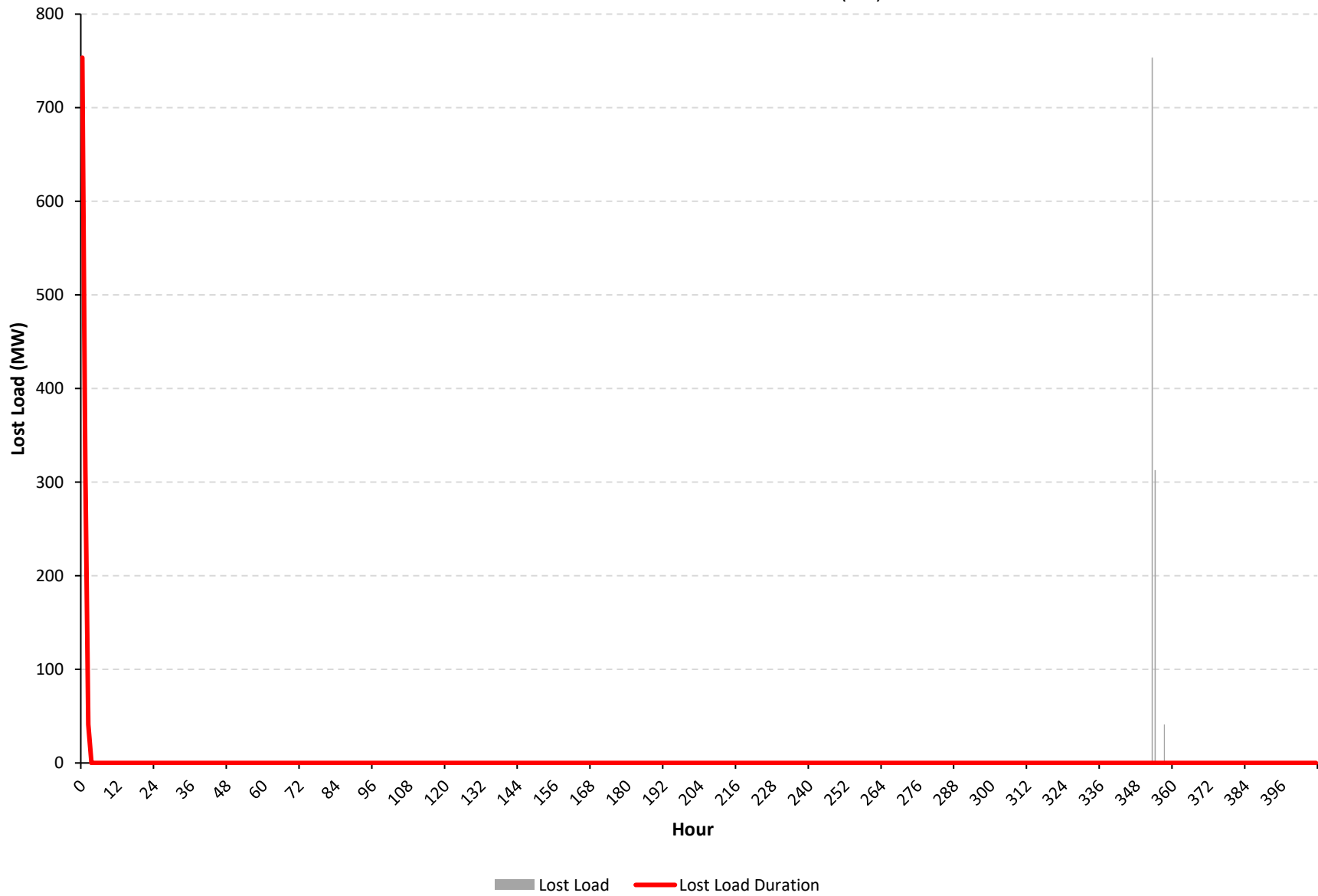
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 8 Non-Firm Gas Unavailable (F-K)



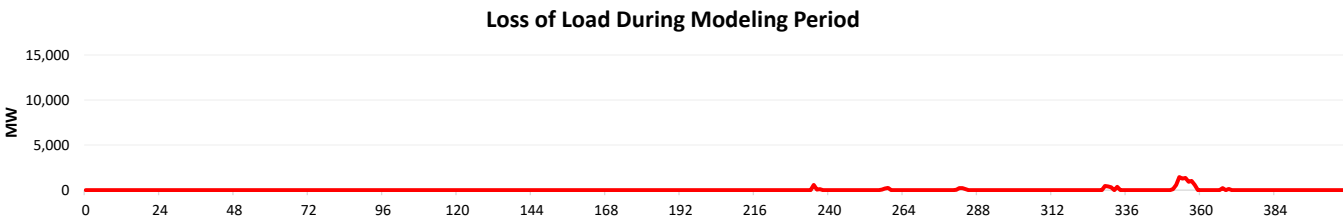
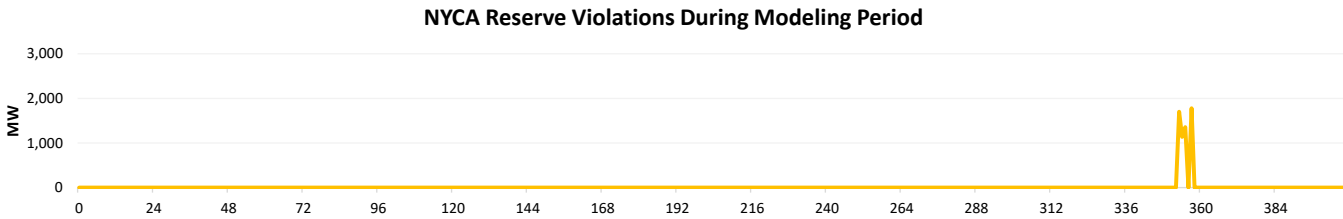
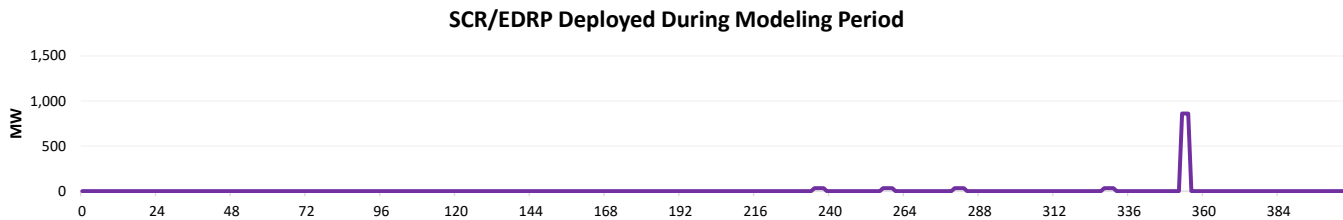
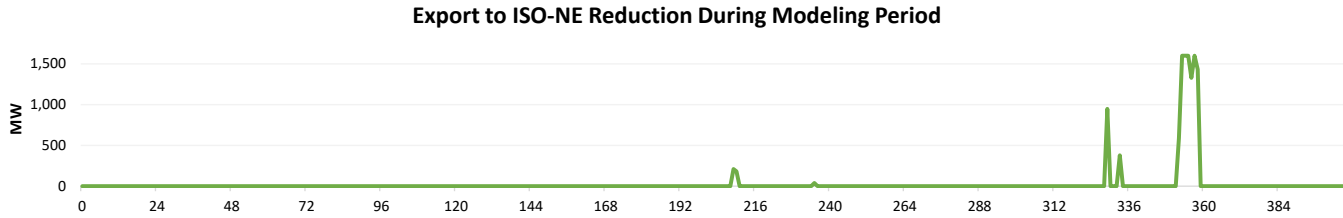
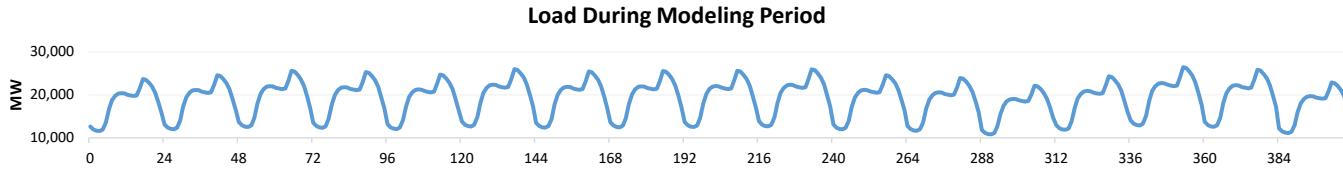
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 4 - PD 9 Low Fuel Inventory

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	12
Total MWh	11,502
Avg. MW	28.2

SCR Deployment	
Total Hrs.	19
Total MWh	3,095
Avg. MW	7.6

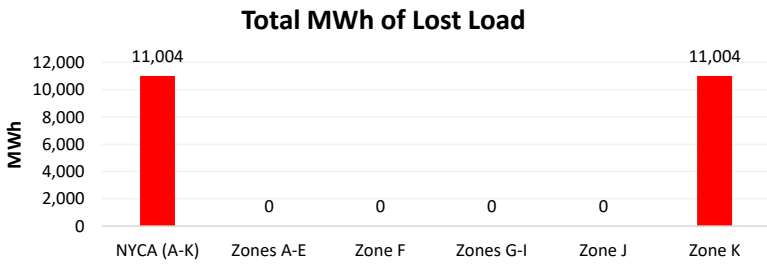
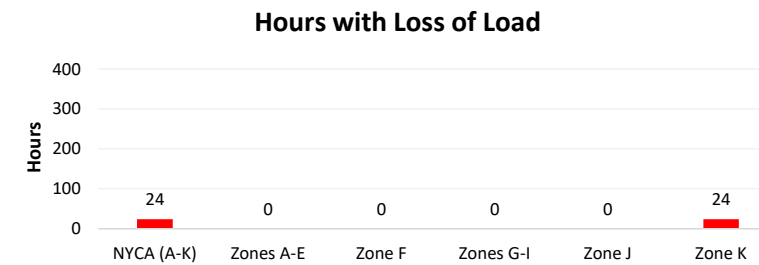
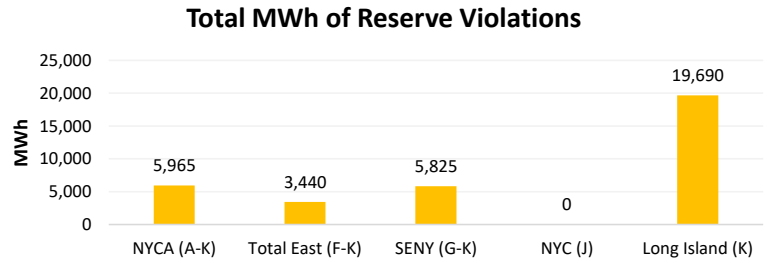
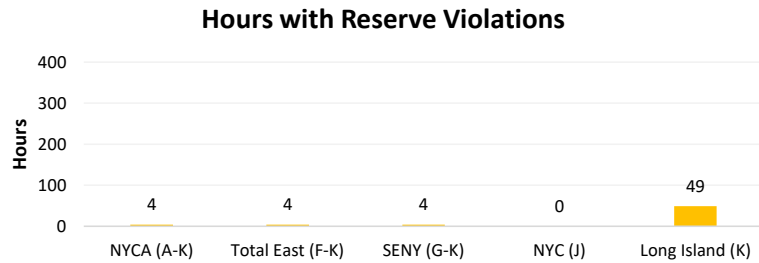
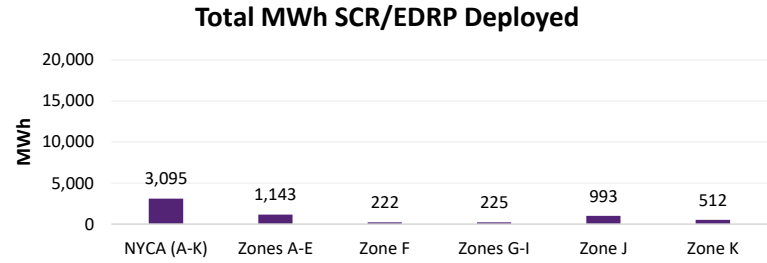
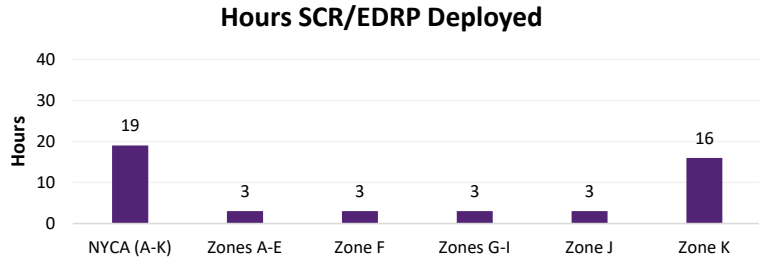
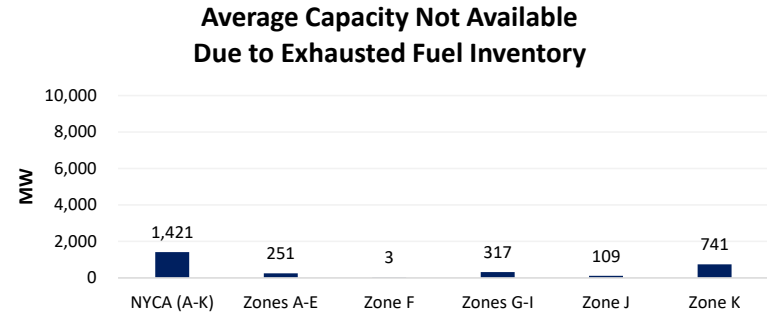
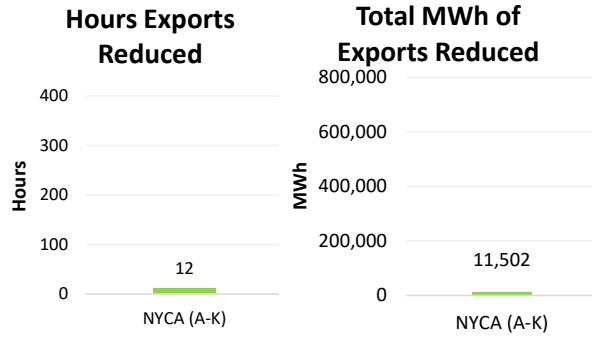
Reserve Violations	
Total Hrs.	4
Total MWh	5,965
Avg. MW	14.6
First Hour with Viol.	235
First Hour, Zone K	235

Loss of Load	
Total Hrs.	24
Total MWh	11,004
Avg. MW	27.0
First Hour with Losses	235
First Hour, Zone K	235

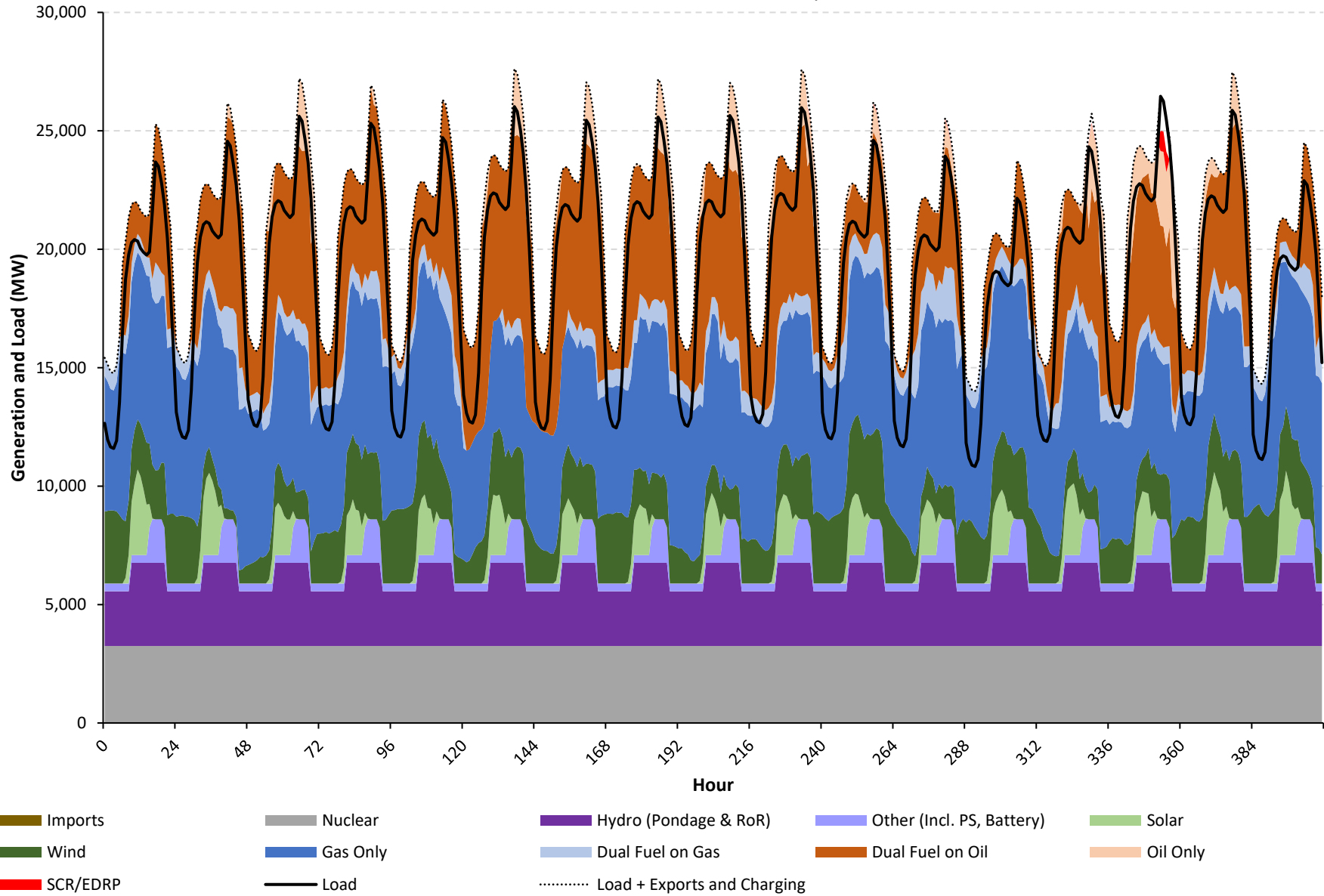
Full Period Results Summary

Case Name: Scenario 4 - PD 9 Low Fuel Inventory

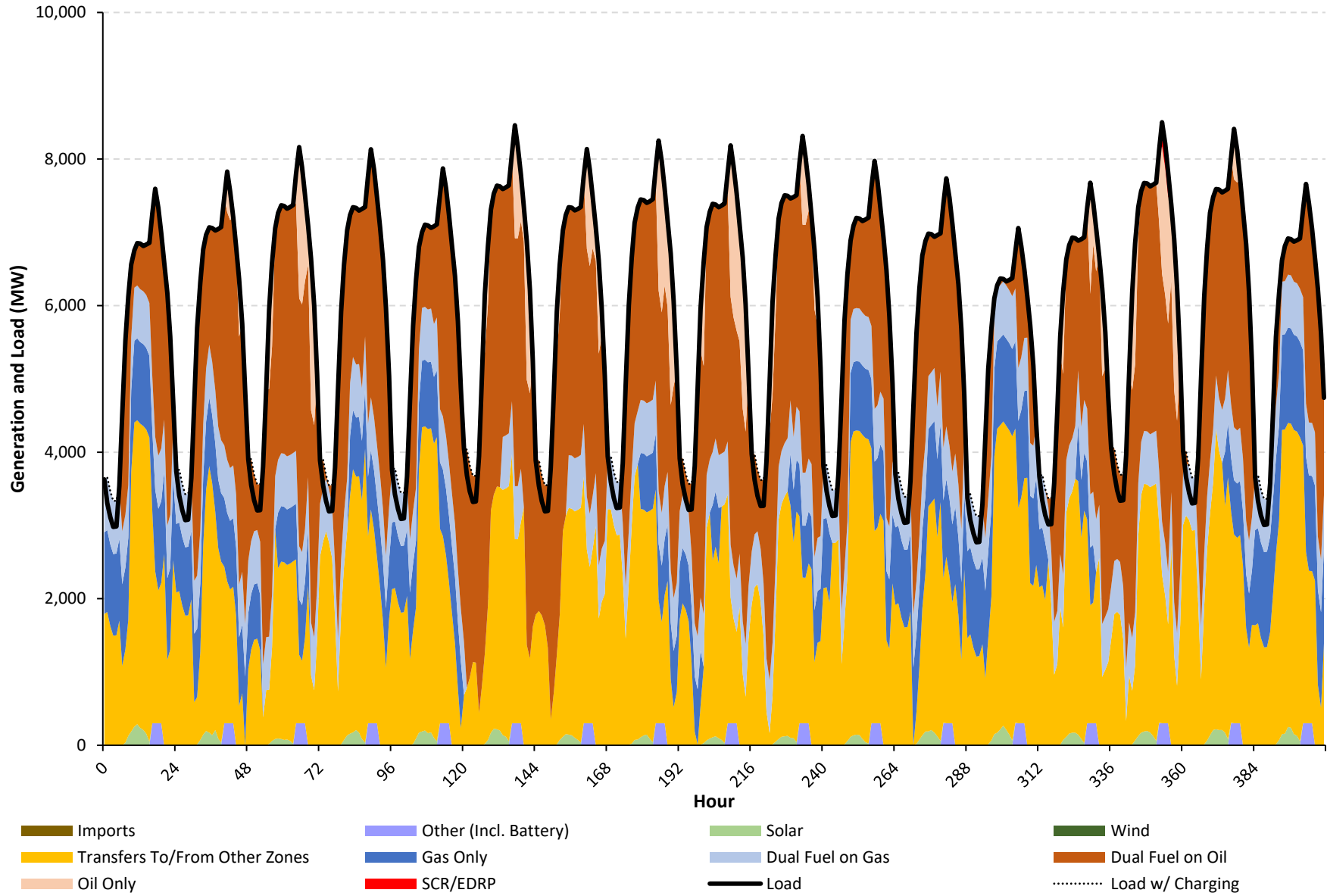
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



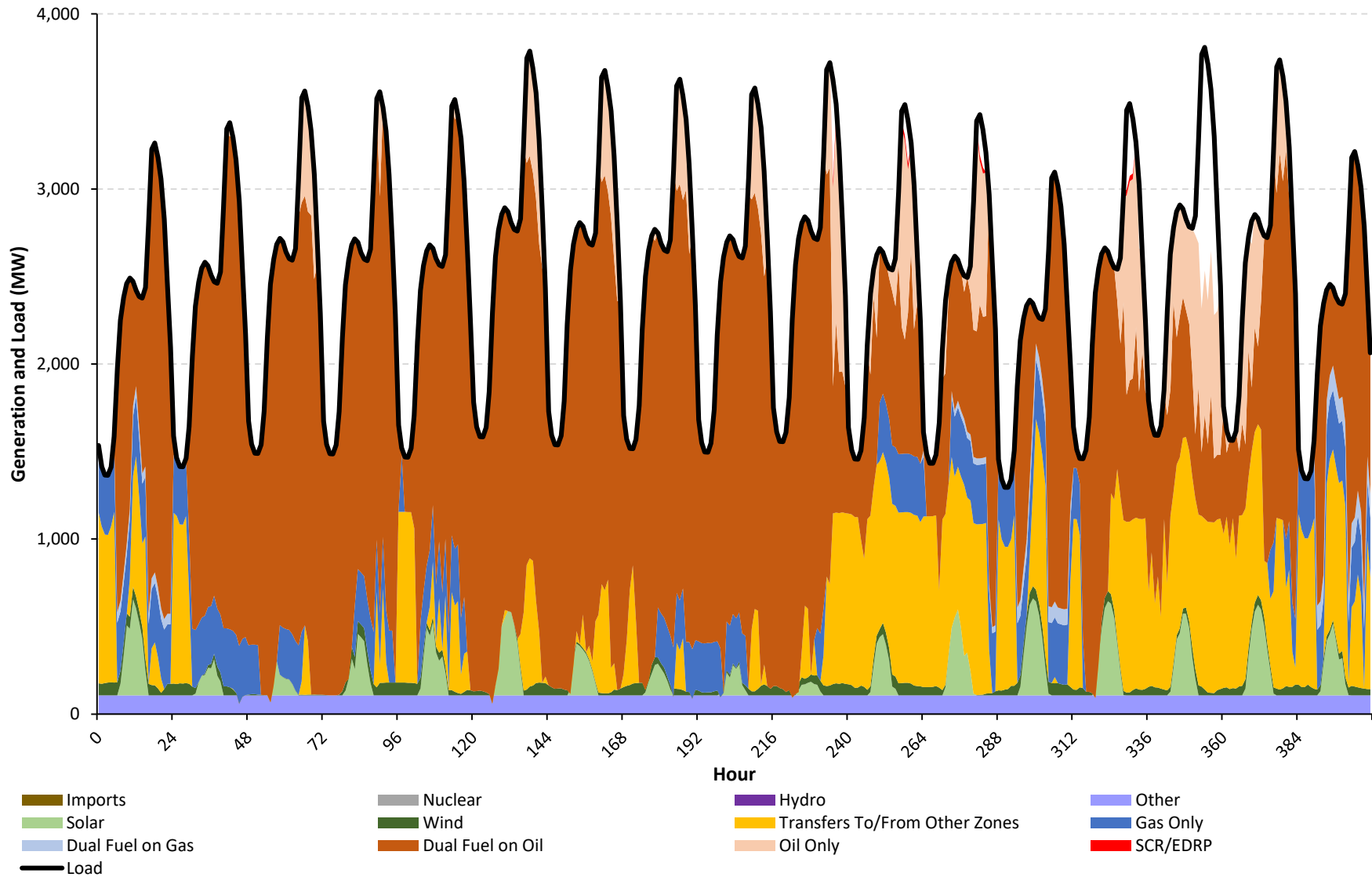
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 9 Low Fuel Inventory



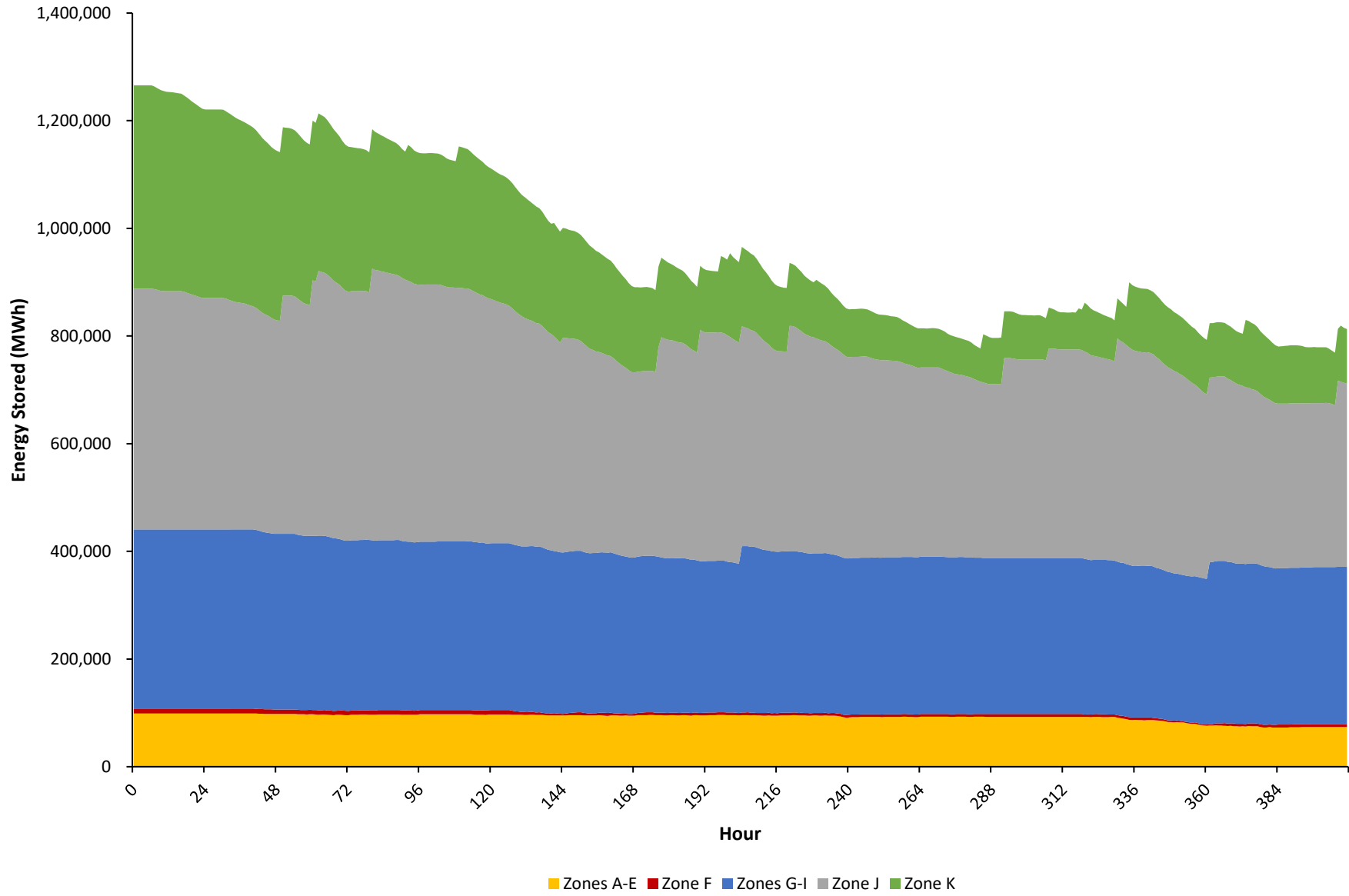
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 9 Low Fuel Inventory



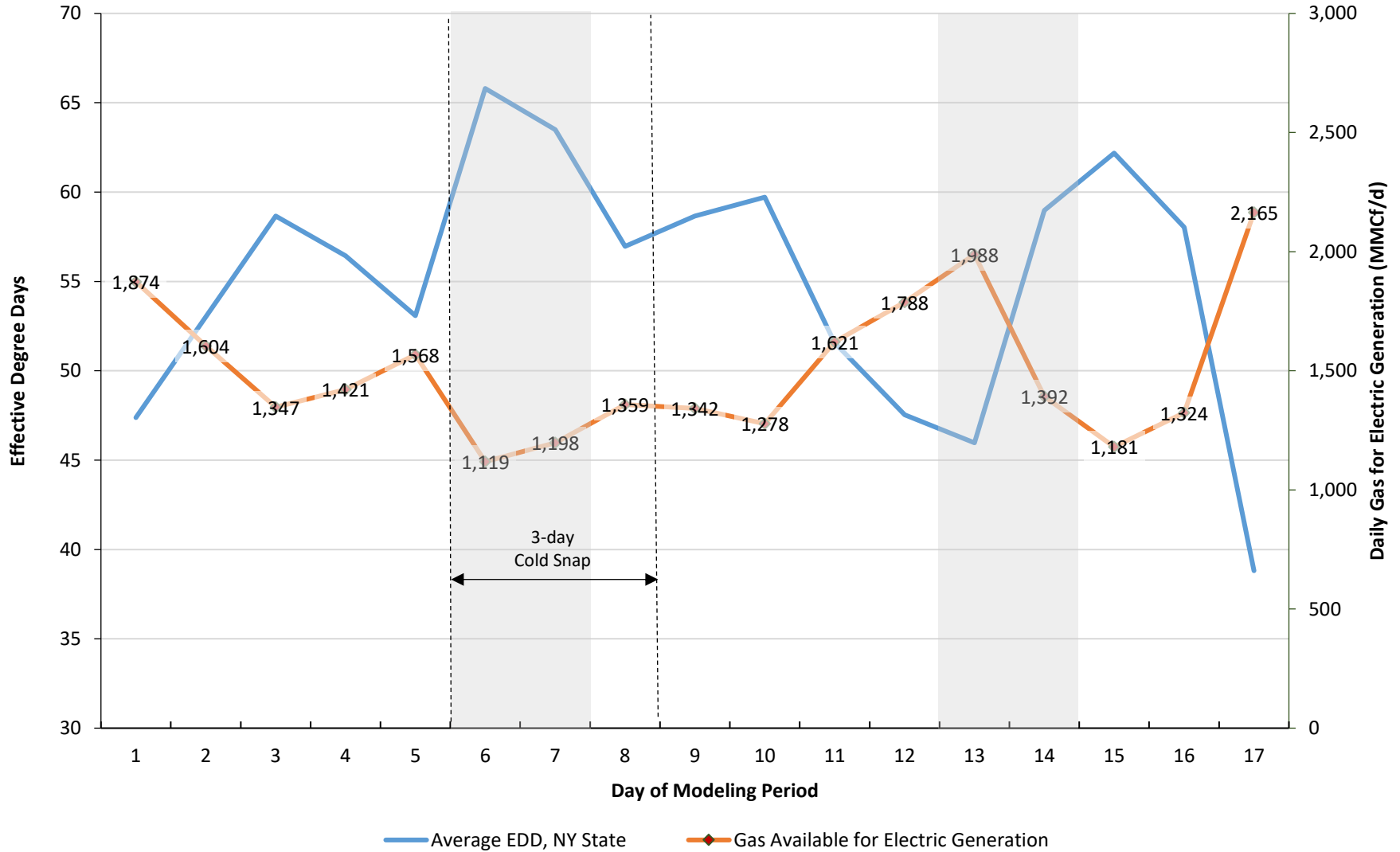
Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 9 Low Fuel Inventory



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 9 Low Fuel Inventory



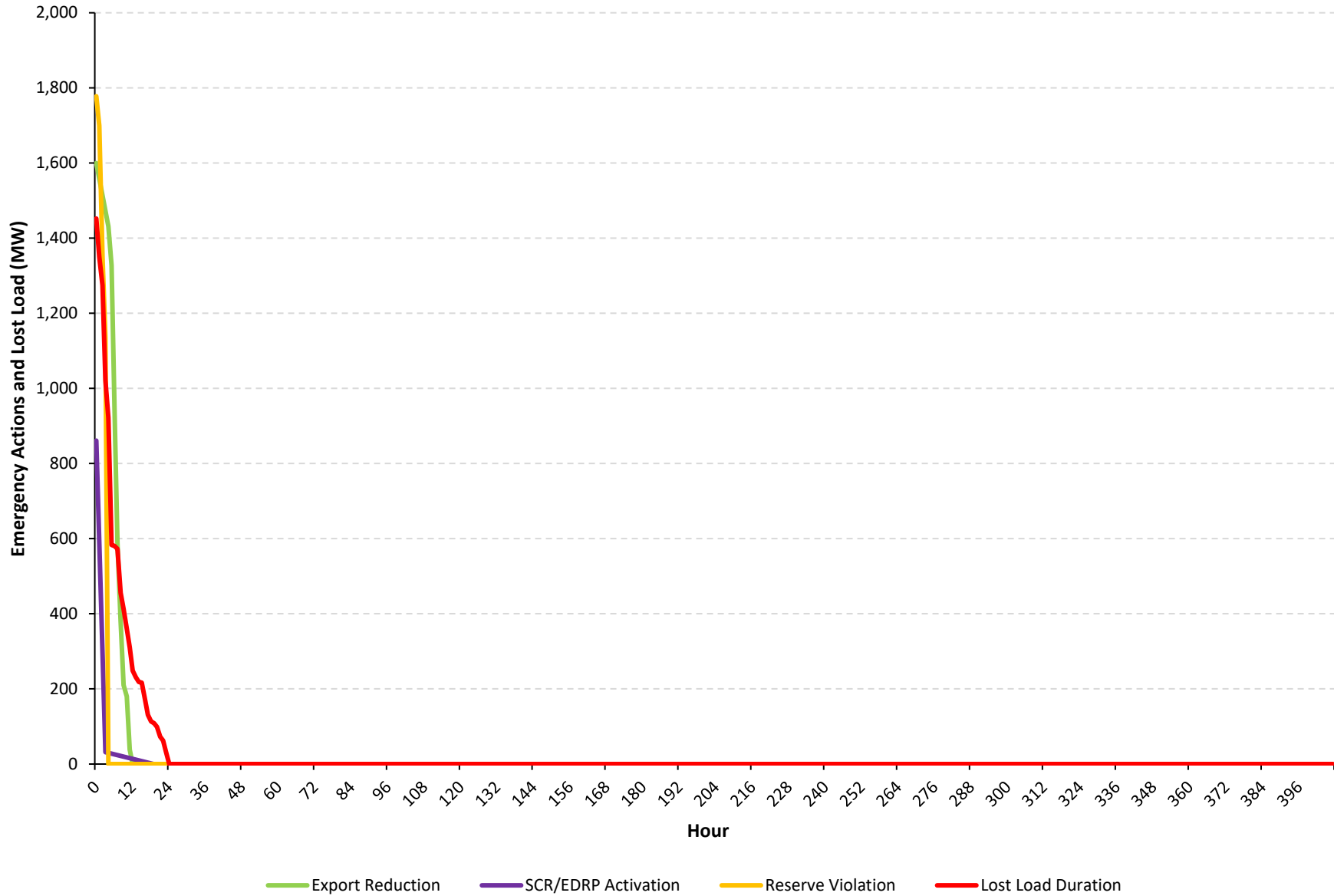
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 4 - PD 9 Low Fuel Inventory



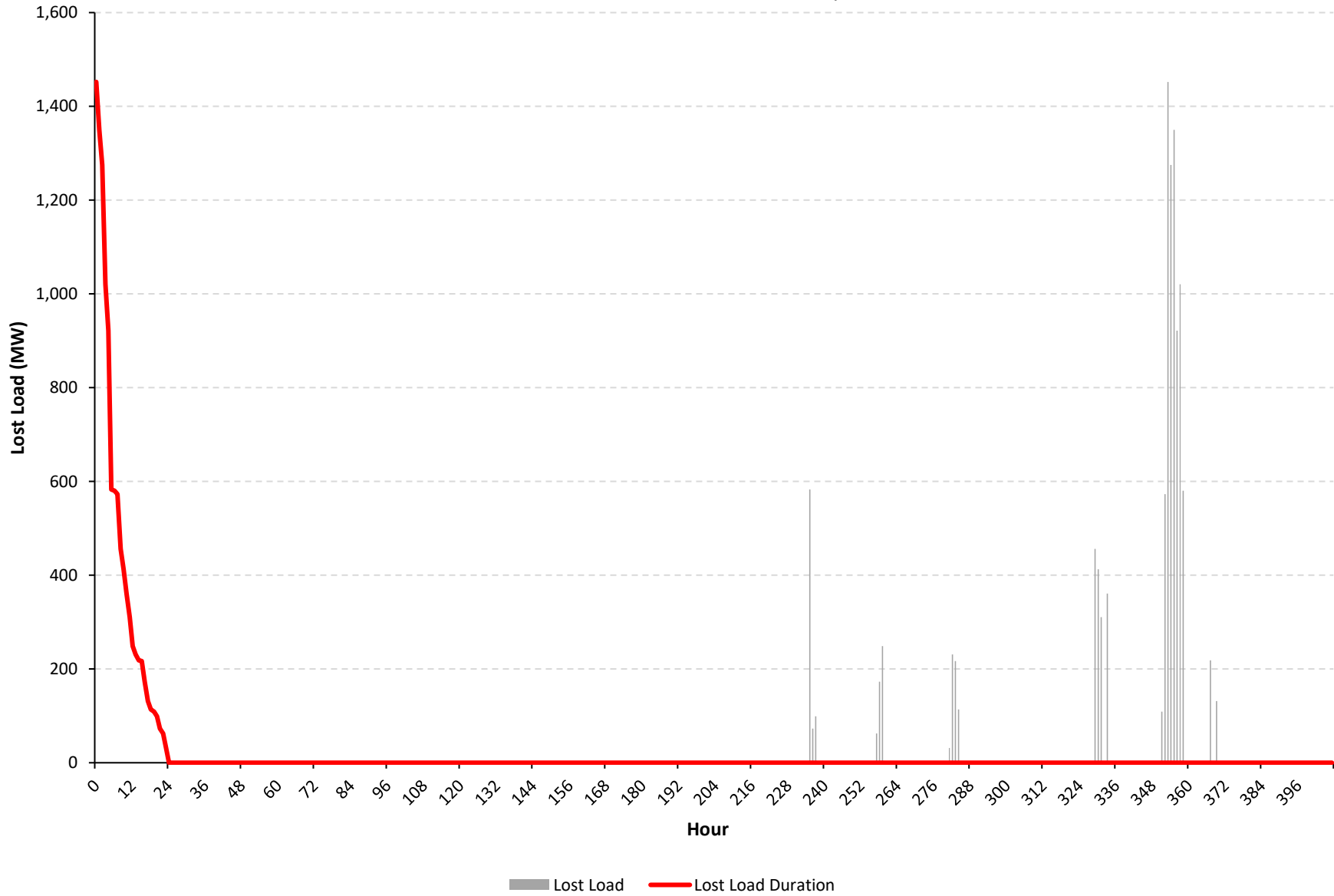
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 9 Low Fuel Inventory



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 9 Low Fuel Inventory



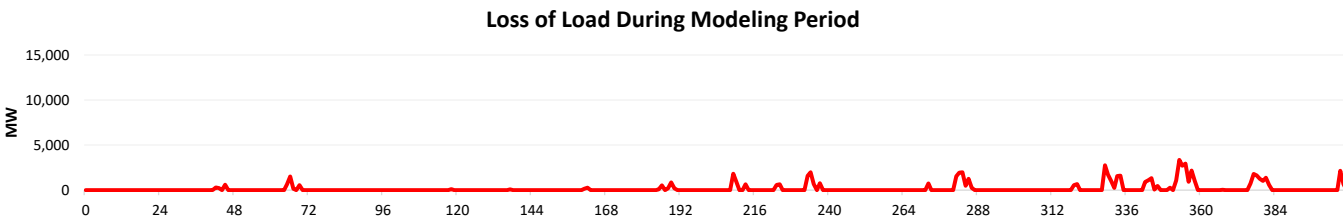
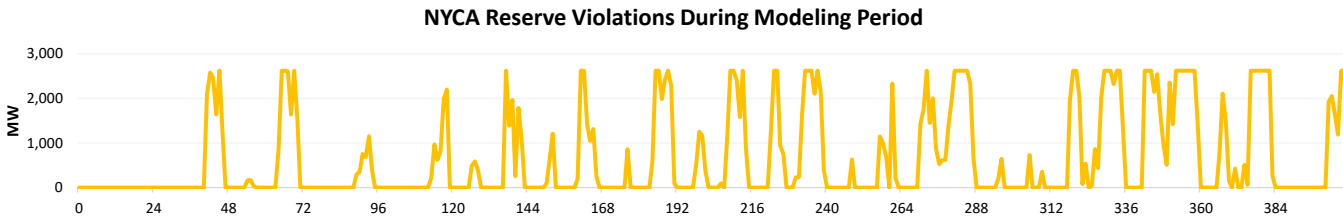
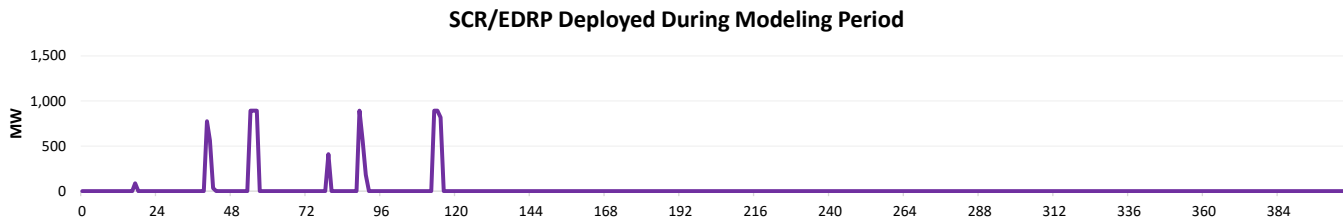
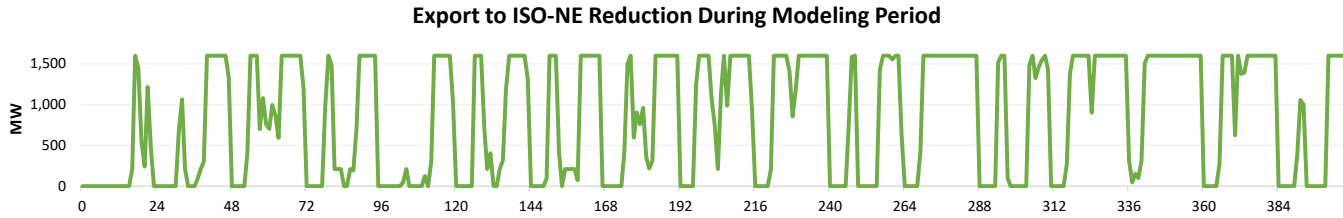
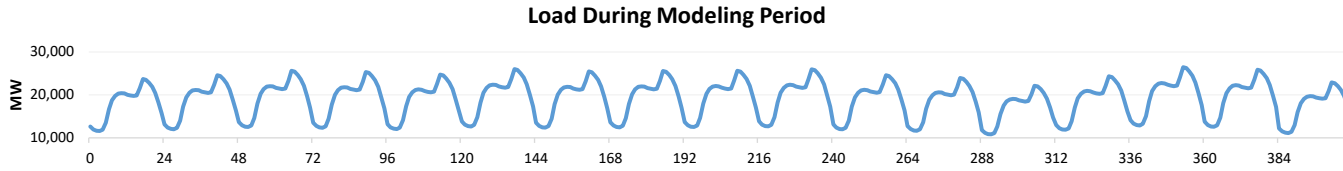
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	270
Total MWh	344,518
Avg. MW	844.4

SCR Deployment	
Total Hrs.	14
Total MWh	8,784
Avg. MW	21.5

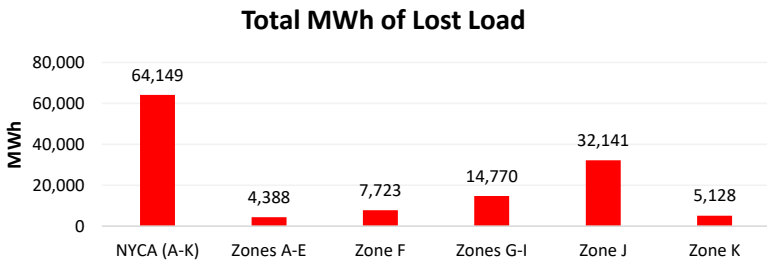
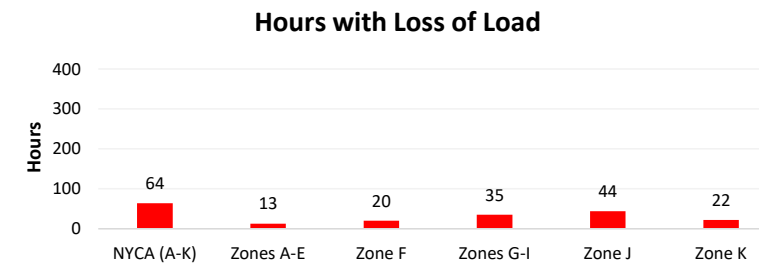
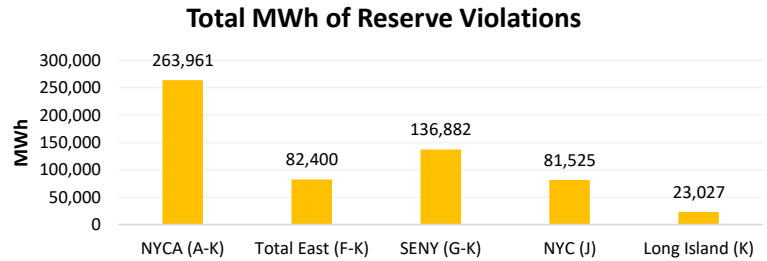
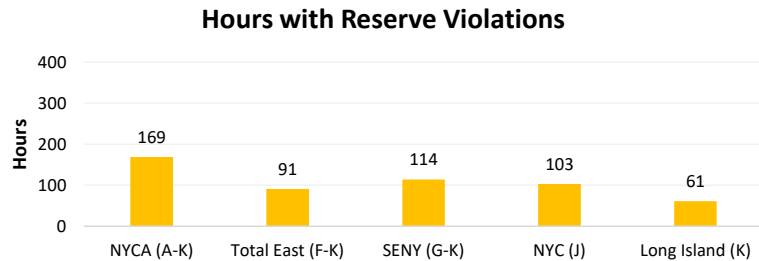
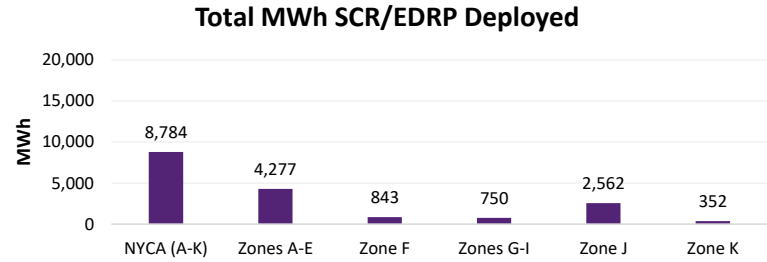
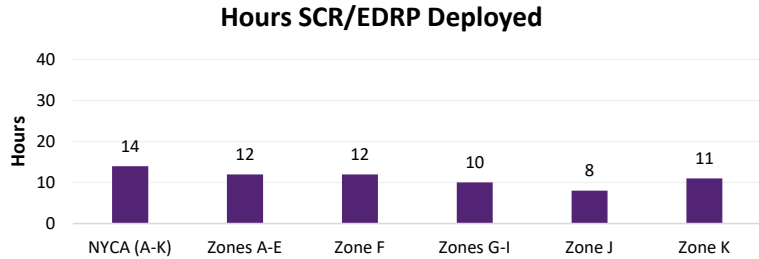
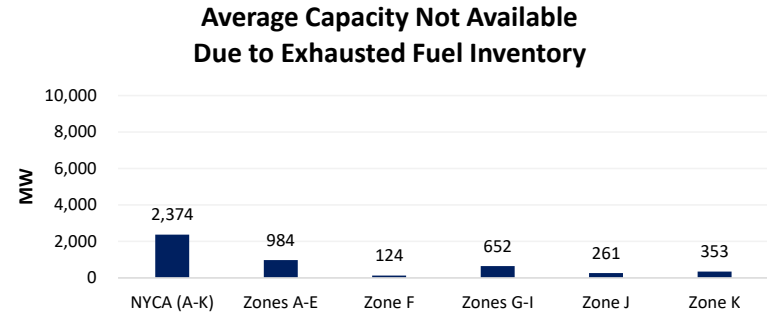
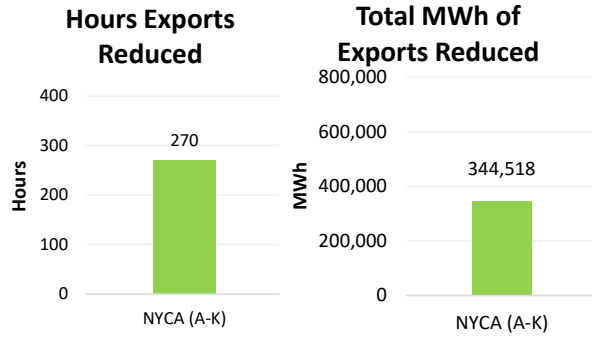
Reserve Violations	
Total Hrs.	169
Total MWh	263,961
Avg. MW	647.0
First Hour with Viol.	41
First Hour, Zone K	42

Loss of Load	
Total Hrs.	64
Total MWh	64,149
Avg. MW	157.2
First Hour with Losses	41
First Hour, Zone K	137

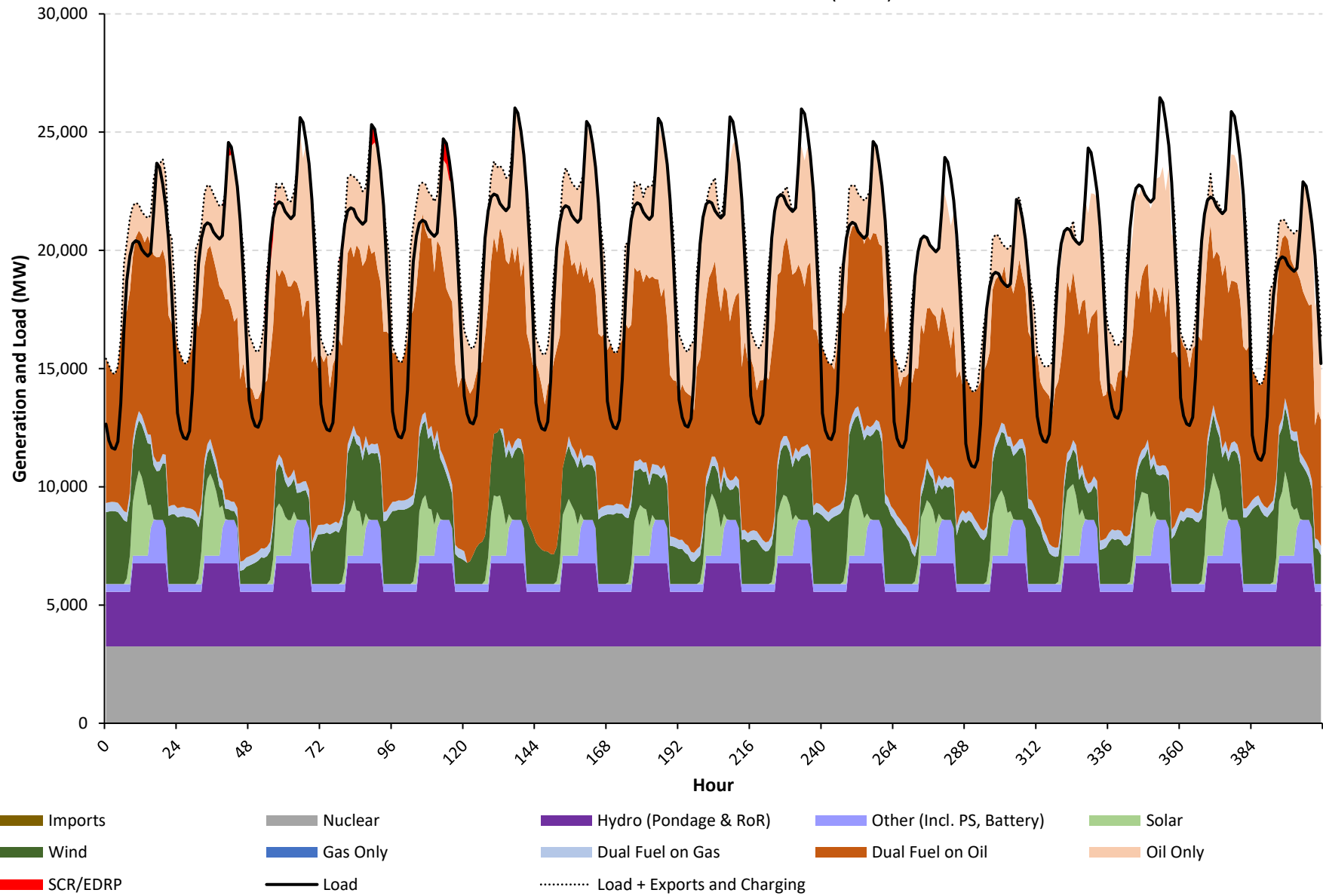
Full Period Results Summary

Case Name: Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)

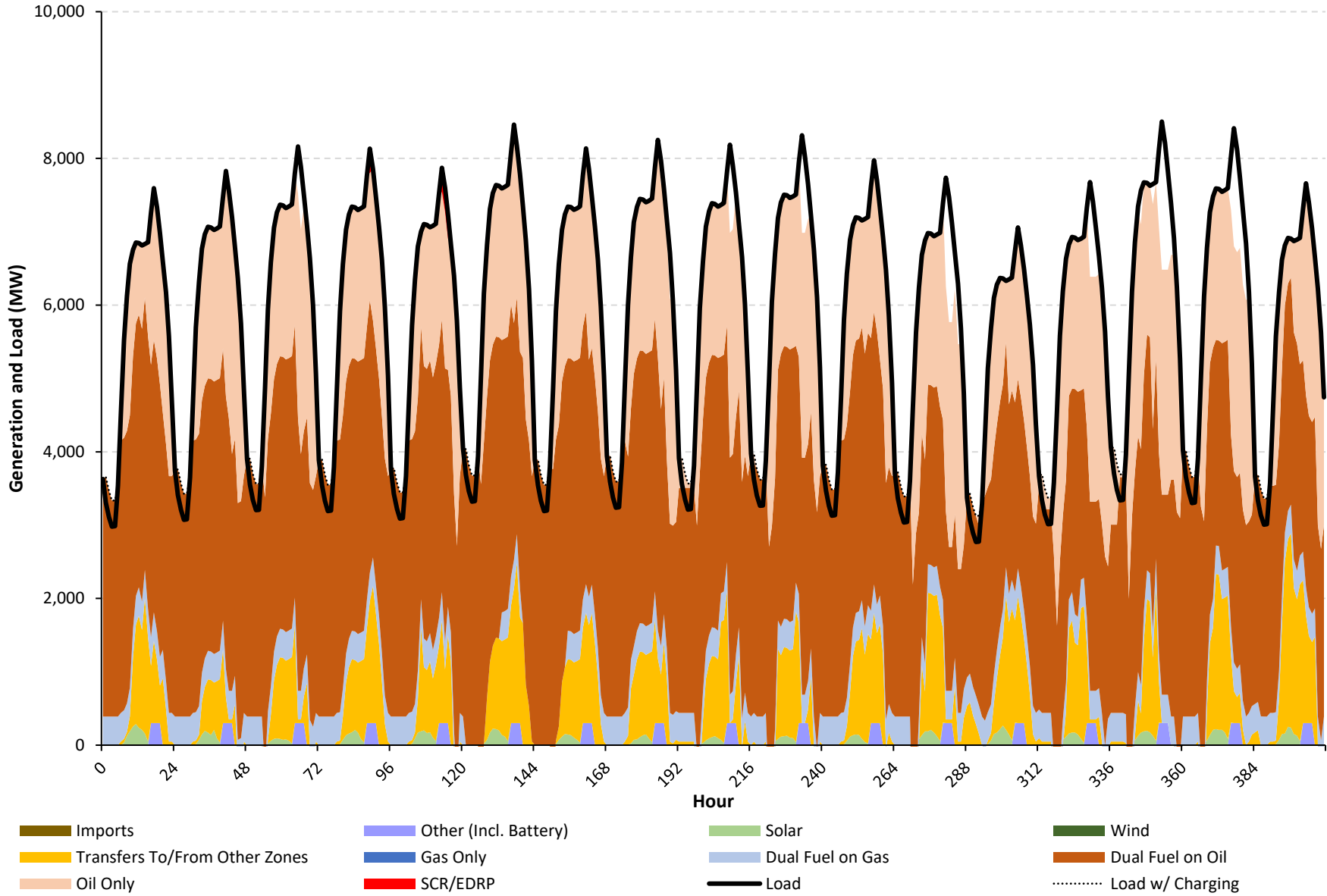
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



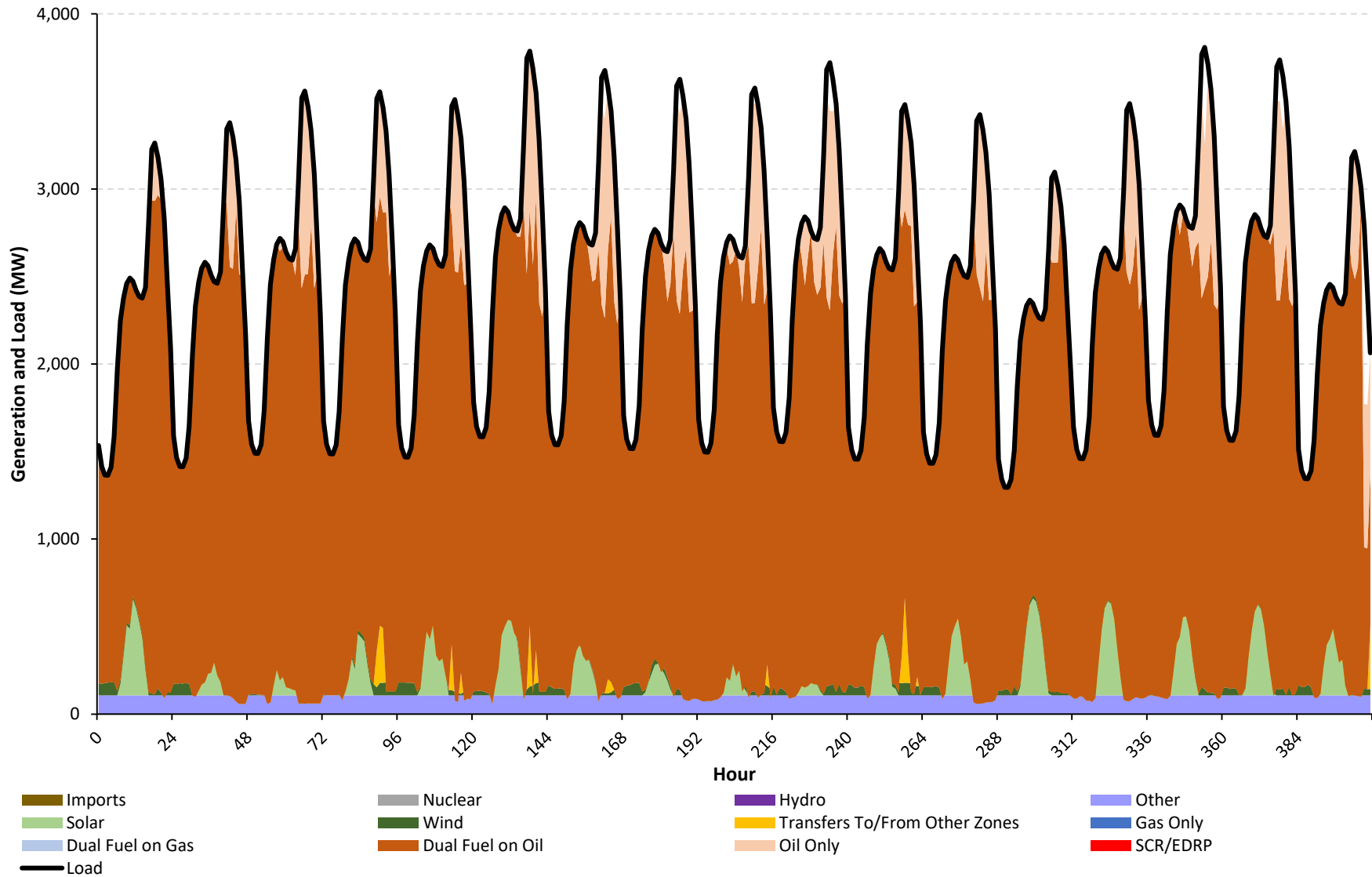
NYCA Hourly Generation (MWh) by Fuel Group Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



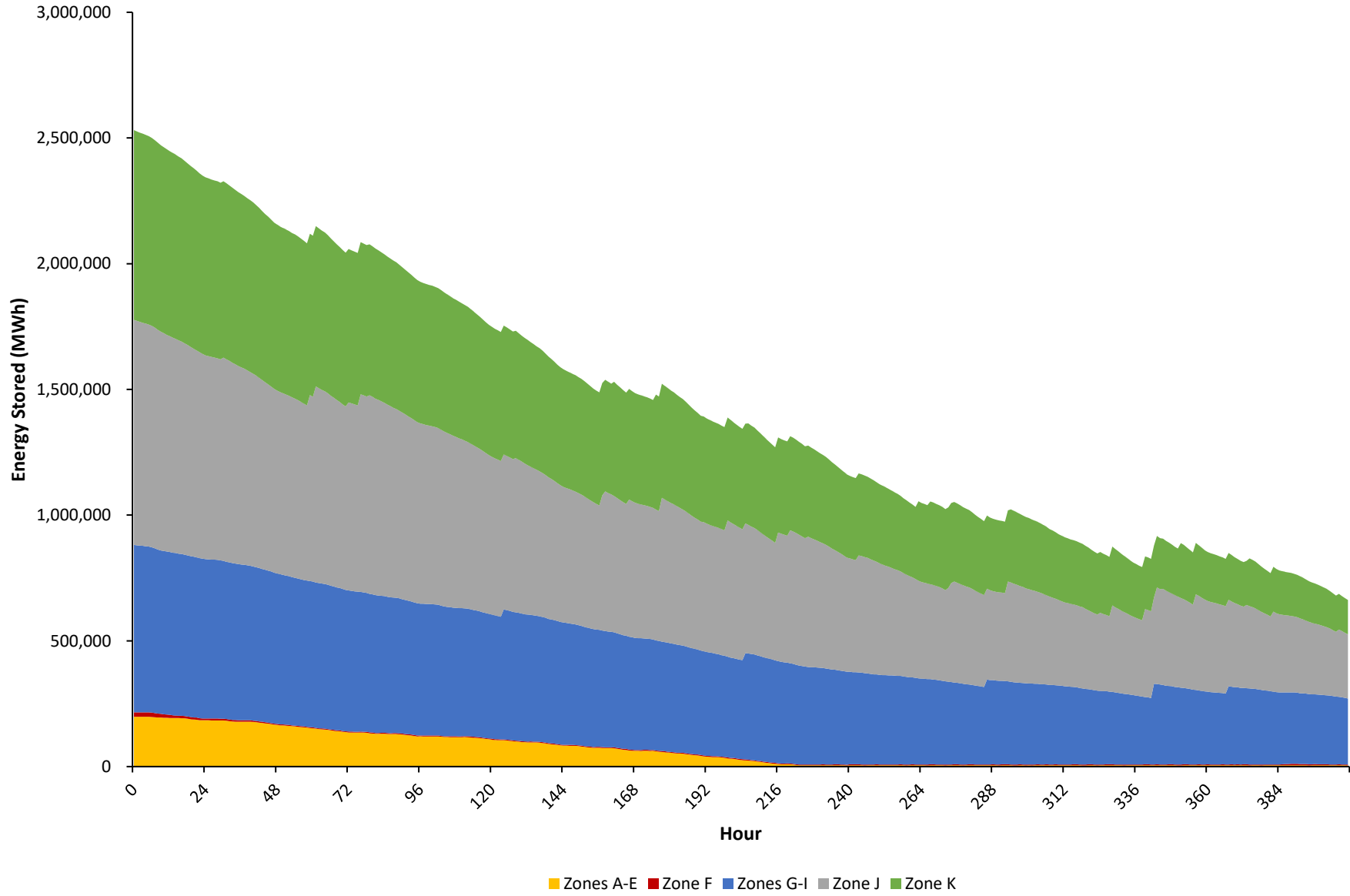
Zone J Hourly Generation (MW) by Fuel Group Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)

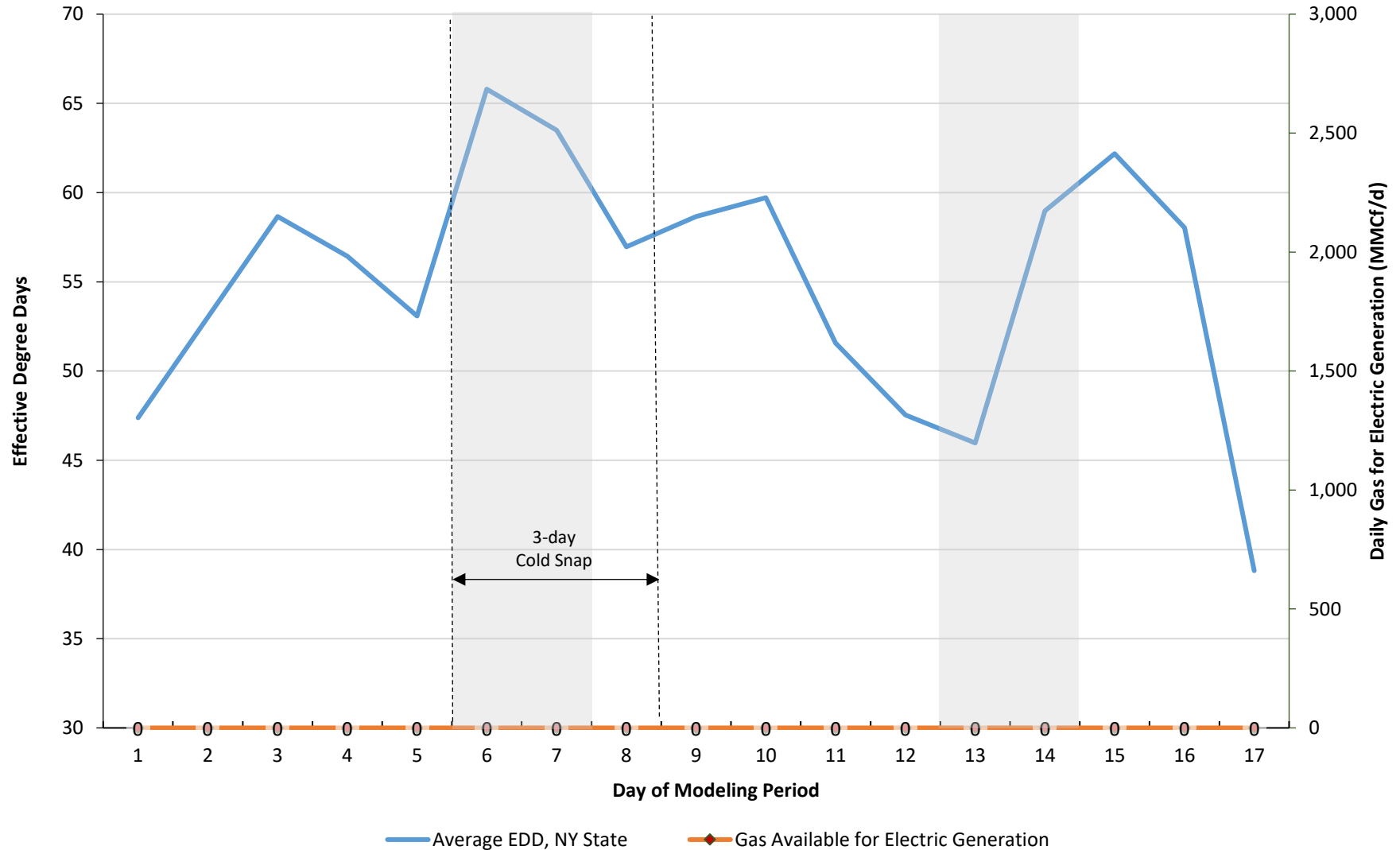


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

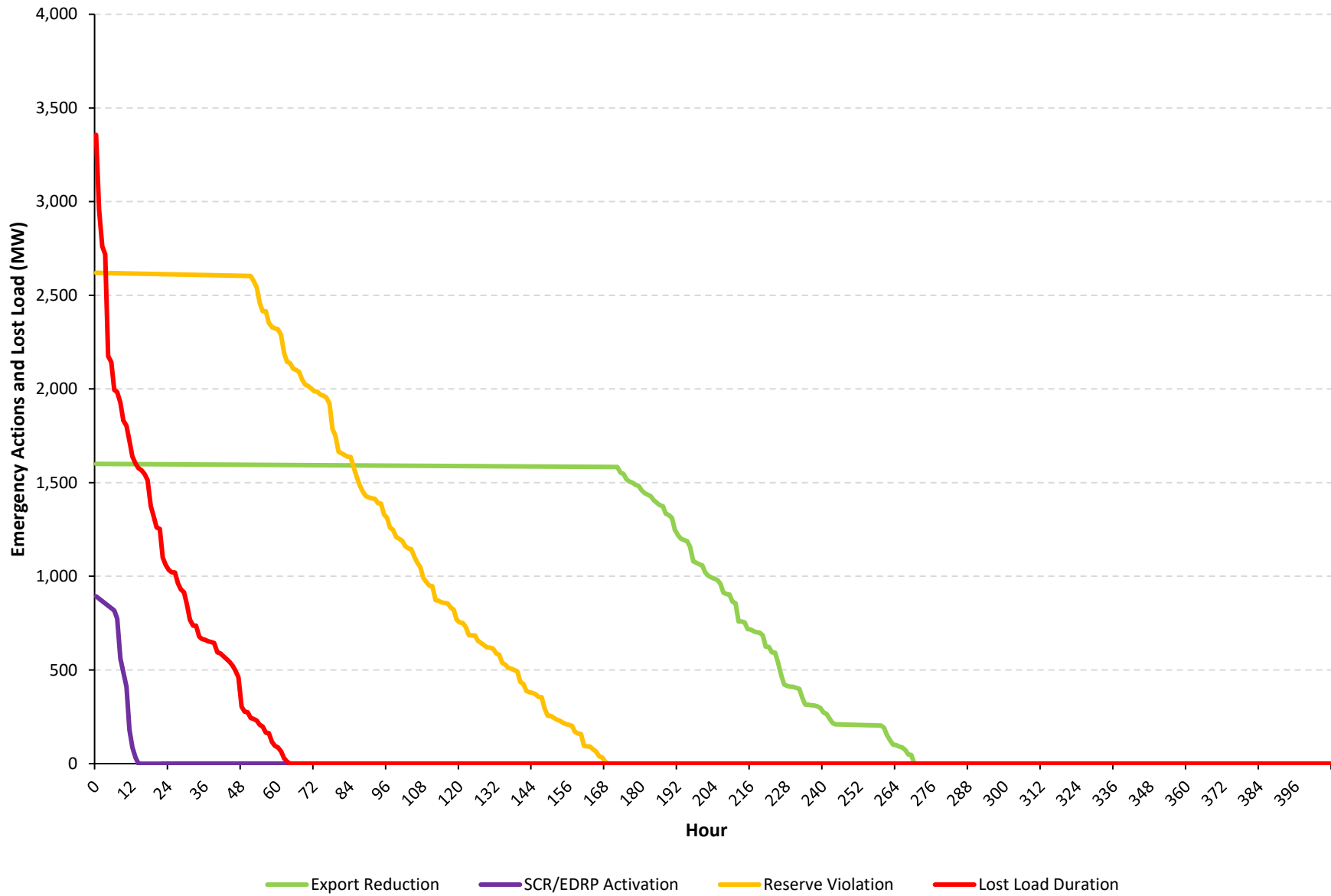
Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



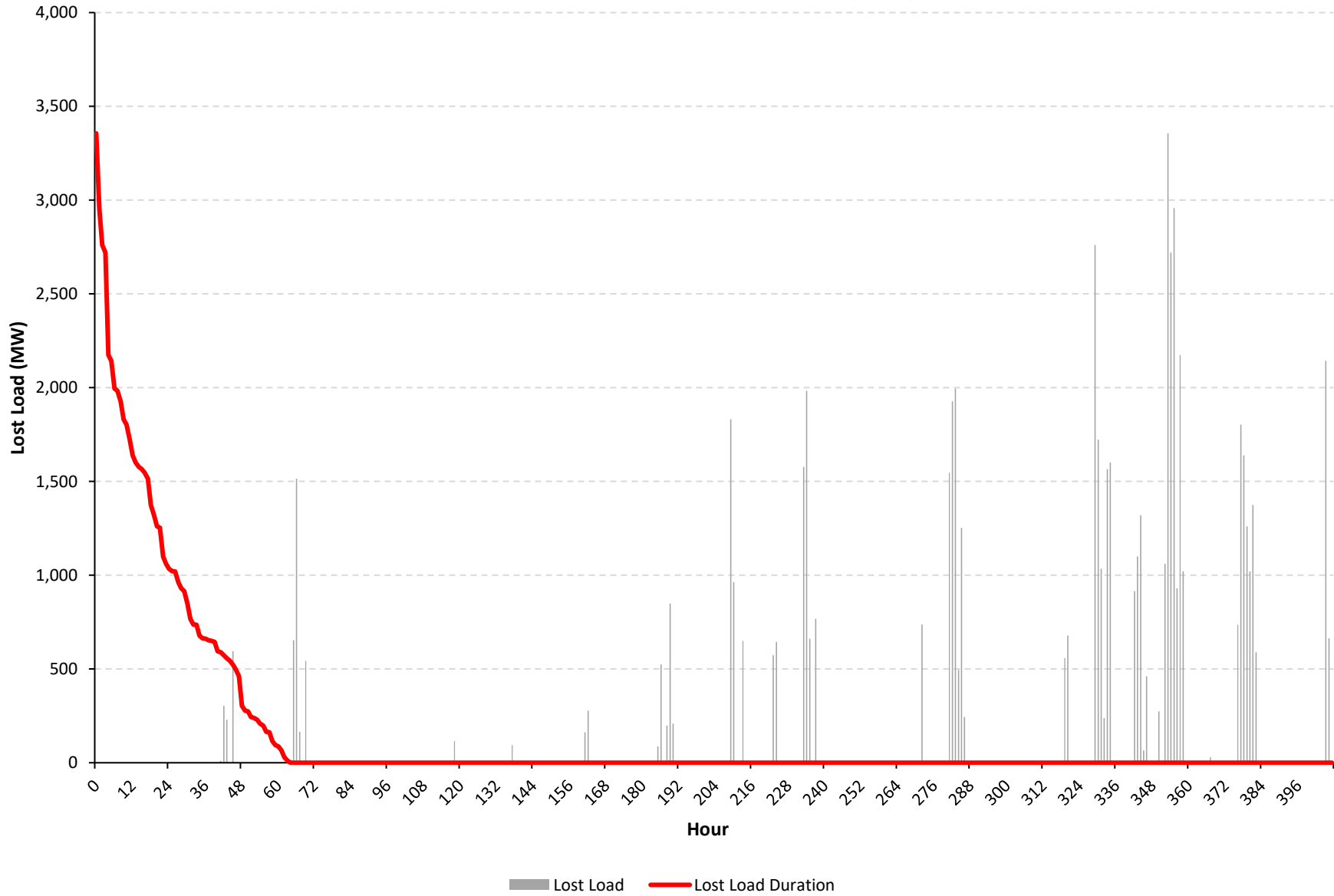
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 4 - PD 10 Non-Firm Gas Unavailable (NYCA)



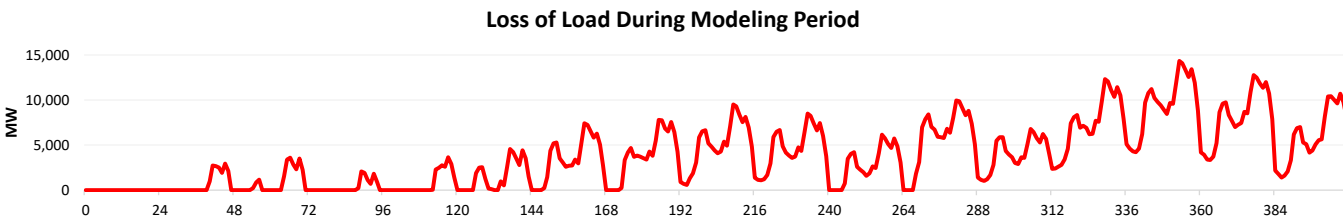
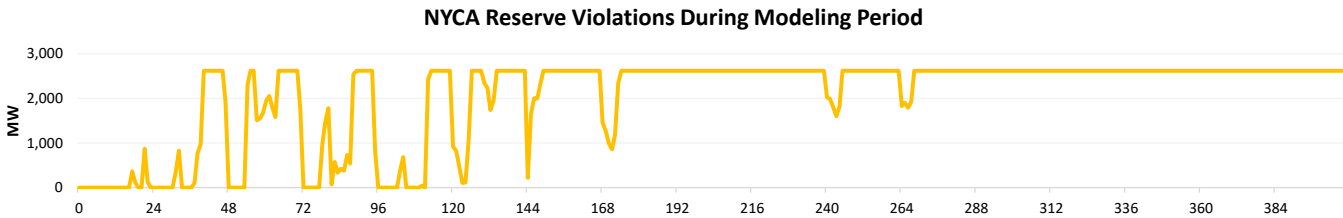
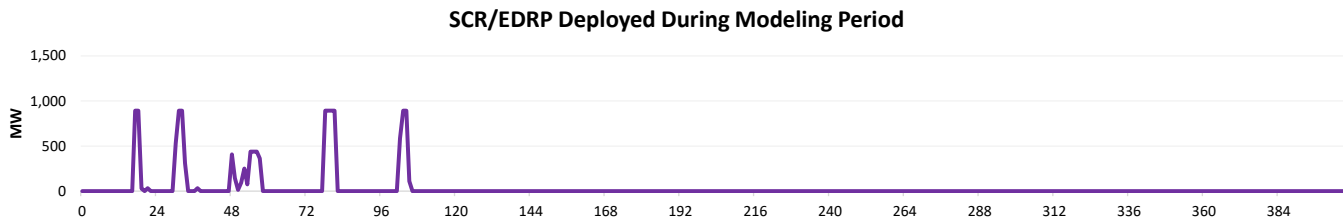
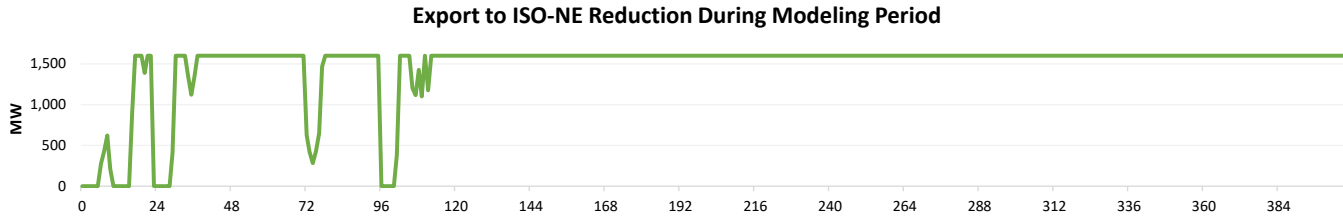
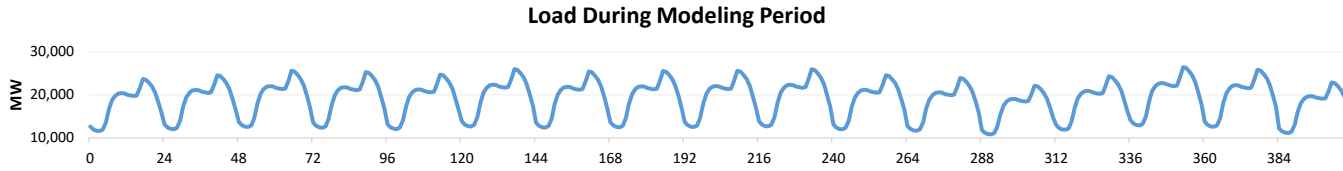
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	385
Total MWh	599,126
Avg. MW	1,468.4

SCR Deployment	
Total Hrs.	27
Total MWh	13,215
Avg. MW	32.4

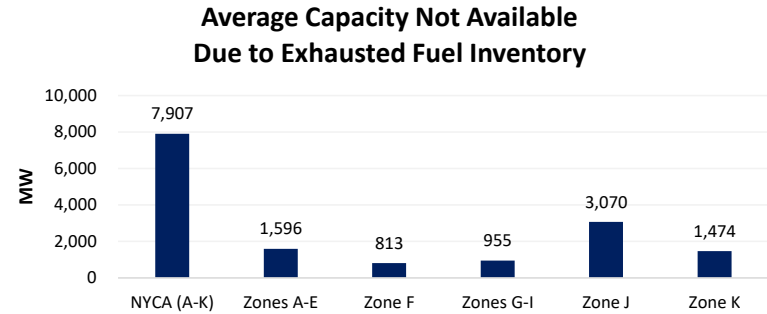
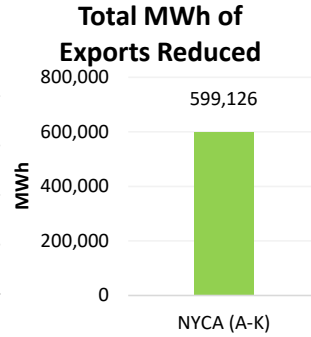
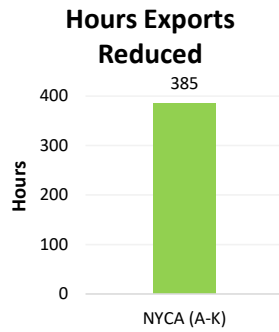
Reserve Violations	
Total Hrs.	352
Total MWh	833,335
Avg. MW	2,042.5
First Hour with Viol.	17
First Hour, Zone K	41

Loss of Load	
Total Hrs.	294
Total MWh	1,559,710
Avg. MW	3,822.8
First Hour with Losses	40
First Hour, Zone K	65

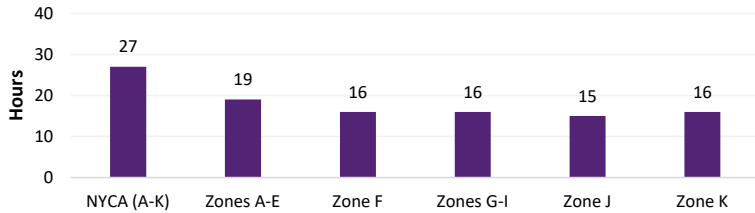
Full Period Results Summary

Case Name: Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

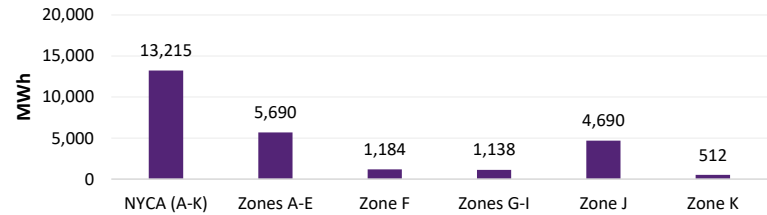
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



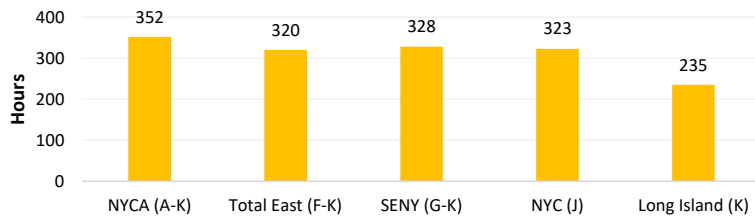
Hours SCR/EDRP Deployed



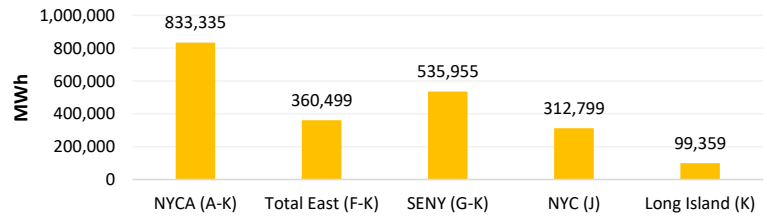
Total MWh SCR/EDRP Deployed



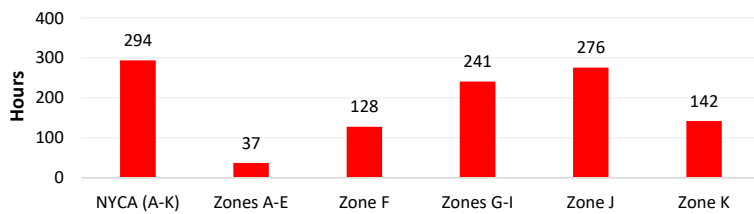
Hours with Reserve Violations



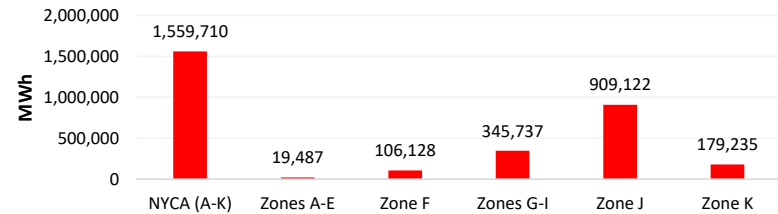
Total MWh of Reserve Violations



Hours with Loss of Load



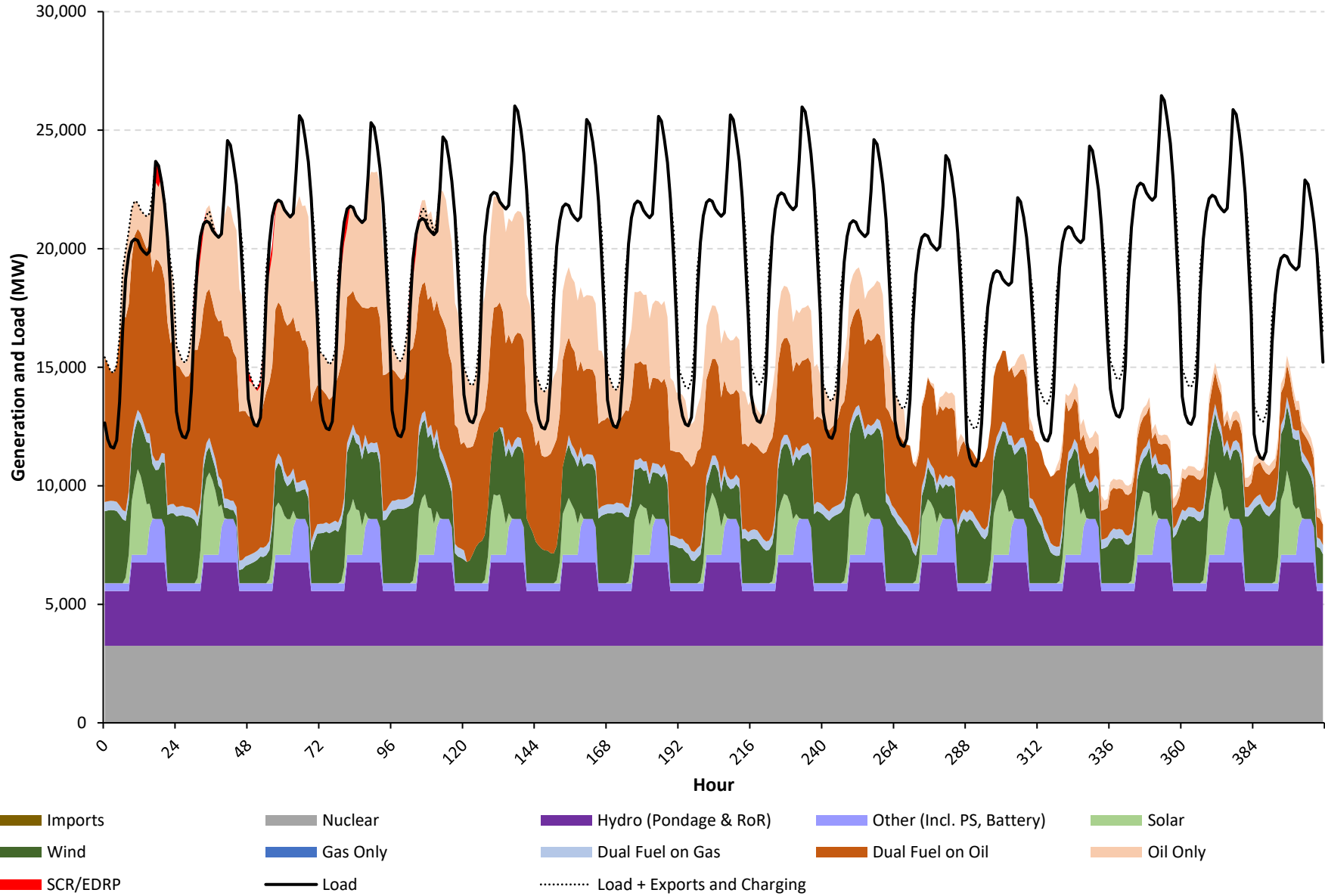
Total MWh of Lost Load



NYCA

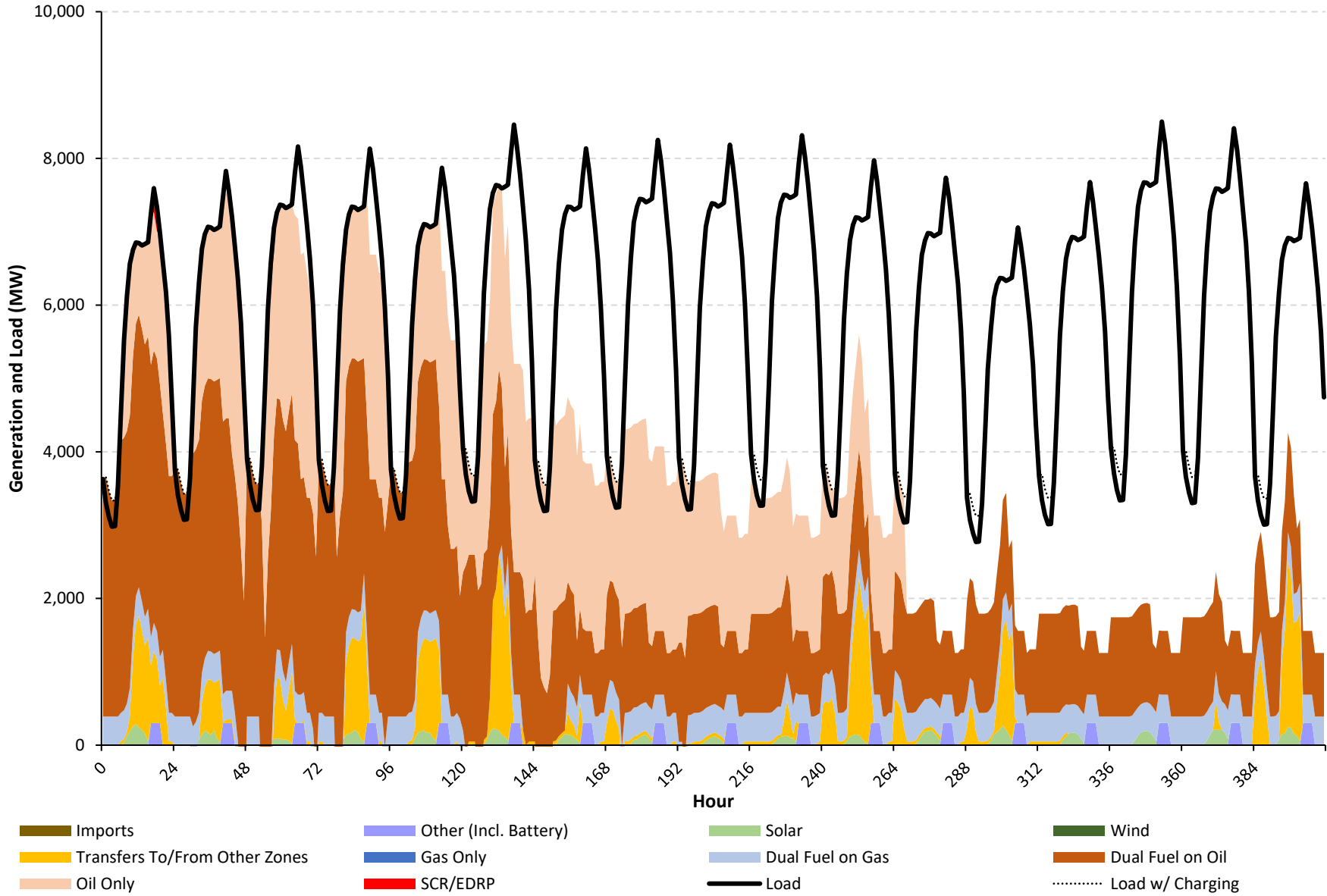
Hourly Generation (MWh) by Fuel Group

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



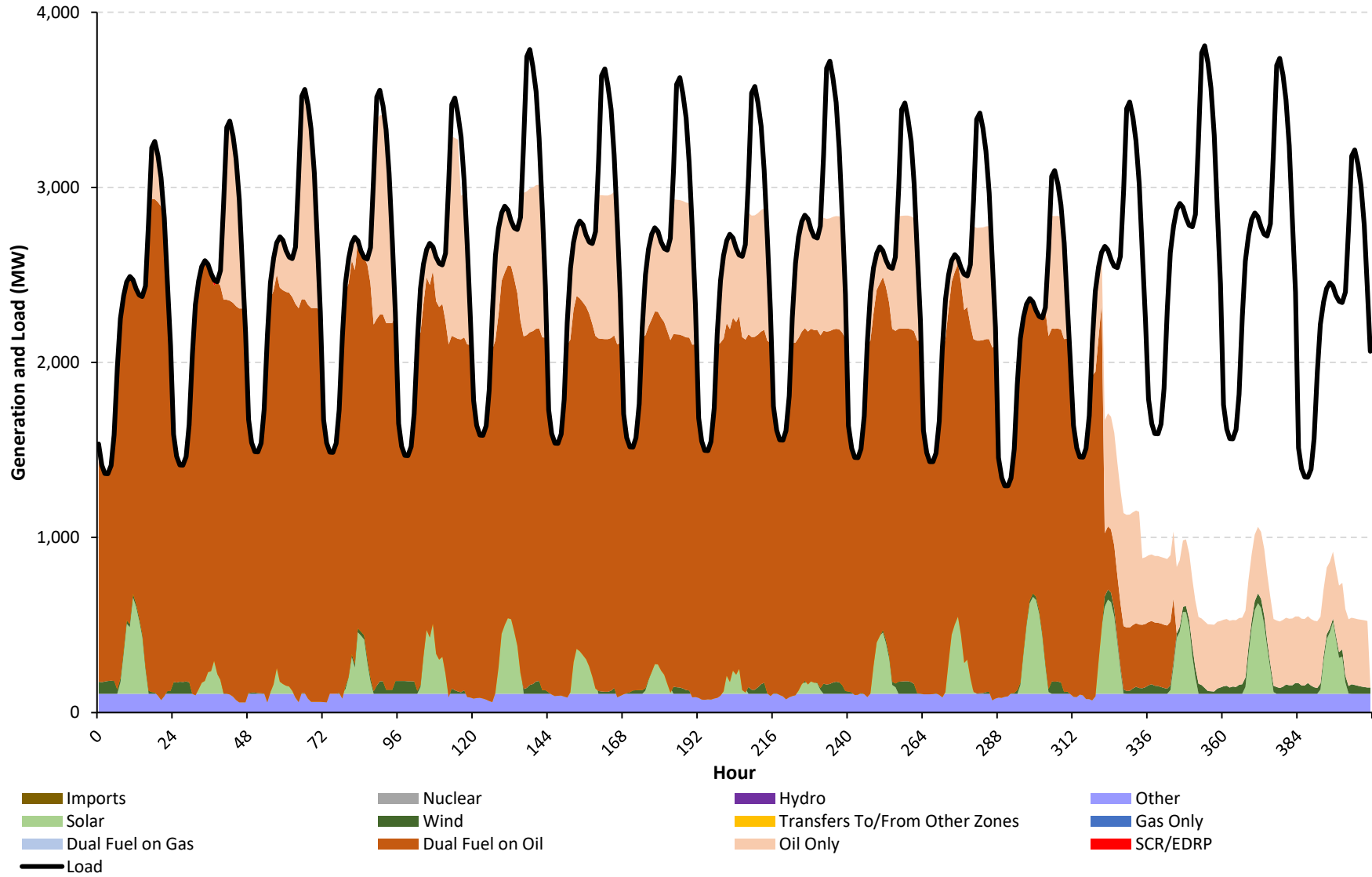
Zone J Hourly Generation (MW) by Fuel Group

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

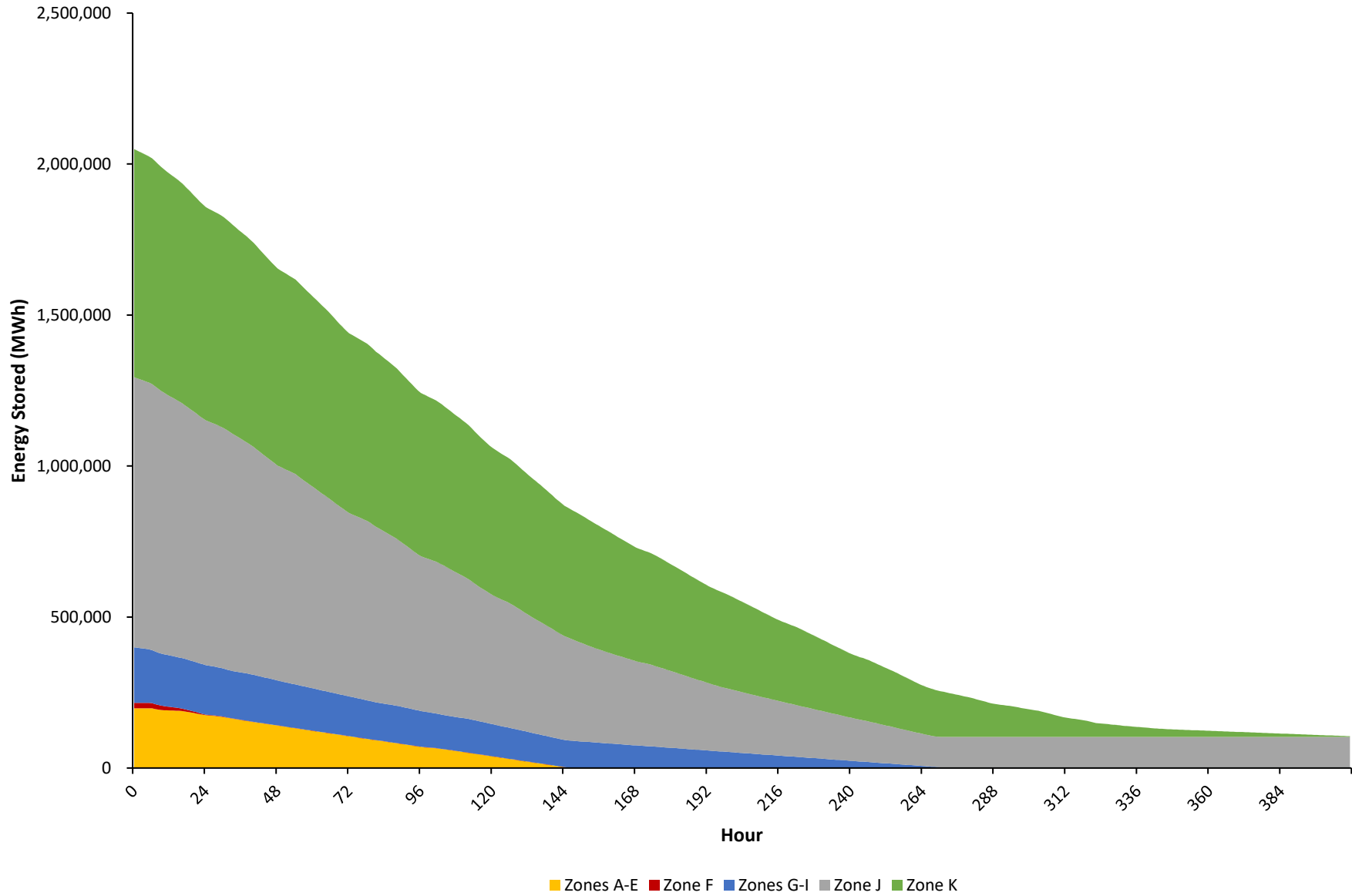


Zone K Hourly Generation (MW) by Fuel Group

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

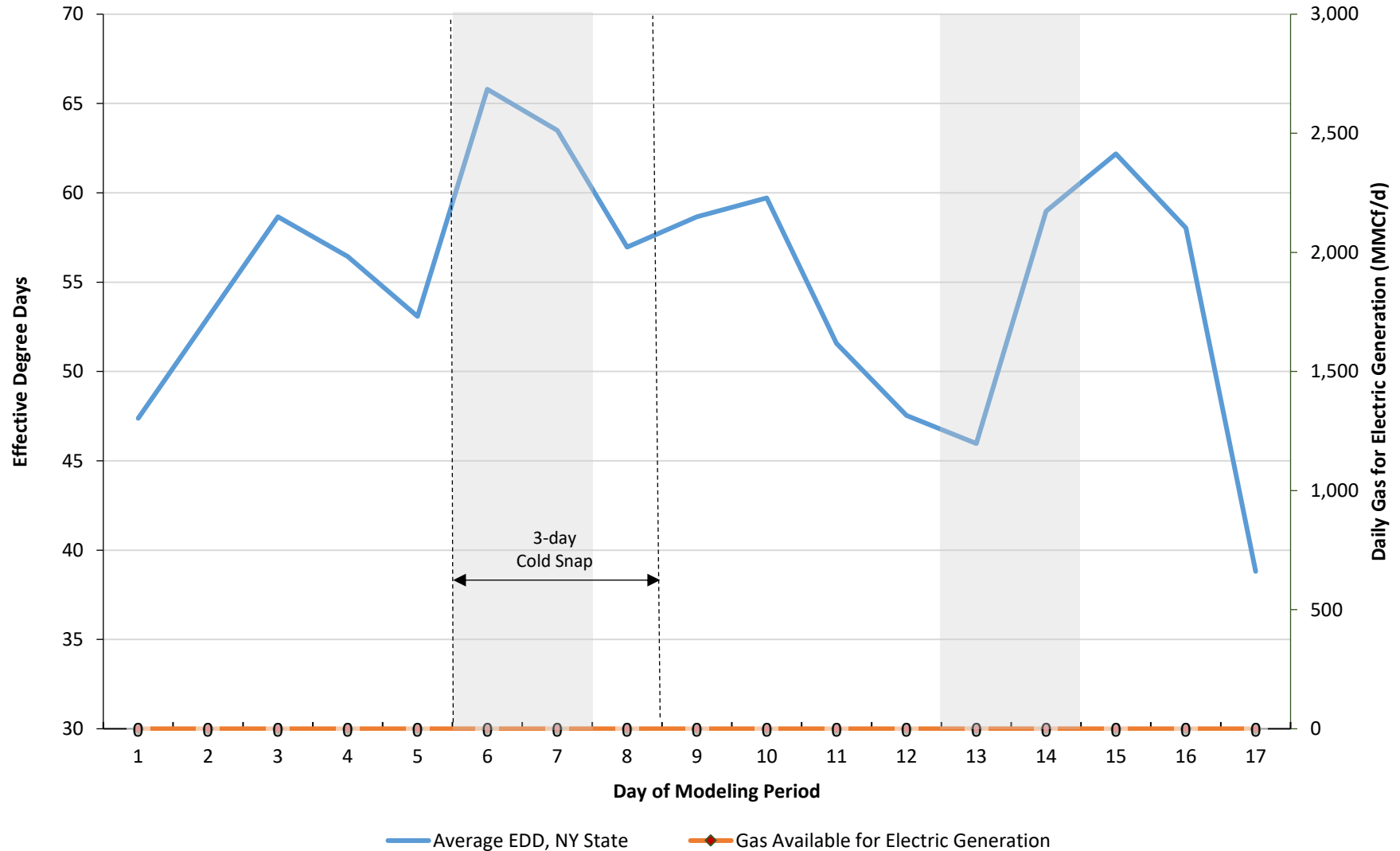


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



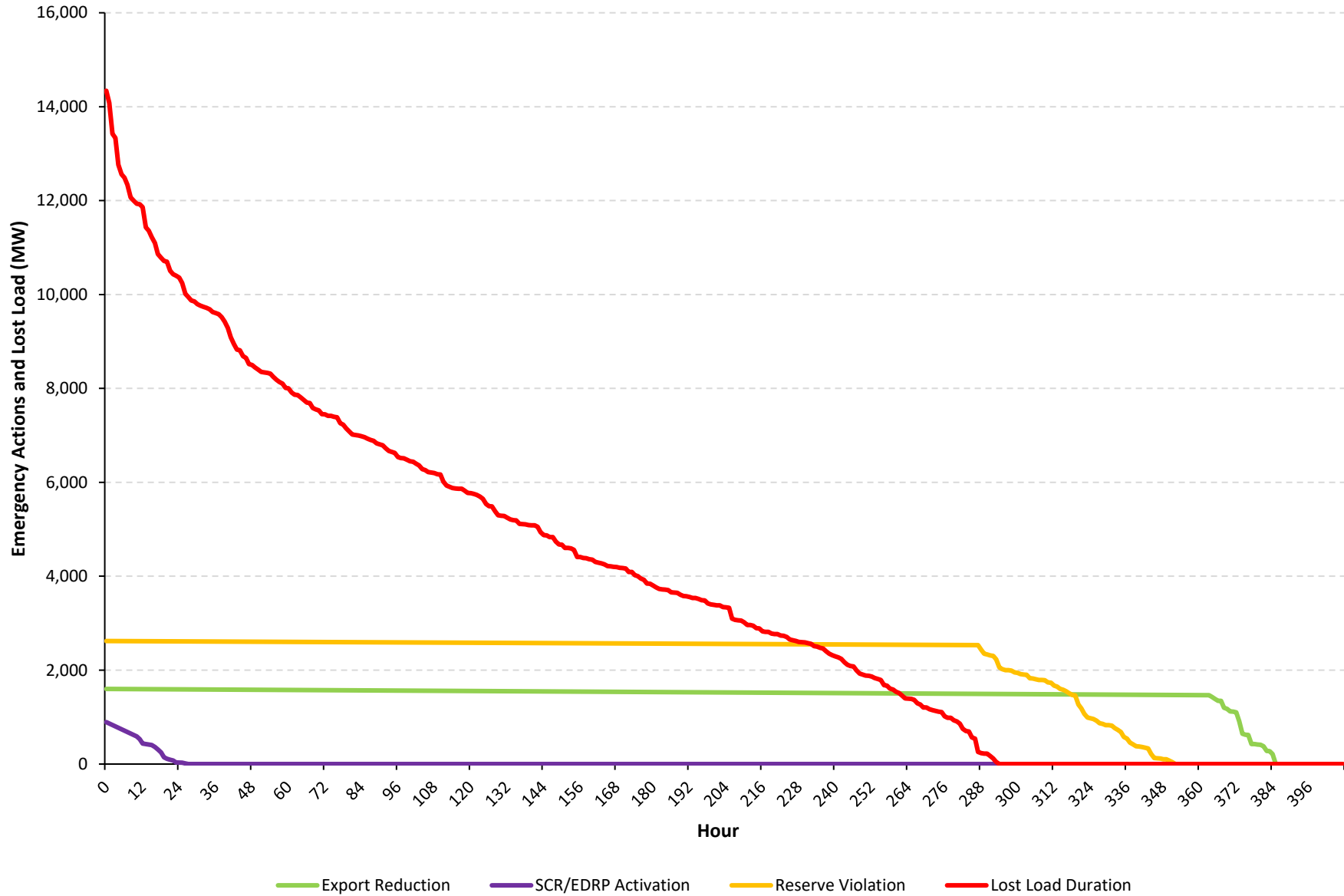
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA

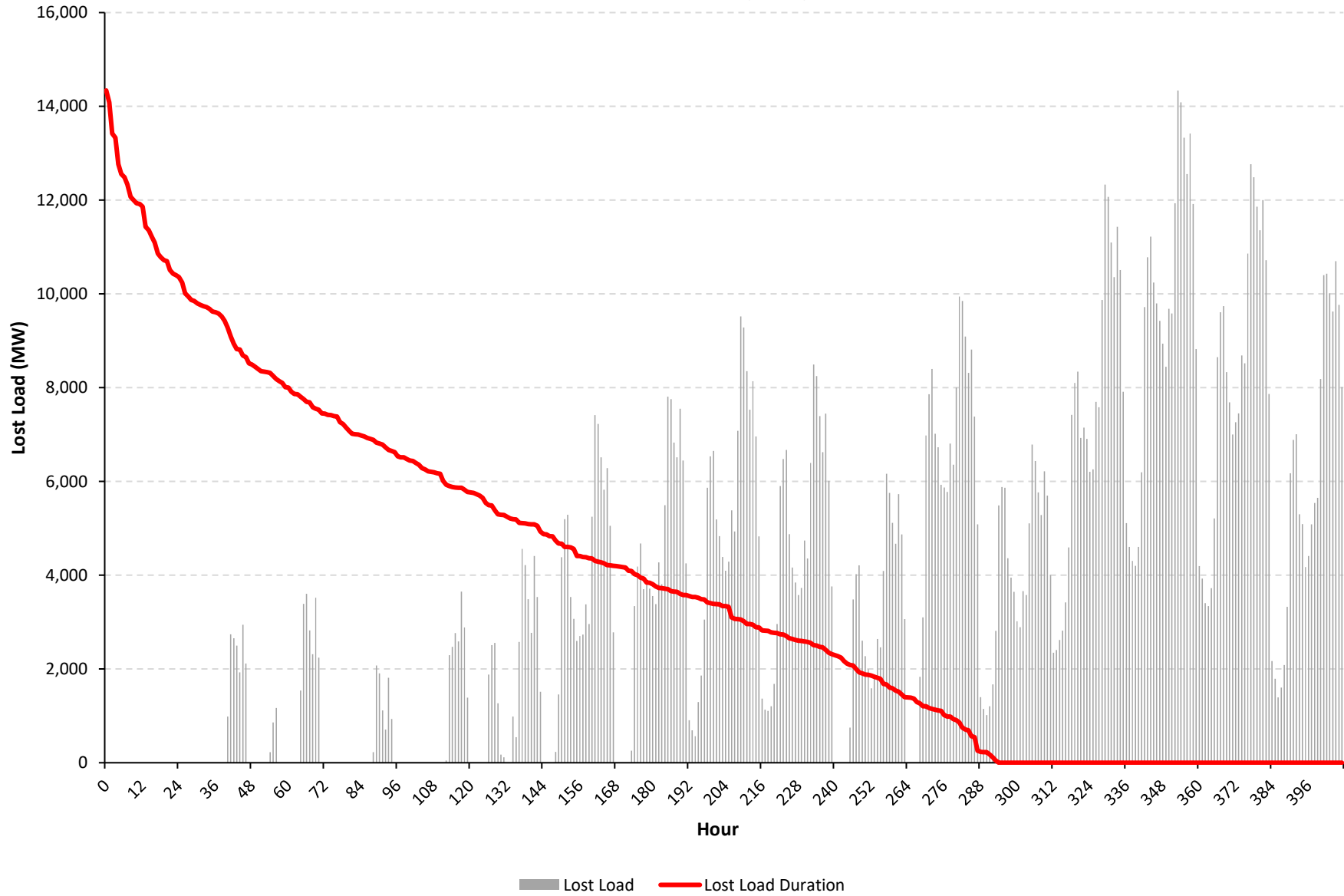
Emergency Actions and Lost Load Duration (MWh)

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Lost Load Duration (MWh)

Scenario 4 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



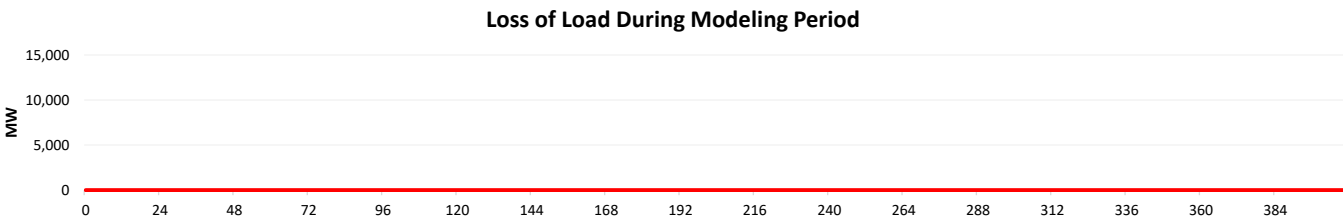
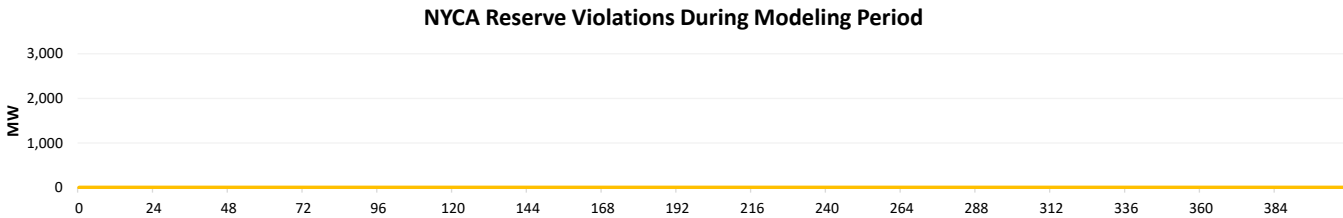
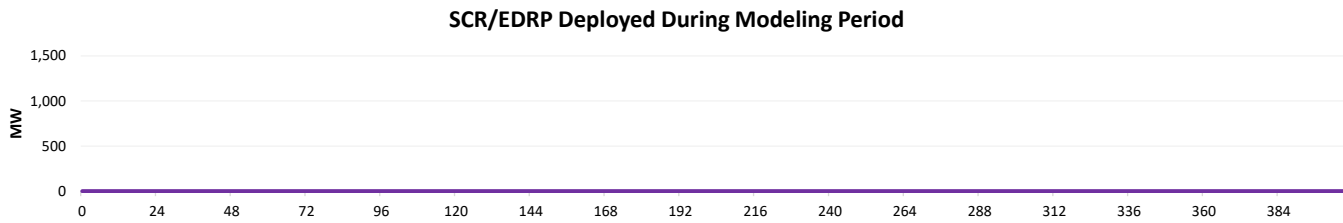
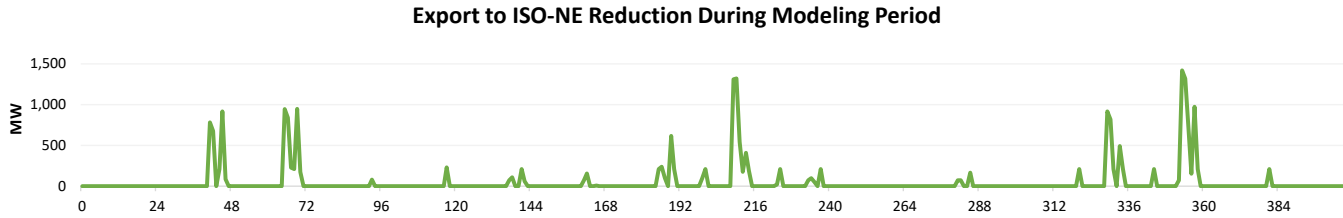
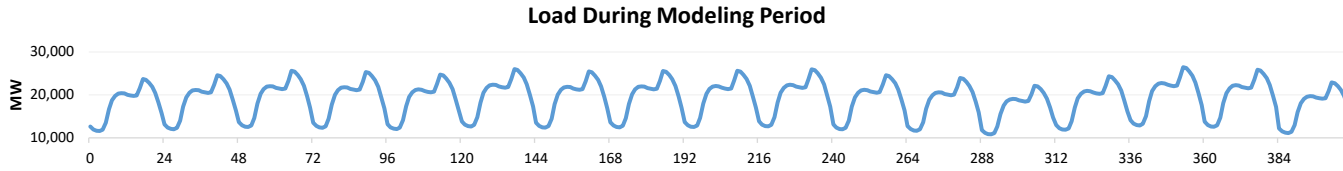
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 5 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	57
Total MWh	21,793
Avg. MW	53.4

SCR Deployment	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

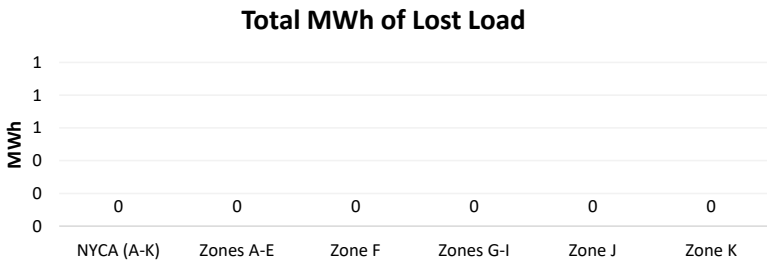
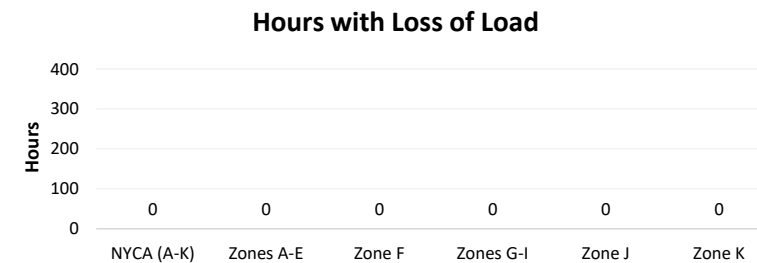
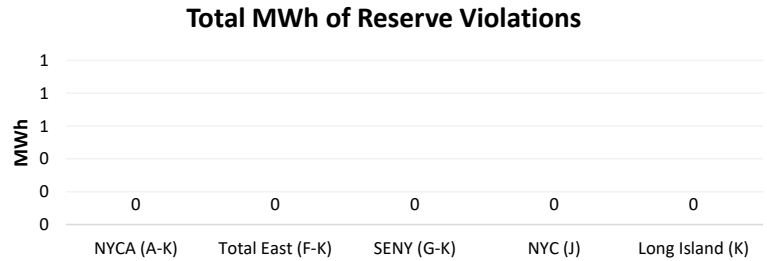
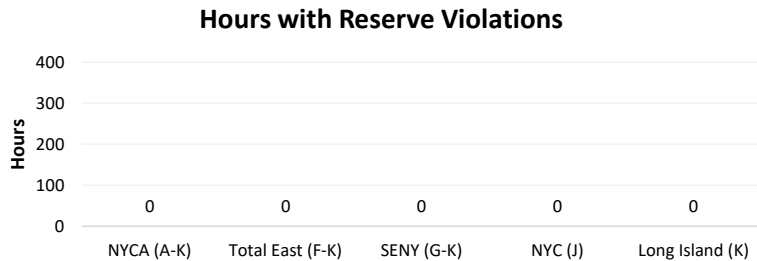
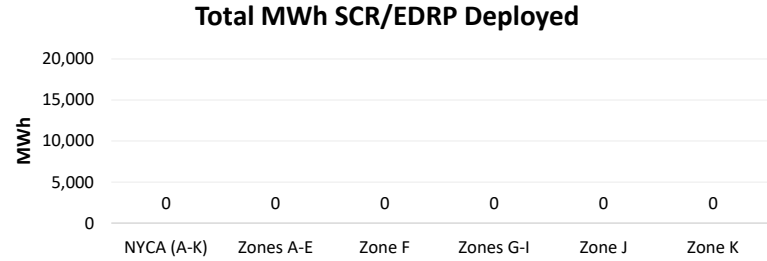
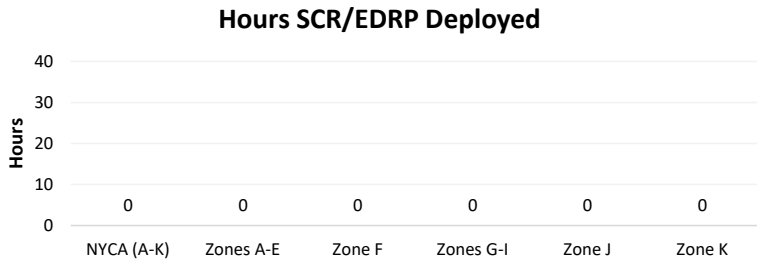
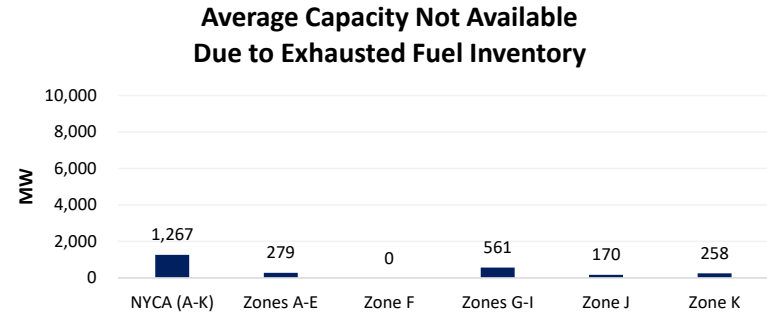
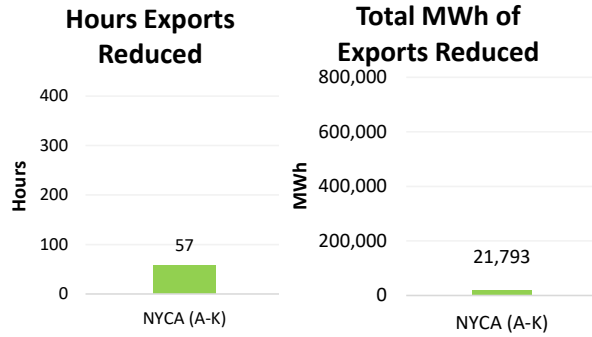
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

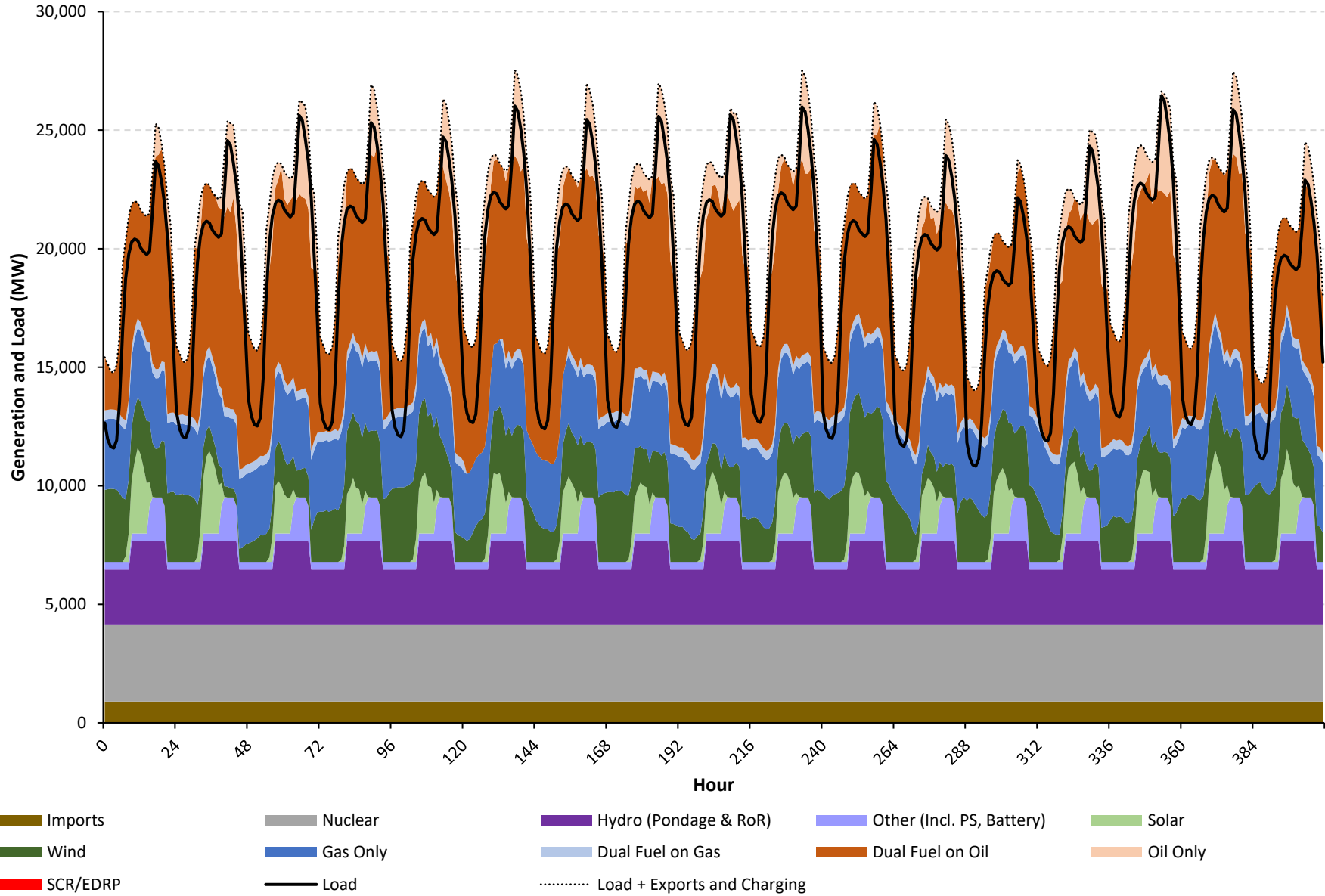
Full Period Results Summary

Case Name: Scenario 5 - PD 1 No Disruptions

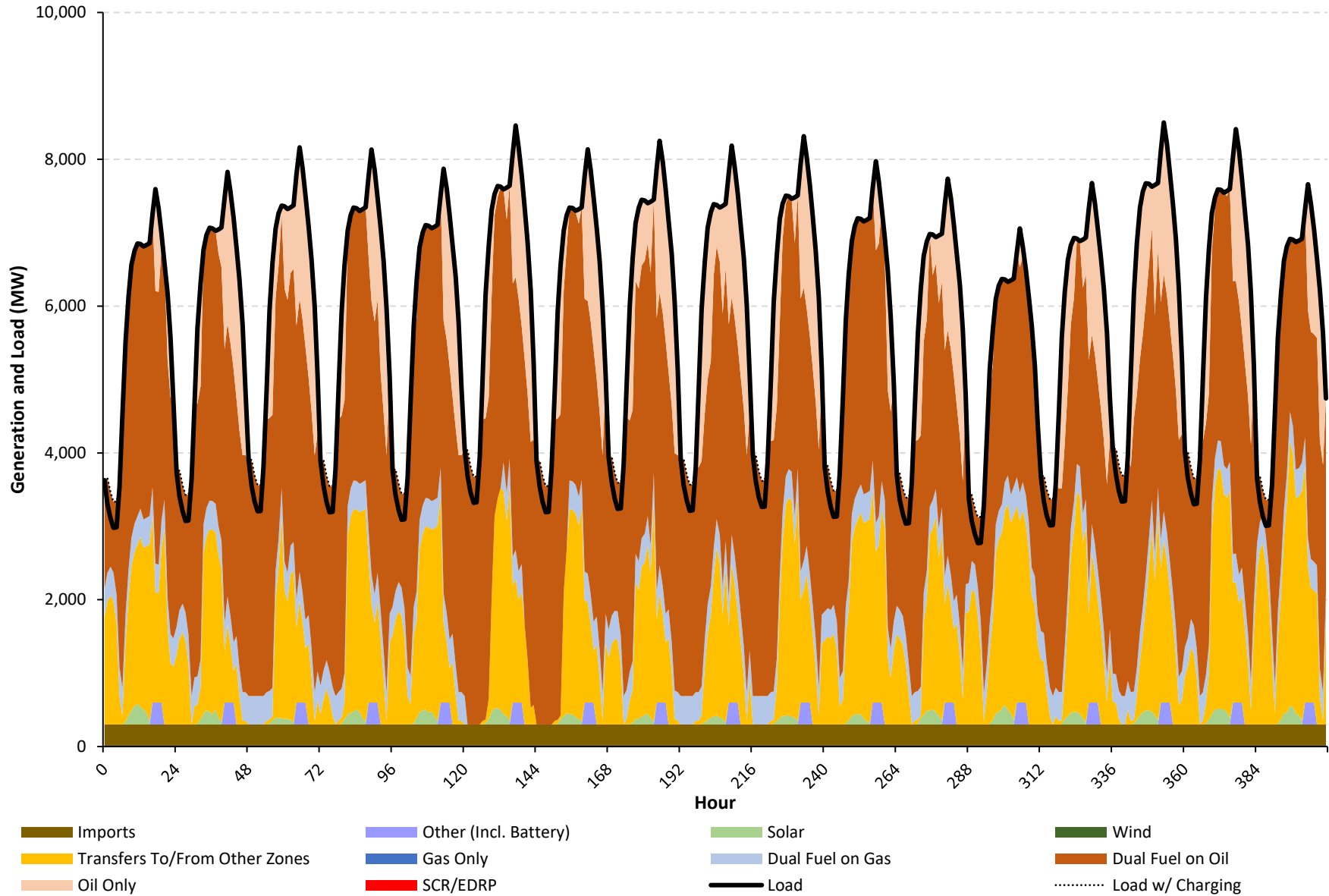
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



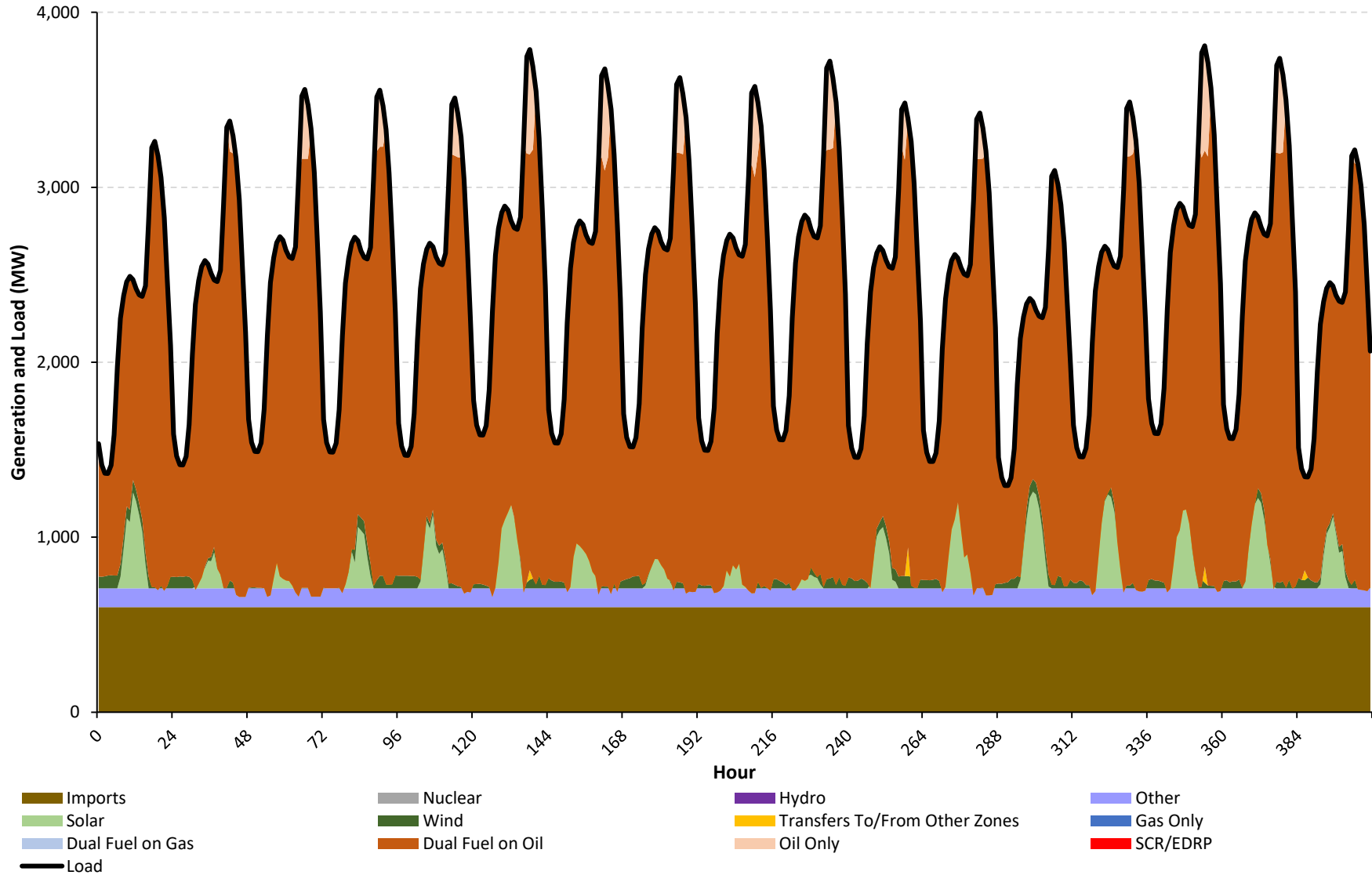
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 1 No Disruptions



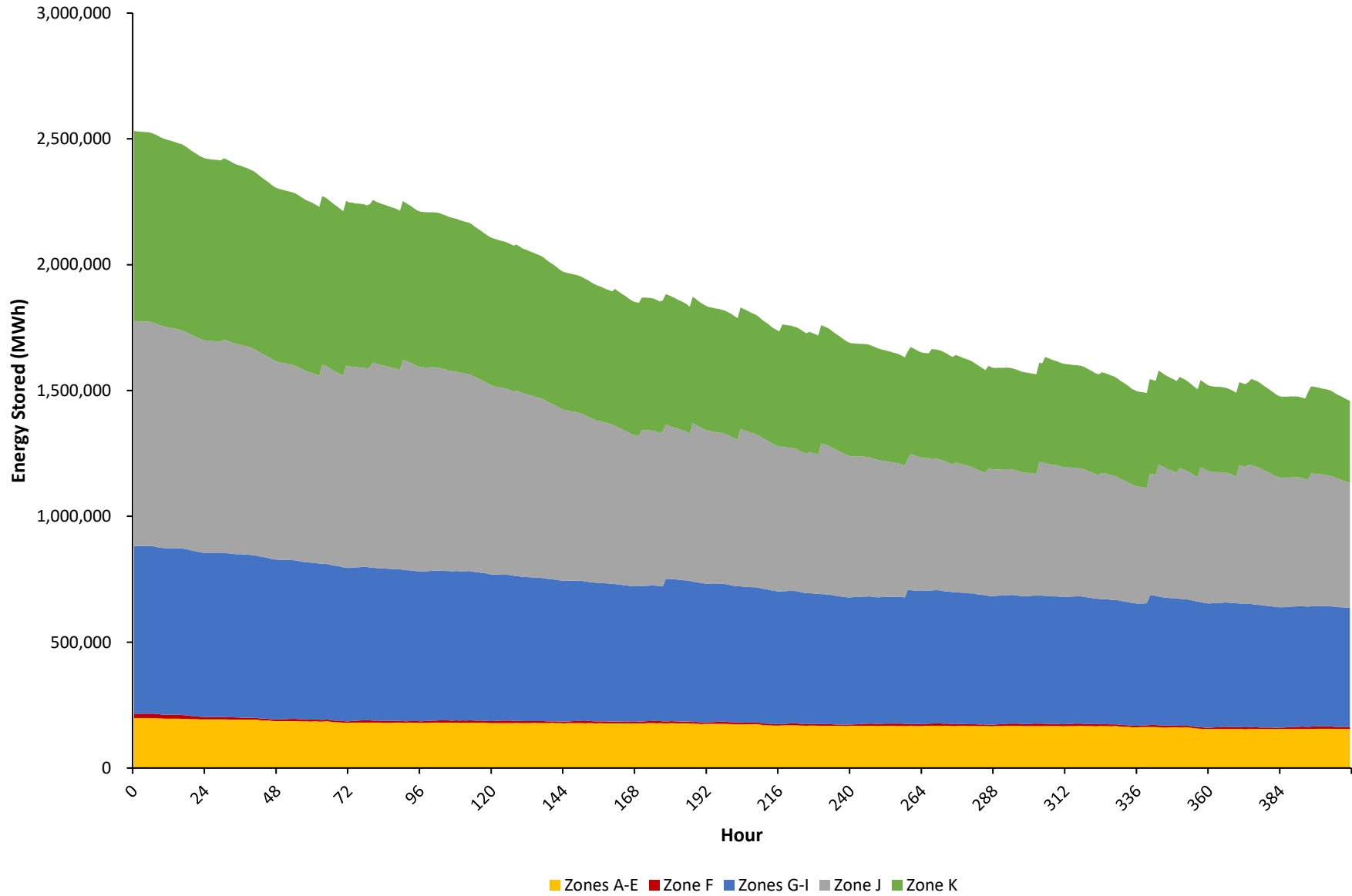
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 1 No Disruptions

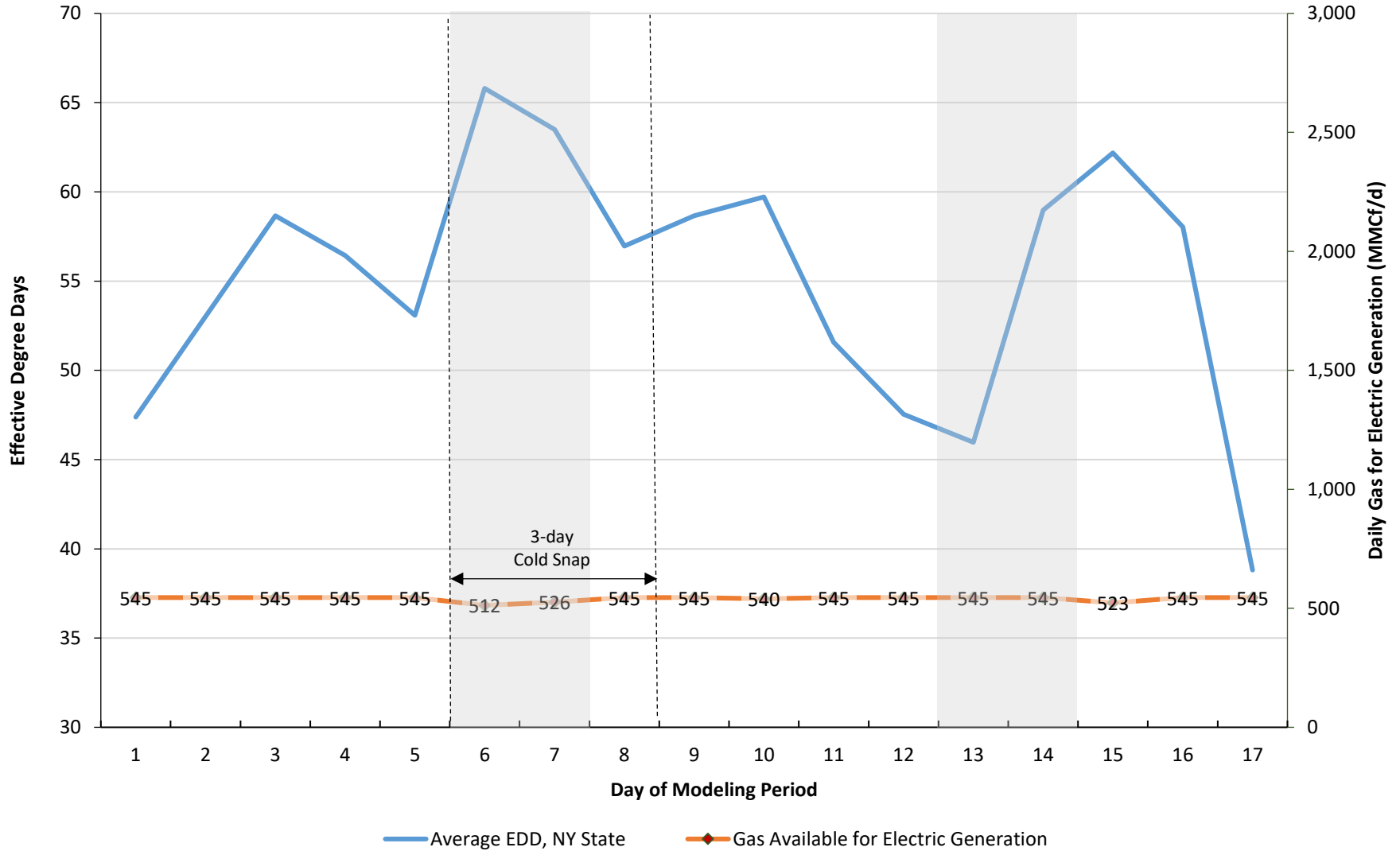


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

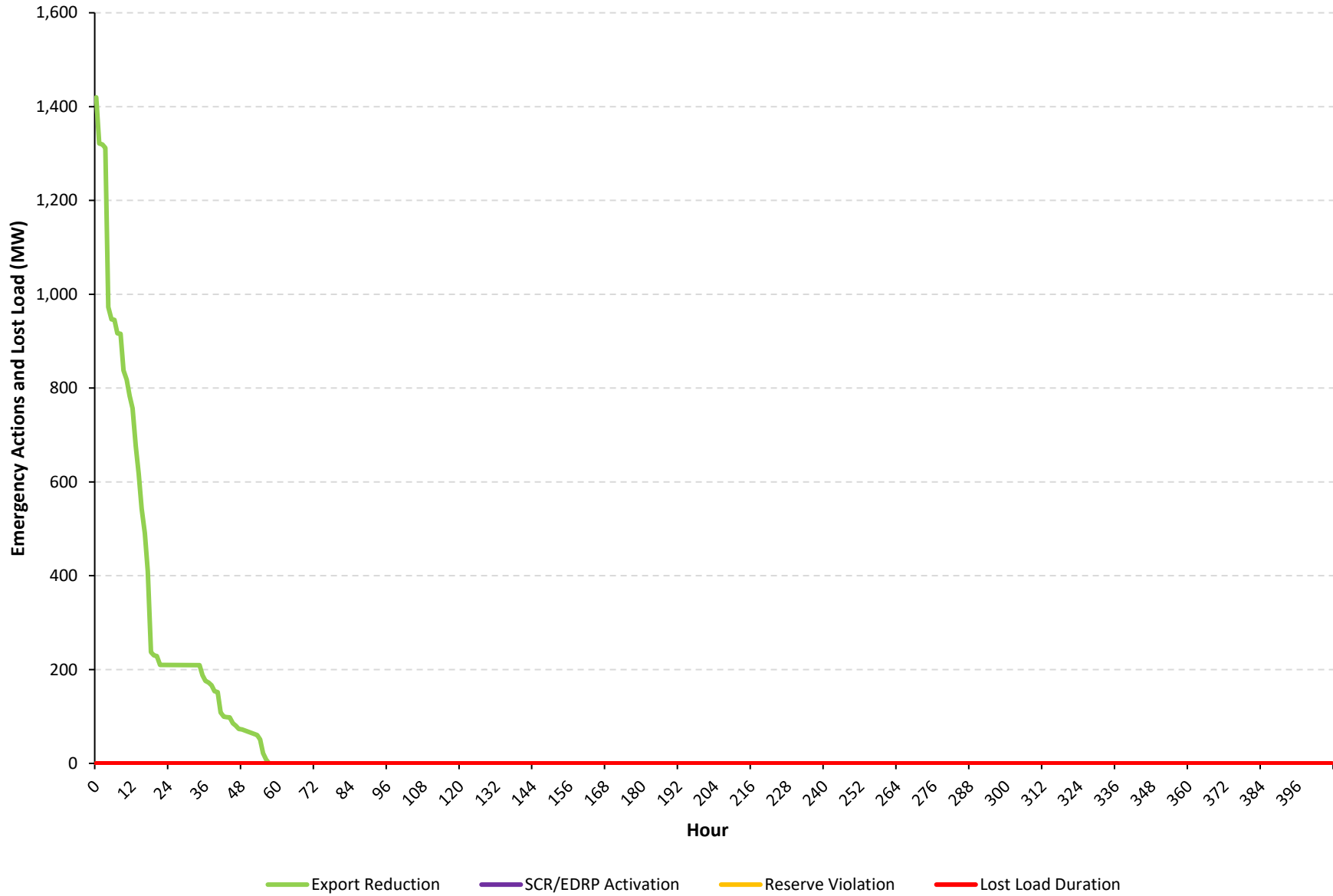
Scenario 5 - PD 1 No Disruptions



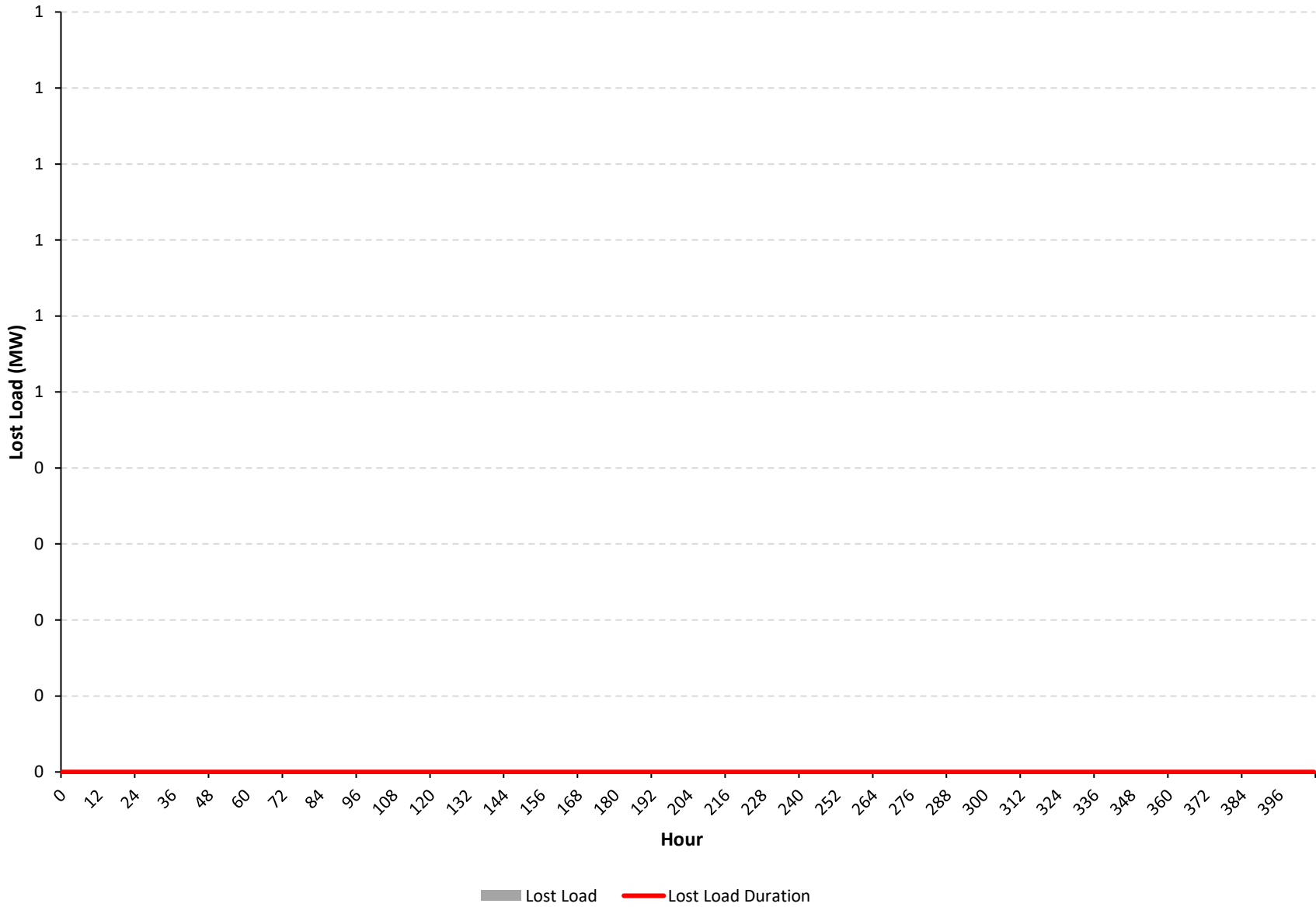
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 5 - PD 1 No Disruptions



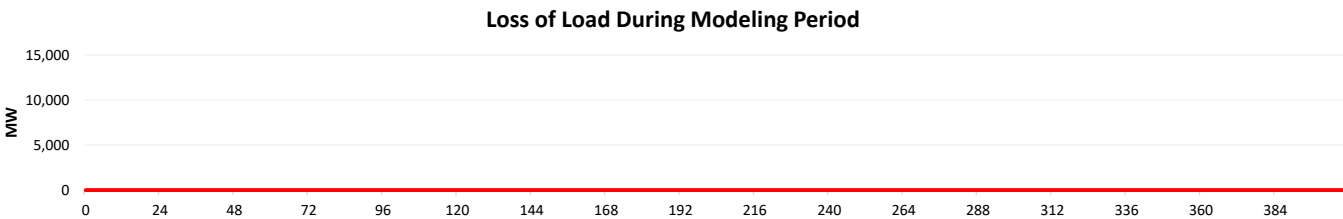
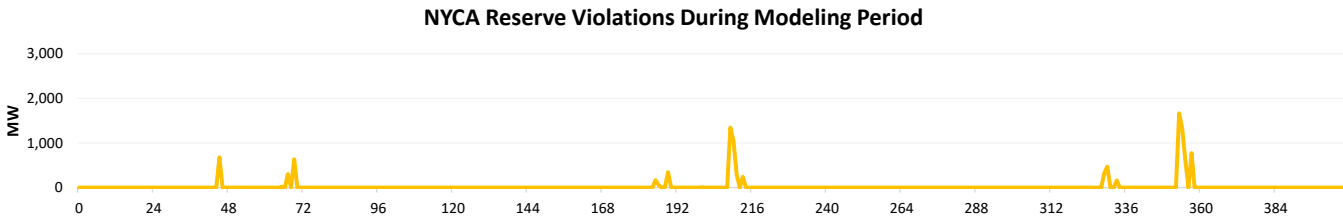
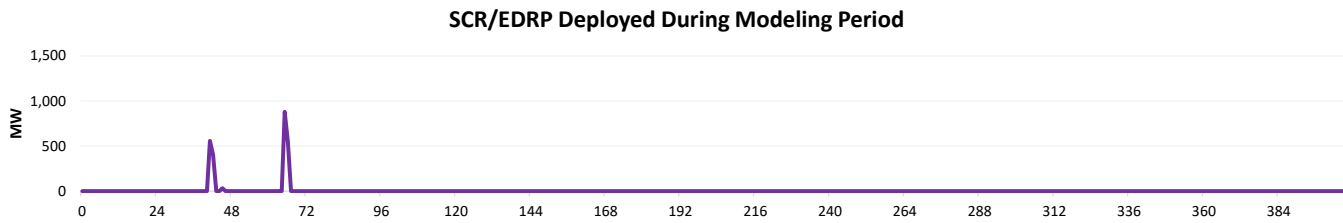
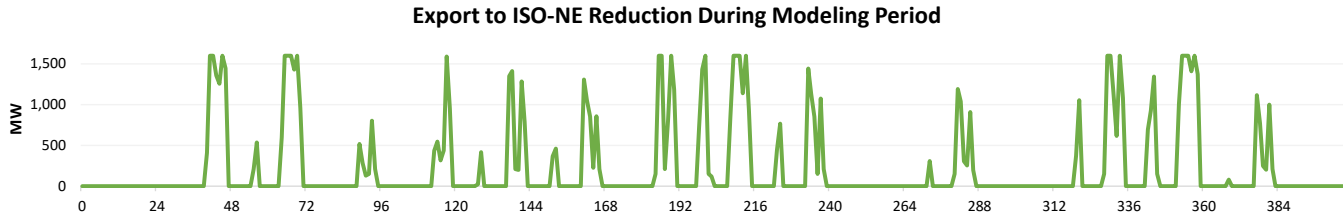
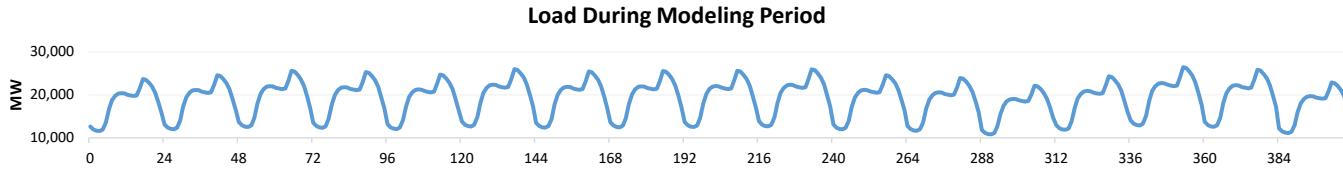
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 5 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	106
Total MWh	93,851
Avg. MW	230.0

SCR Deployment	
Total Hrs.	5
Total MWh	2,416
Avg. MW	5.9

Reserve Violations	
Total Hrs.	19
Total MWh	10,494
Avg. MW	25.7
First Hour with Viol.	45
First Hour, Zone K	209

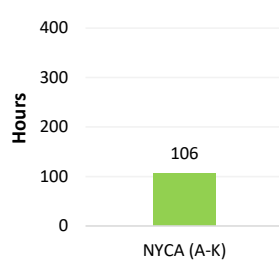
Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

Full Period Results Summary

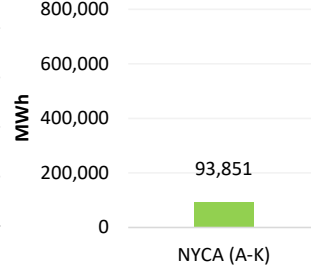
Case Name: Scenario 5 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

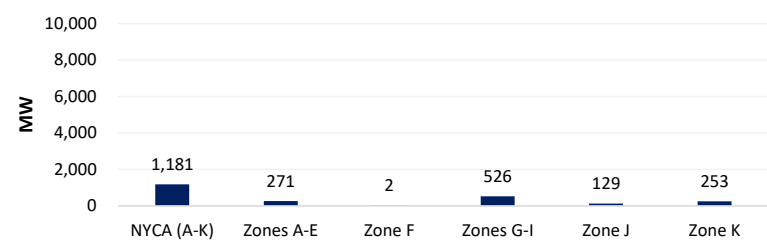
Hours Exports Reduced



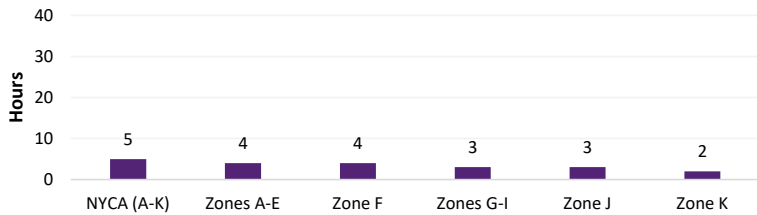
Total MWh of Exports Reduced



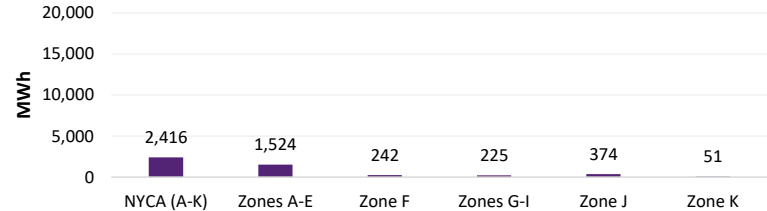
Average Capacity Not Available Due to Exhausted Fuel Inventory



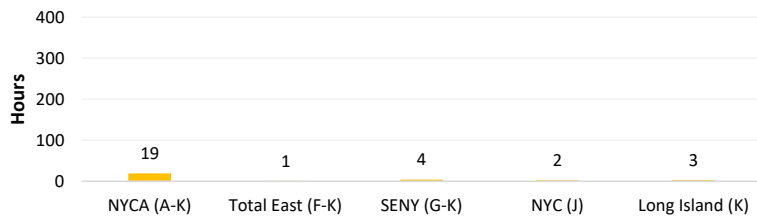
Hours SCR/EDRP Deployed



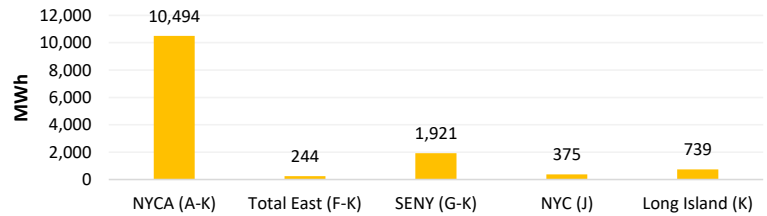
Total MWh SCR/EDRP Deployed



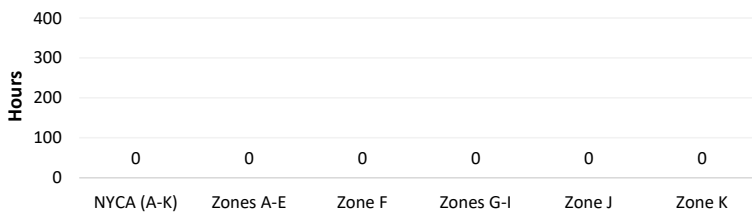
Hours with Reserve Violations



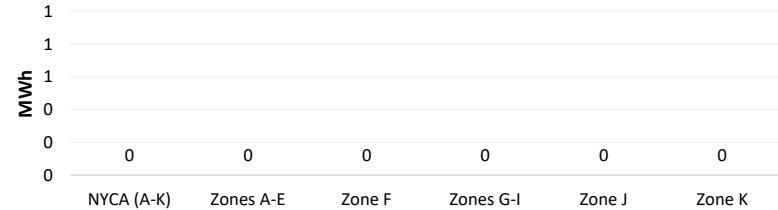
Total MWh of Reserve Violations



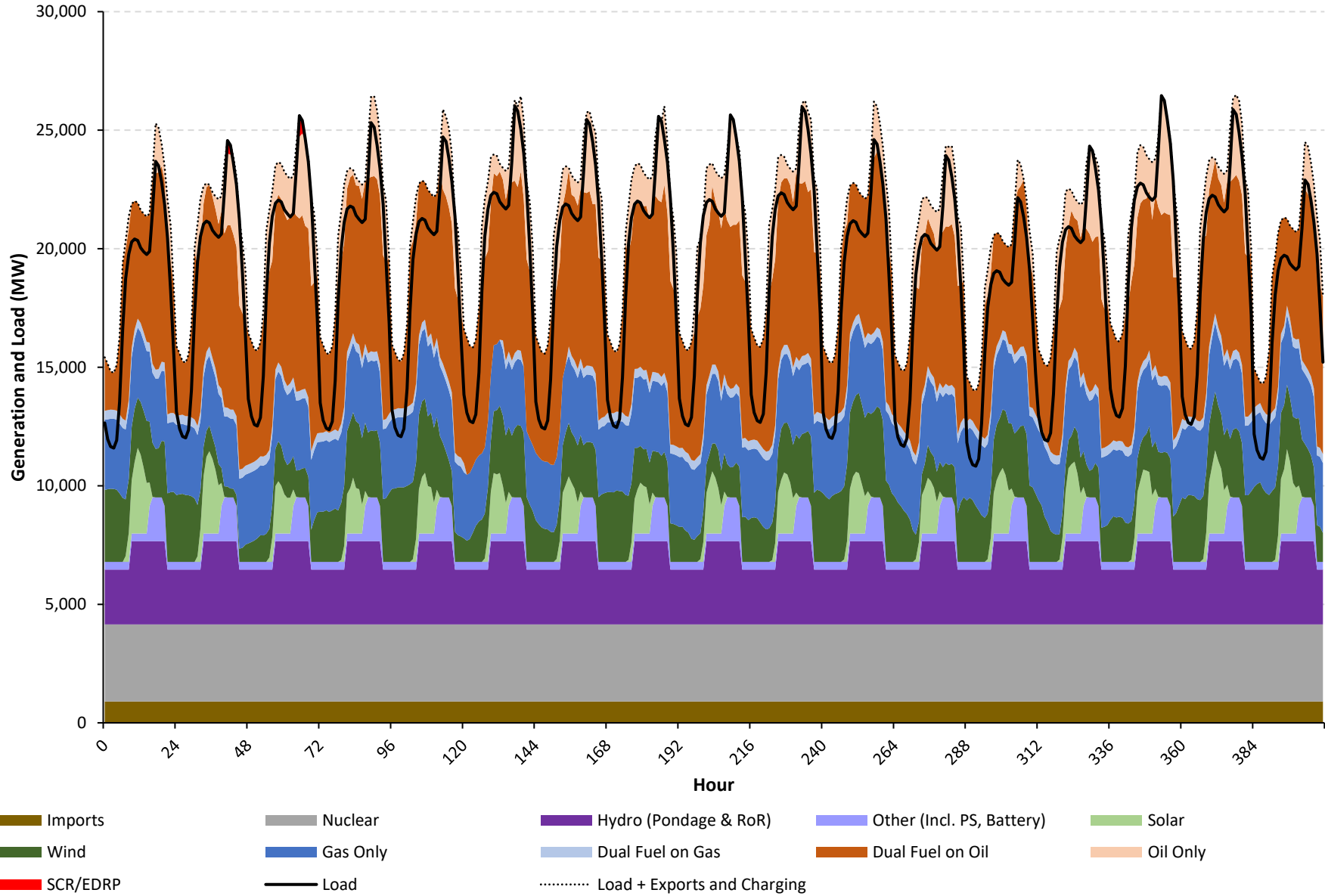
Hours with Loss of Load



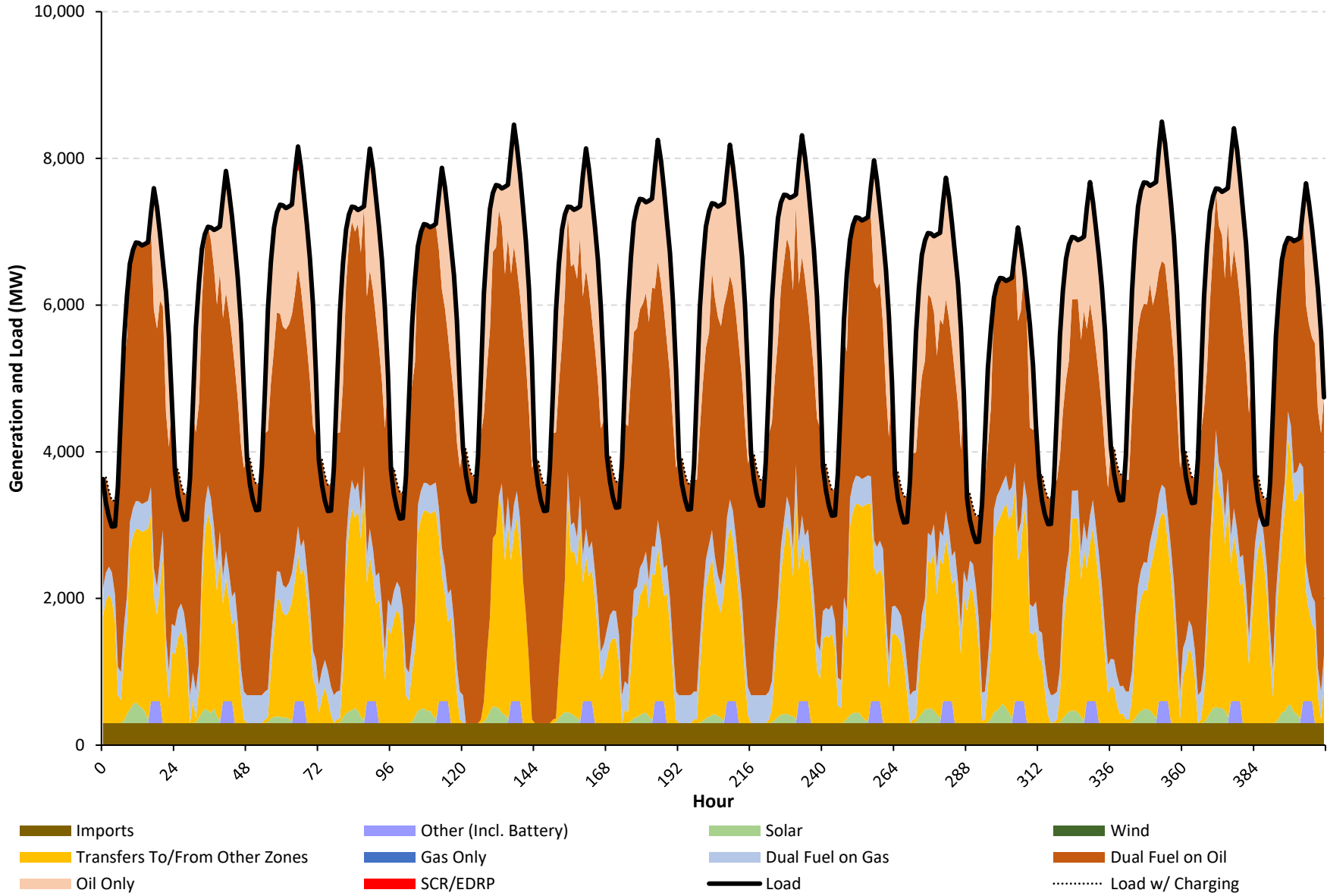
Total MWh of Lost Load



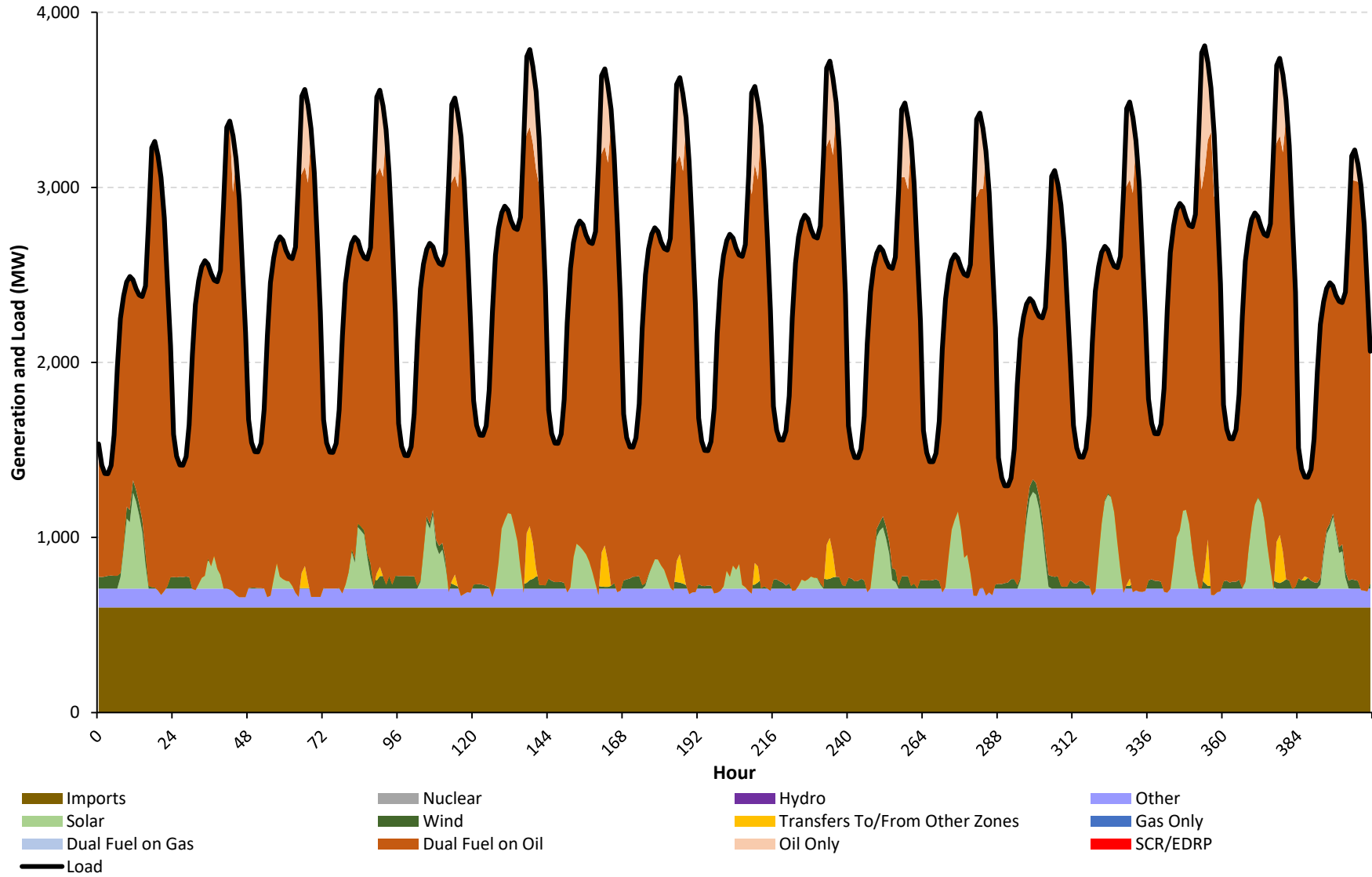
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 2 High Outage



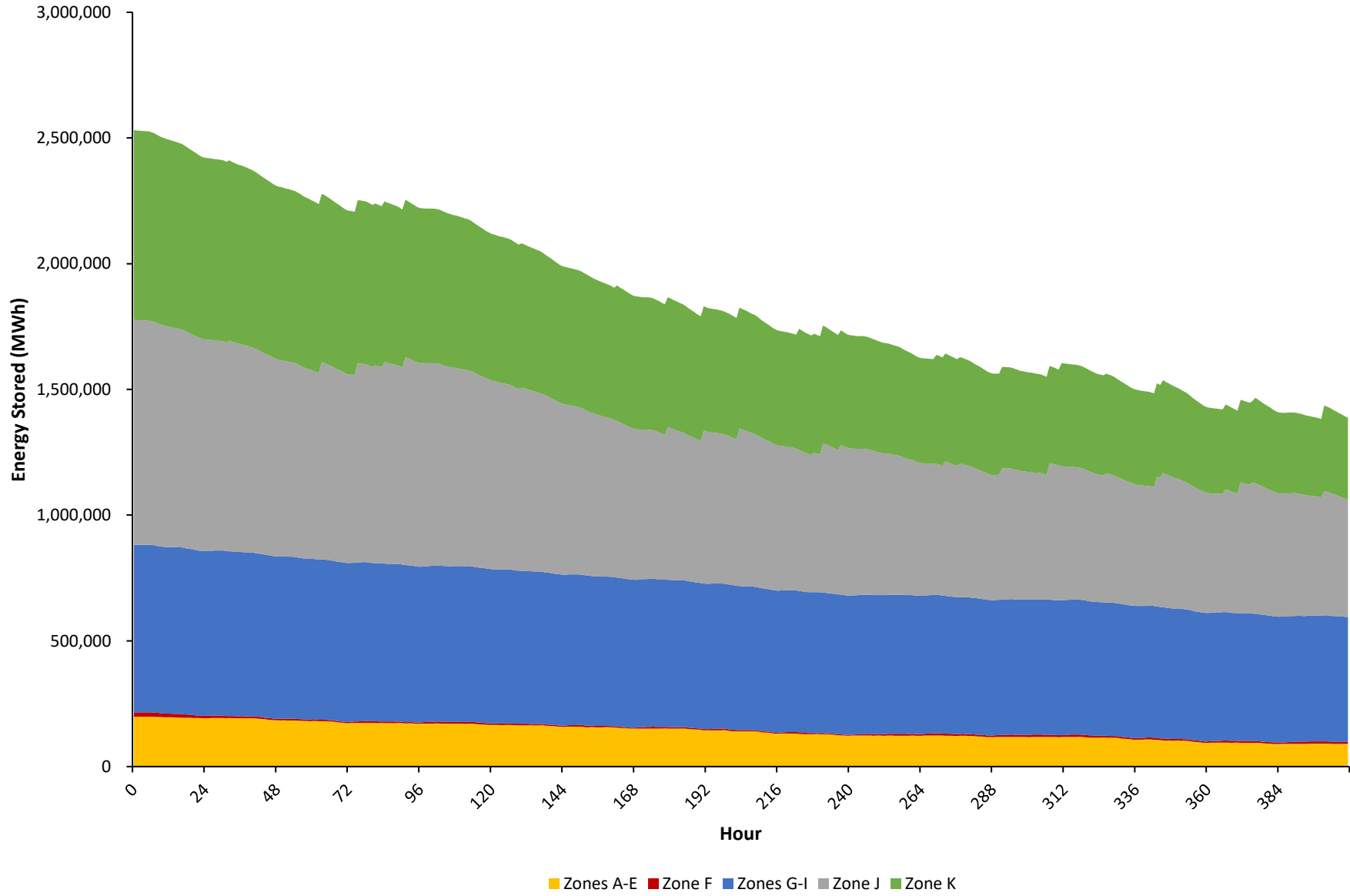
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 2 High Outage

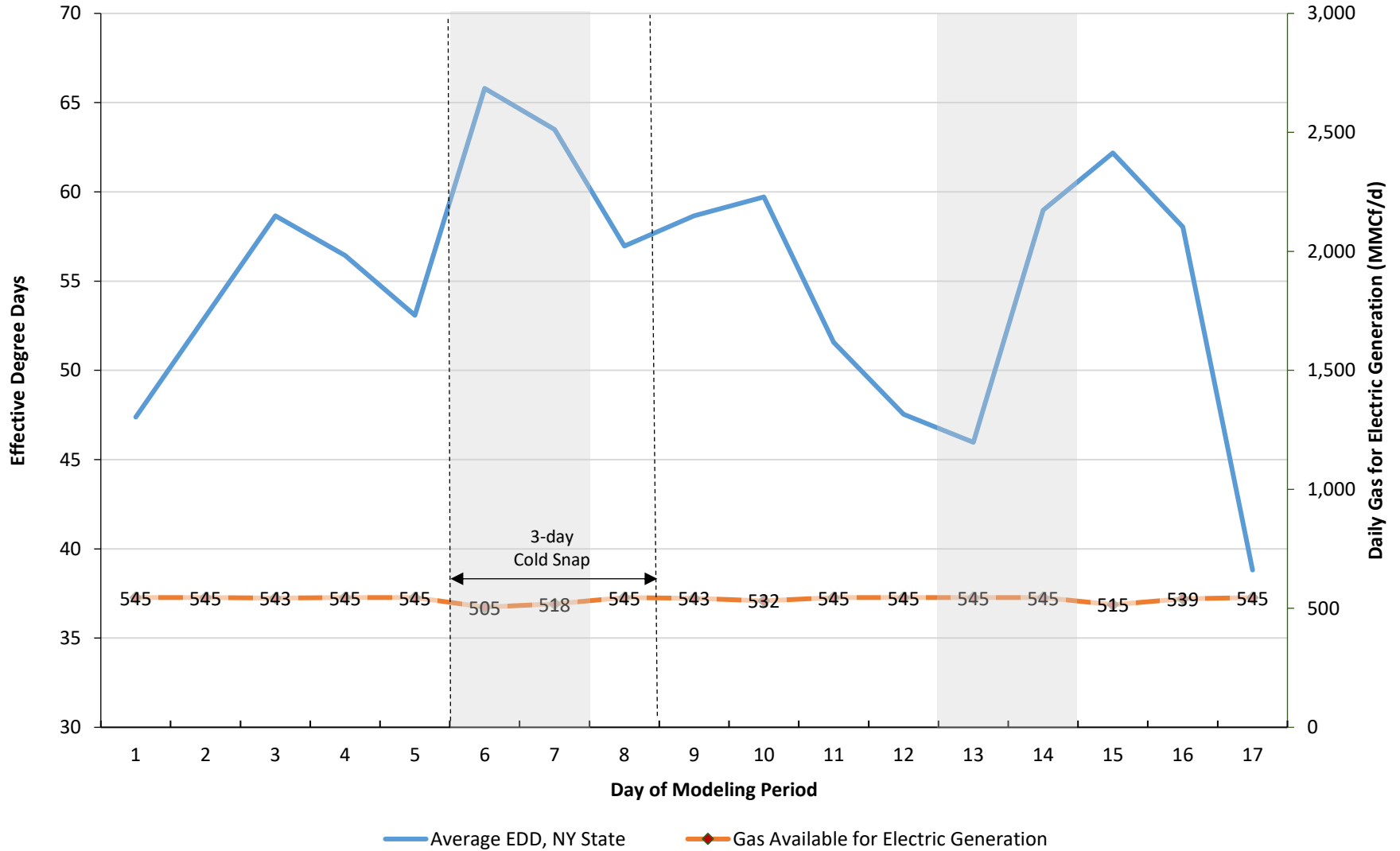


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

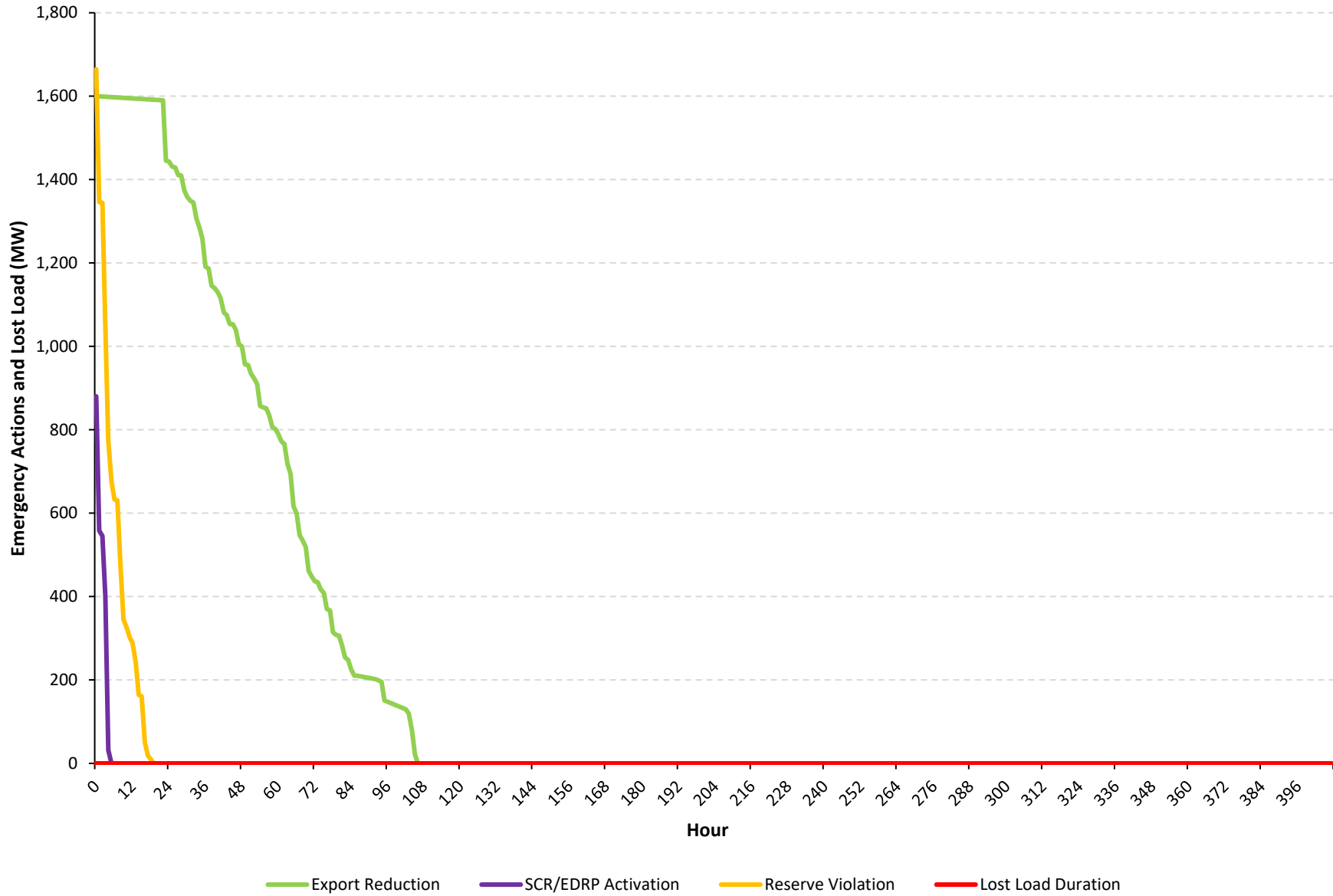
Scenario 5 - PD 2 High Outage



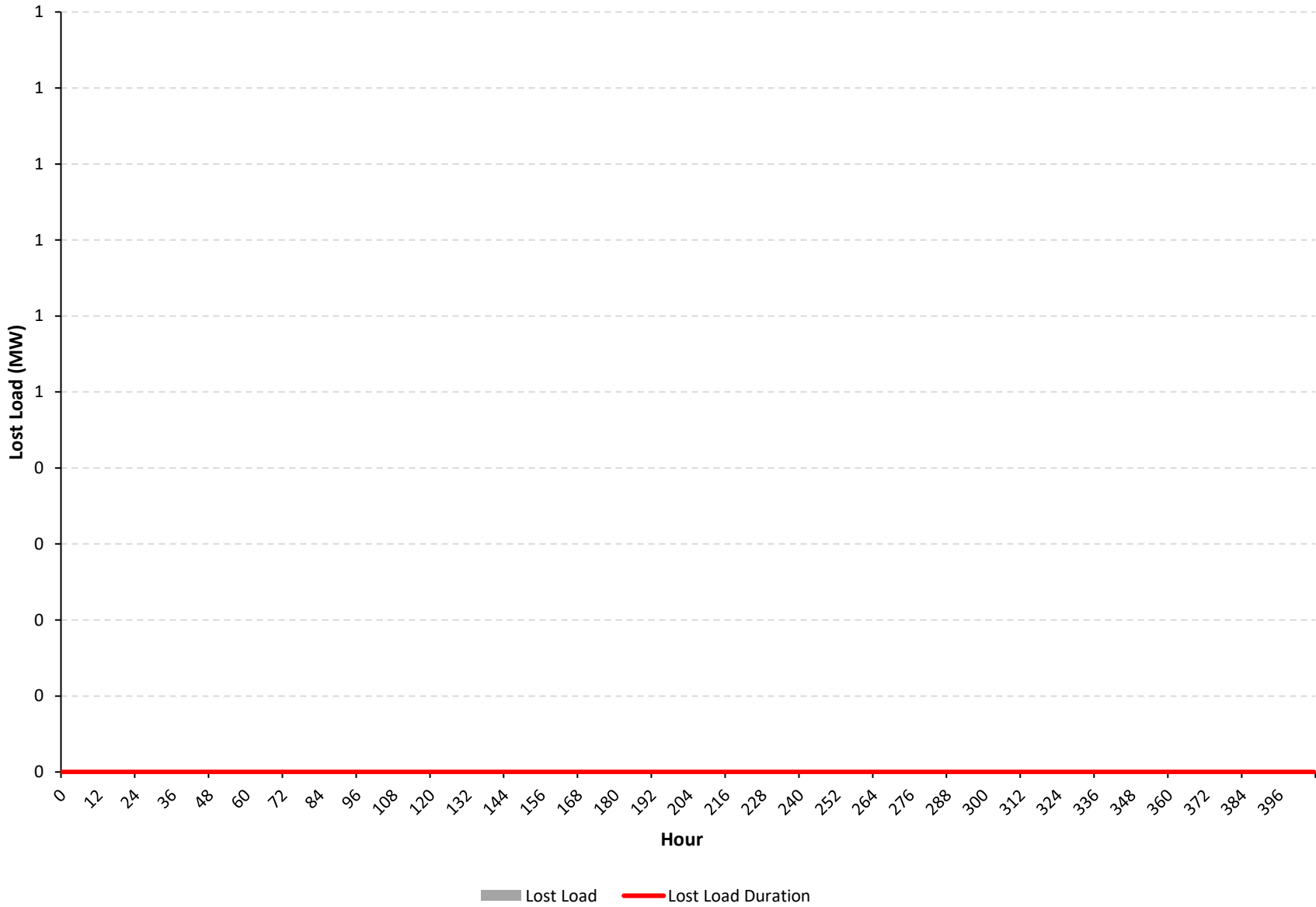
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 5 - PD 2 High Outage

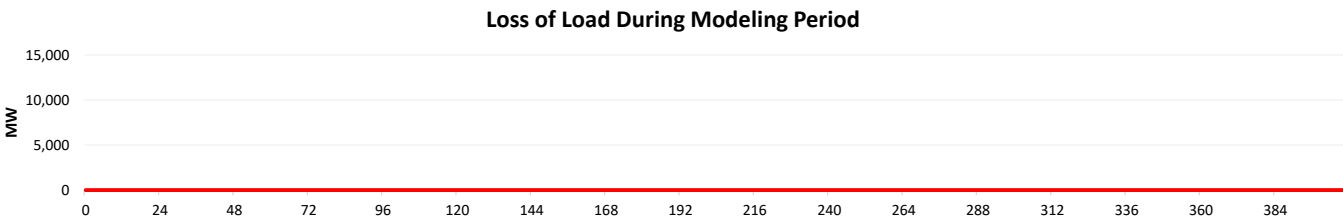
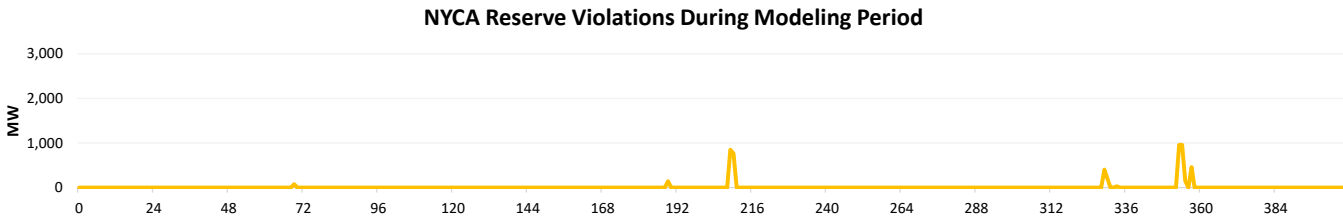
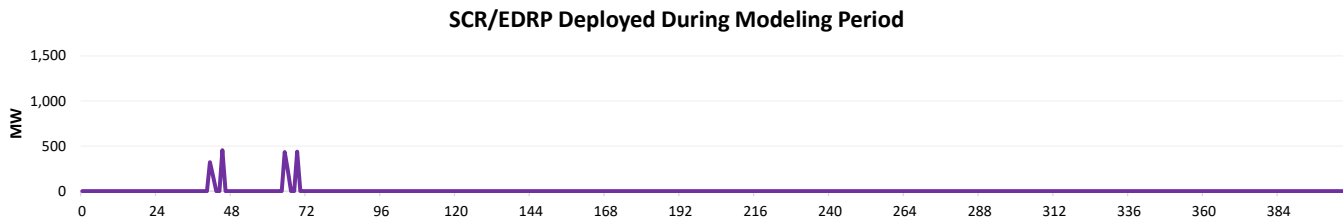
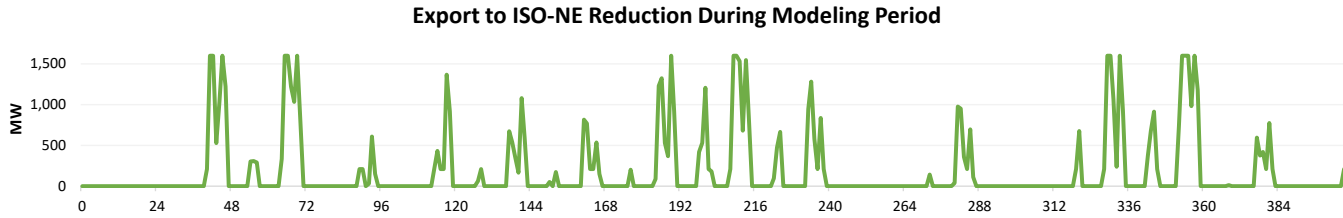
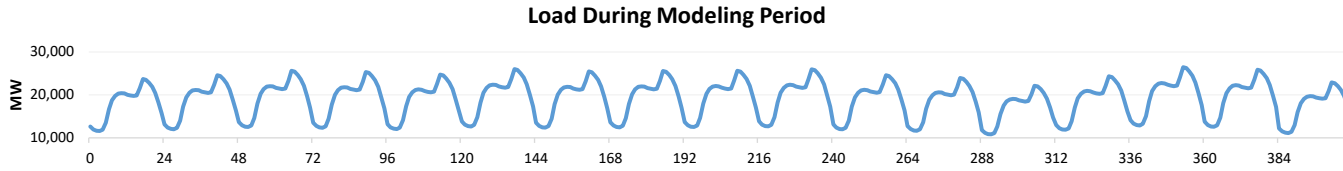


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks
Case: Scenario 5 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 5 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	109
Total MWh	76,034
Avg. MW	186.4

SCR Deployment	
Total Hrs.	6
Total MWh	2,038
Avg. MW	5.0

Reserve Violations	
Total Hrs.	11
Total MWh	4,993
Avg. MW	12.2

First Hour with Viol.	69	First Hour, Zone K
-----------------------	----	--------------------

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0

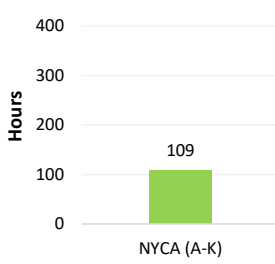
First Hour with Losses		First Hour, Zone K
------------------------	--	--------------------

Full Period Results Summary

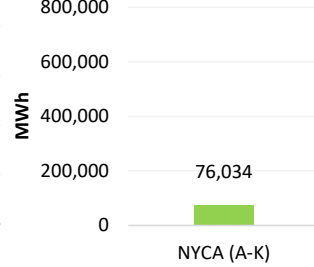
Case Name: Scenario 5 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW

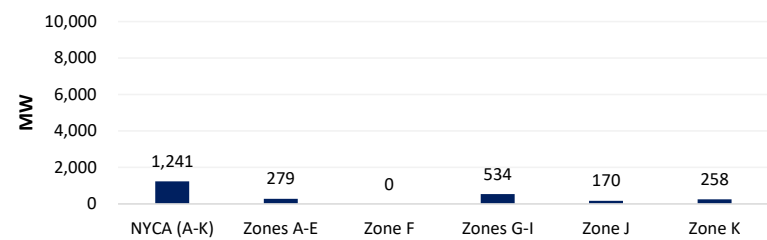
Hours Exports Reduced



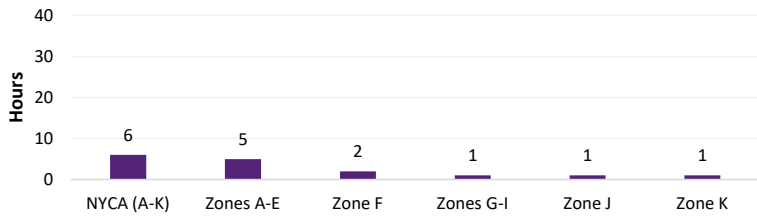
Total MWh of Exports Reduced



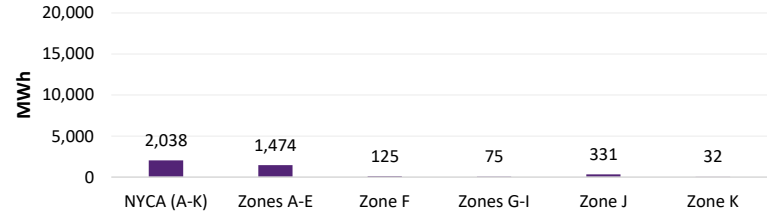
Average Capacity Not Available Due to Exhausted Fuel Inventory



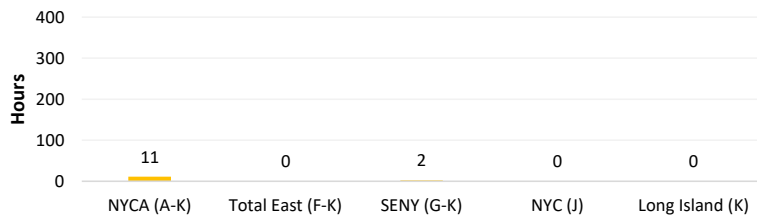
Hours SCR/EDRP Deployed



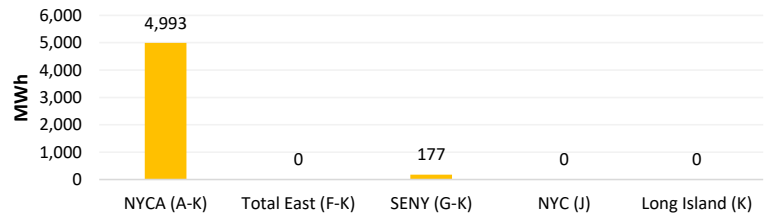
Total MWh SCR/EDRP Deployed



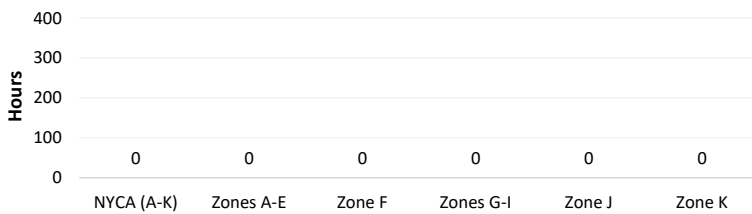
Hours with Reserve Violations



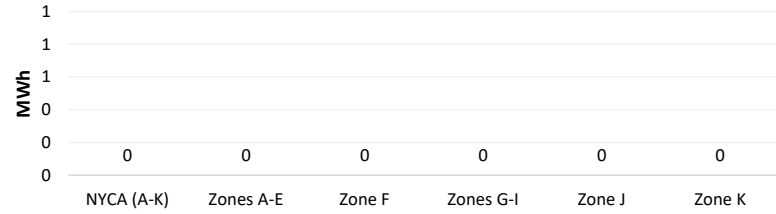
Total MWh of Reserve Violations



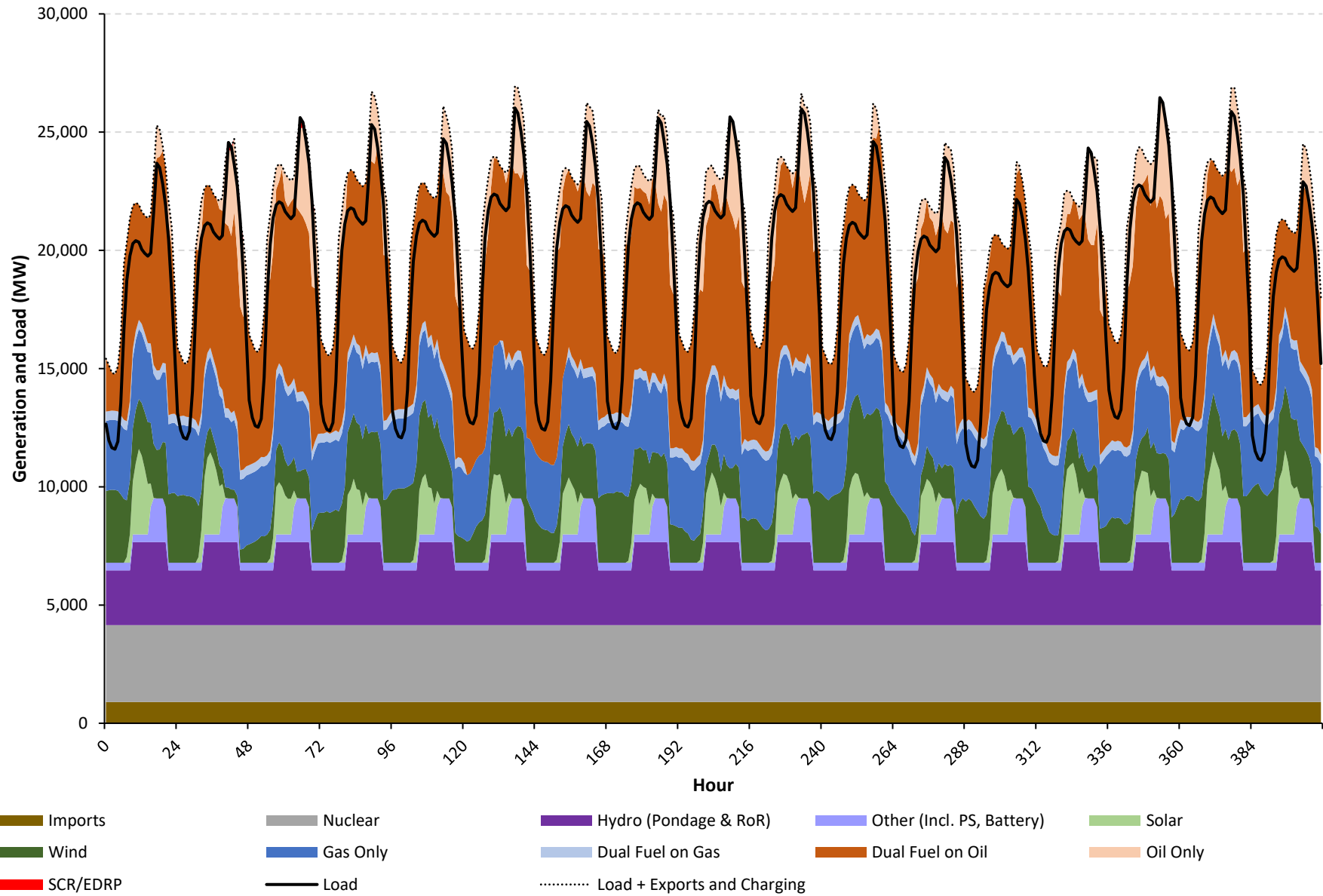
Hours with Loss of Load



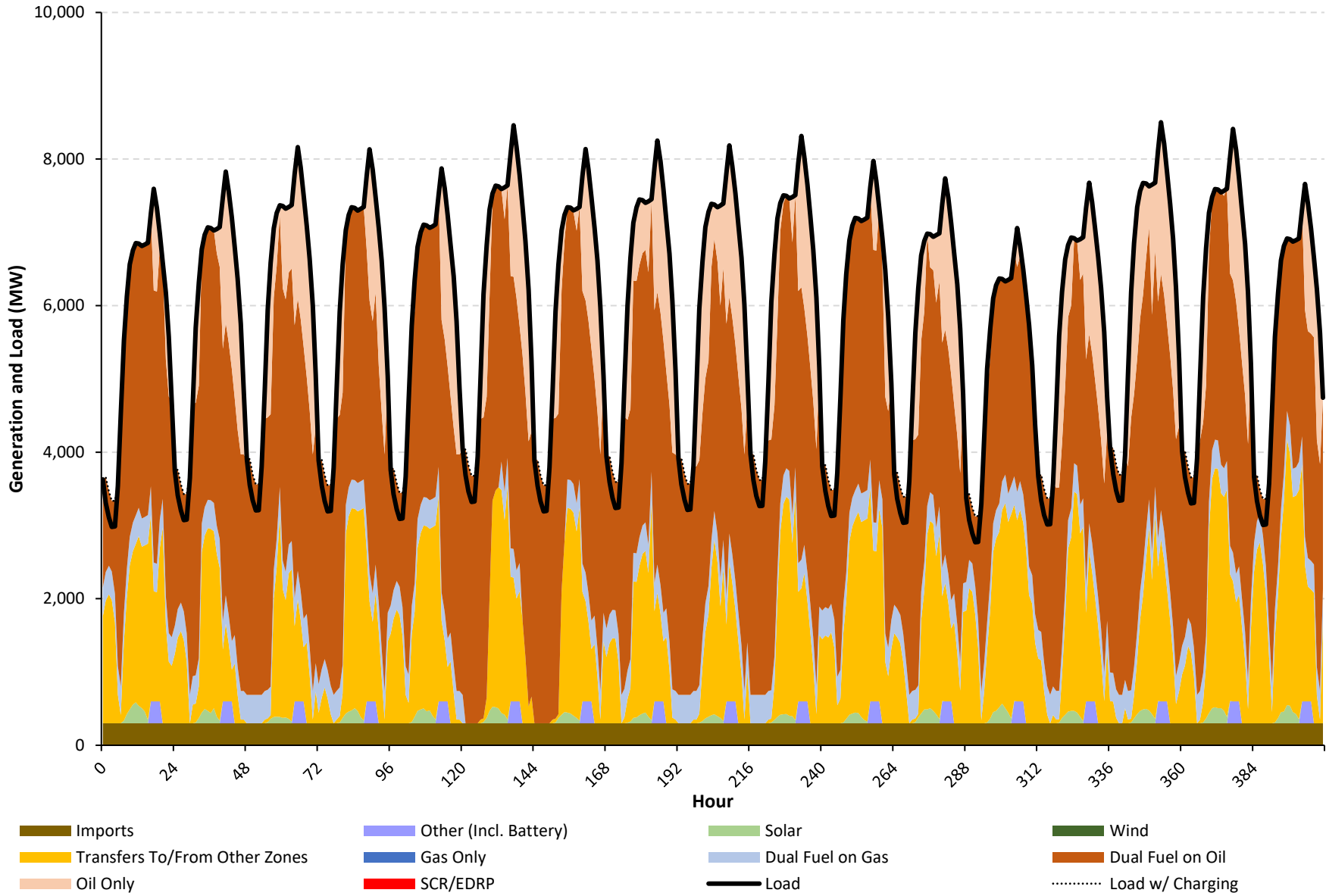
Total MWh of Lost Load



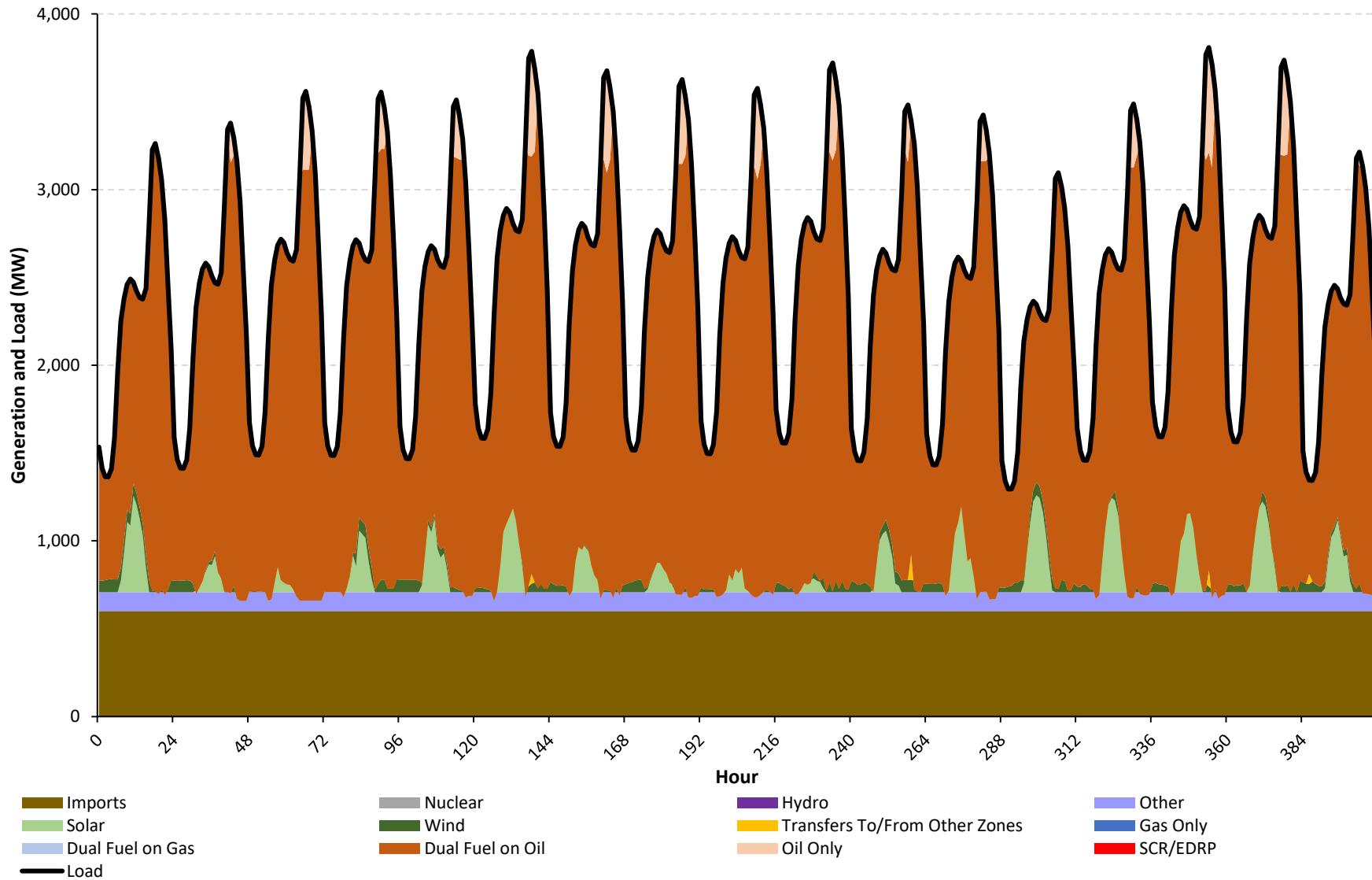
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 3 SENY Deactivation



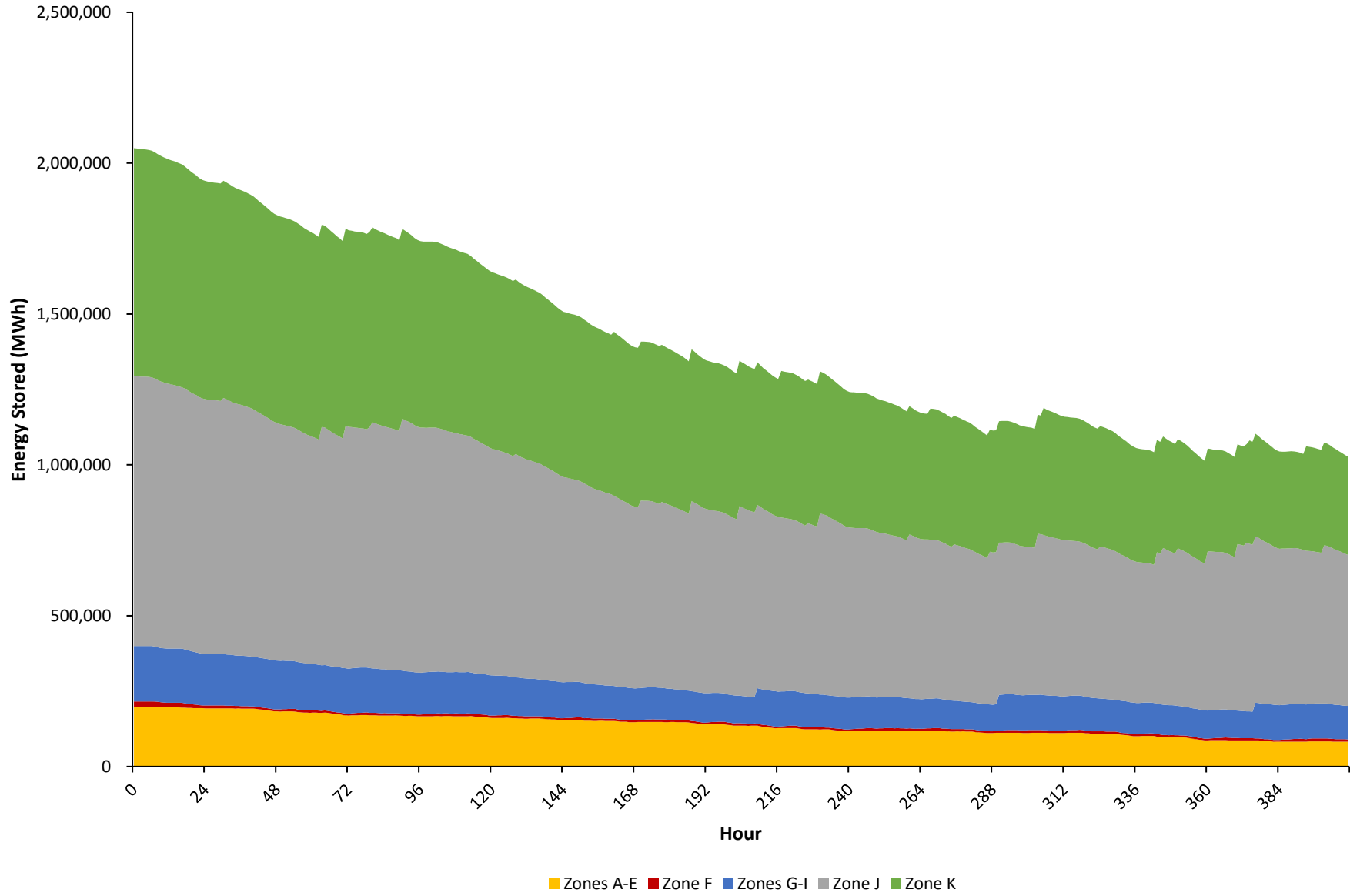
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 3 SENY Deactivation

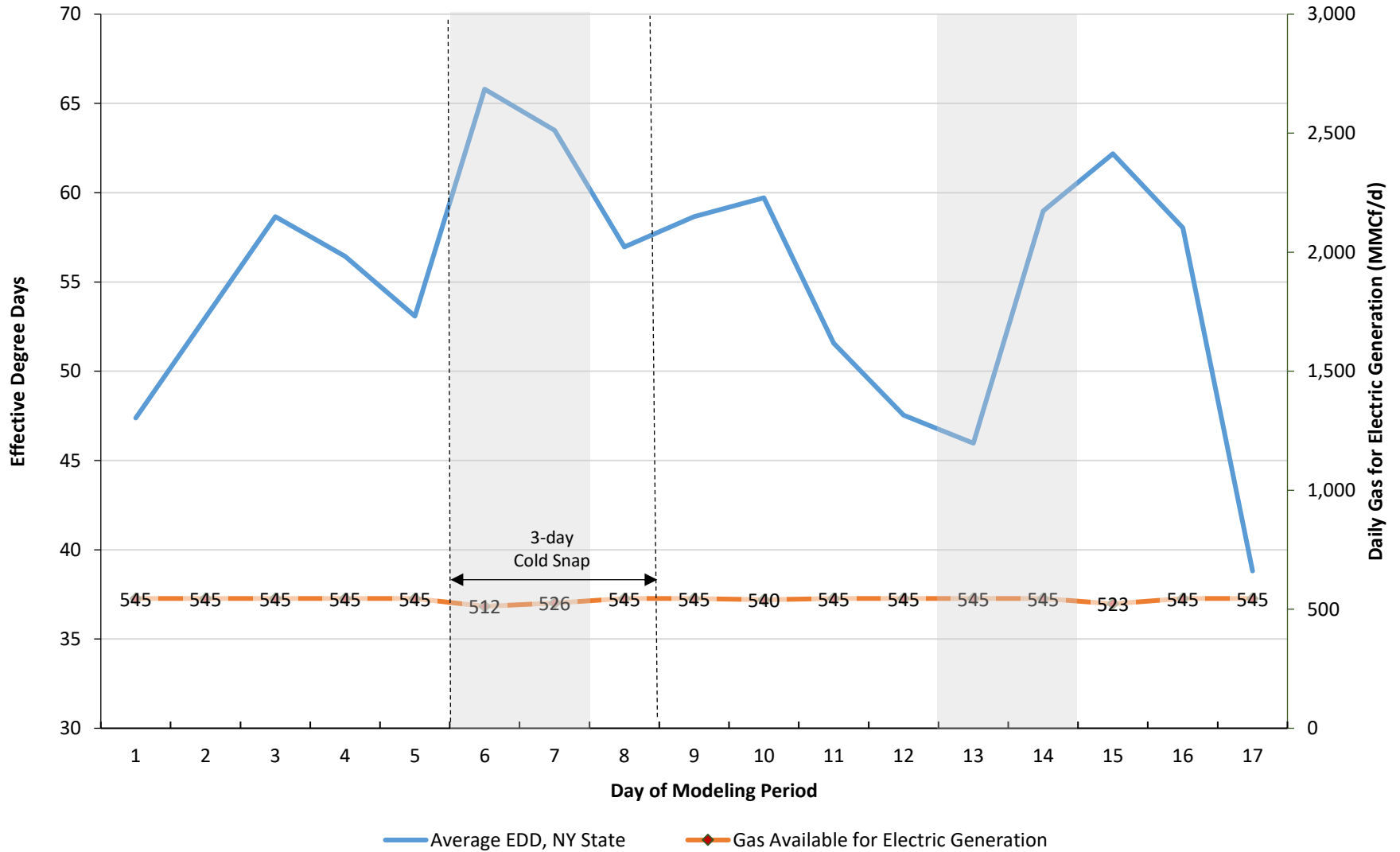


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

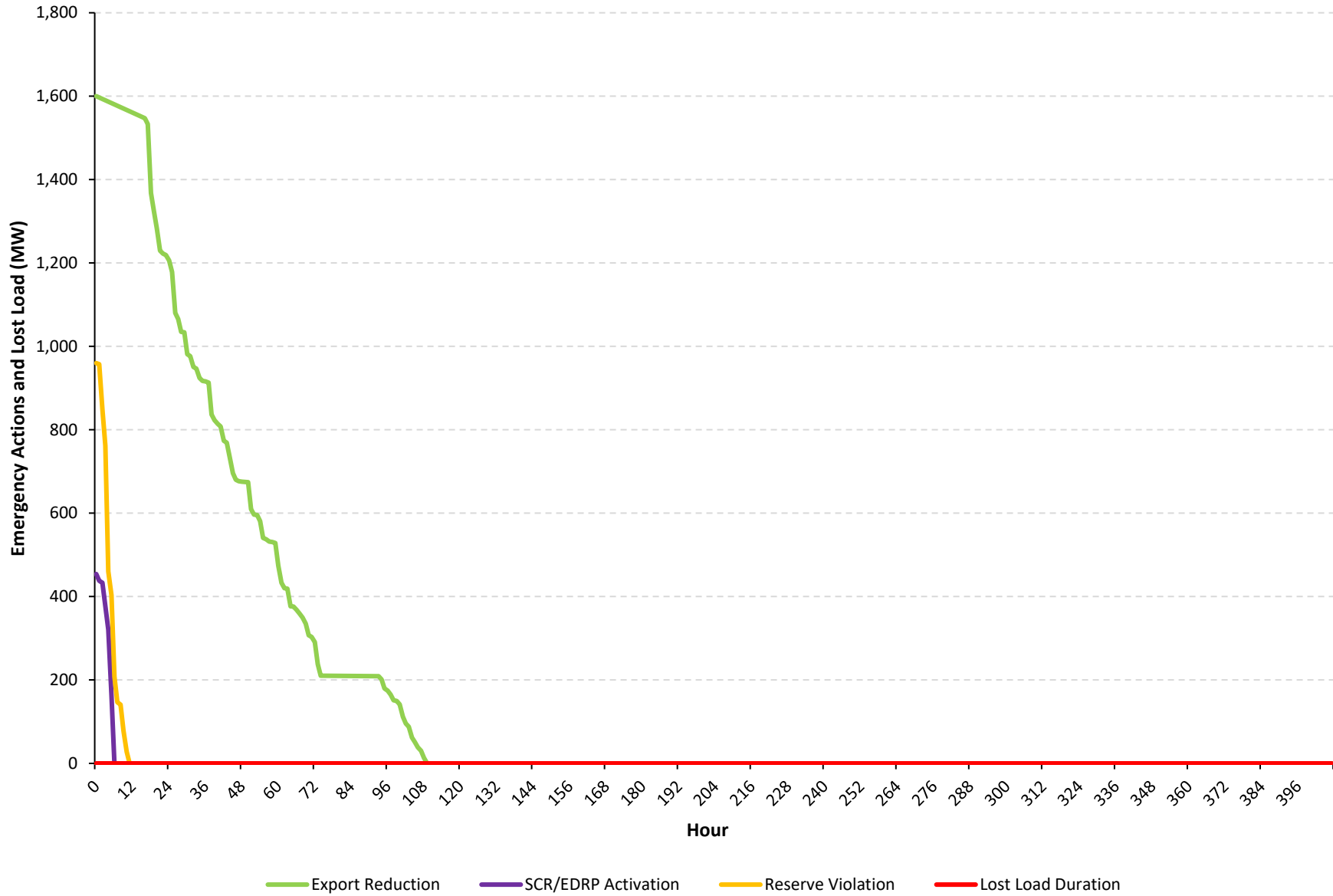
Scenario 5 - PD 3 SENY Deactivation

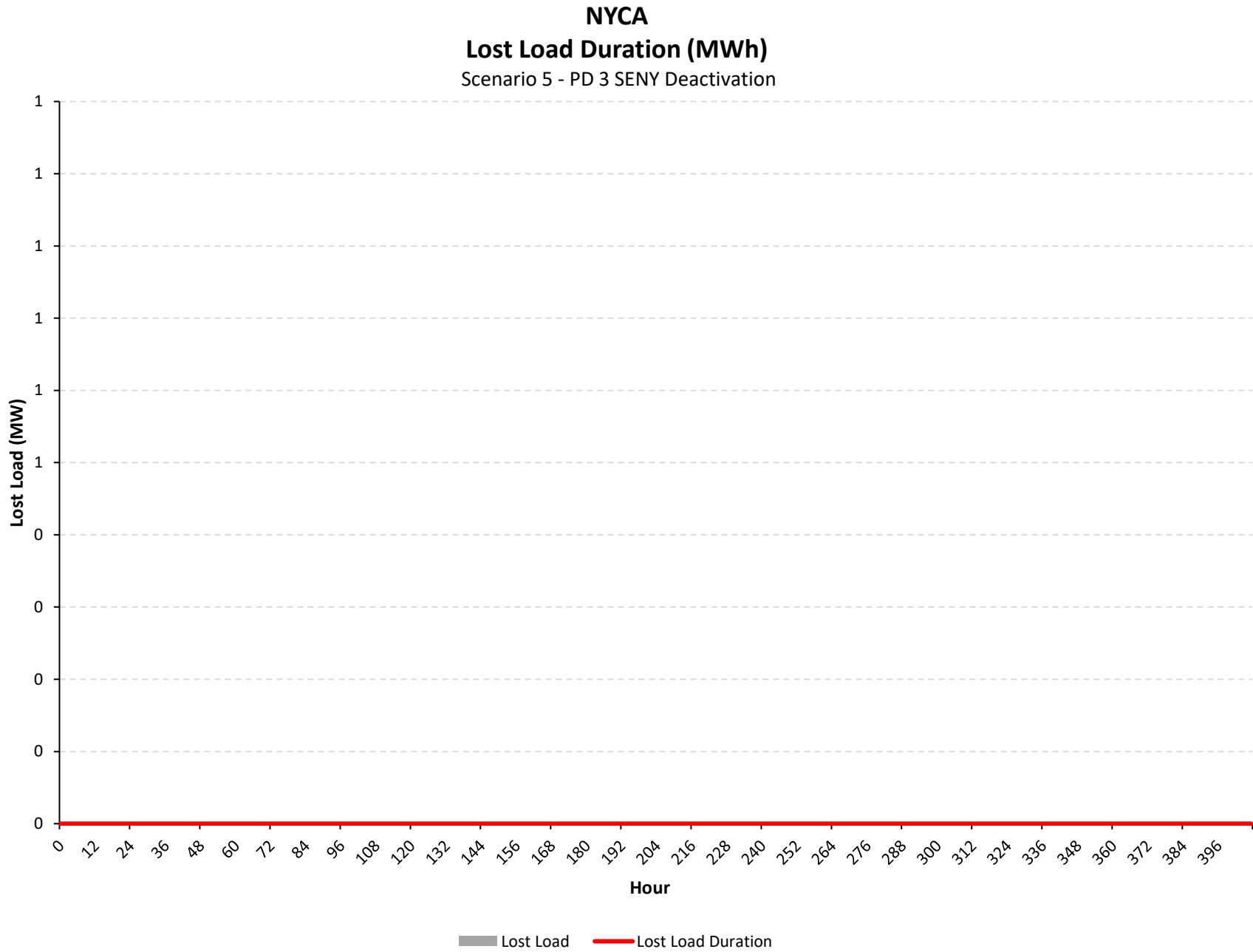


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 3 SENY Deactivation





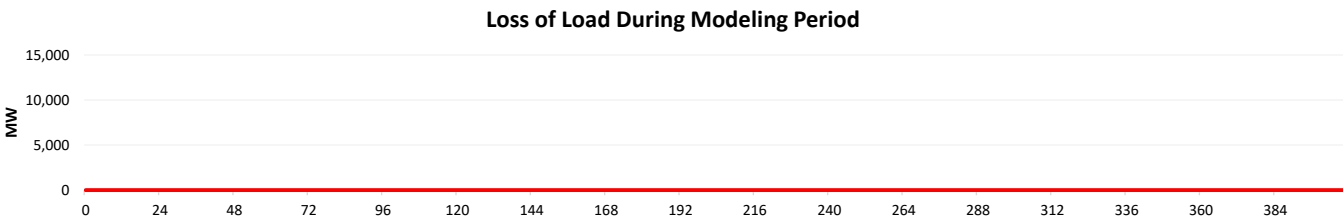
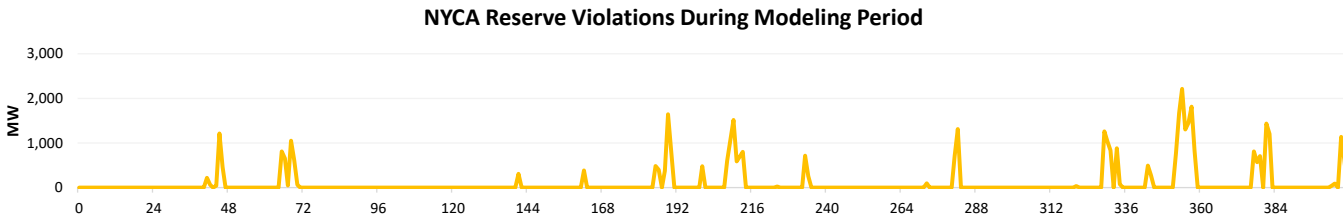
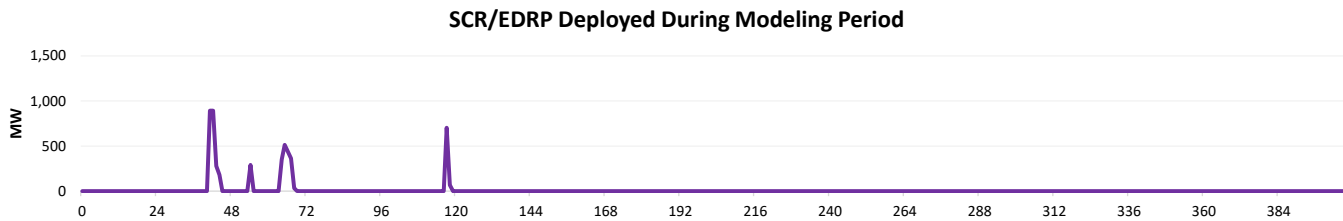
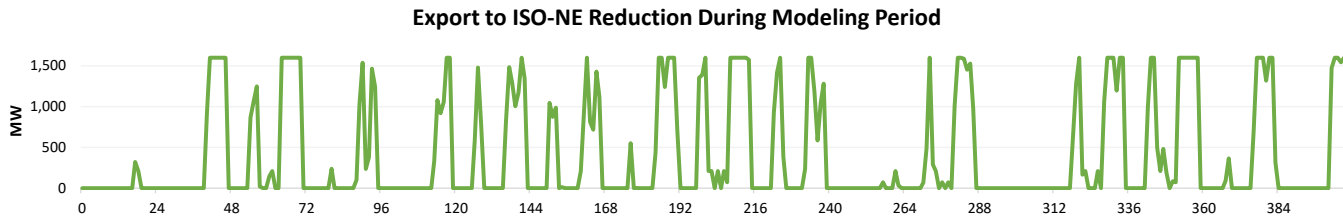
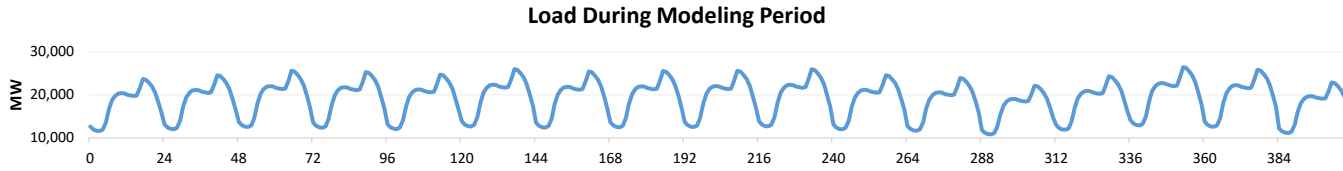
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 5 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	156
Total MWh	163,946
Avg. MW	401.8

SCR Deployment	
Total Hrs.	12
Total MWh	5,005
Avg. MW	12.3

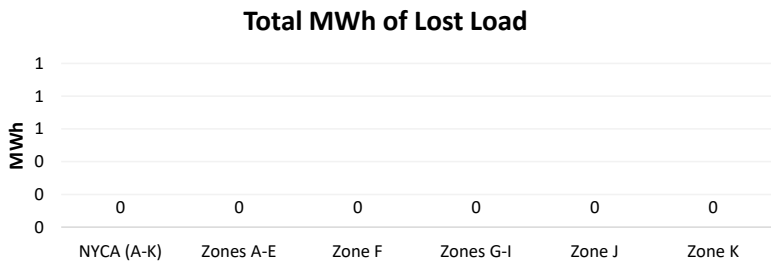
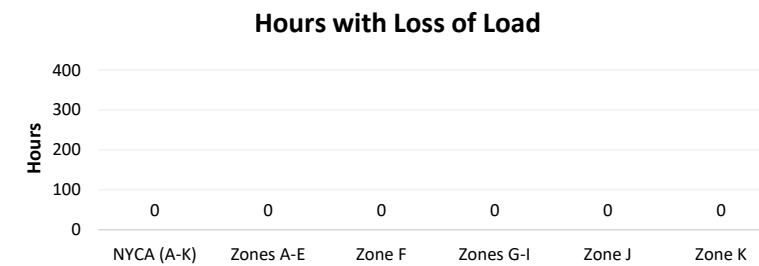
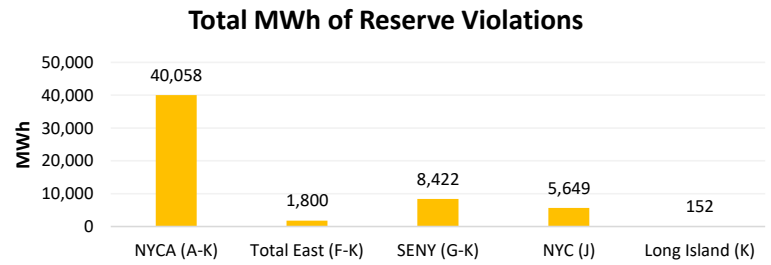
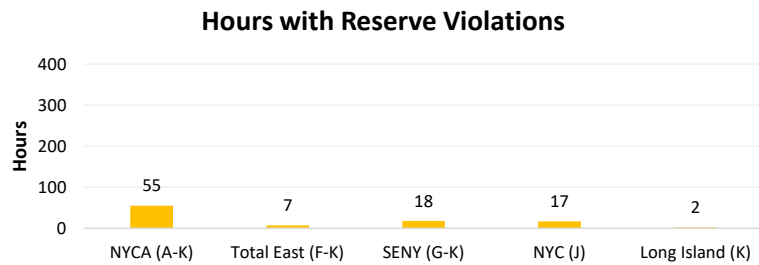
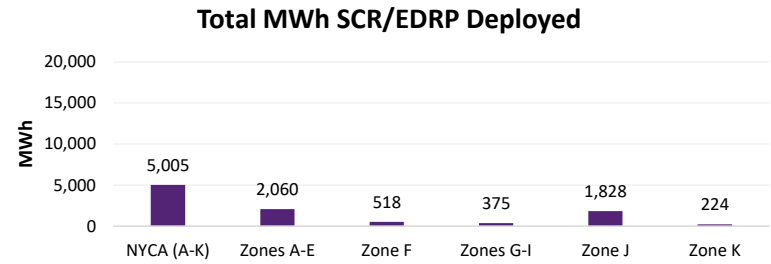
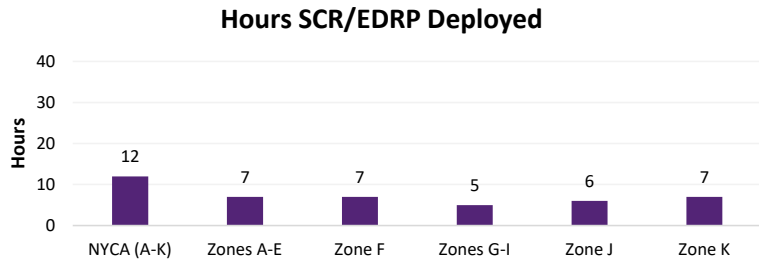
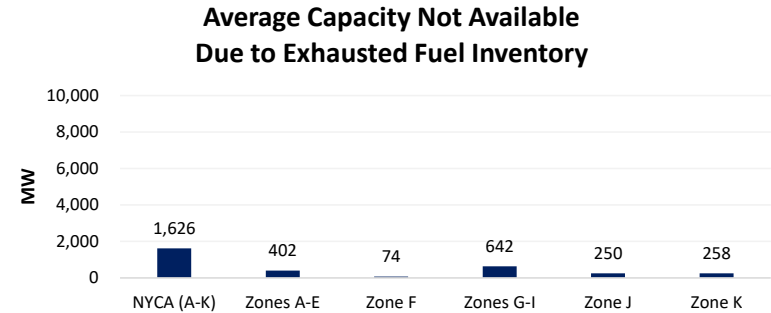
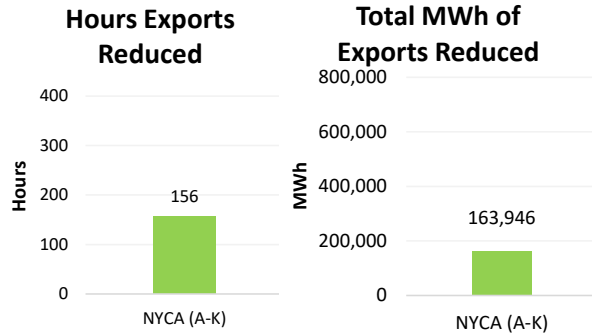
Reserve Violations	
Total Hrs.	55
Total MWh	40,058
Avg. MW	98.2
First Hour with Viol.	41
First Hour, Zone K	353

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

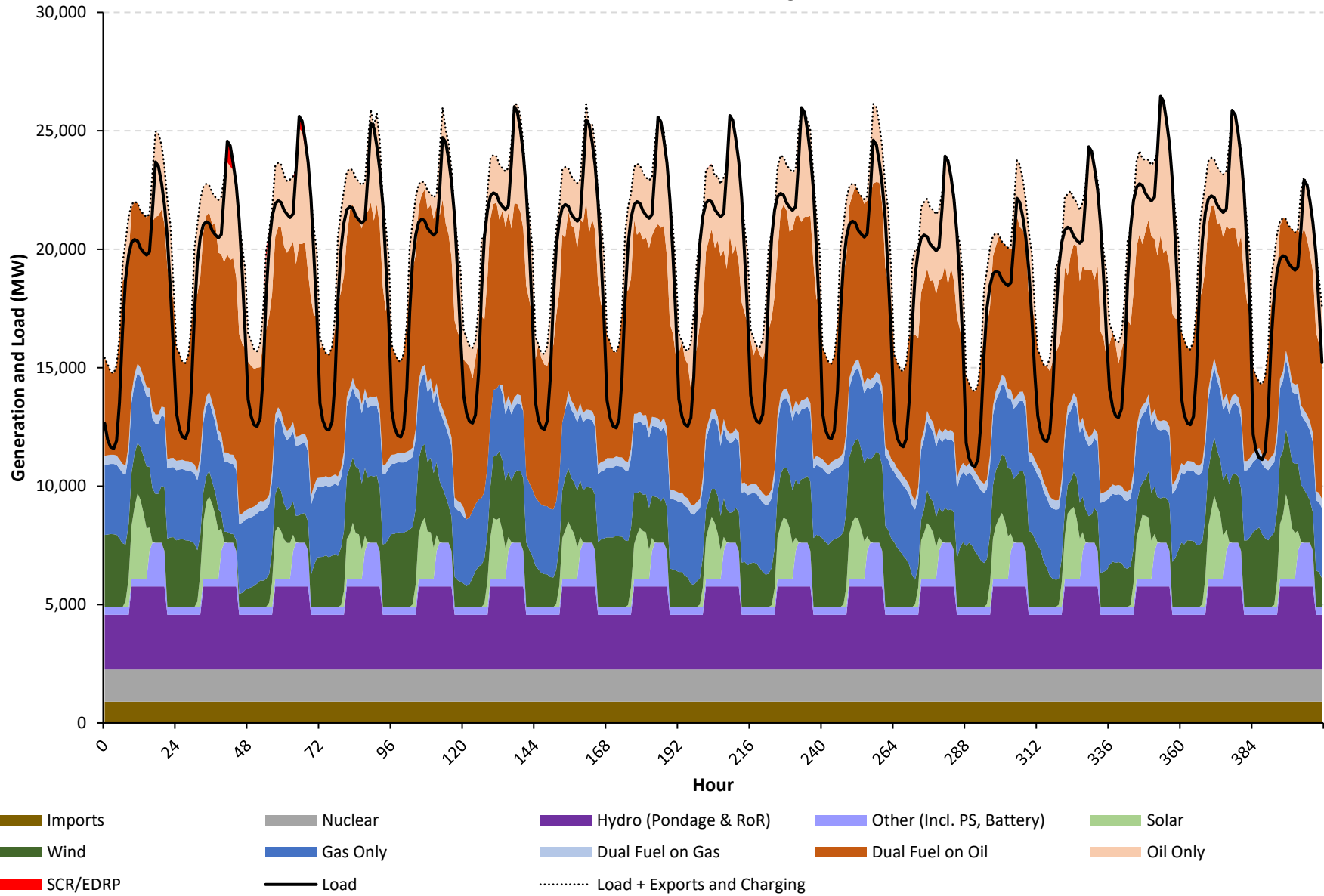
Full Period Results Summary

Case Name: Scenario 5 - PD 4 Nuclear Outage

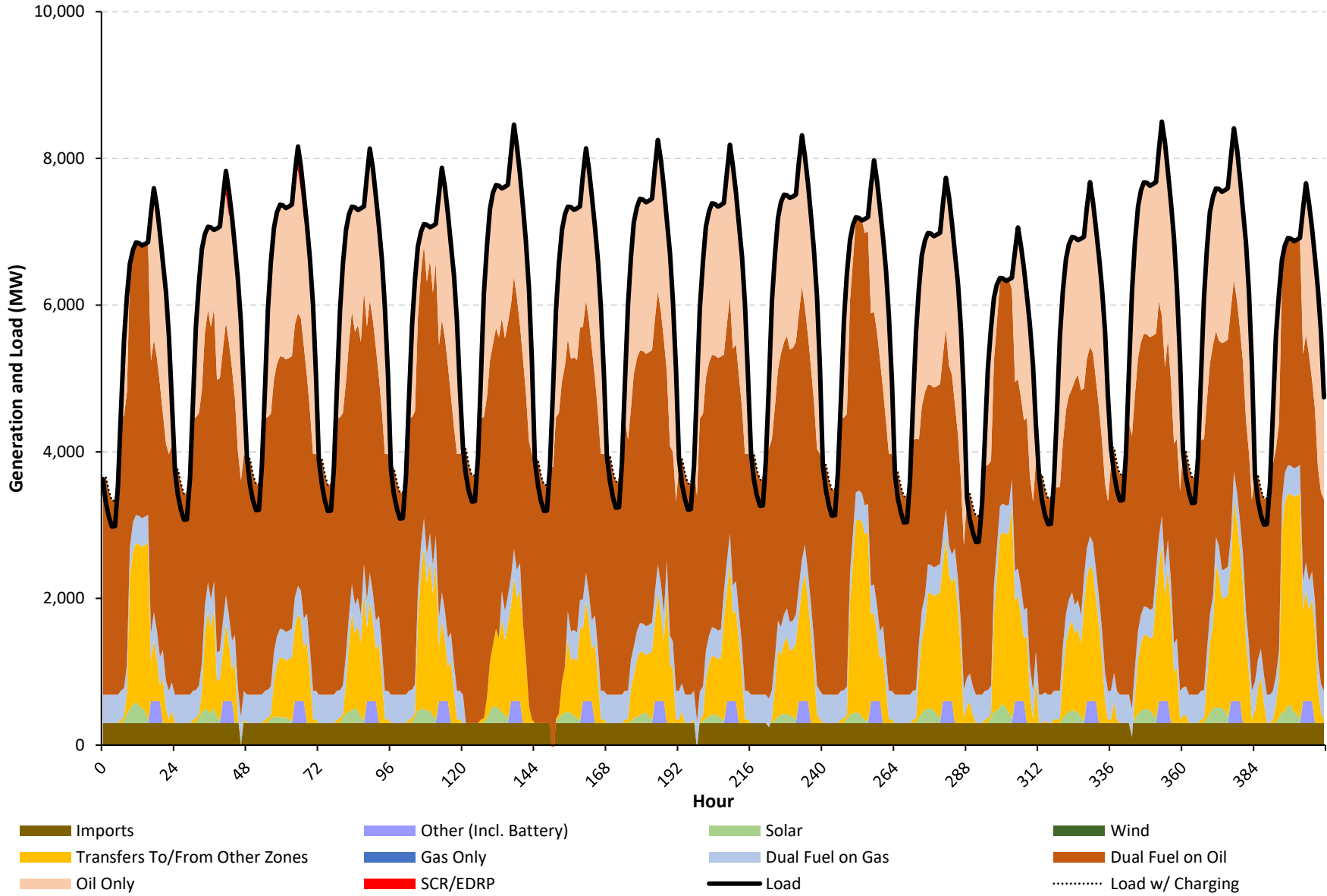
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	900 MW



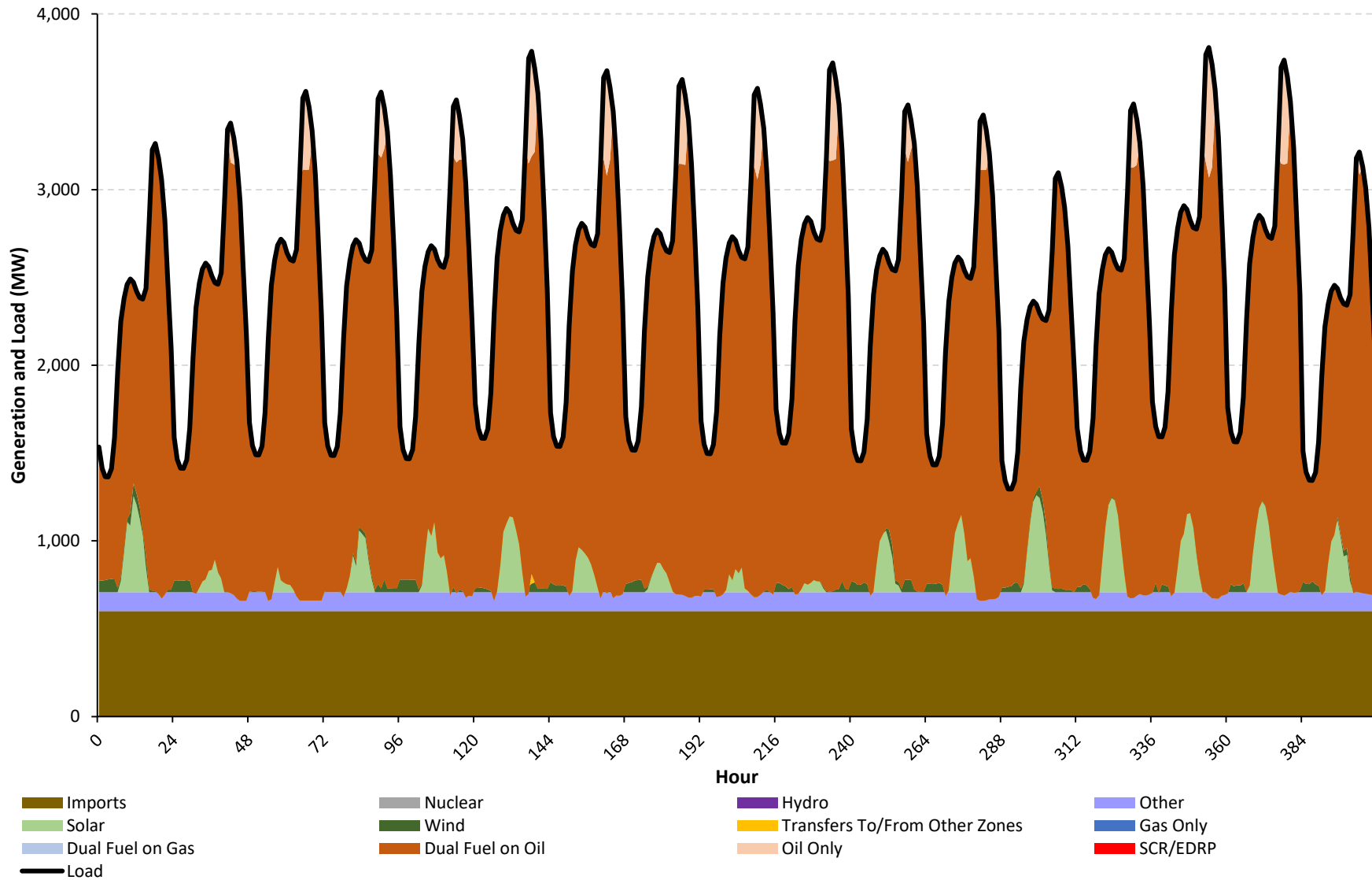
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 4 Nuclear Outage



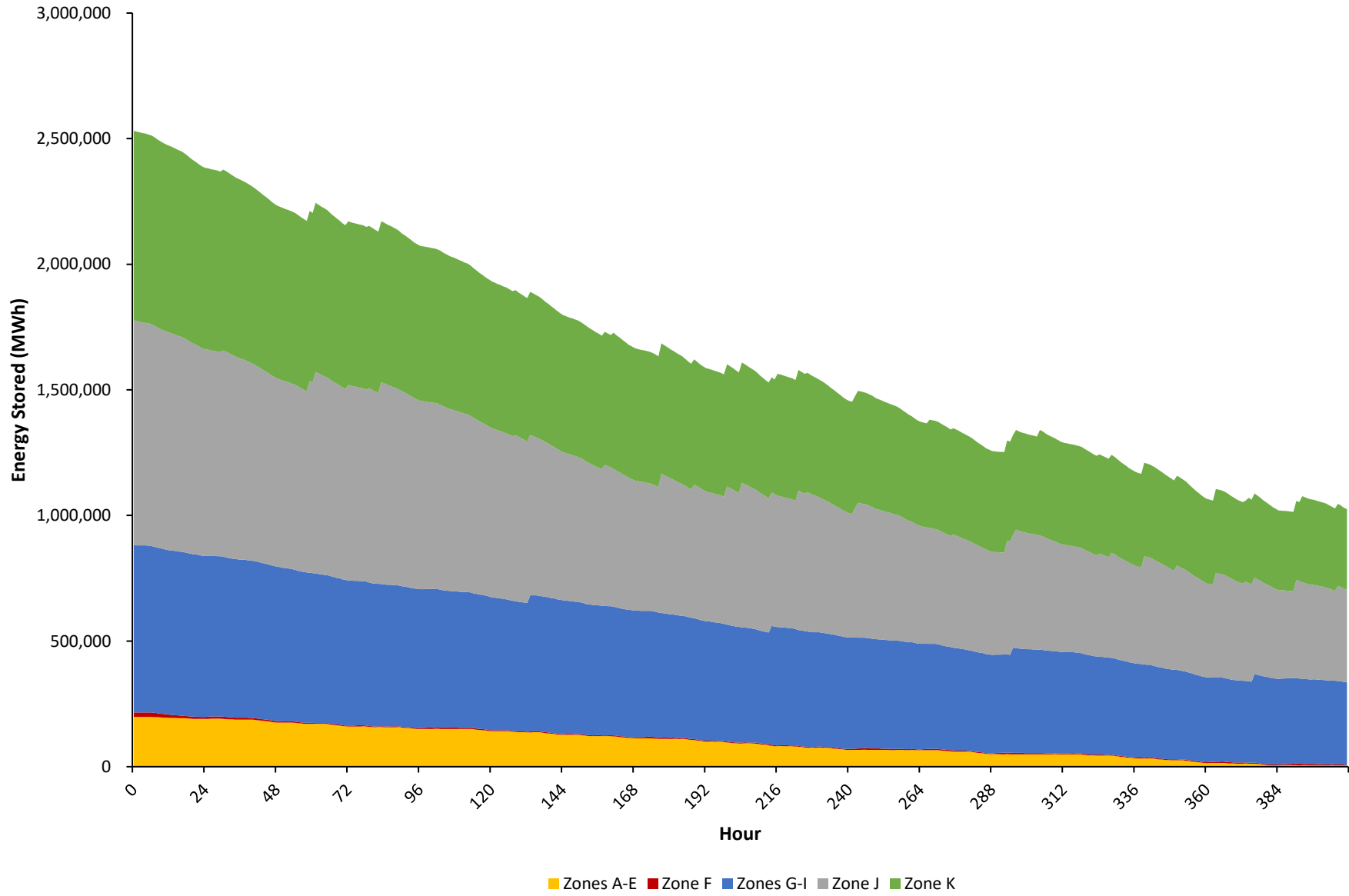
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 4 Nuclear Outage



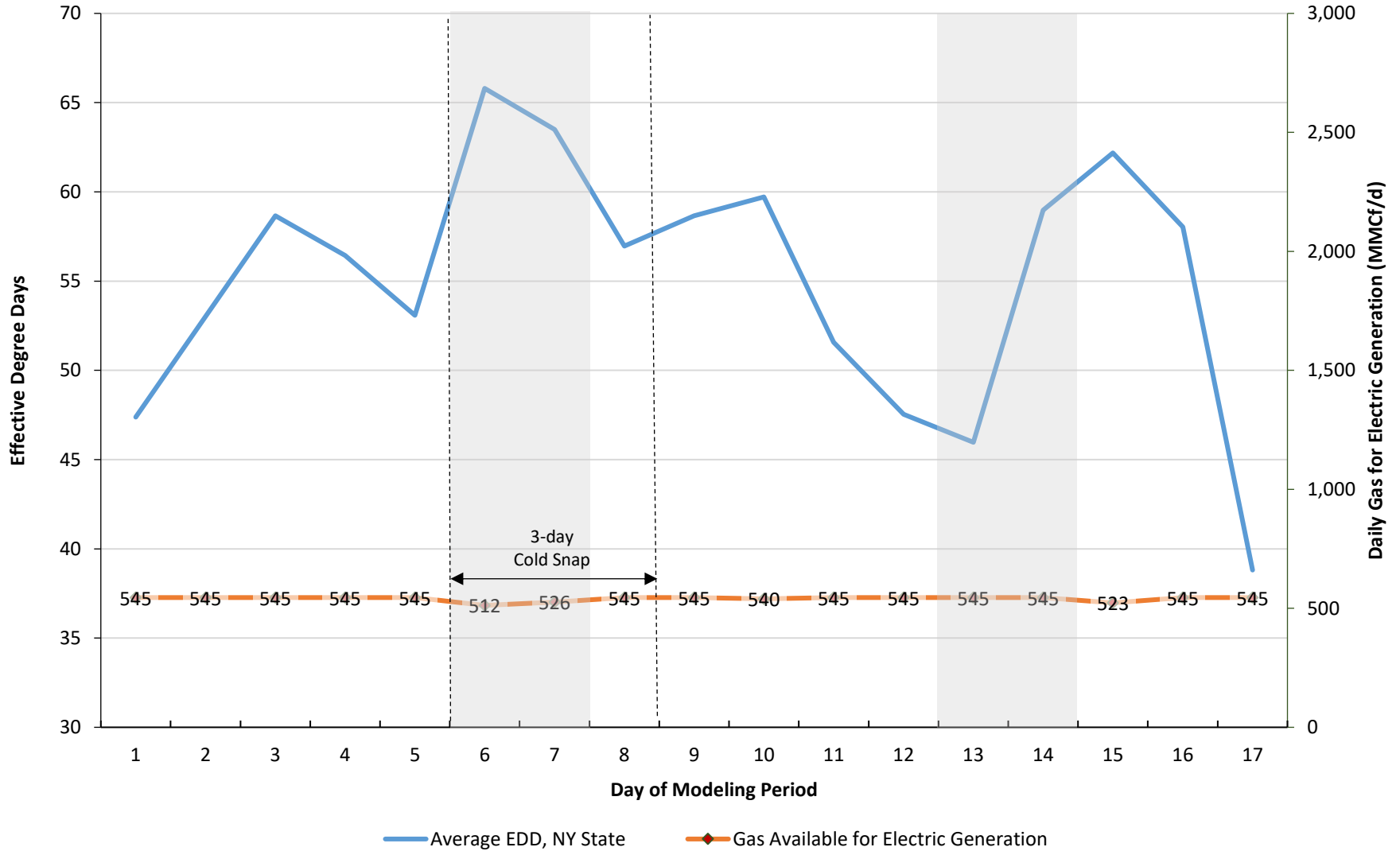
Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 4 Nuclear Outage



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 4 Nuclear Outage



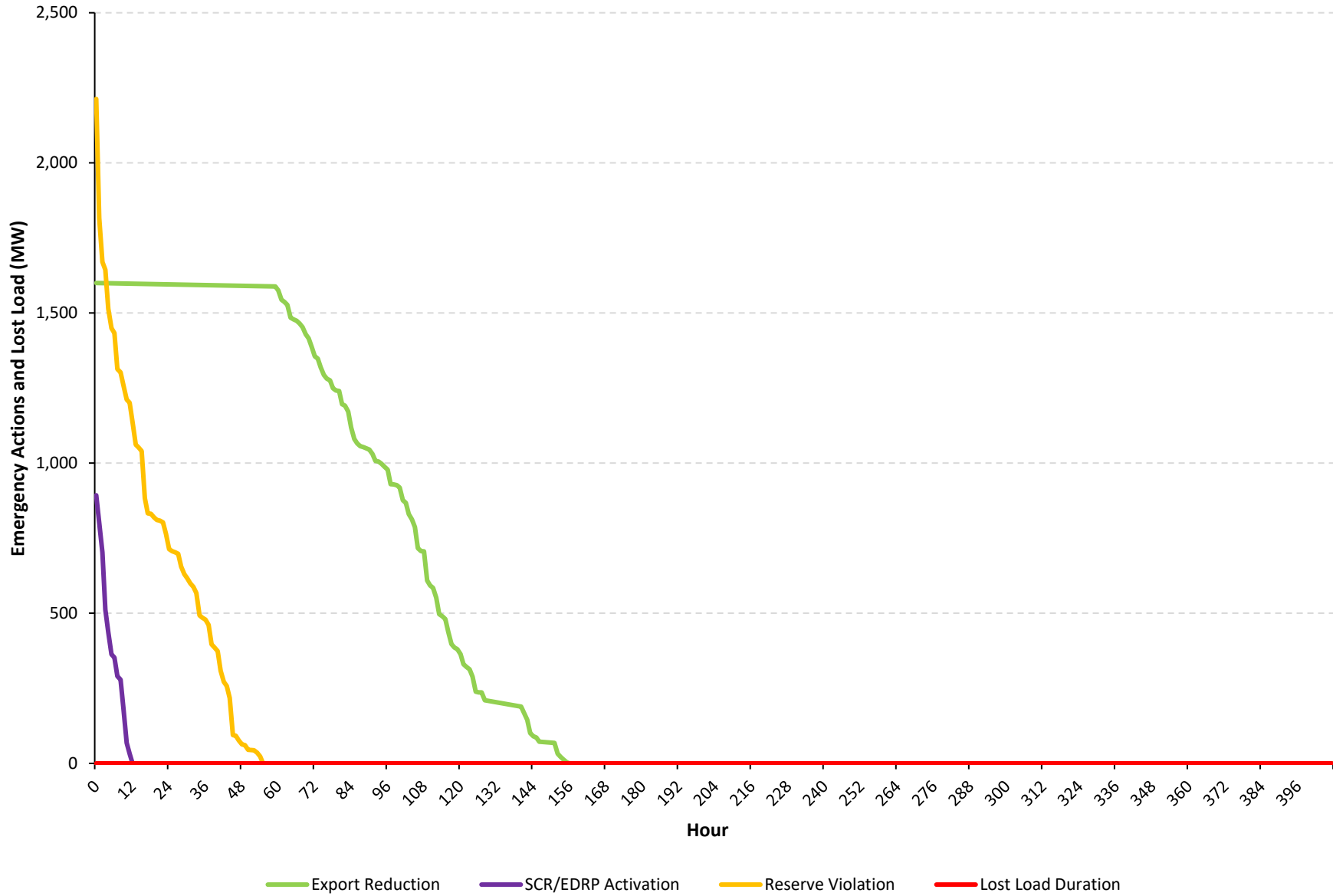
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 5 - PD 4 Nuclear Outage



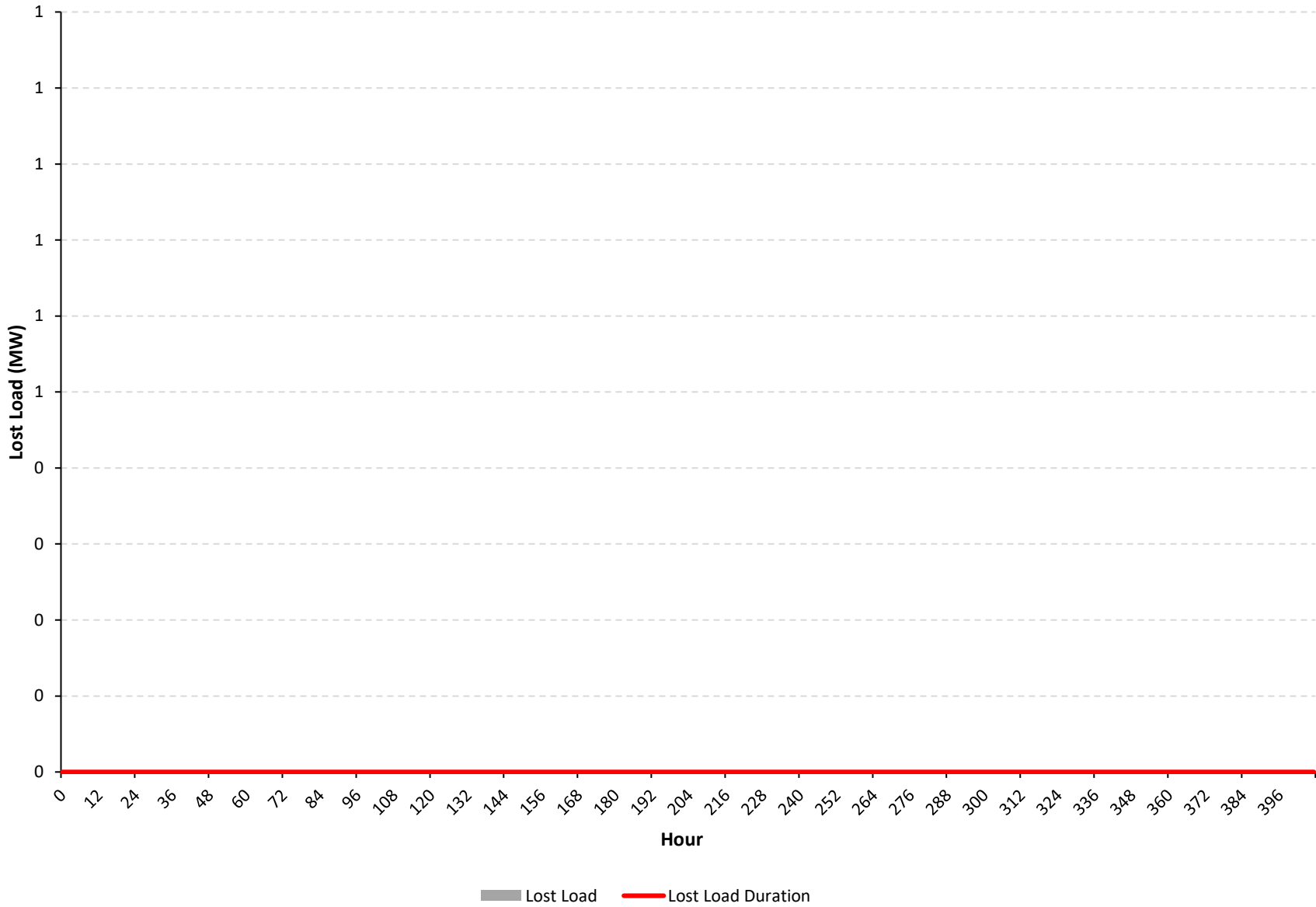
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 5 - PD 4 Nuclear Outage



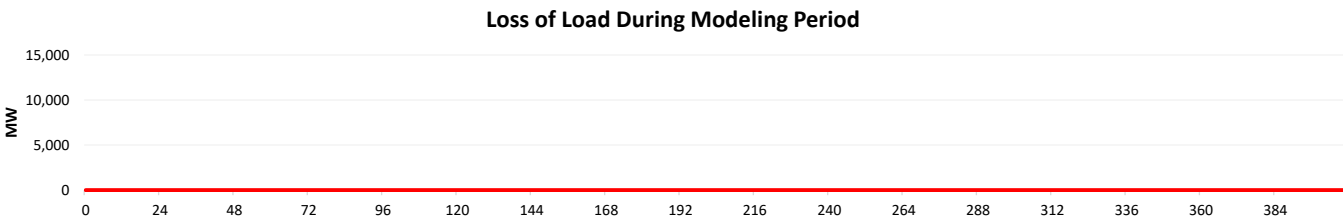
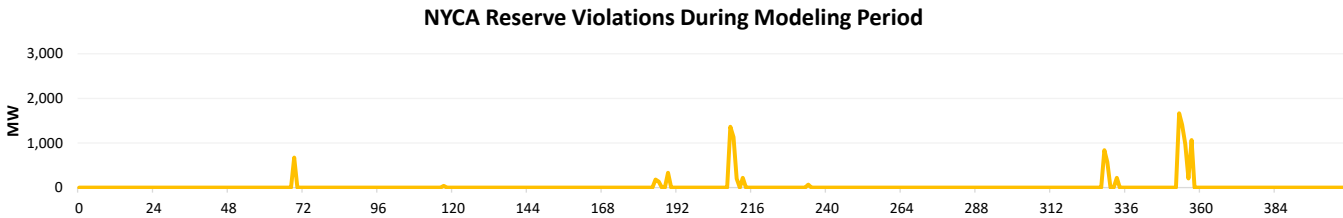
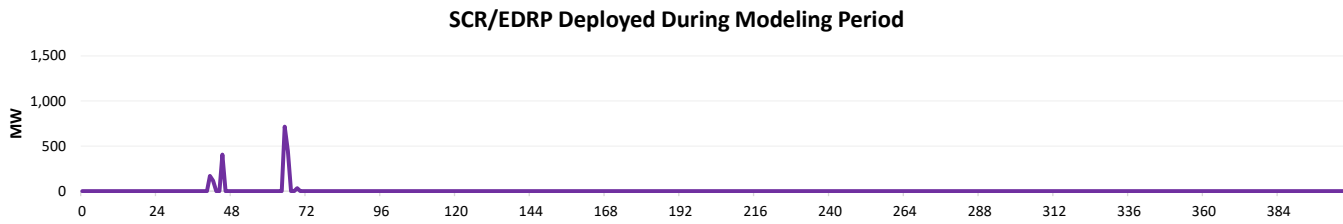
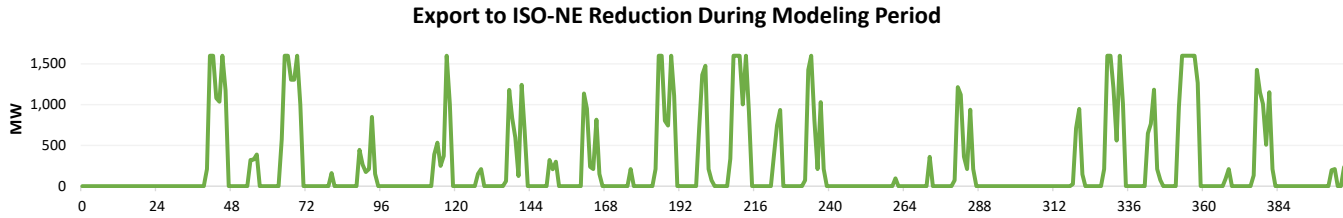
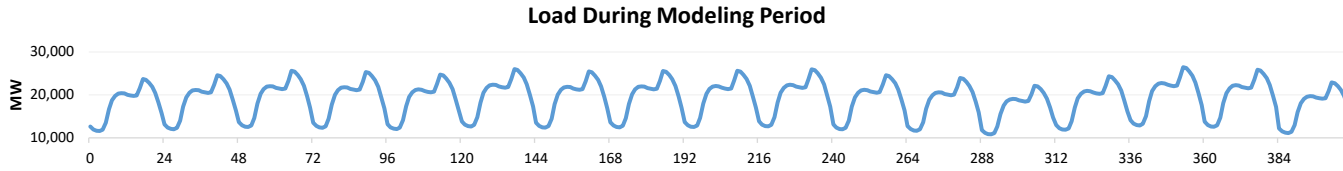
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 5 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	122
Total MWh	95,719
Avg. MW	234.6

SCR Deployment	
Total Hrs.	6
Total MWh	1,882
Avg. MW	4.6

Reserve Violations	
Total Hrs.	18
Total MWh	11,289
Avg. MW	27.7
First Hour with Viol.	69
First Hour, Zone K	209

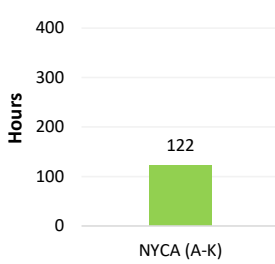
Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	0
First Hour, Zone K	0

Full Period Results Summary

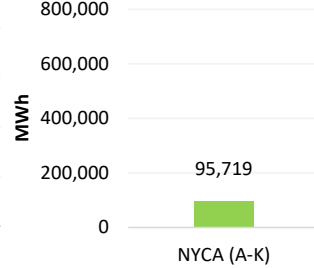
Case Name: Scenario 5 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

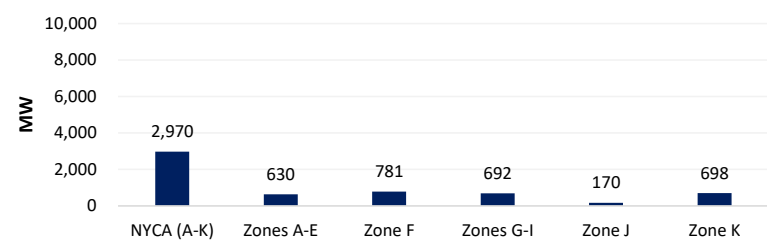
Hours Exports Reduced



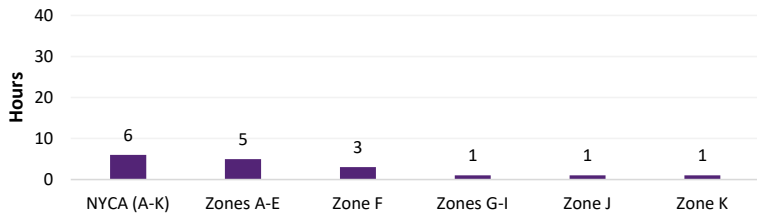
Total MWh of Exports Reduced



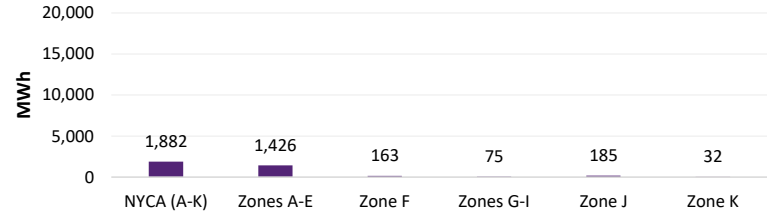
Average Capacity Not Available Due to Exhausted Fuel Inventory



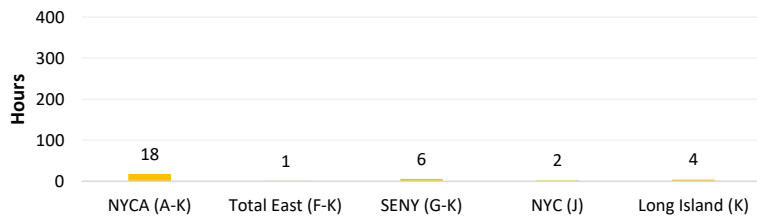
Hours SCR/EDRP Deployed



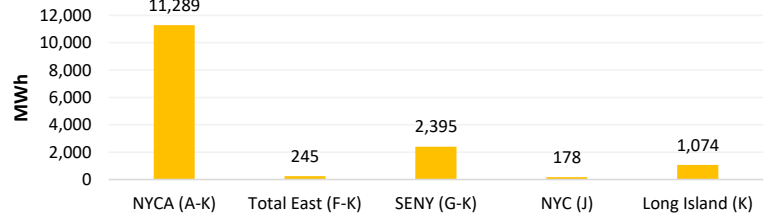
Total MWh SCR/EDRP Deployed



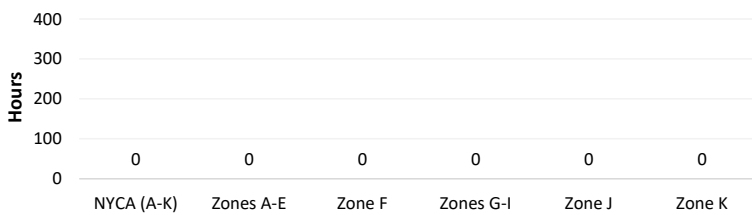
Hours with Reserve Violations



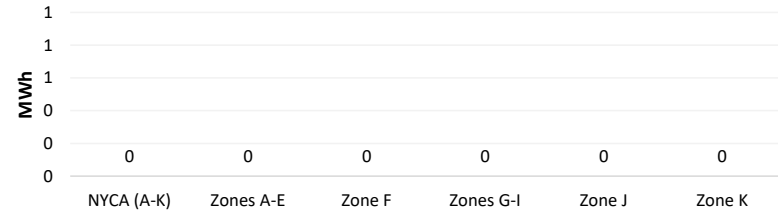
Total MWh of Reserve Violations



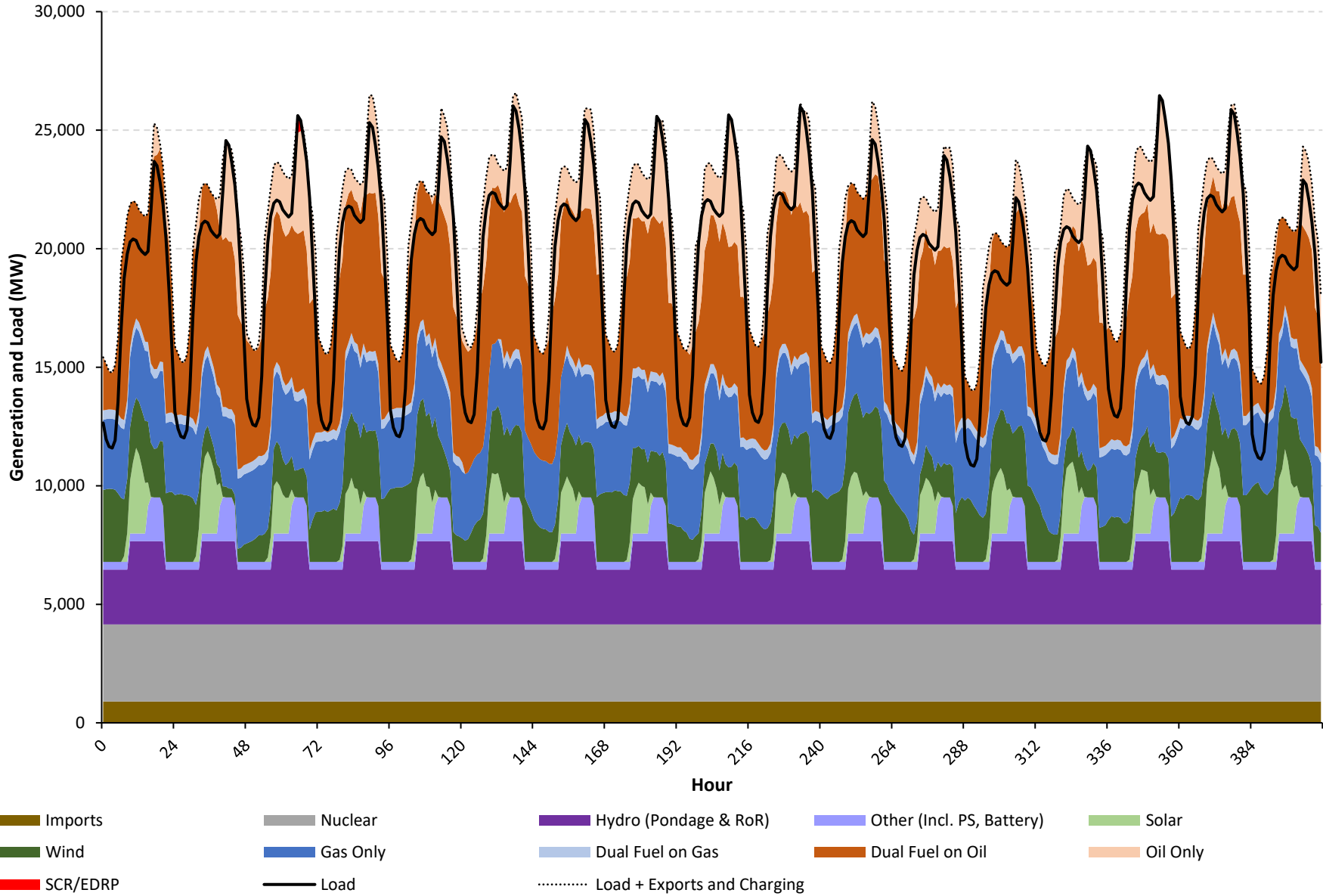
Hours with Loss of Load



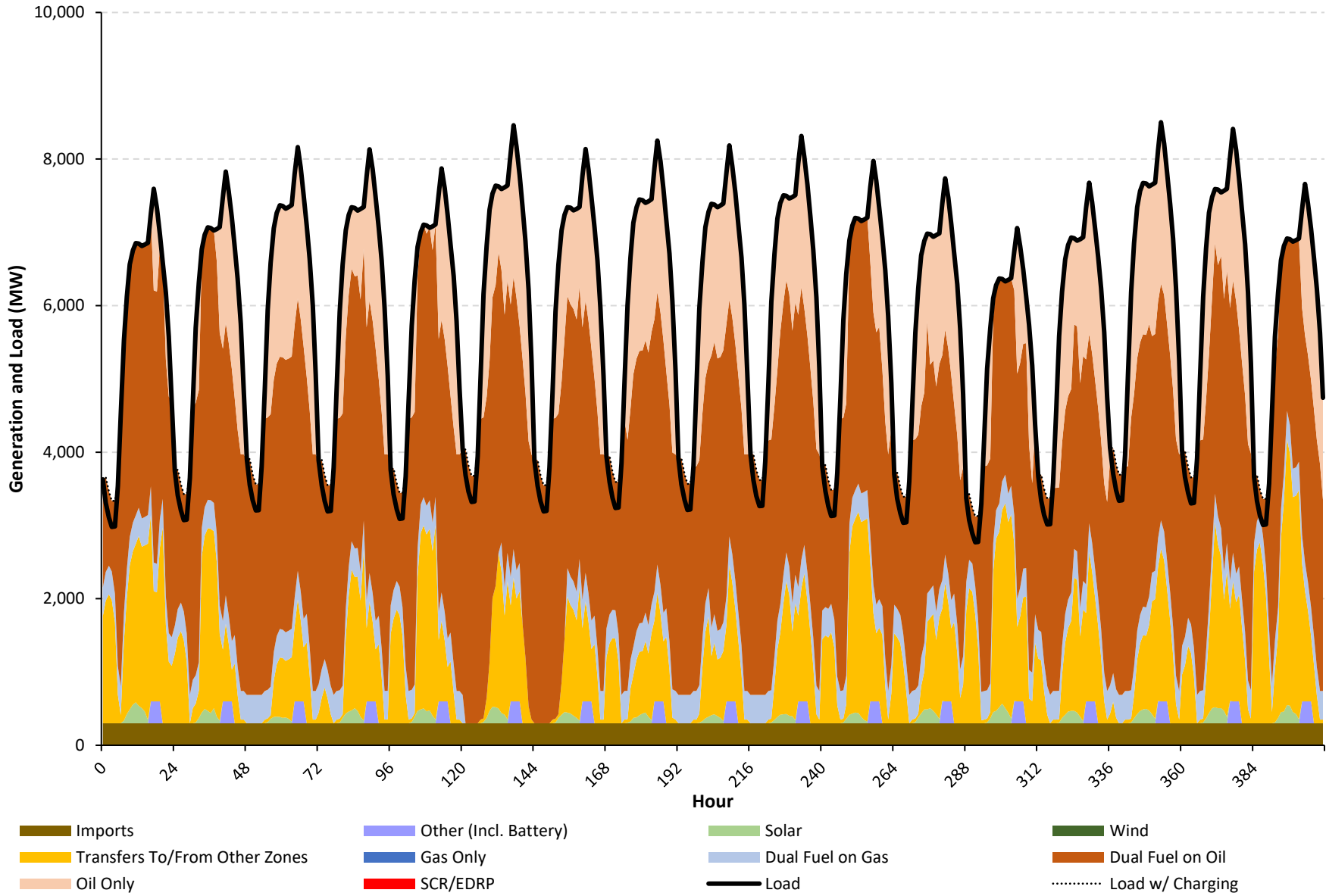
Total MWh of Lost Load



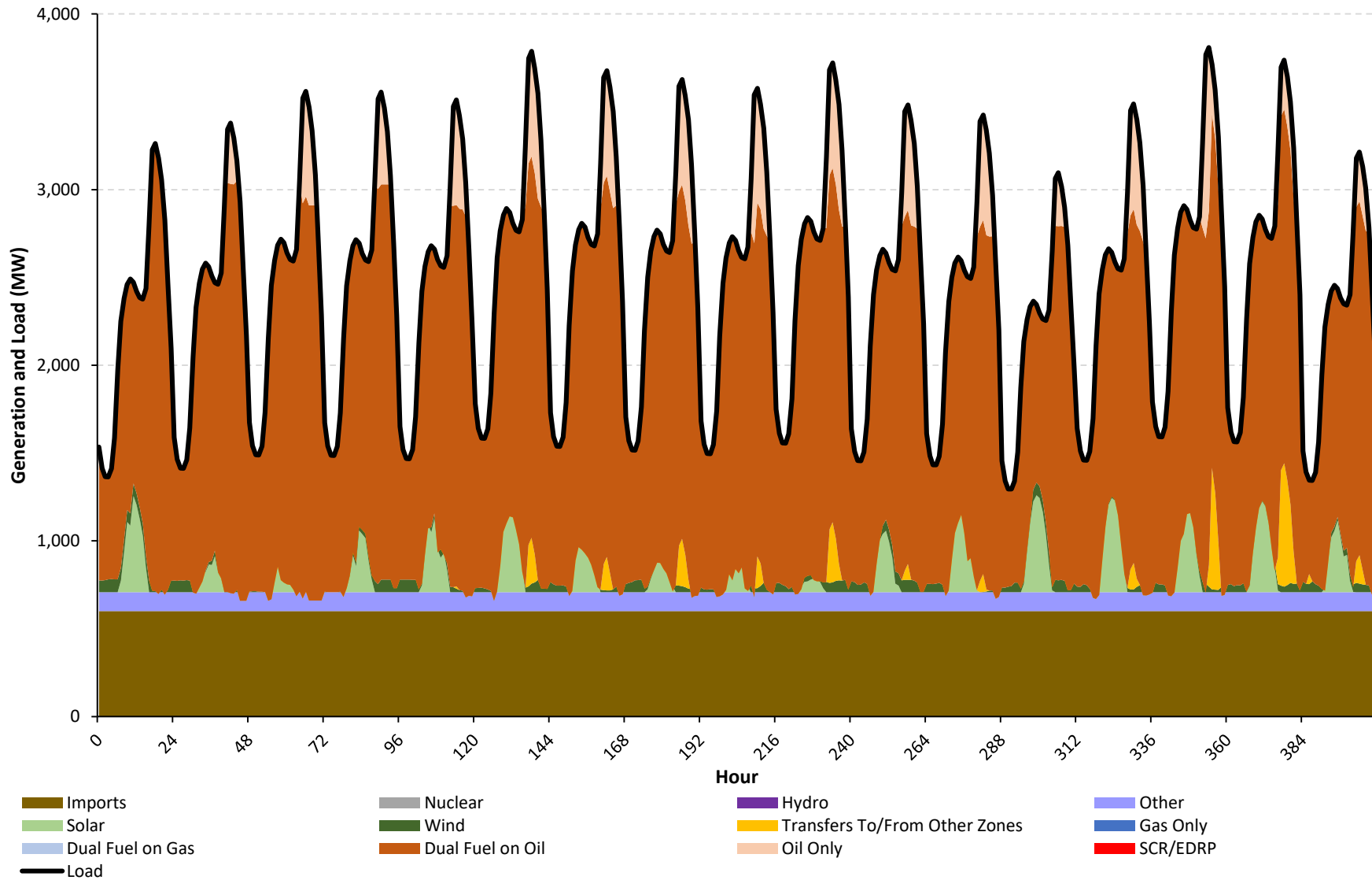
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 5 No Truck Refill



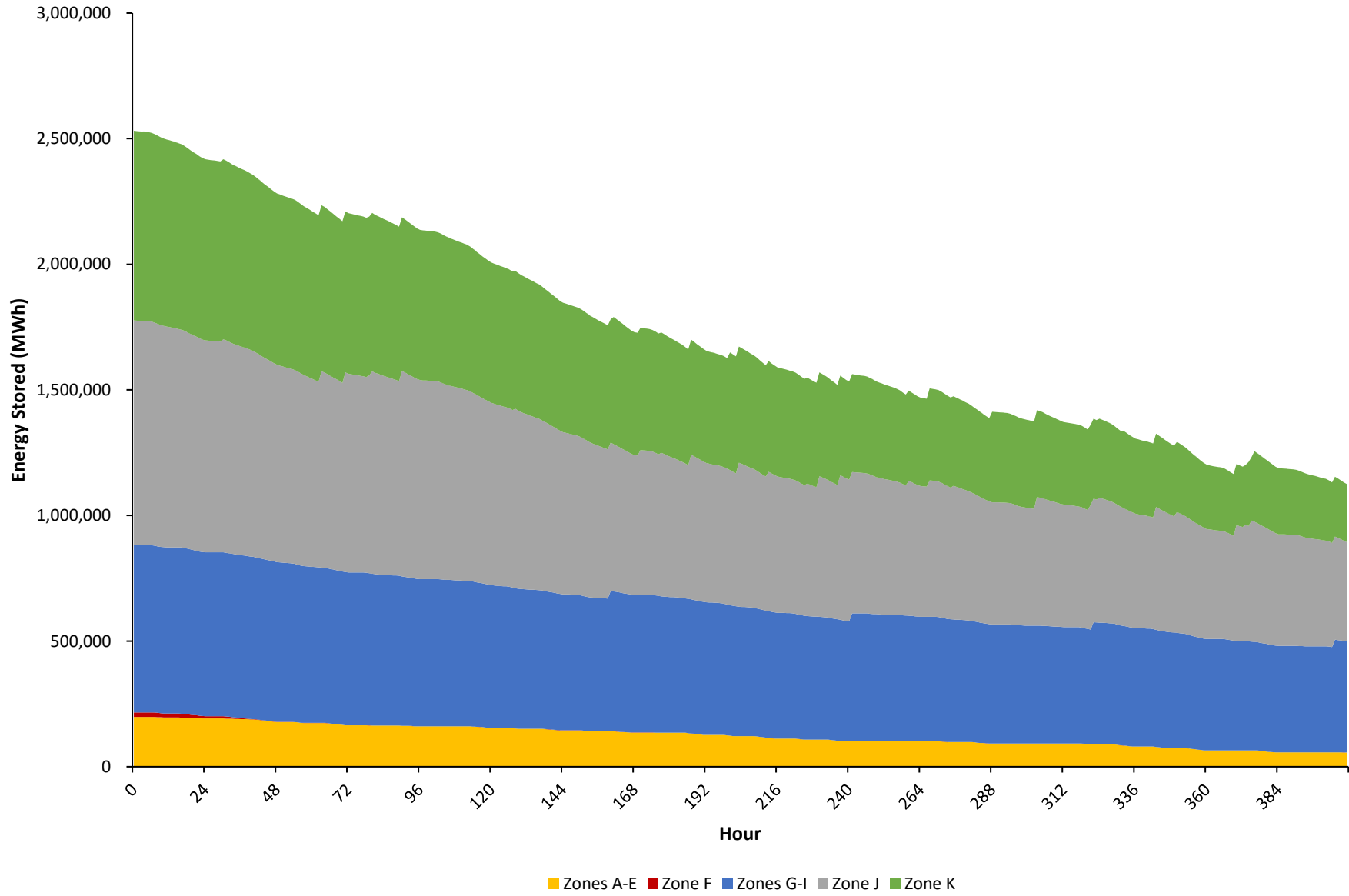
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 5 No Truck Refill

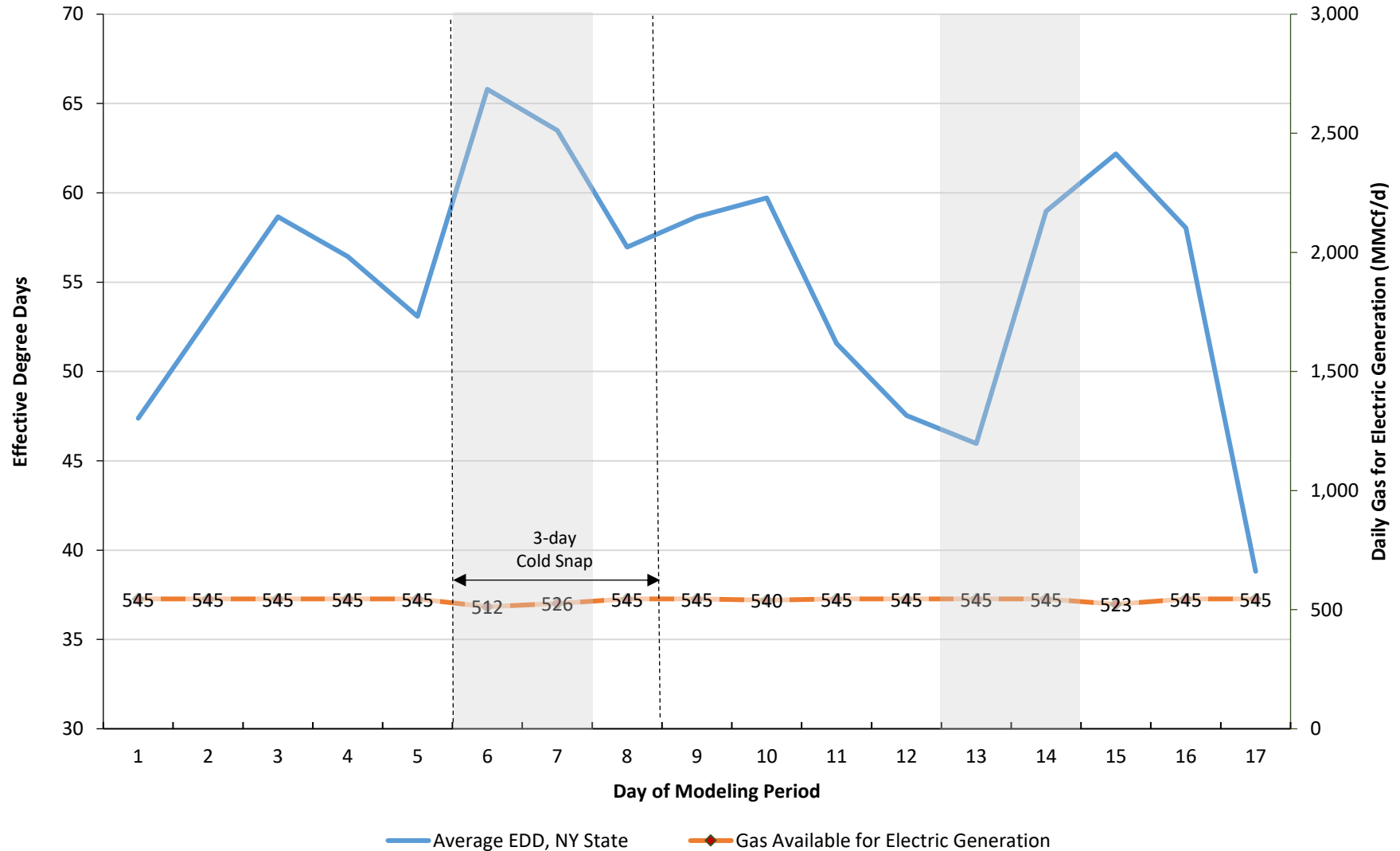


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

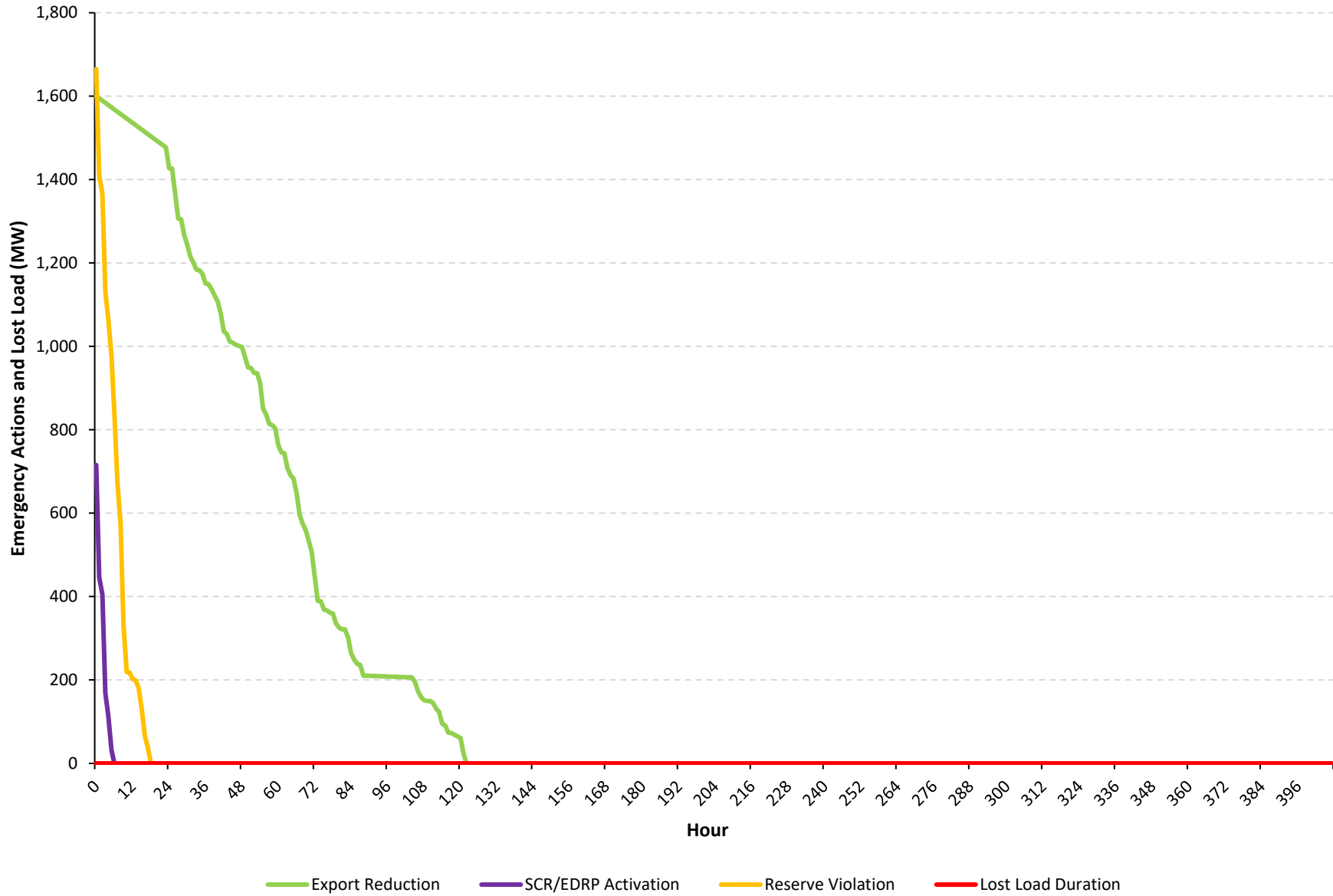
Scenario 5 - PD 5 No Truck Refill



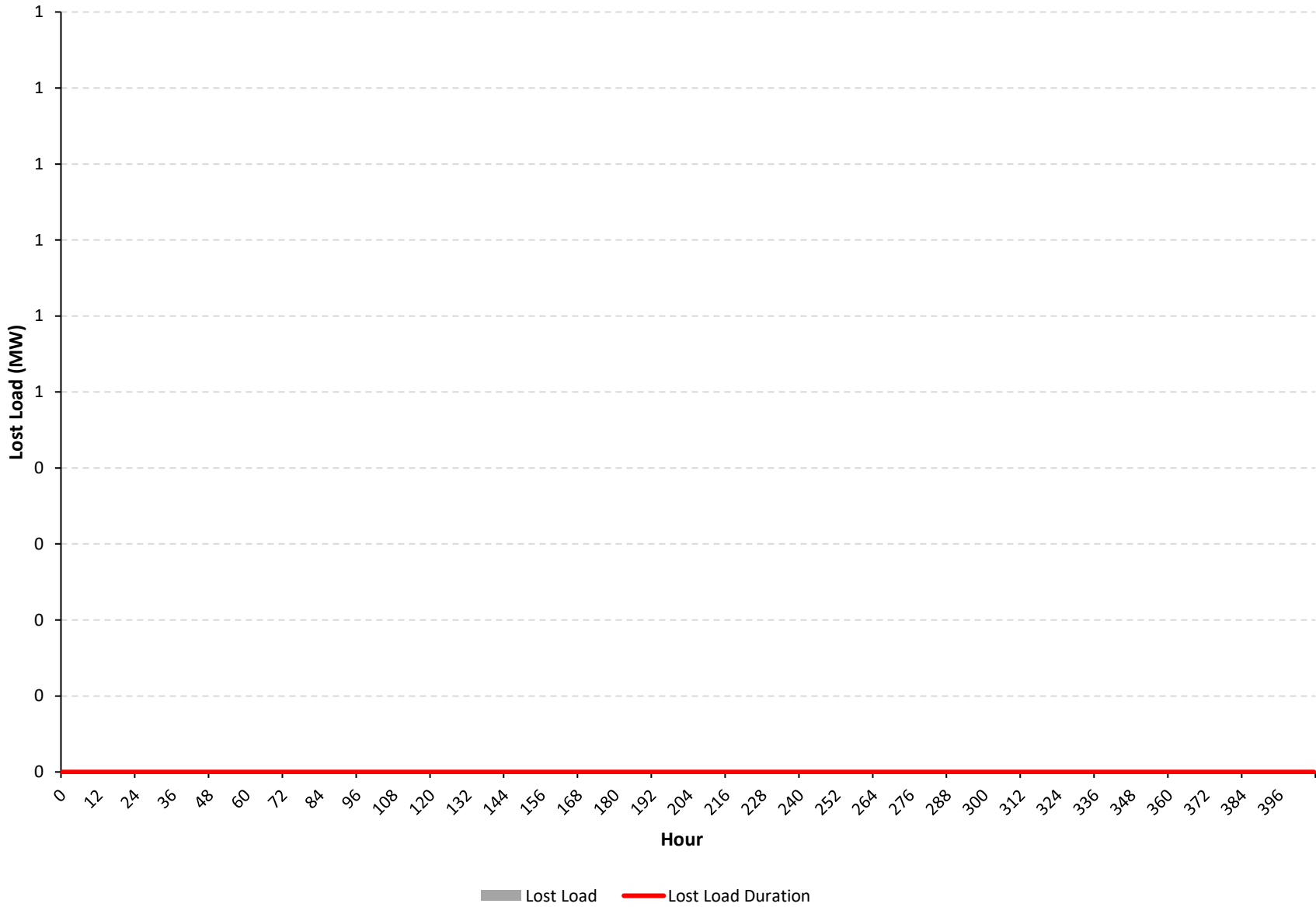
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 5 No Truck Refill



NYCA Lost Load Duration (MWh) Scenario 5 - PD 5 No Truck Refill



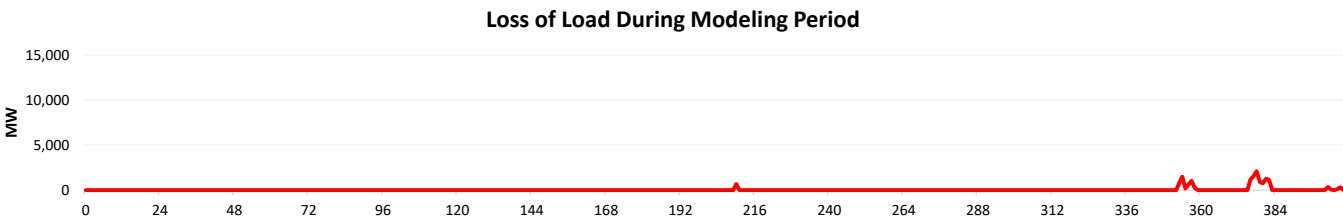
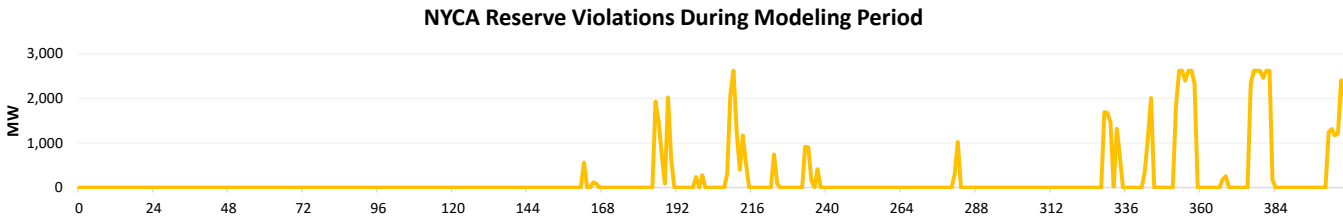
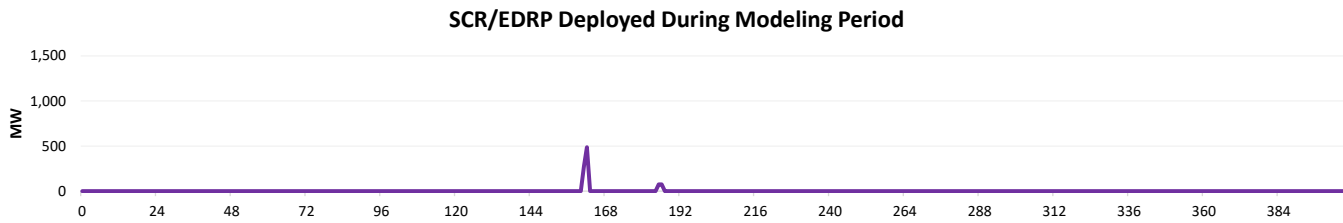
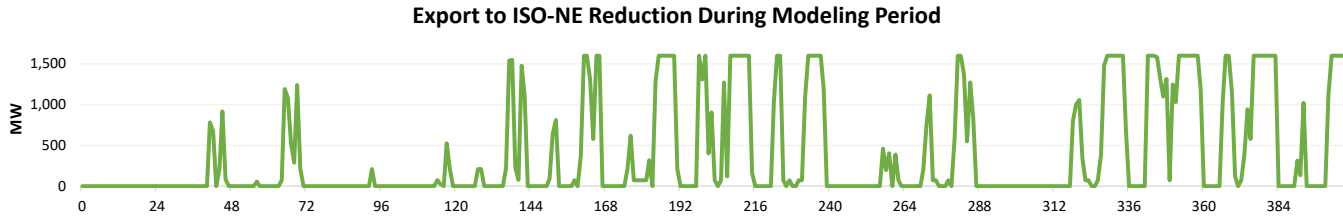
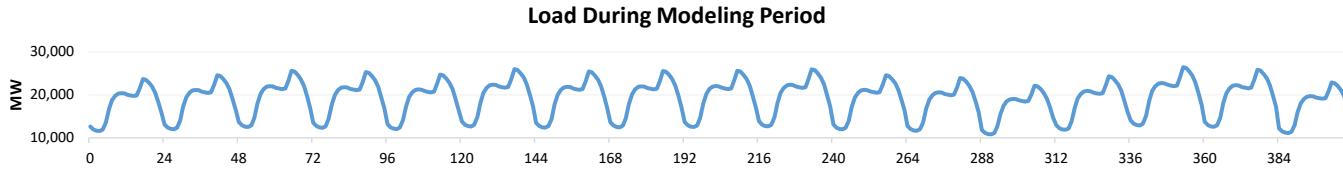
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 5 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	165
Total MWh	157,136
Avg. MW	385.1

SCR Deployment	
Total Hrs.	4
Total MWh	912
Avg. MW	2.2

Reserve Violations	
Total Hrs.	59
Total MWh	76,339
Avg. MW	187.1
First Hour with Viol.	162
First Hour, Zone K	353

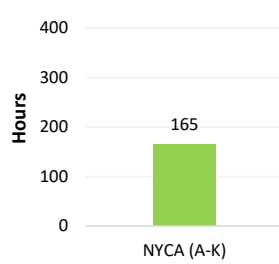
Loss of Load	
Total Hrs.	19
Total MWh	14,830
Avg. MW	36.3
First Hour with Losses	210
First Hour, Zone K	353

Full Period Results Summary

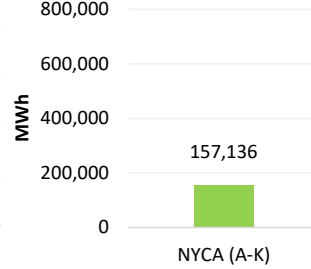
Case Name: Scenario 5 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

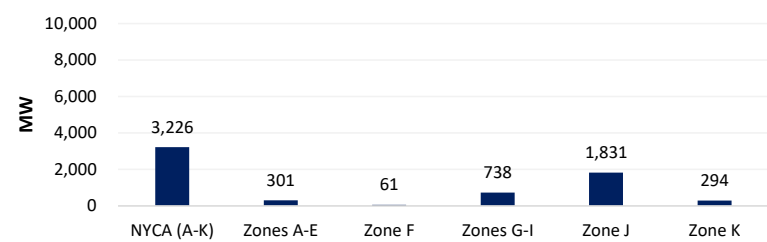
Hours Exports Reduced



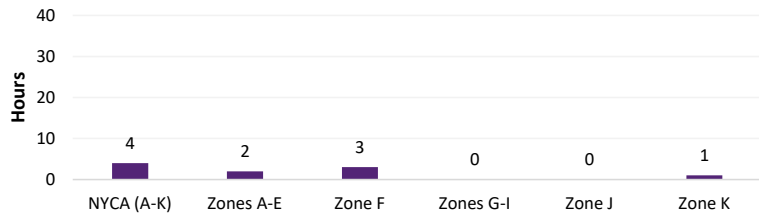
Total MWh of Exports Reduced



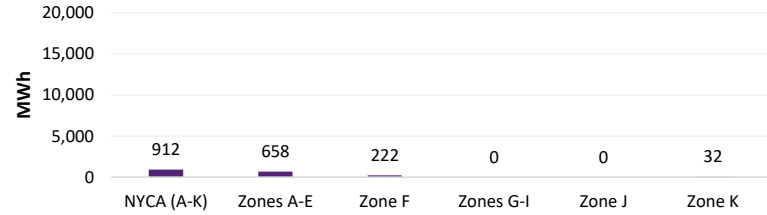
Average Capacity Not Available Due to Exhausted Fuel Inventory



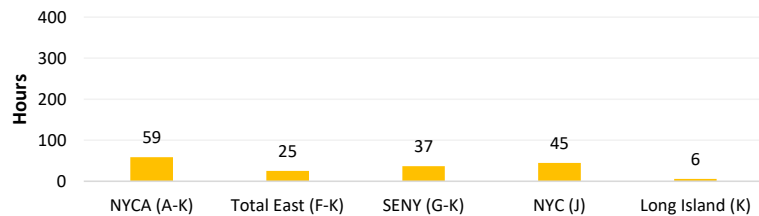
Hours SCR/EDRP Deployed



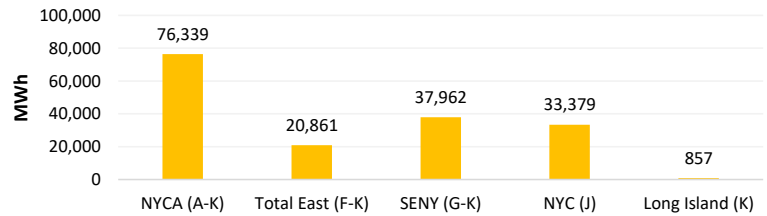
Total MWh SCR/EDRP Deployed



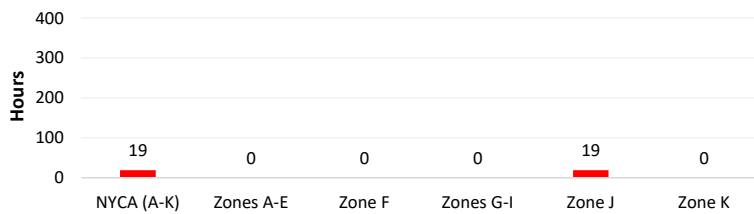
Hours with Reserve Violations



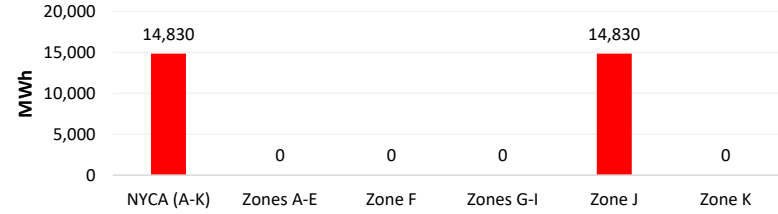
Total MWh of Reserve Violations



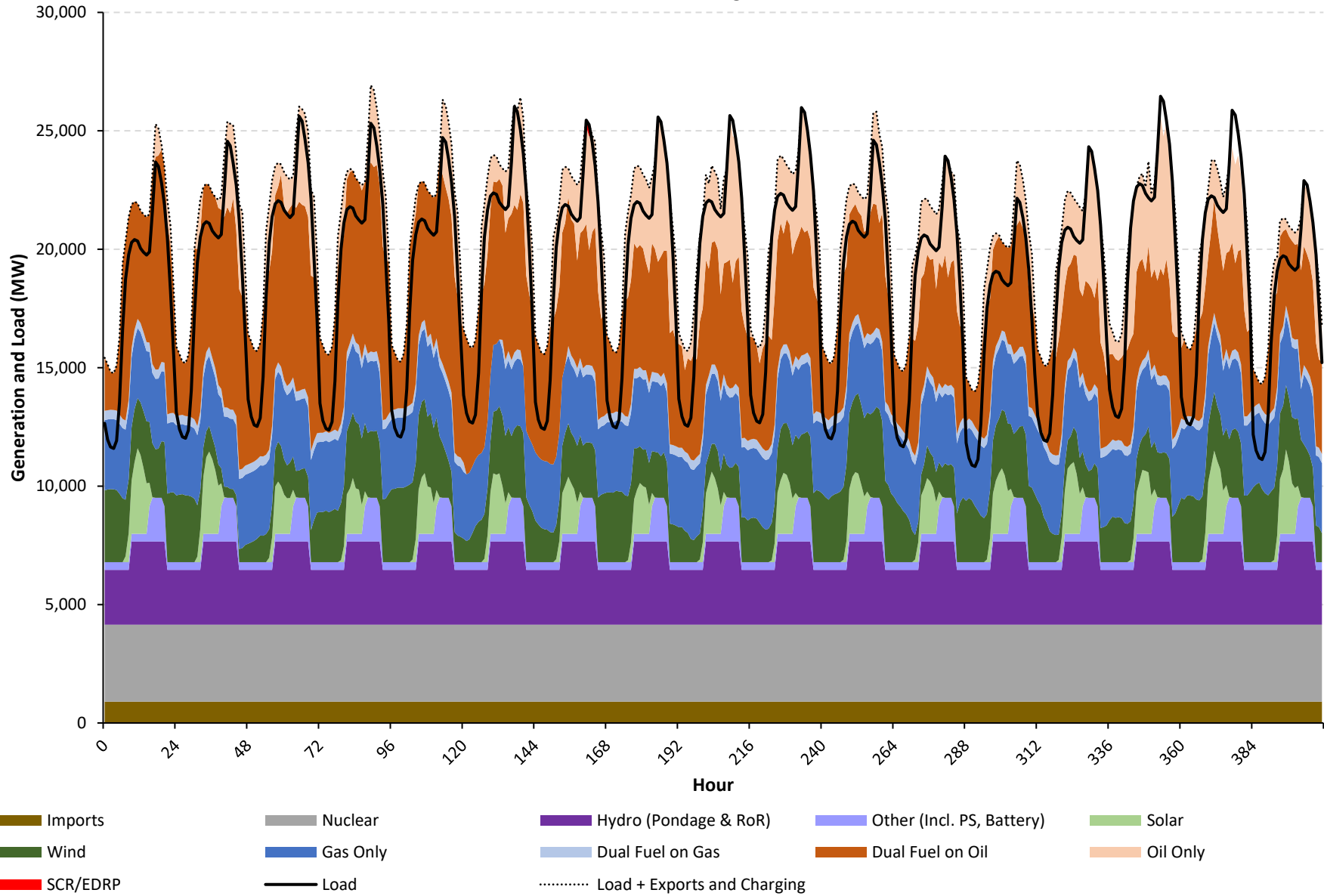
Hours with Loss of Load



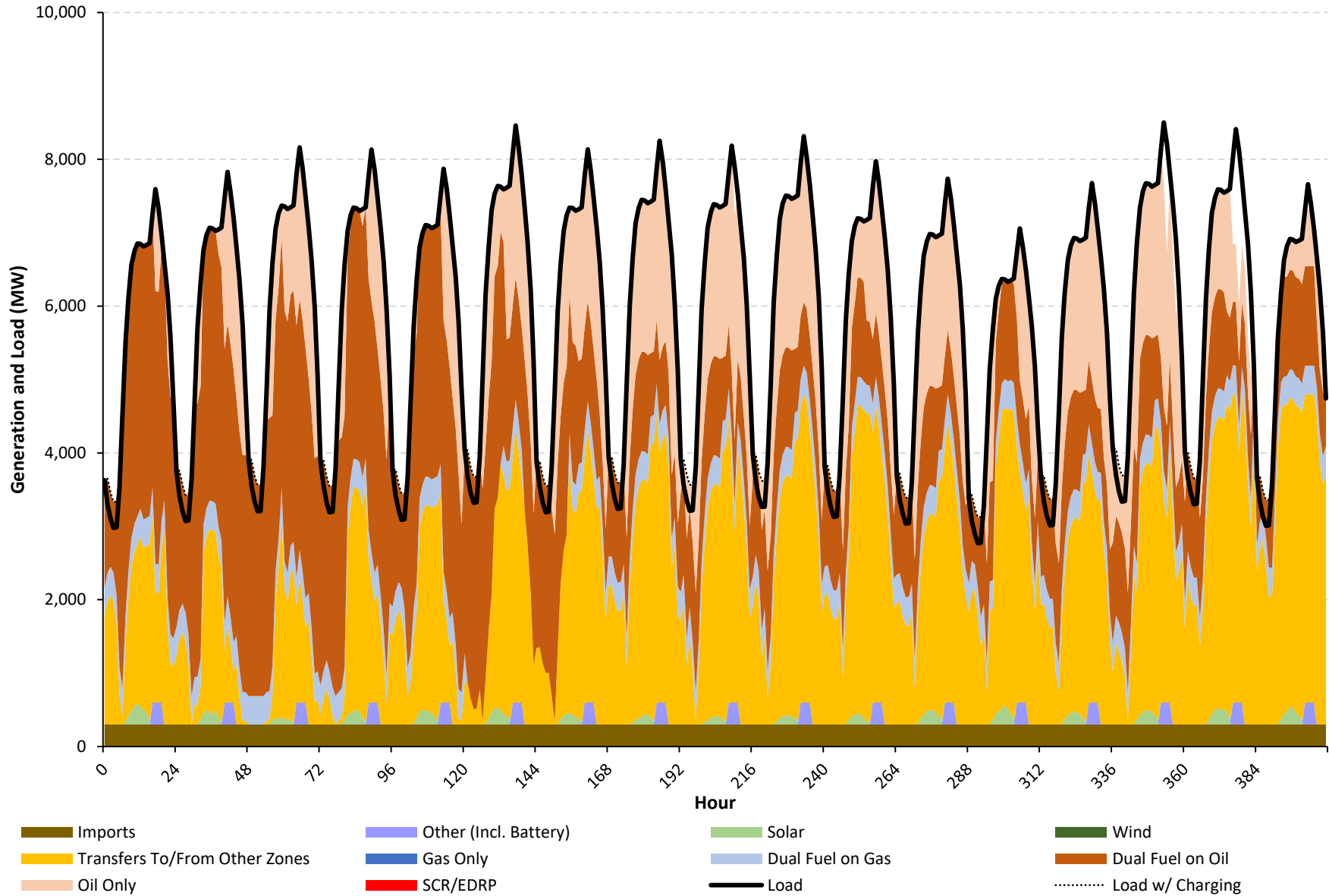
Total MWh of Lost Load



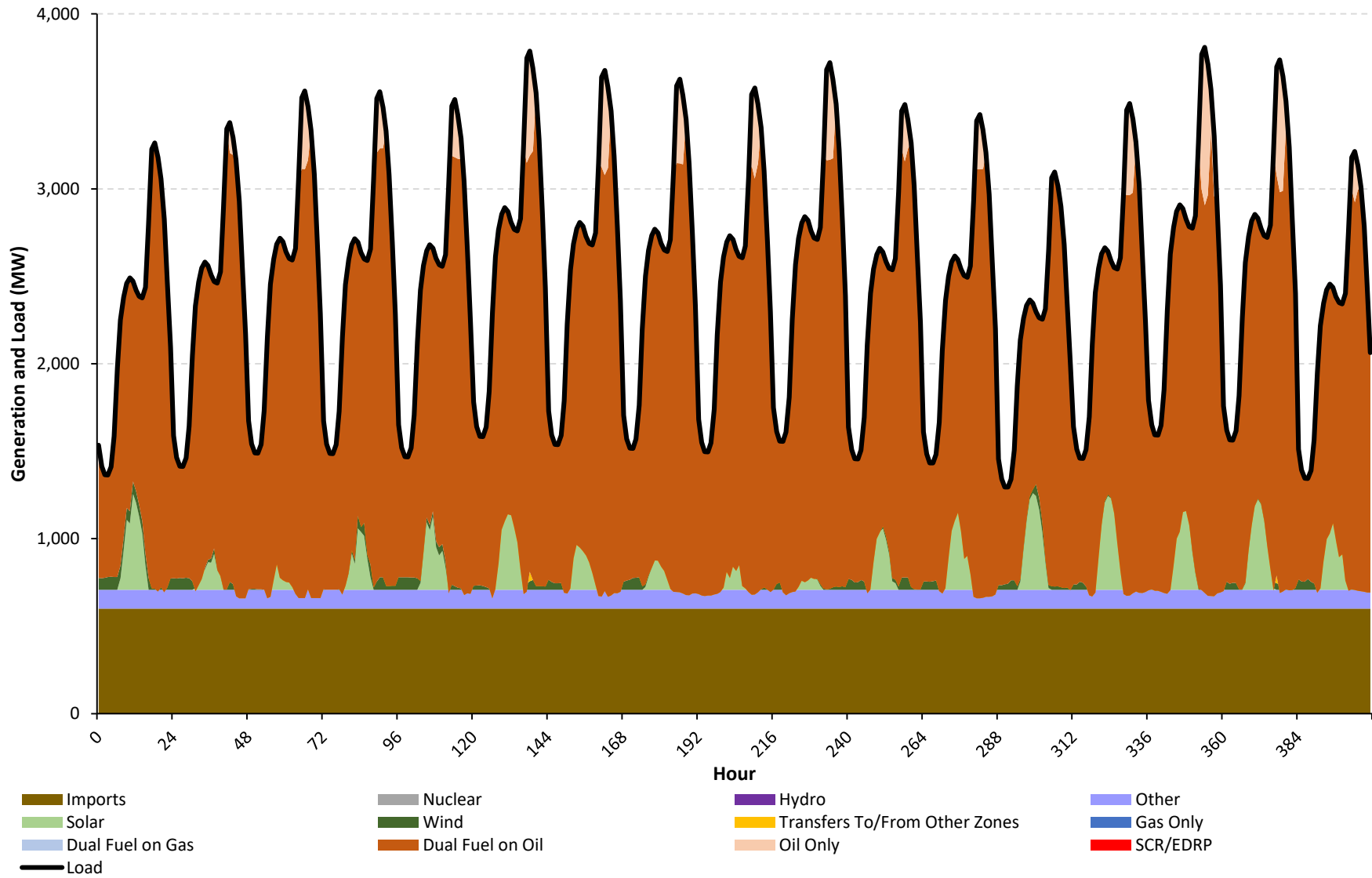
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 6 No Barge Refill



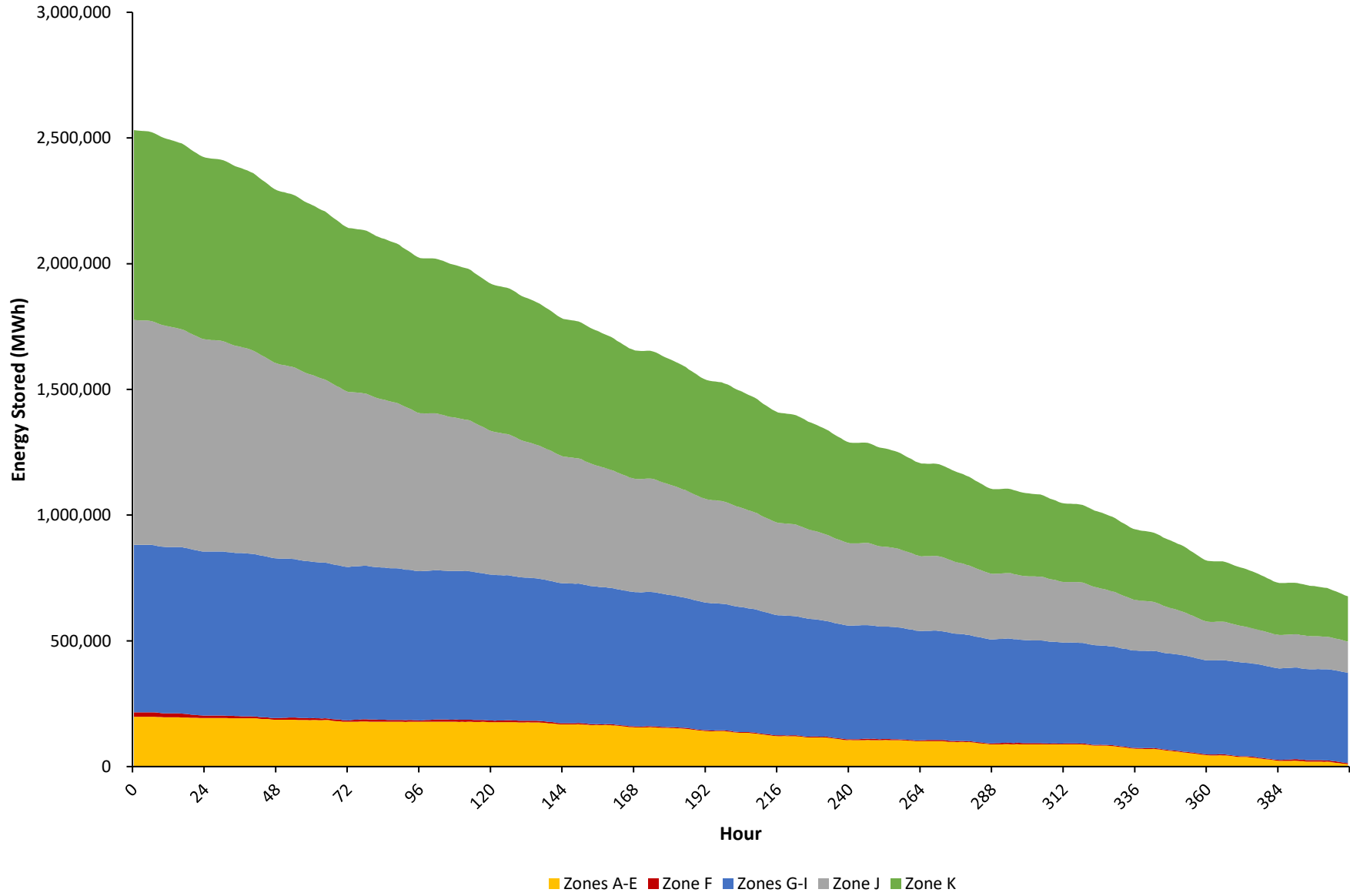
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 6 No Barge Refill

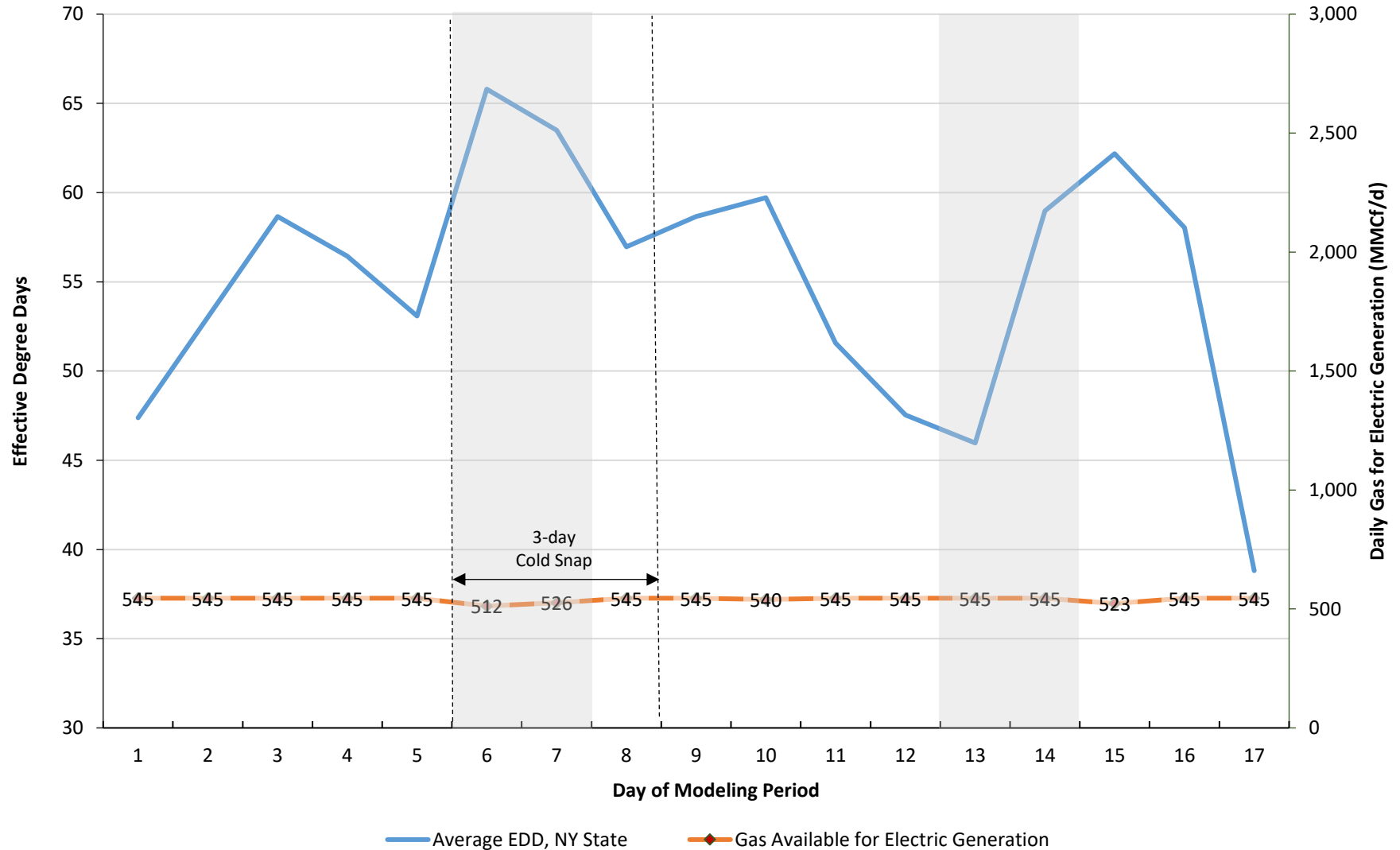


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

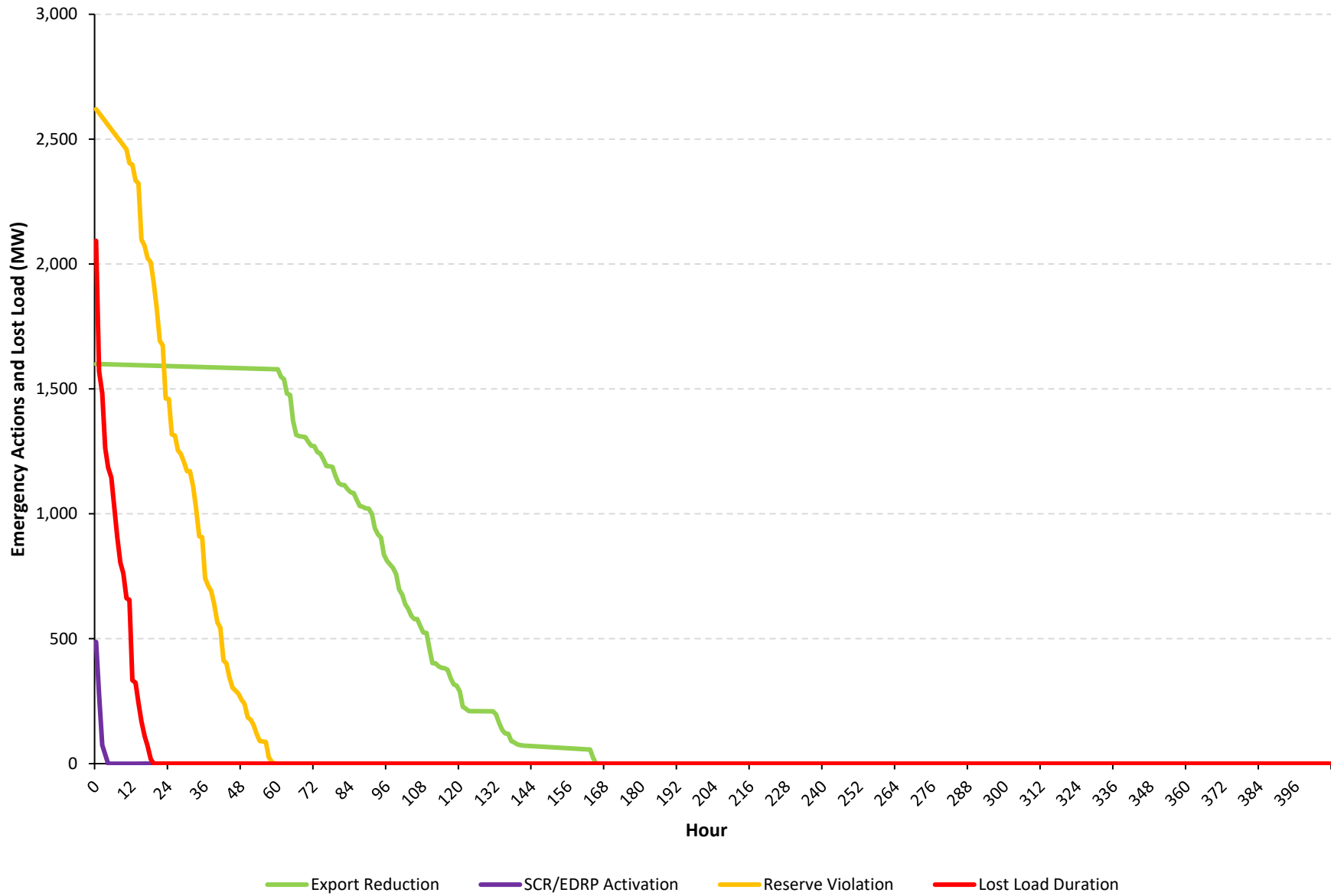
Scenario 5 - PD 6 No Barge Refill



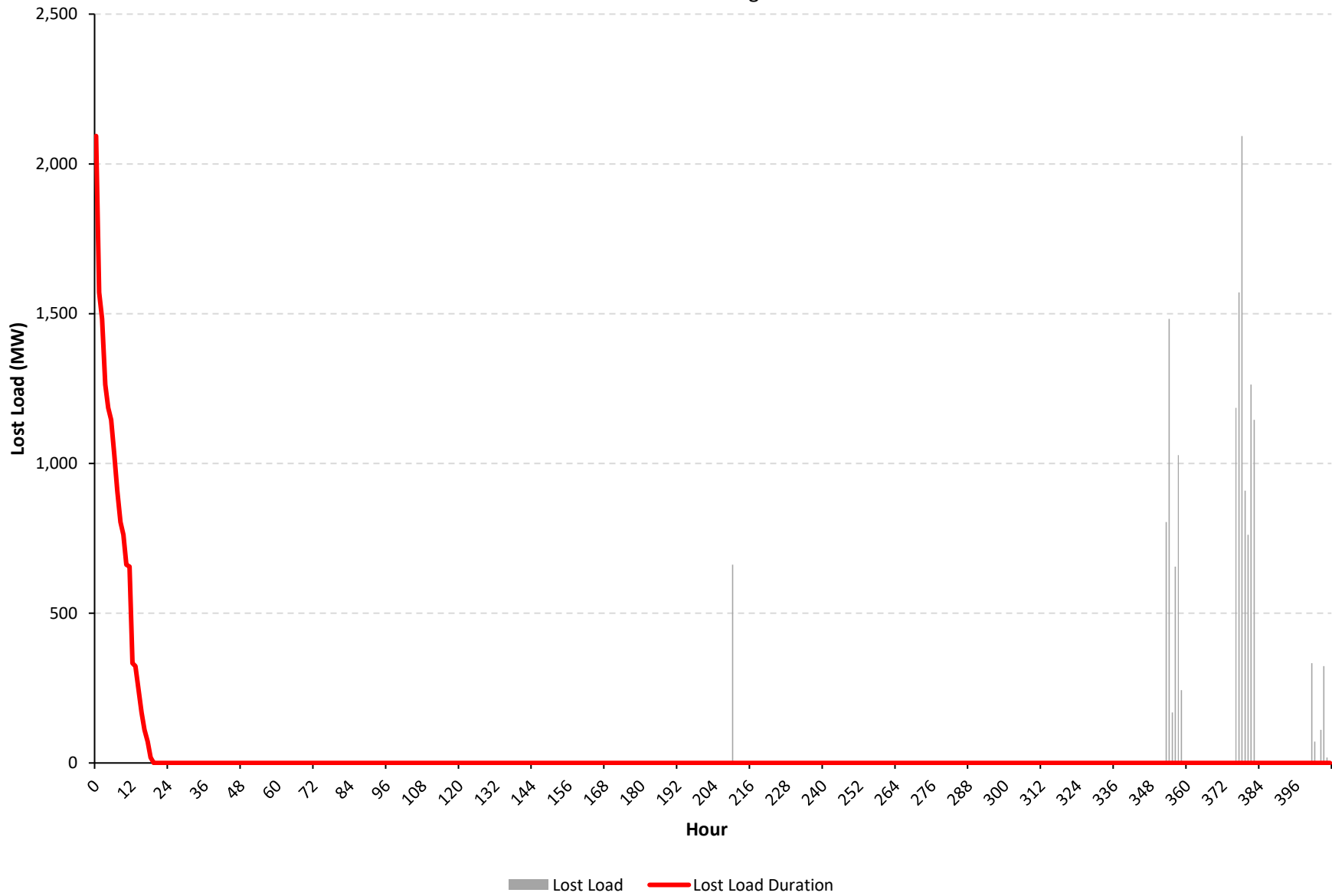
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 5 - PD 6 No Barge Refill



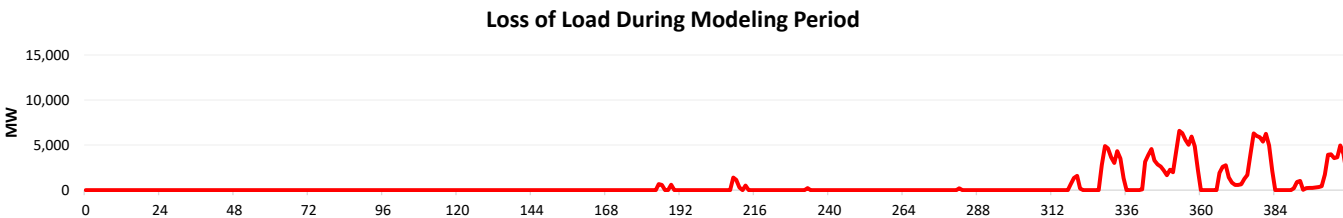
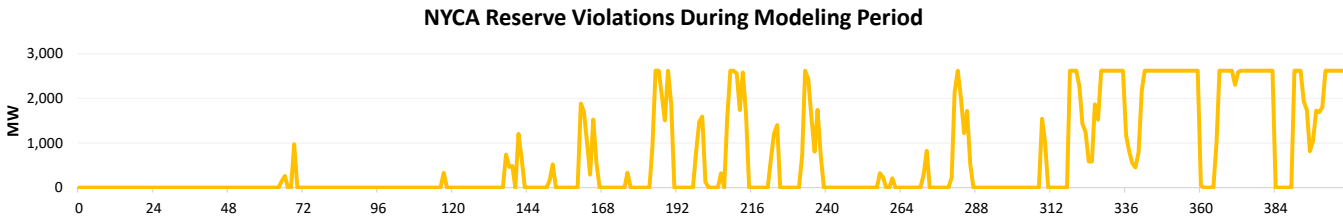
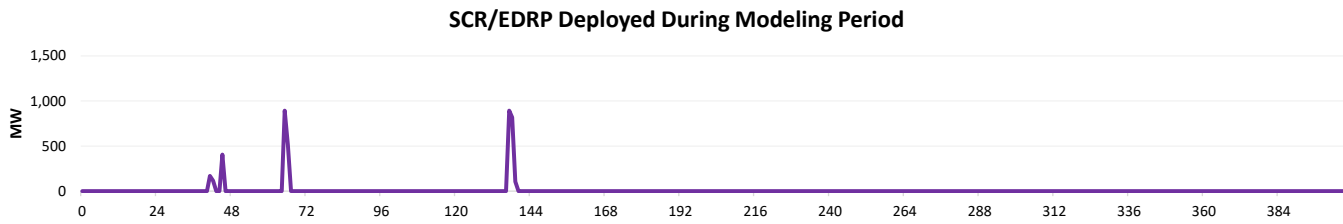
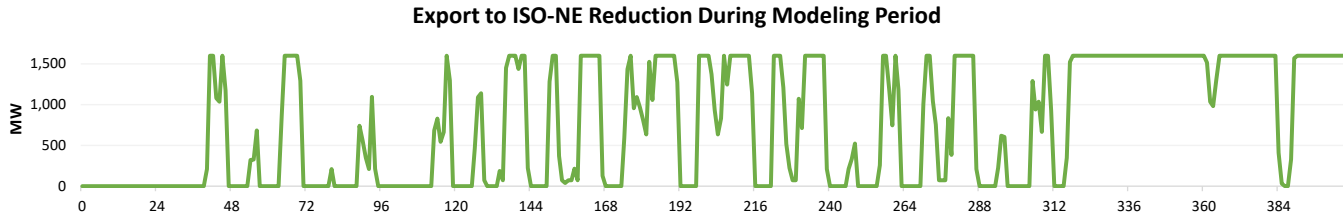
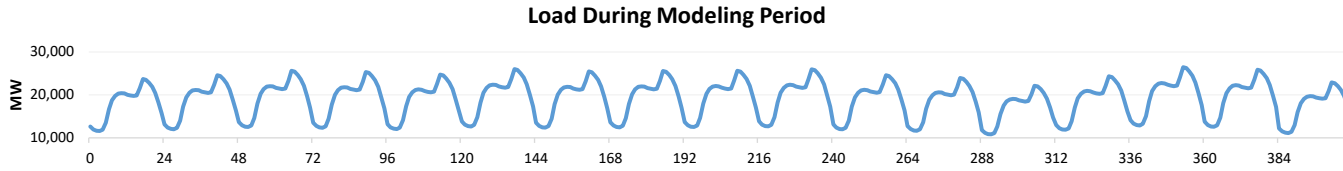
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 5 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	244
Total MWh	302,882
Avg. MW	742.4

SCR Deployment	
Total Hrs.	8
Total MWh	3,910
Avg. MW	9.6

Reserve Violations	
Total Hrs.	143
Total MWh	254,628
Avg. MW	624.1
First Hour with Viol.	65
First Hour, Zone K	137

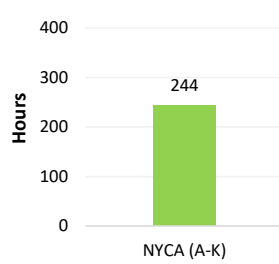
Loss of Load	
Total Hrs.	76
Total MWh	193,844
Avg. MW	475.1
First Hour with Losses	185
First Hour, Zone K	329

Full Period Results Summary

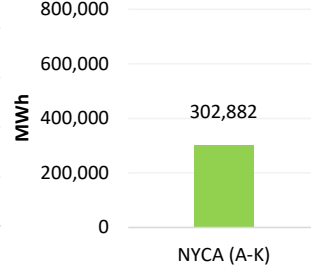
Case Name: Scenario 5 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

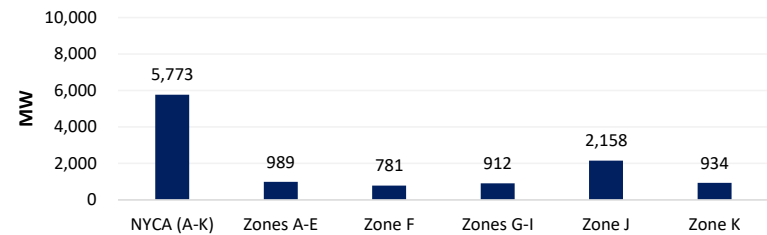
Hours Exports Reduced



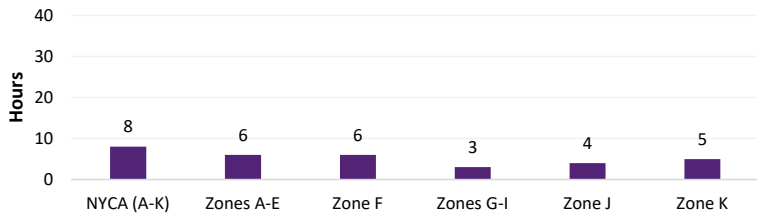
Total MWh of Exports Reduced



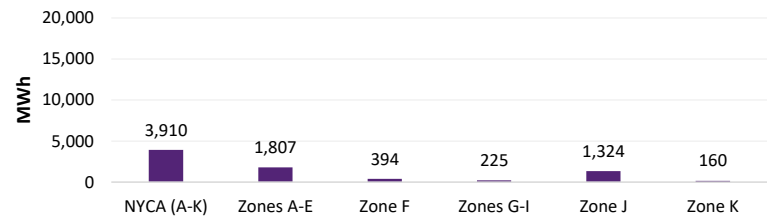
Average Capacity Not Available Due to Exhausted Fuel Inventory



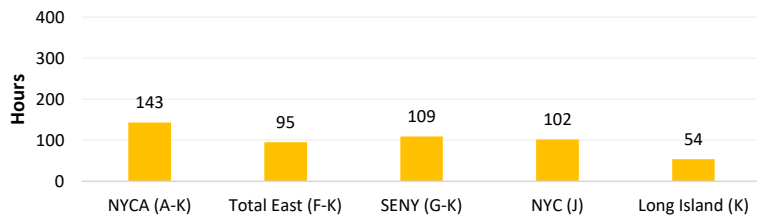
Hours SCR/EDRP Deployed



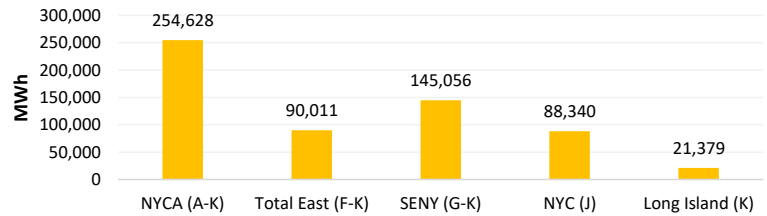
Total MWh SCR/EDRP Deployed



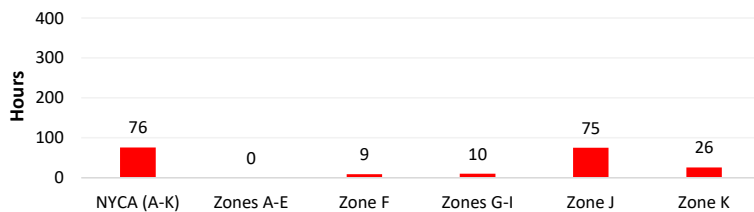
Hours with Reserve Violations



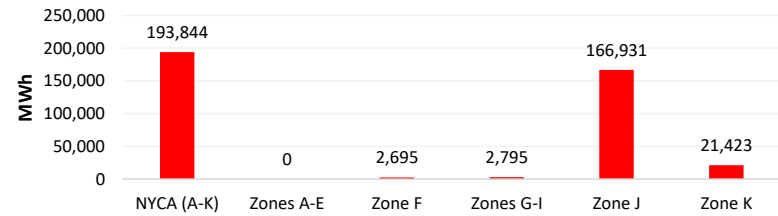
Total MWh of Reserve Violations



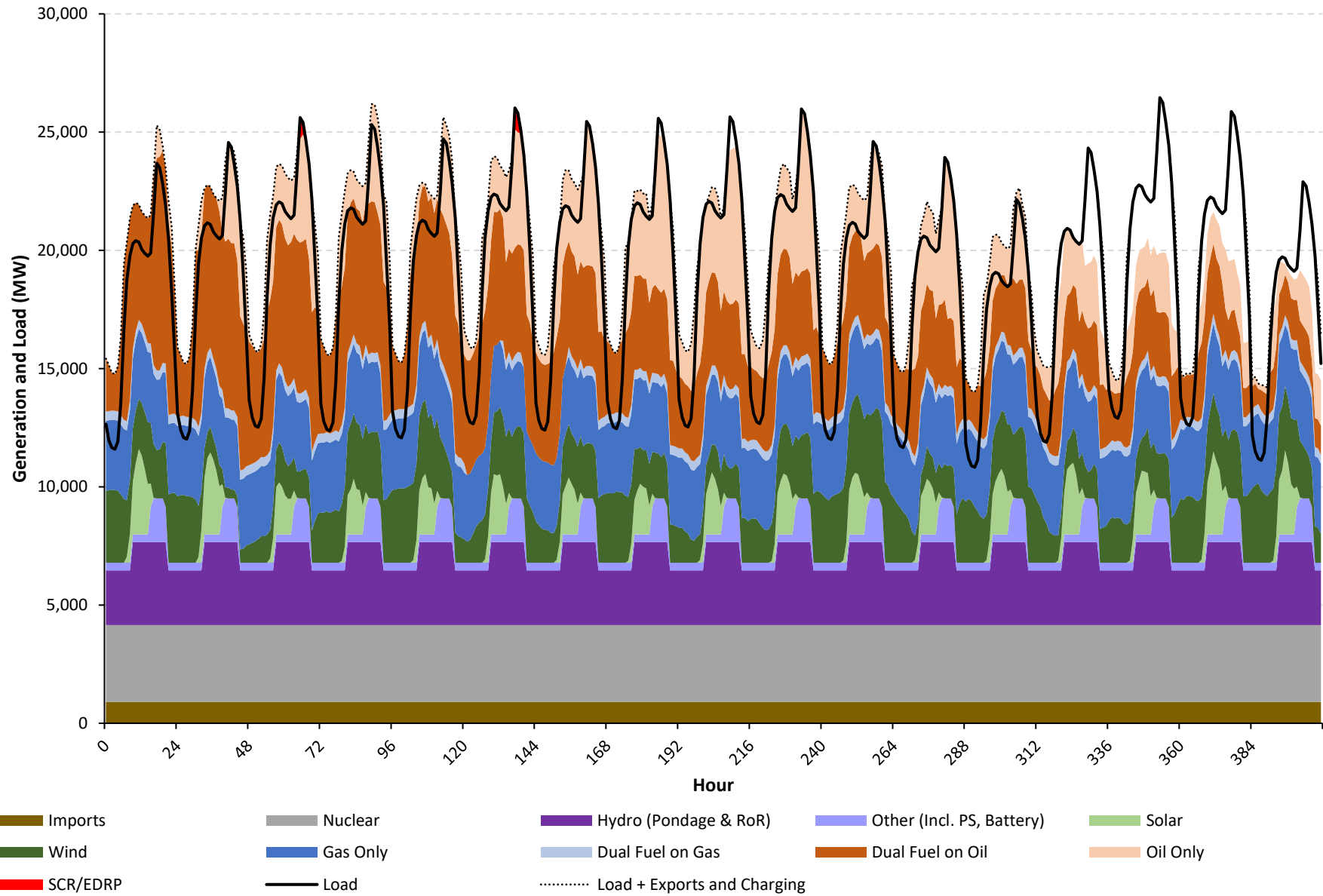
Hours with Loss of Load



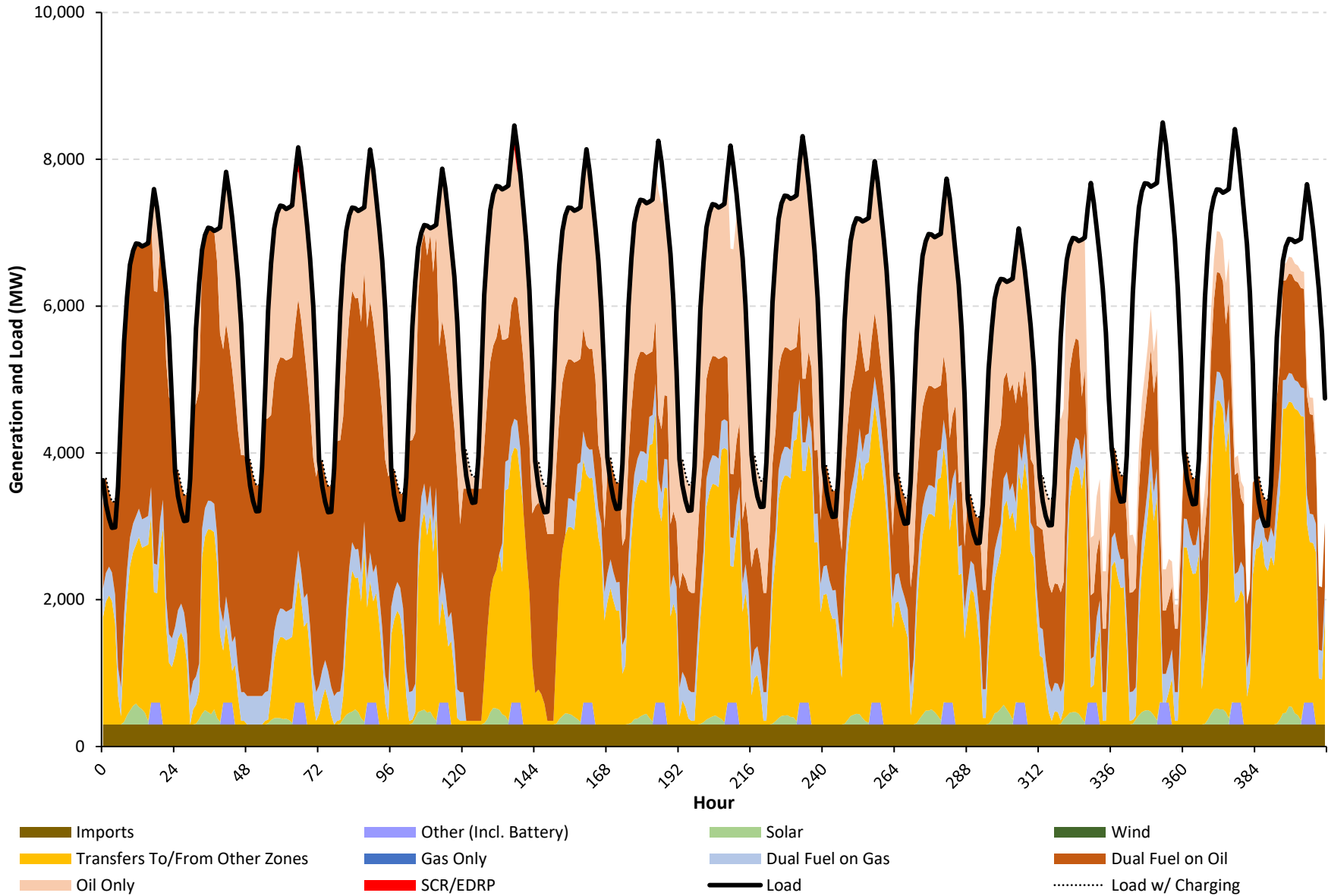
Total MWh of Lost Load



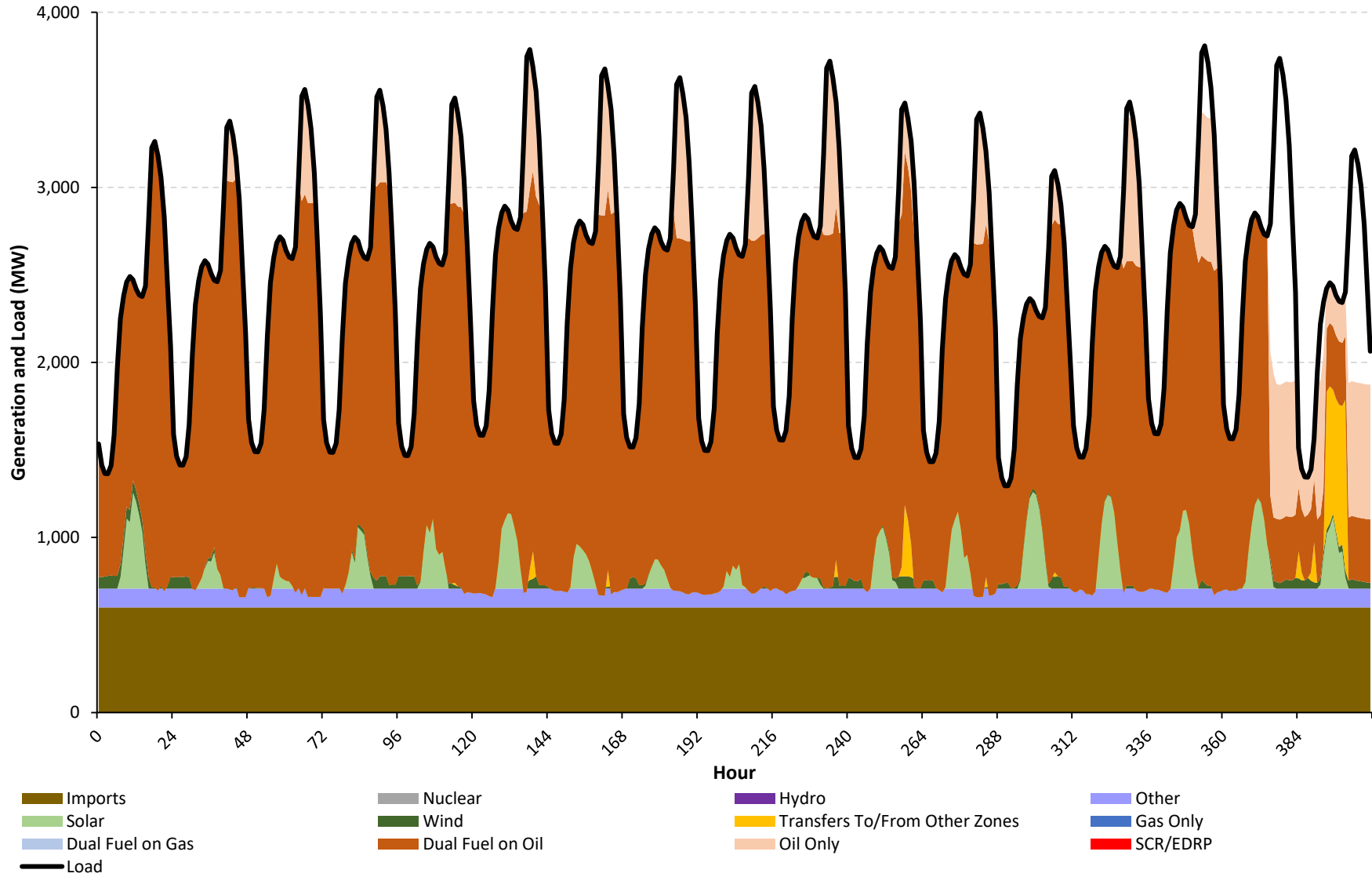
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 7 No Refill



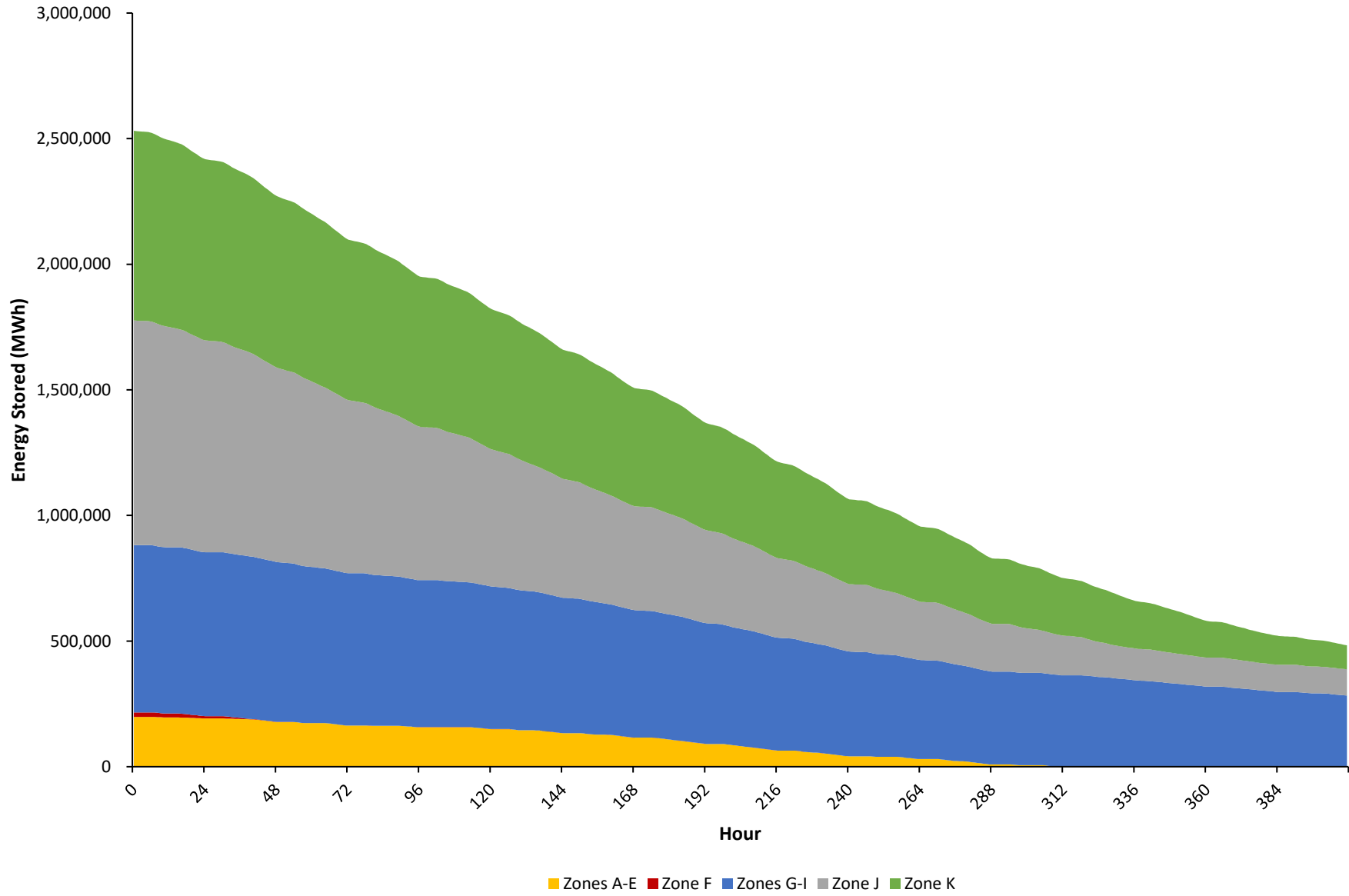
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 7 No Refill

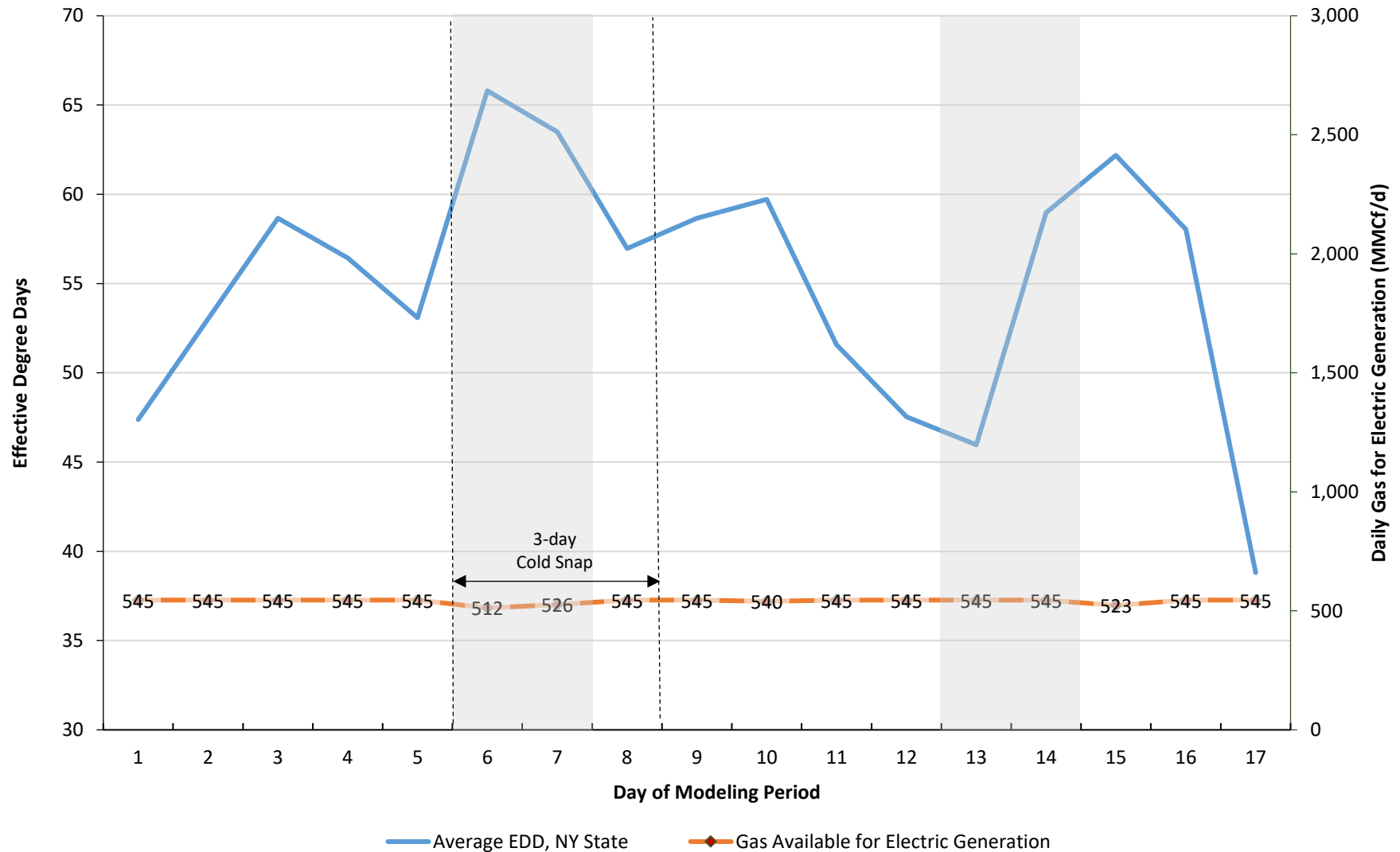


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

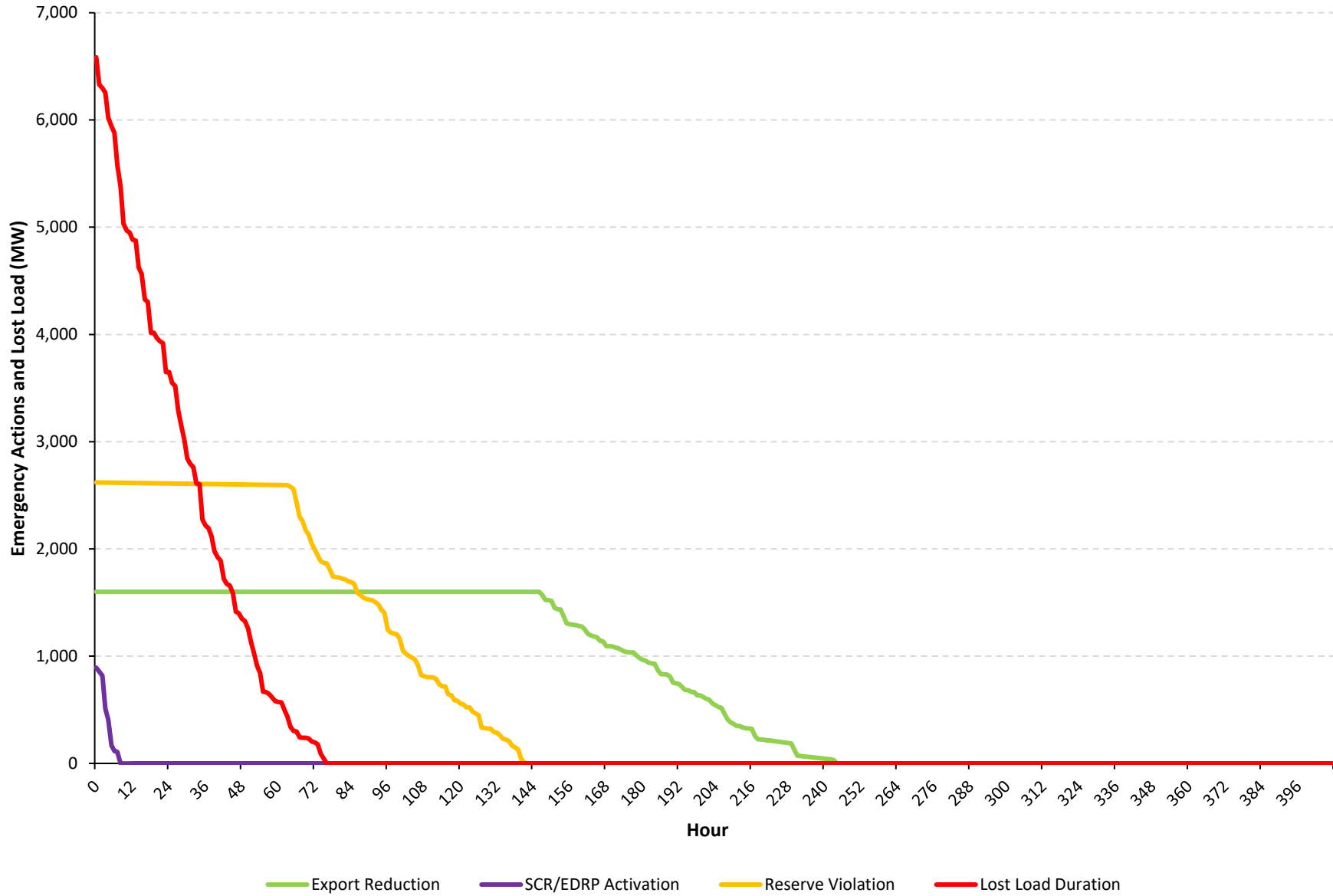
Scenario 5 - PD 7 No Refill



Notes:

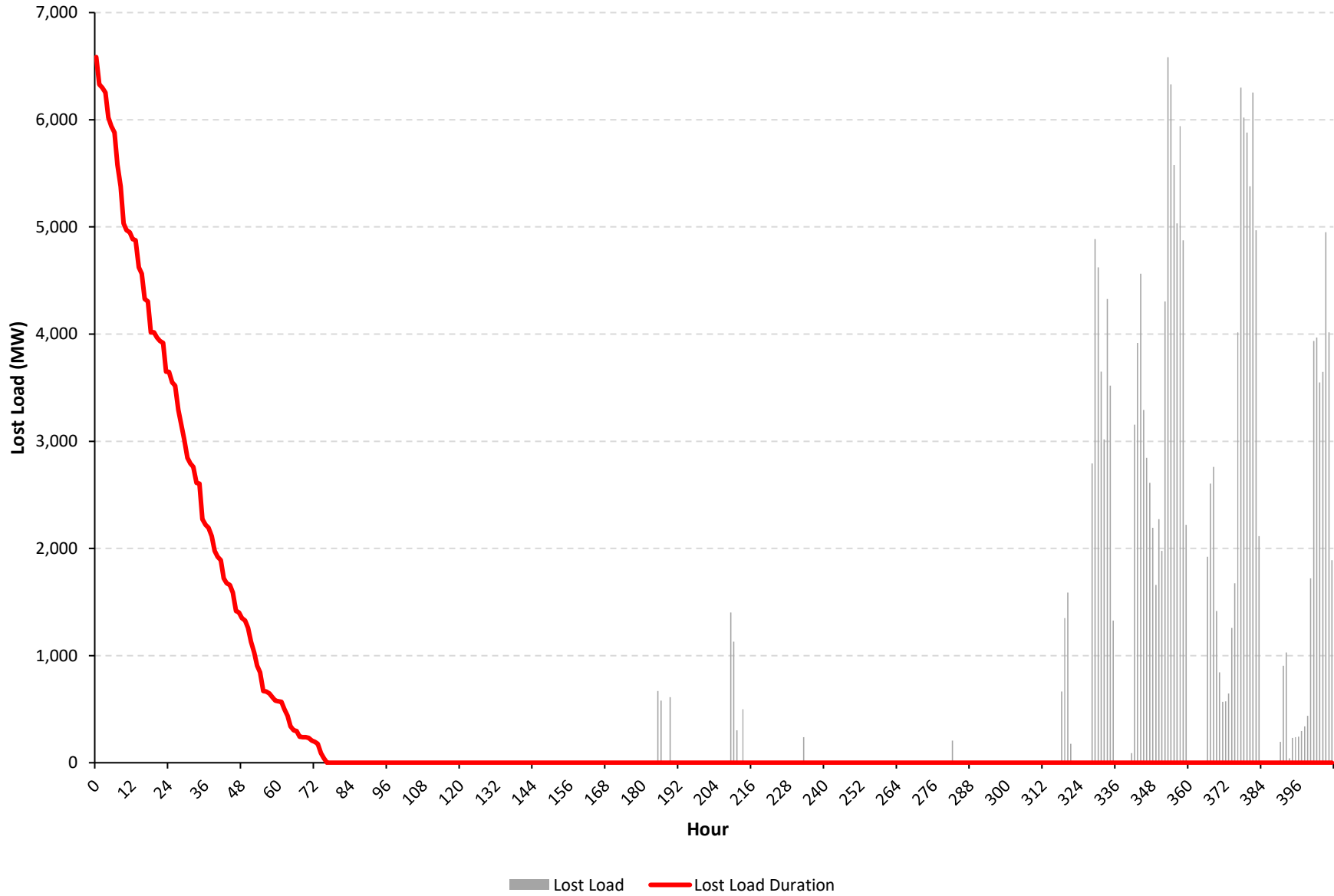
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 5 - PD 7 No Refill

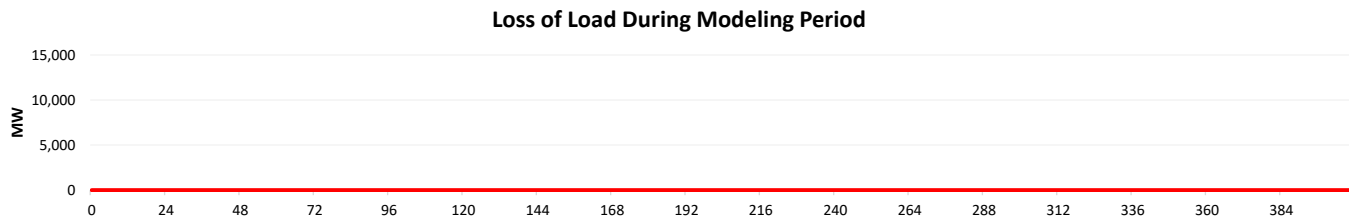
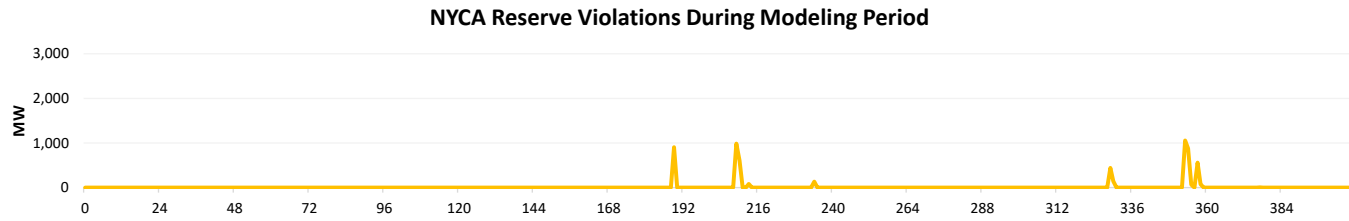
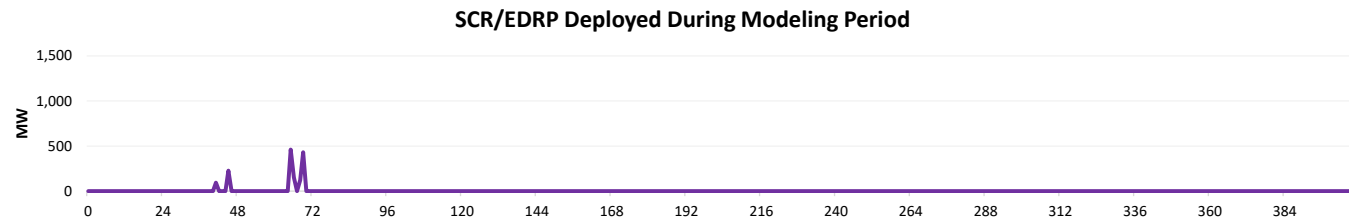
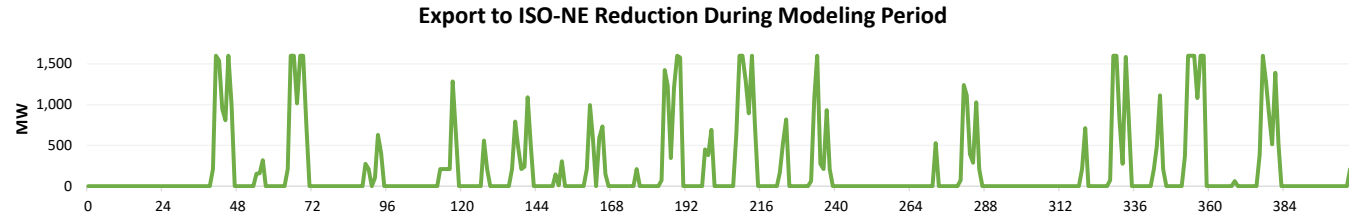
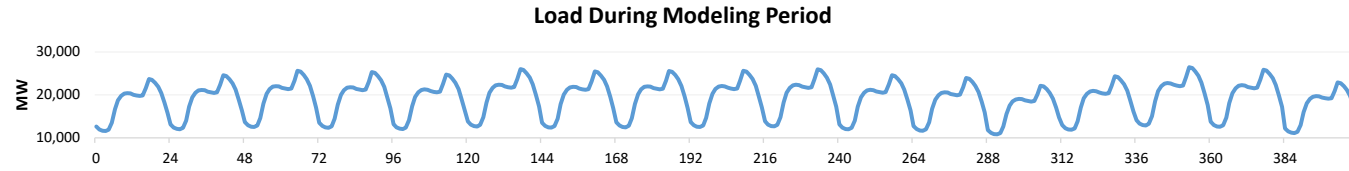


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	112
Total MWh	83,669
Avg. MW	205.1

SCR Deployment	
Total Hrs.	6
Total MWh	1,489
Avg. MW	3.6

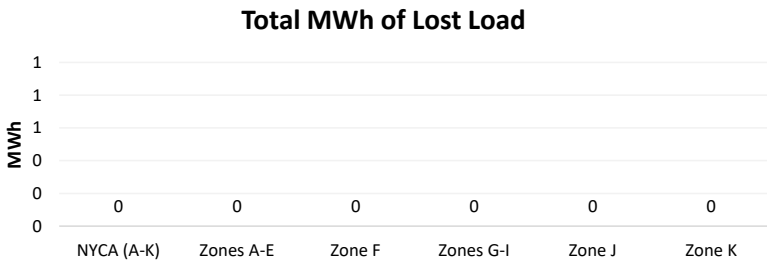
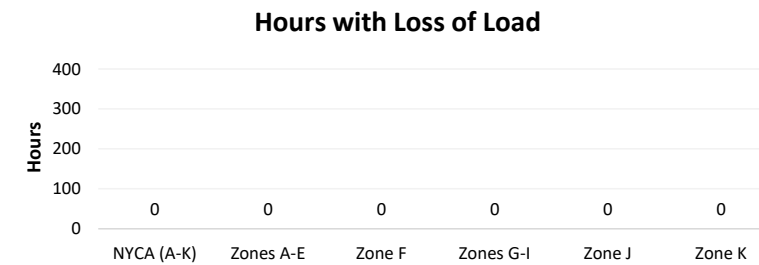
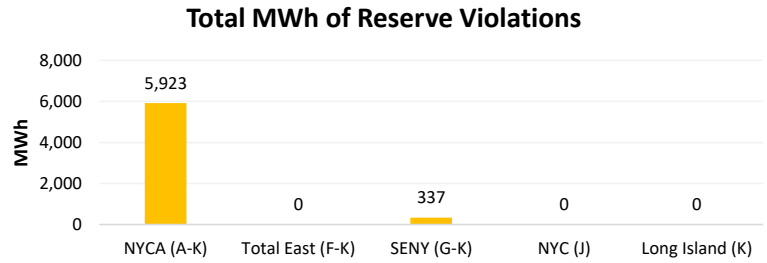
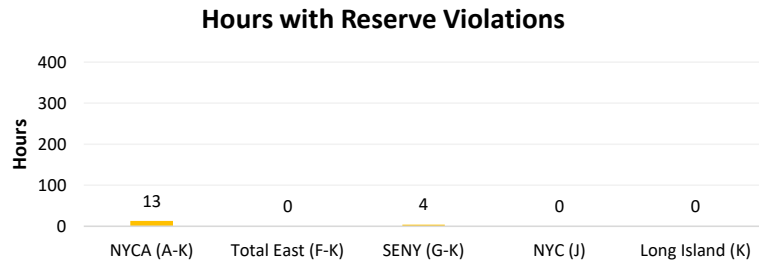
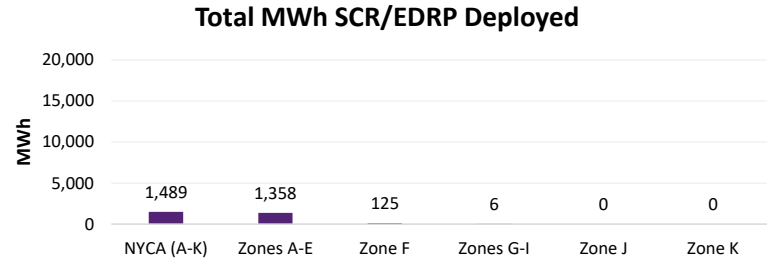
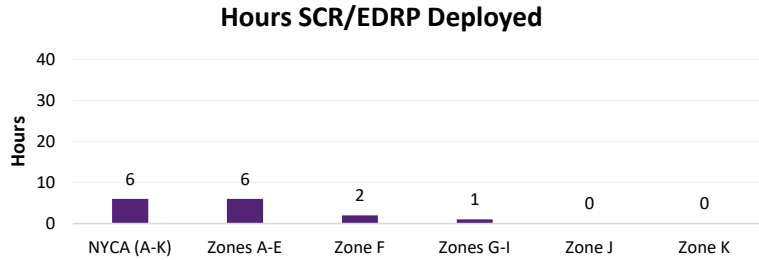
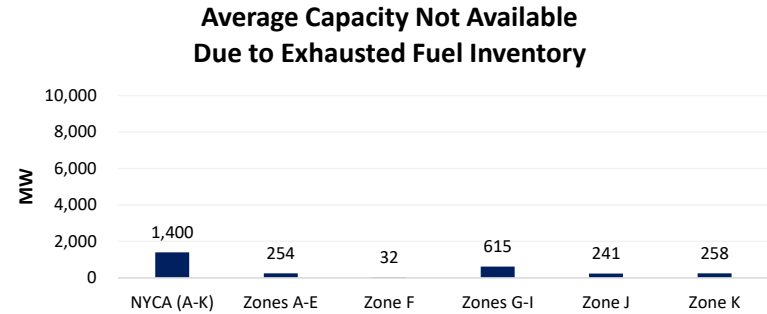
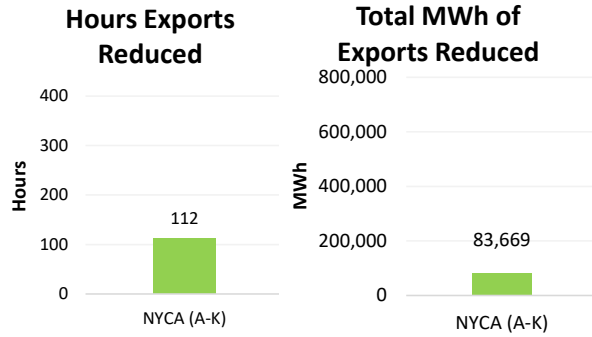
Reserve Violations	
Total Hrs.	13
Total MWh	5,923
Avg. MW	14.5
First Hour with Viol.	189
First Hour, Zone K	

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

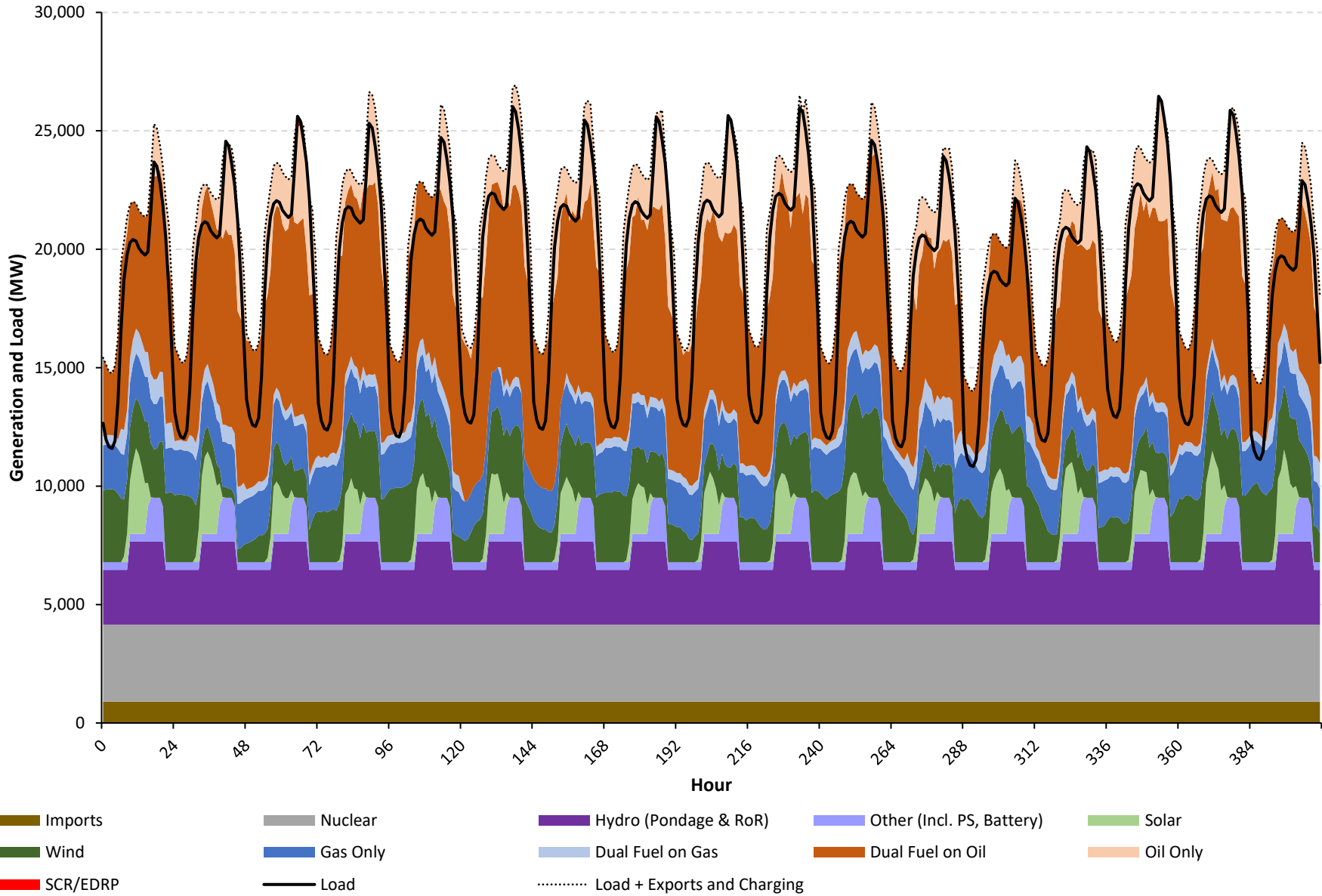
Full Period Results Summary

Case Name: Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



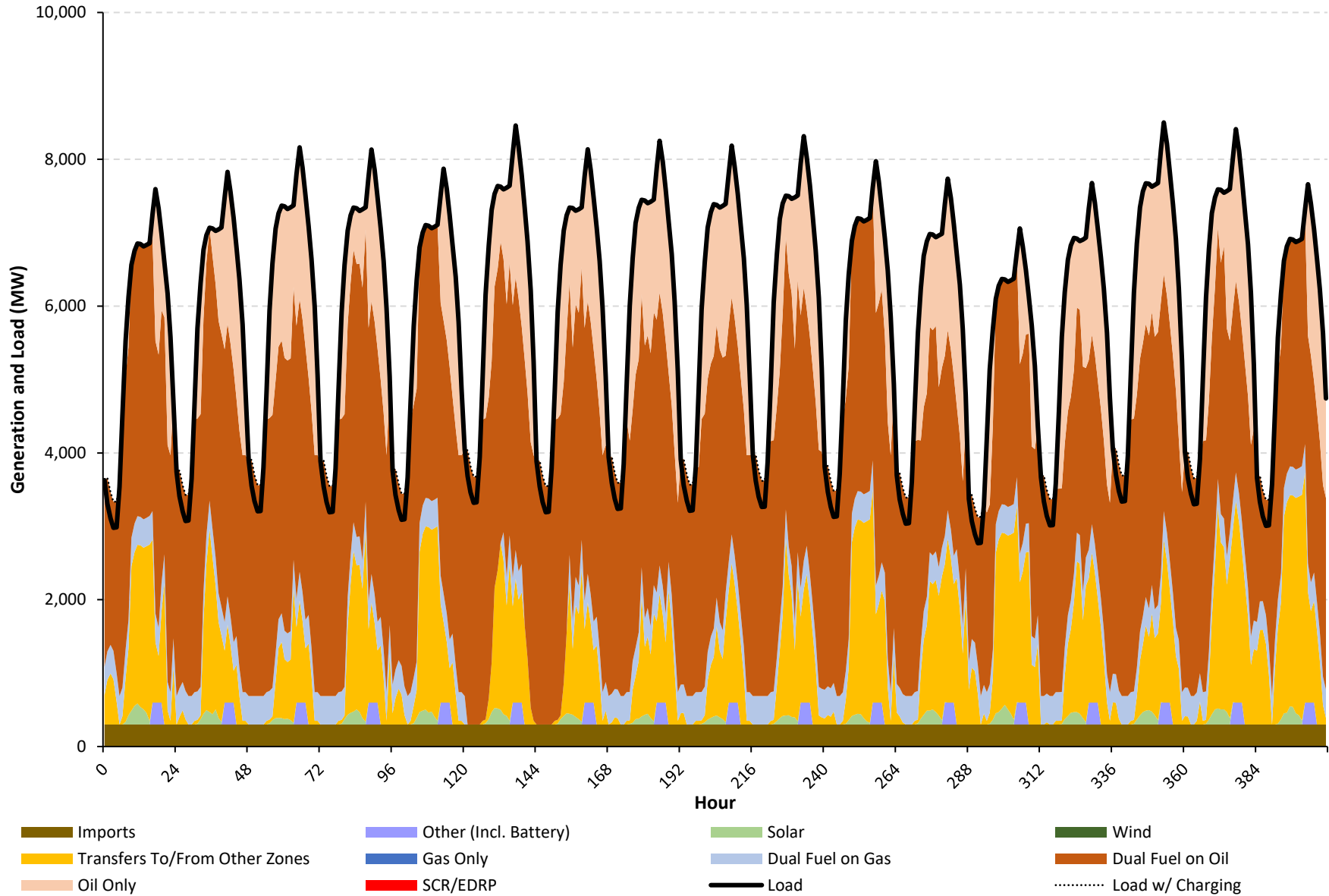
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)



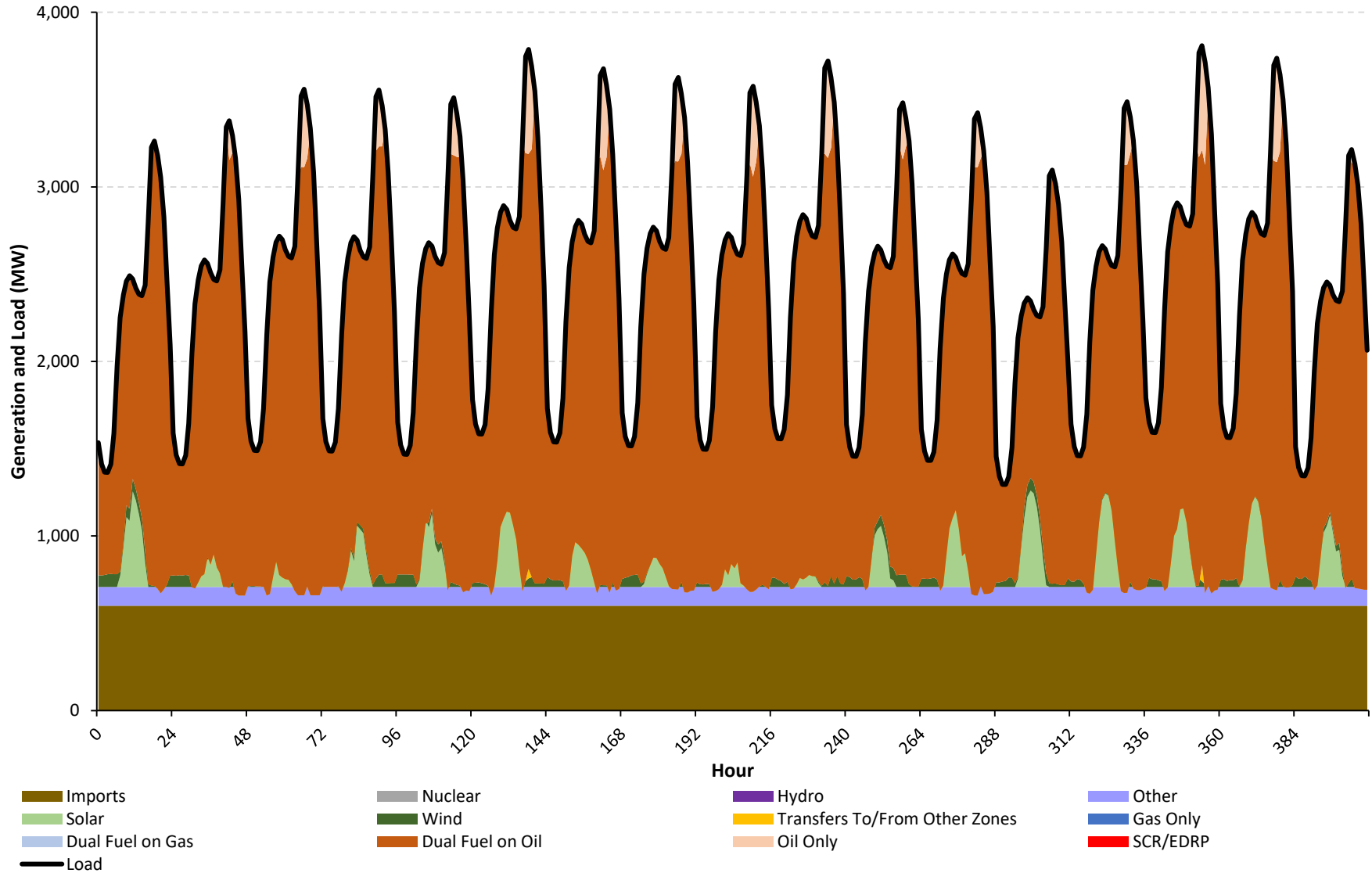
Zone J

Hourly Generation (MW) by Fuel Group

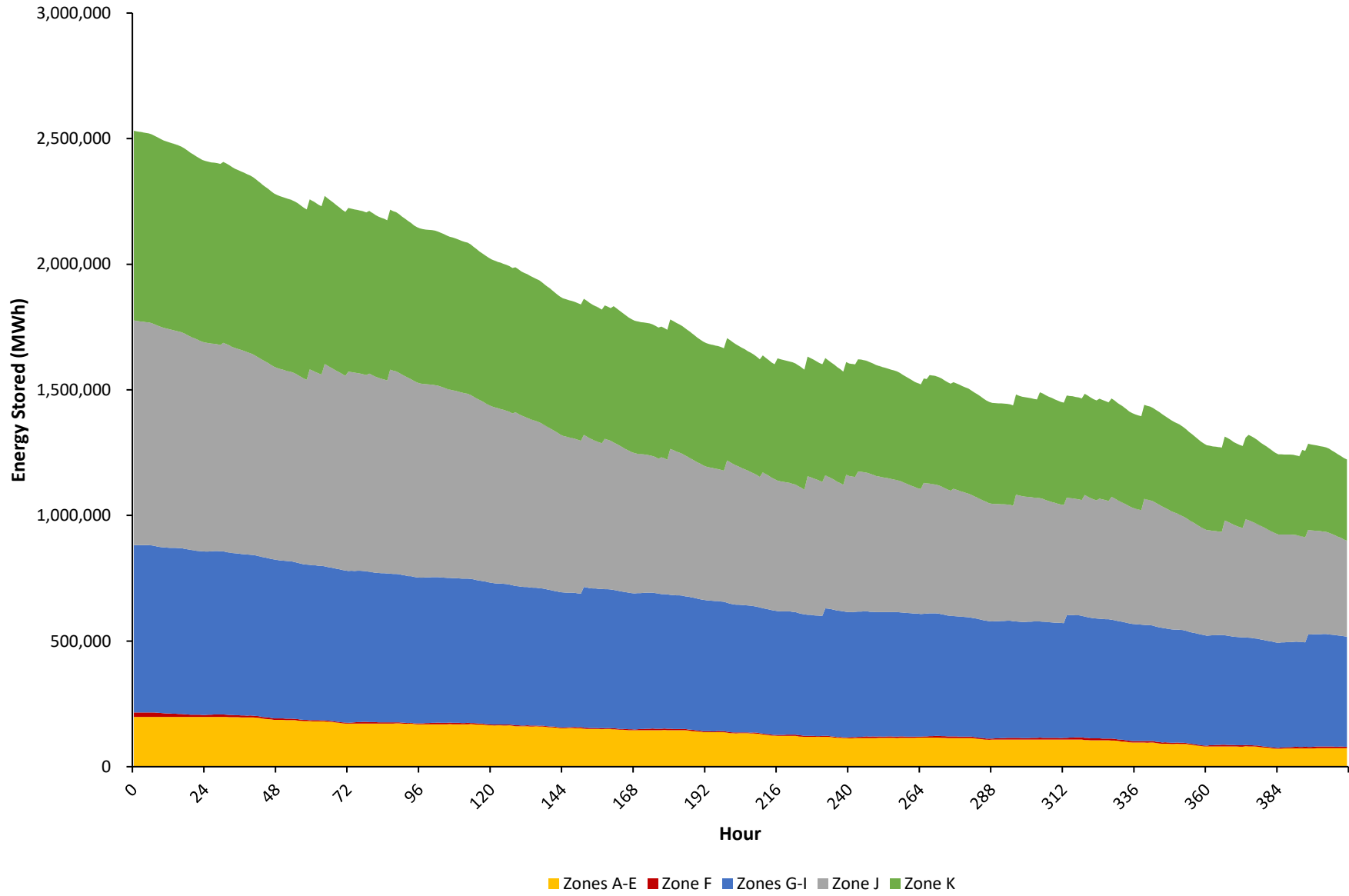
Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)

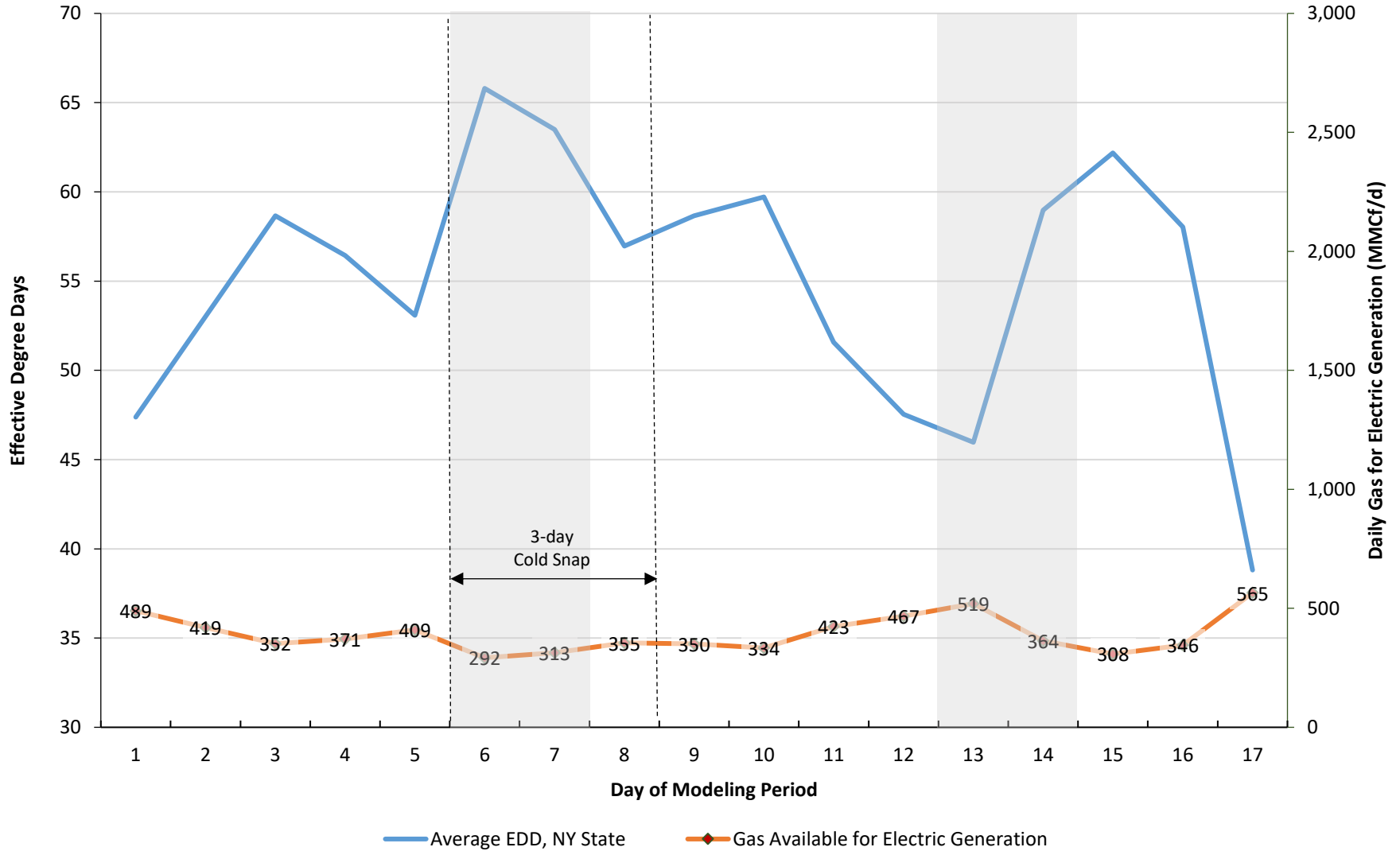


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

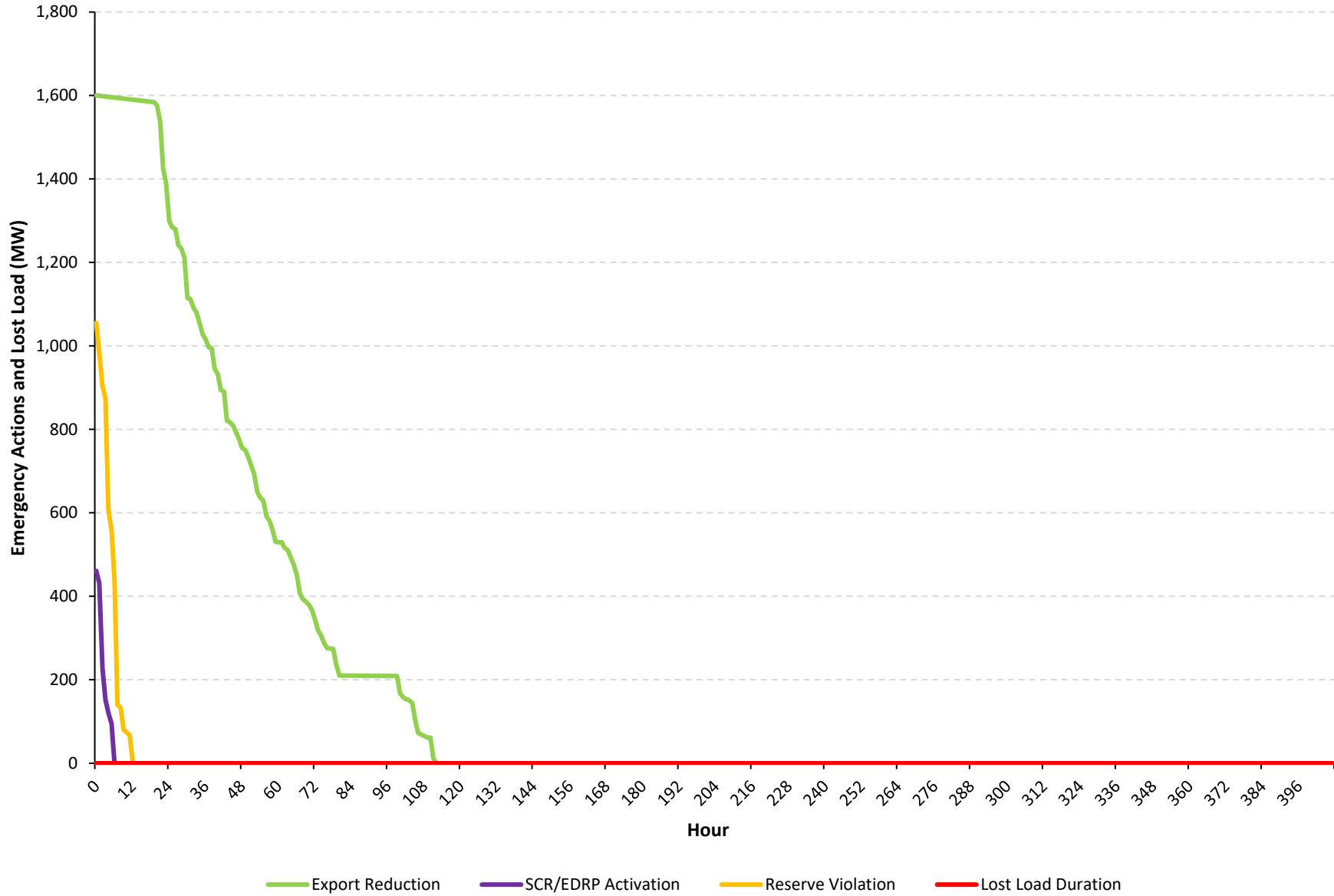
Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)

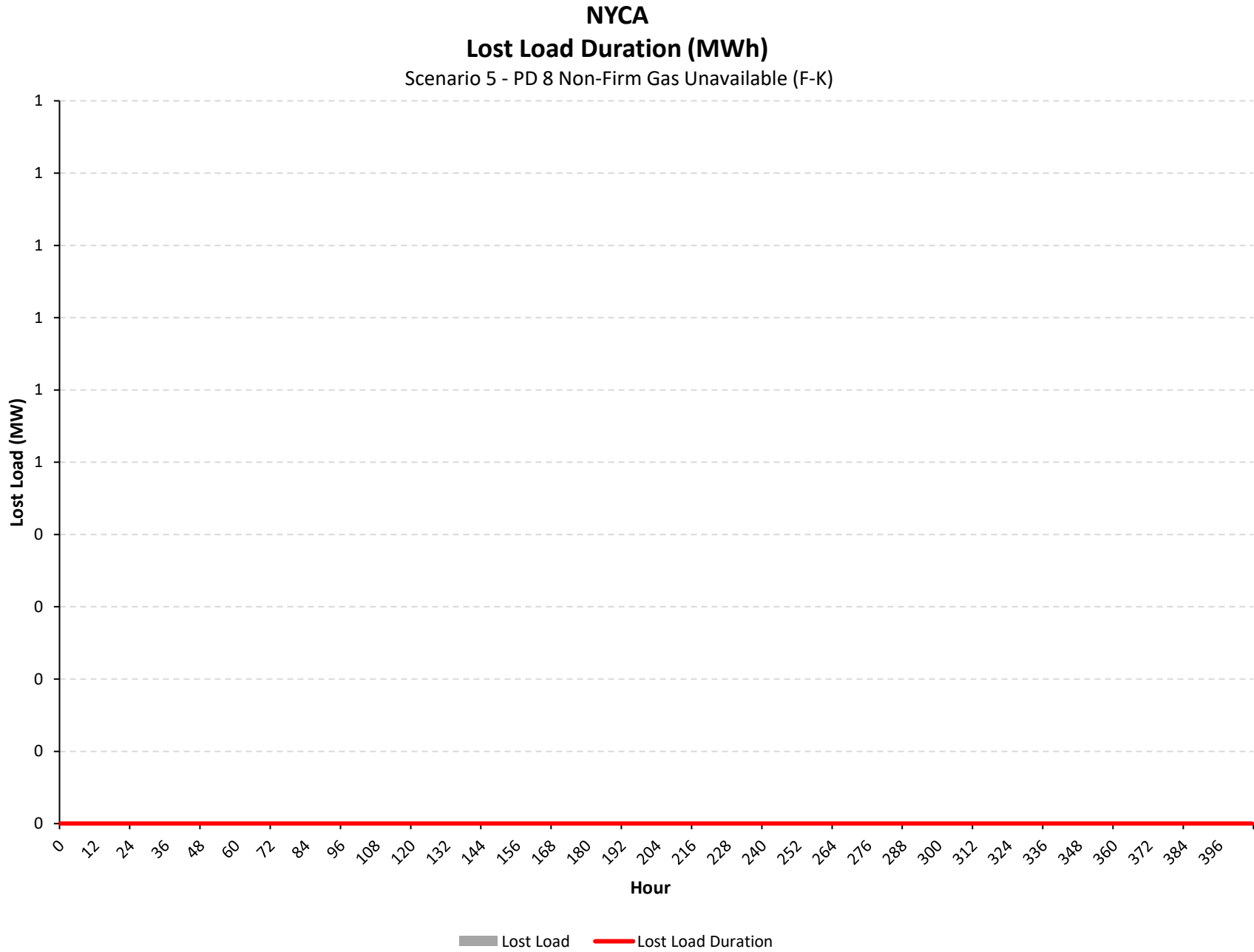


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 8 Non-Firm Gas Unavailable (F-K)



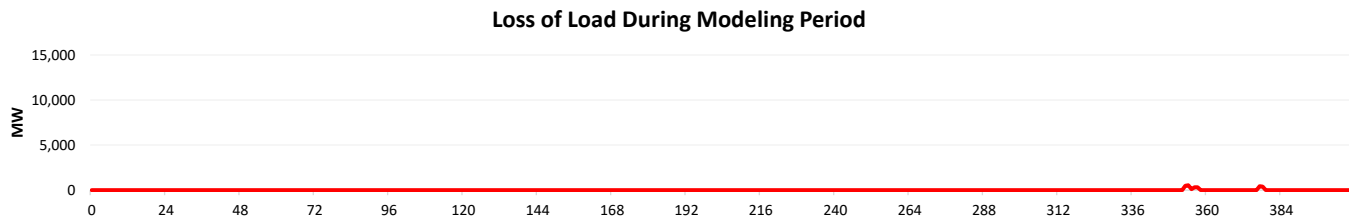
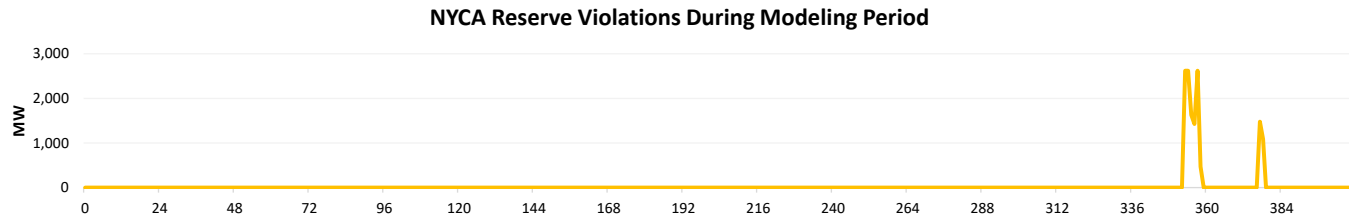
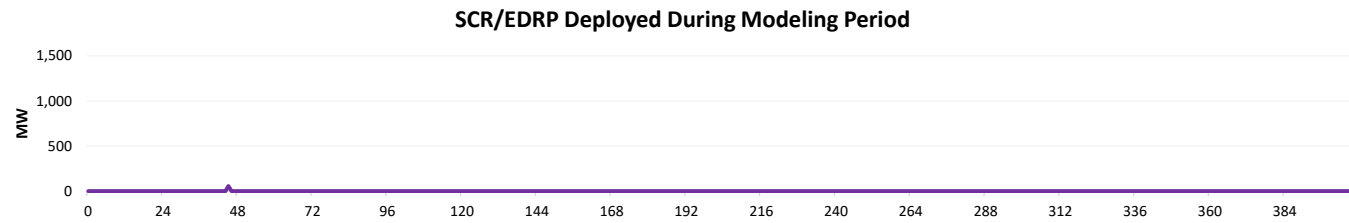
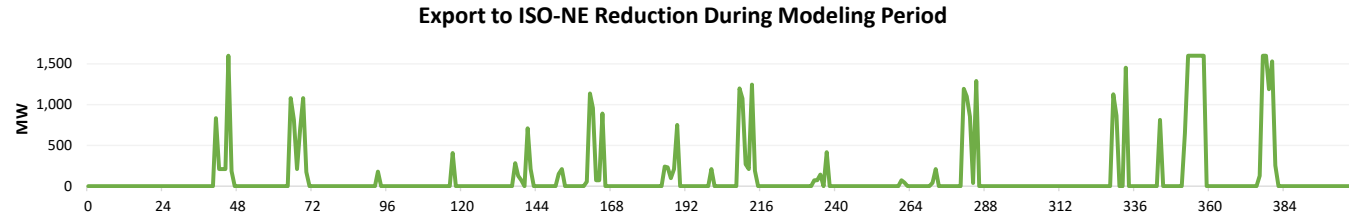
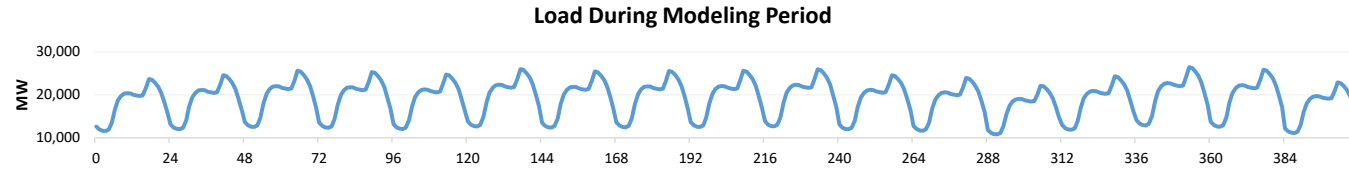


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 5 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW

Export Reductions	
Total Hrs.	69
Total MWh	45,129
Avg. MW	110.6

SCR Deployment	
Total Hrs.	1
Total MWh	56
Avg. MW	0.1

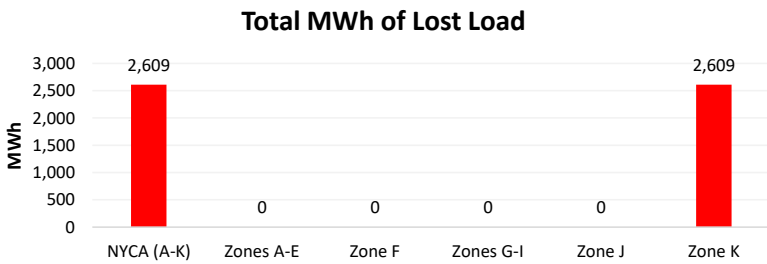
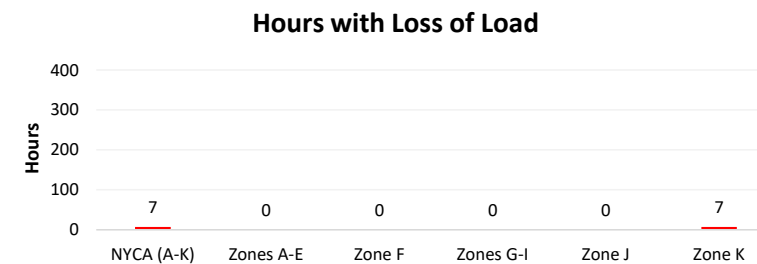
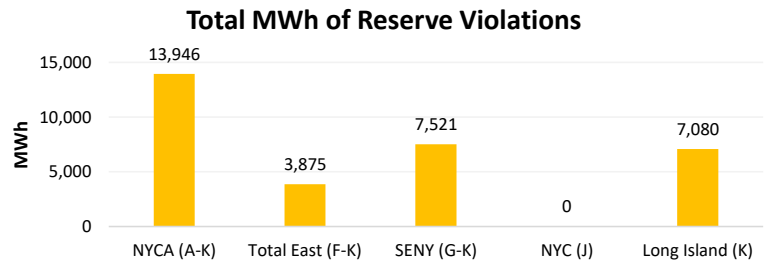
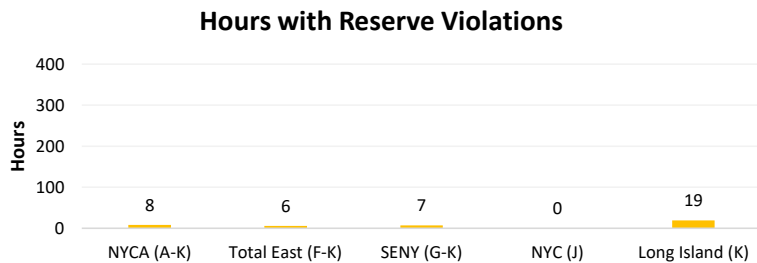
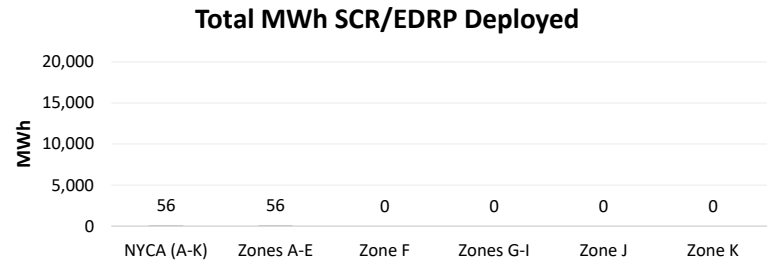
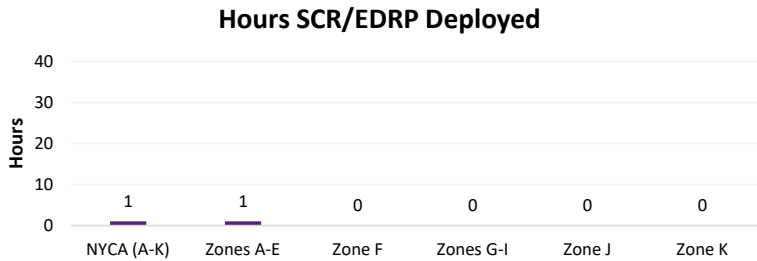
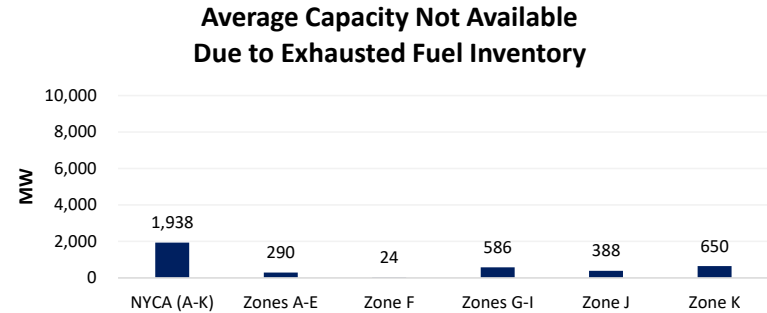
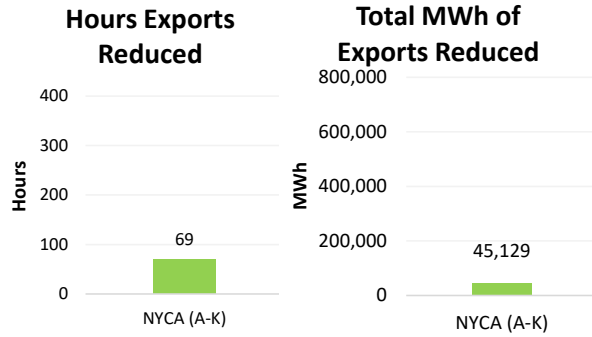
Reserve Violations	
Total Hrs.	8
Total MWh	13,946
Avg. MW	34.2
First Hour with Viol.	281
First Hour, Zone K	281

Loss of Load	
Total Hrs.	7
Total MWh	2,609
Avg. MW	6.4
First Hour with Losses	353
First Hour, Zone K	353

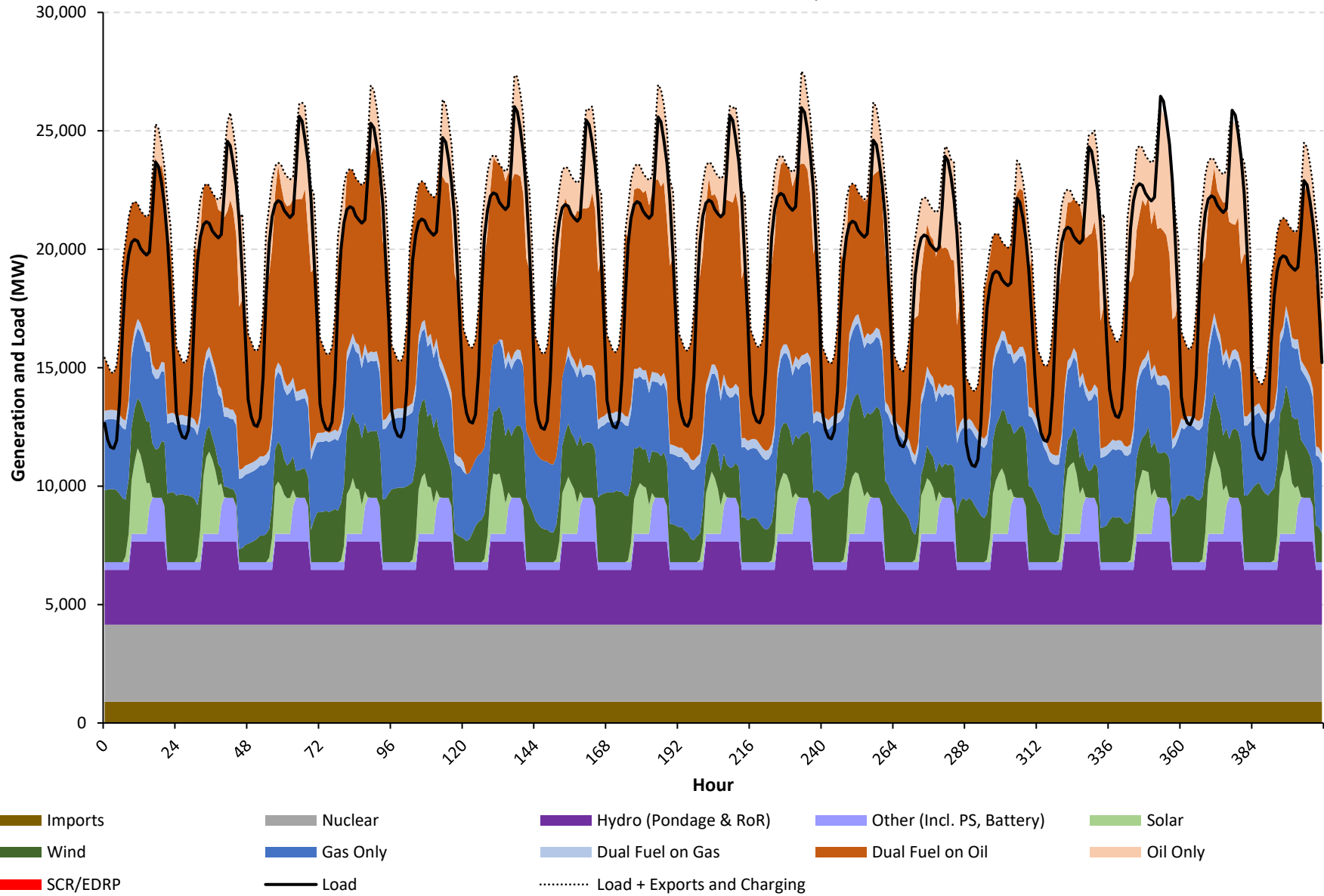
Full Period Results Summary

Case Name: Scenario 5 - PD 9 Low Fuel Inventory

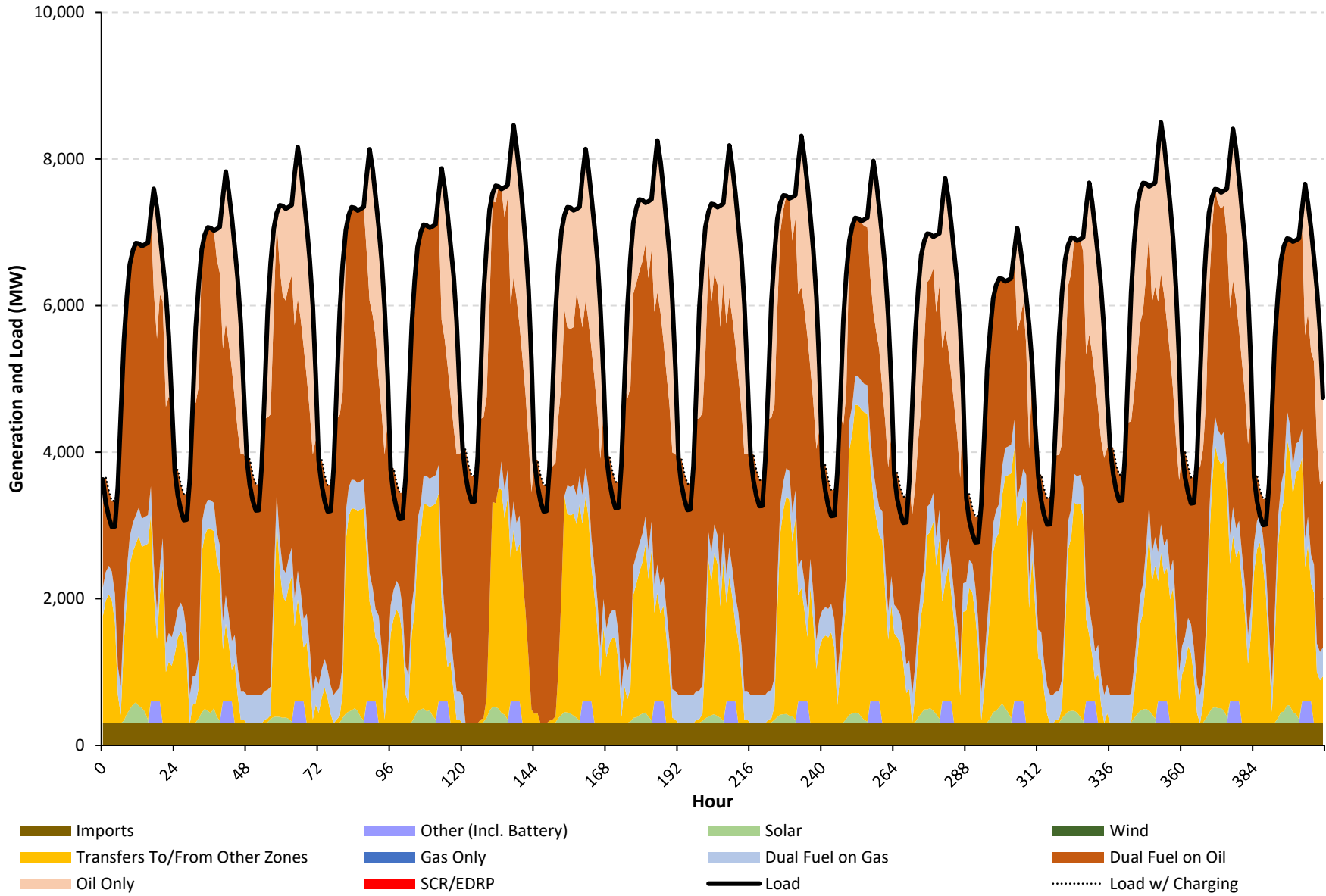
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



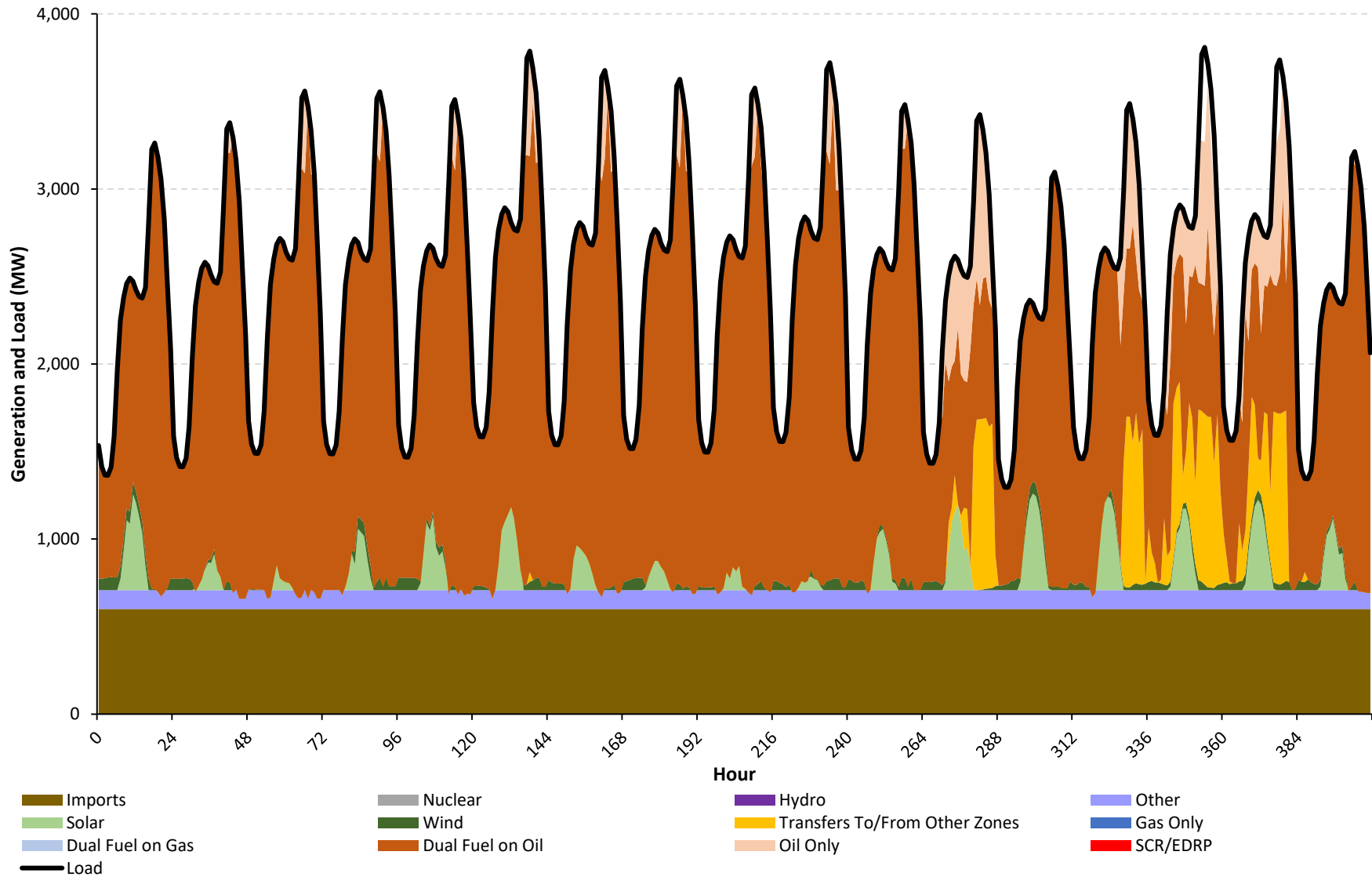
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 9 Low Fuel Inventory



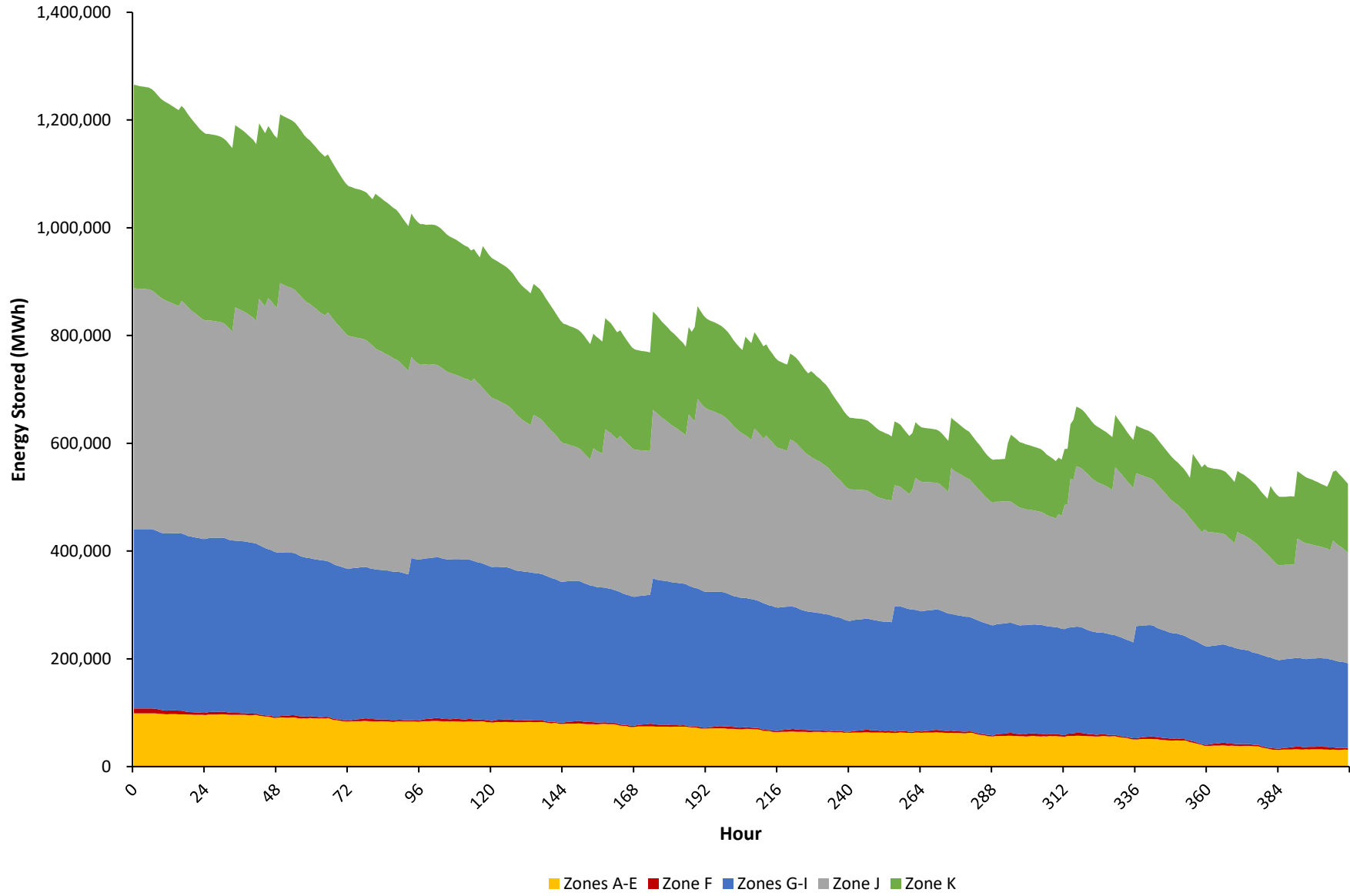
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 9 Low Fuel Inventory



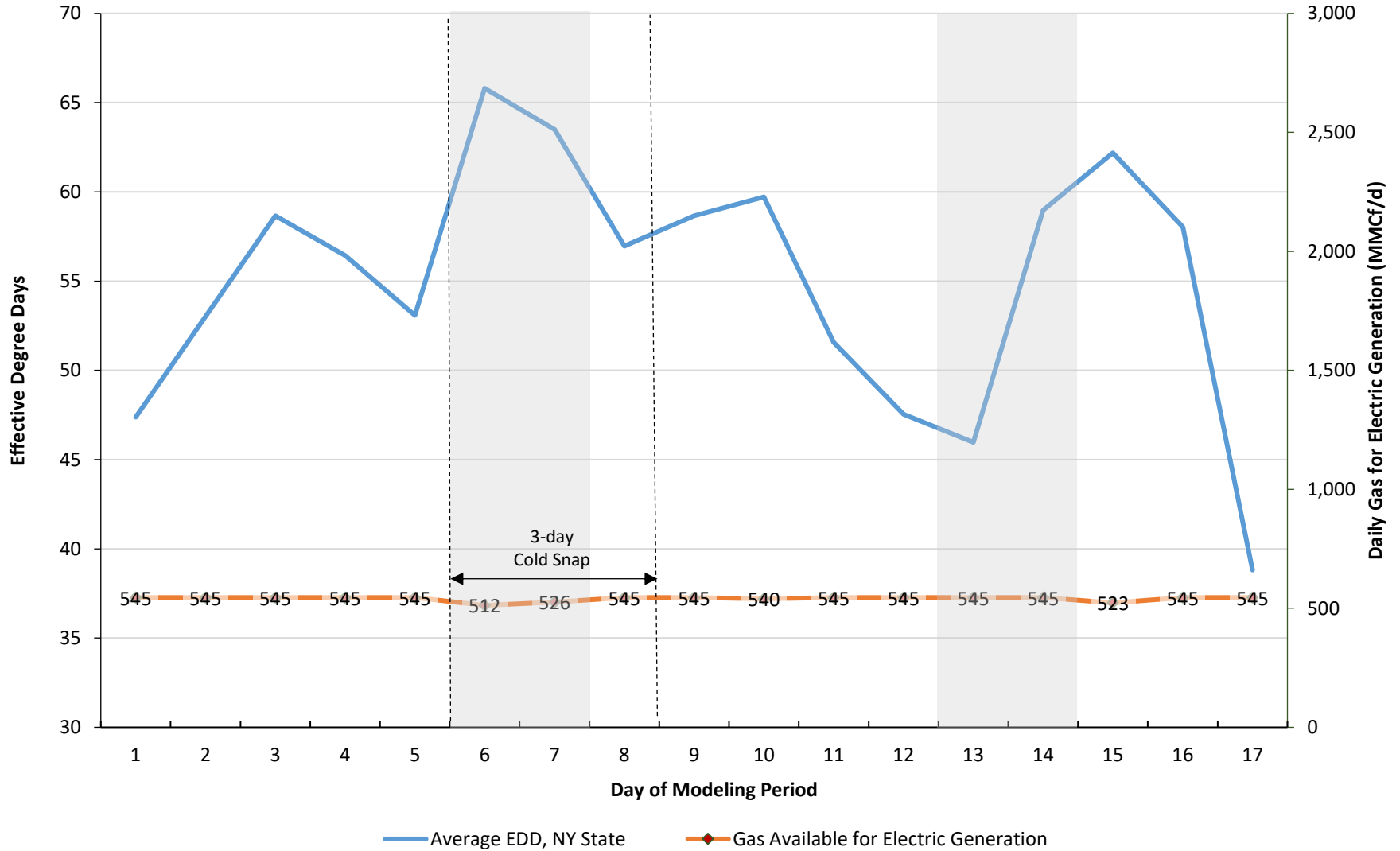
Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 9 Low Fuel Inventory



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 9 Low Fuel Inventory



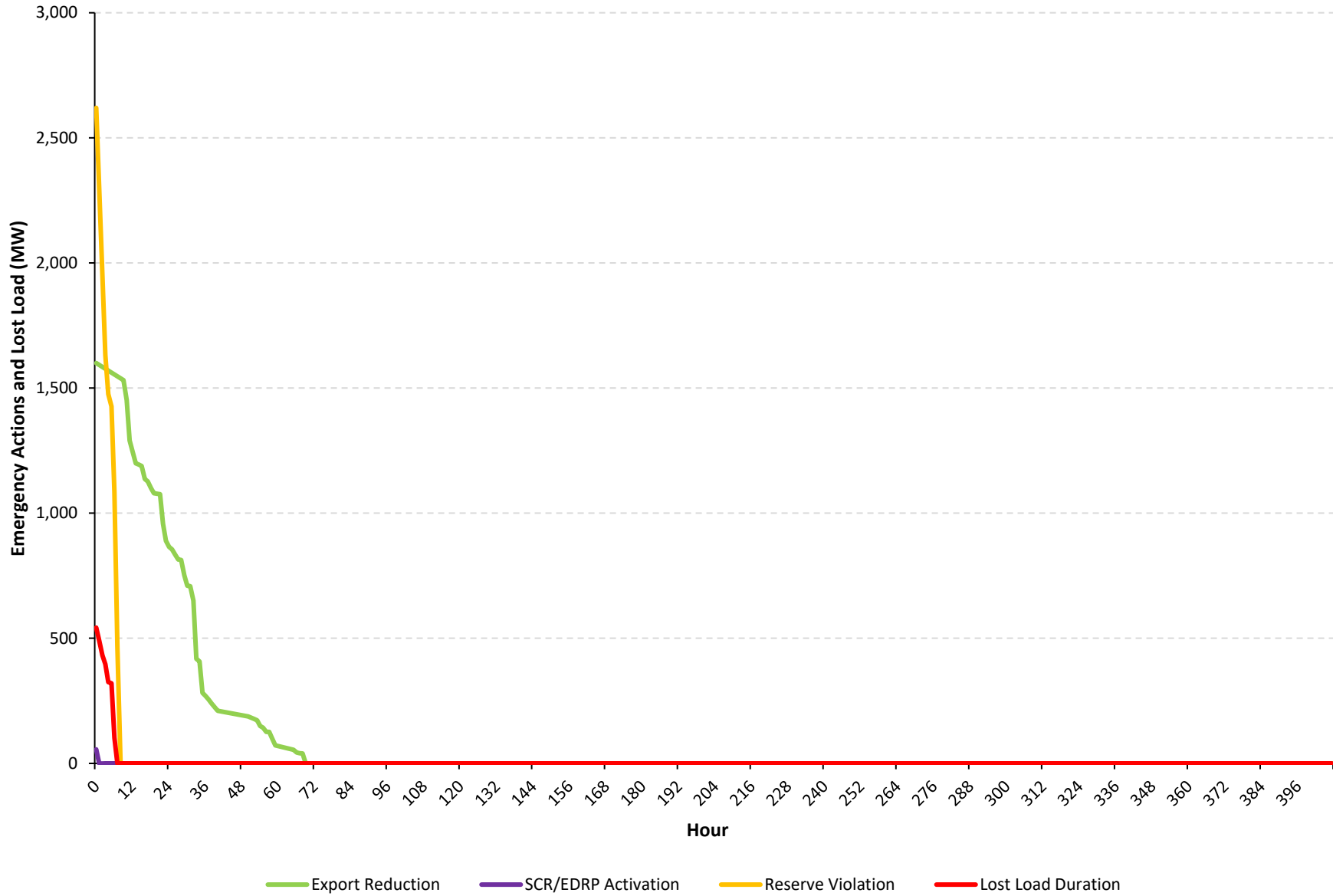
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 5 - PD 9 Low Fuel Inventory



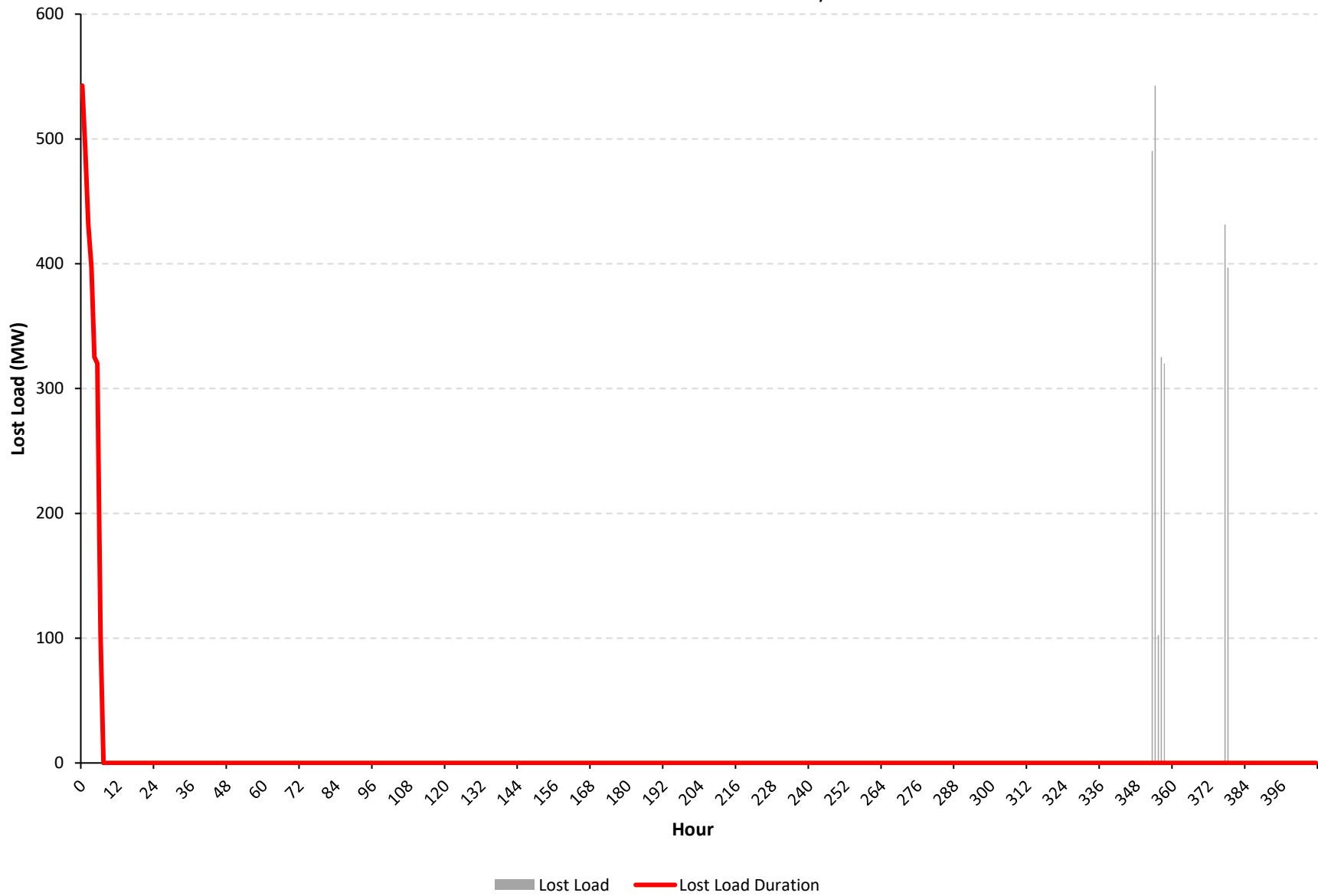
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 9 Low Fuel Inventory



NYCA
Lost Load Duration (MWh)
Scenario 5 - PD 9 Low Fuel Inventory



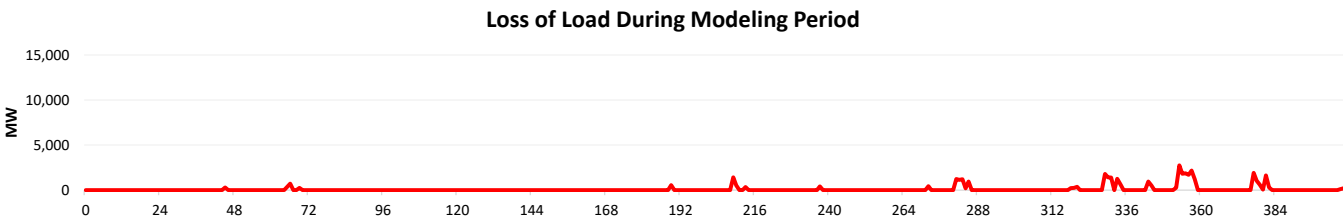
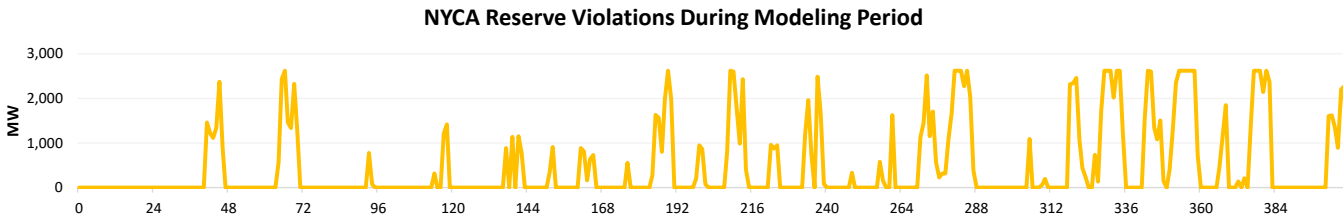
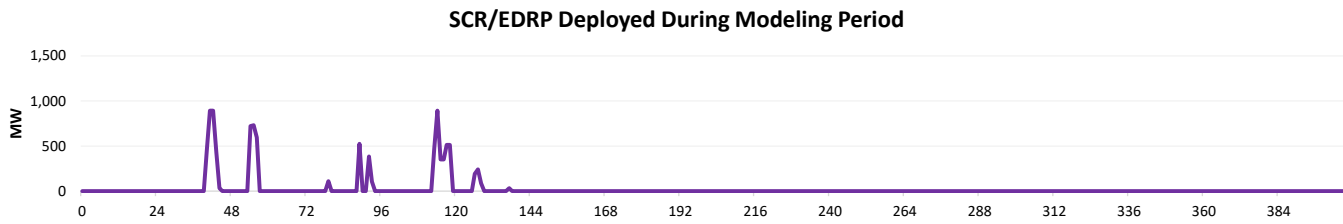
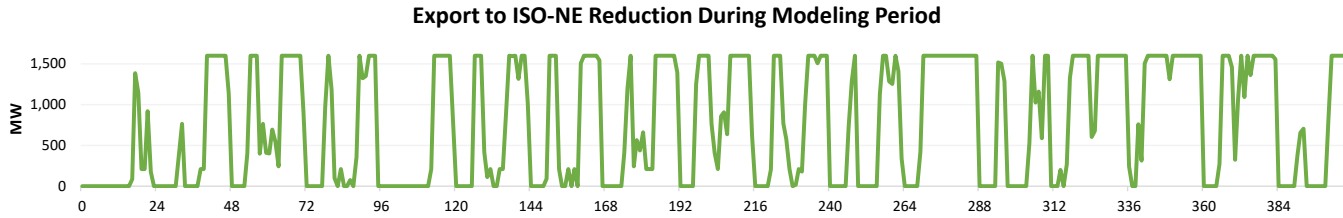
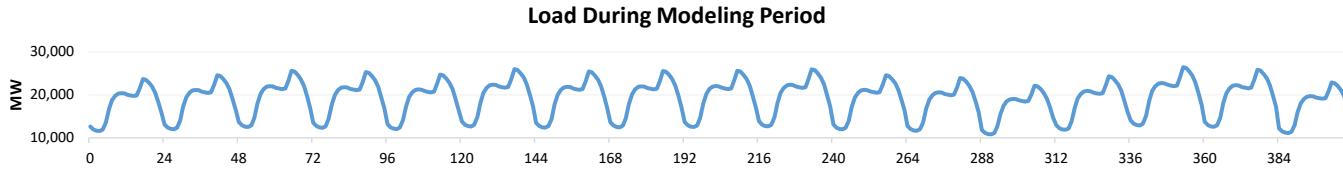
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	257
Total MWh	312,907
Avg. MW	766.9

SCR Deployment	
Total Hrs.	22
Total MWh	9,541
Avg. MW	23.4

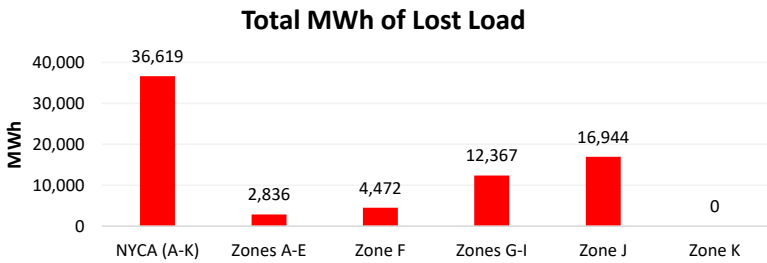
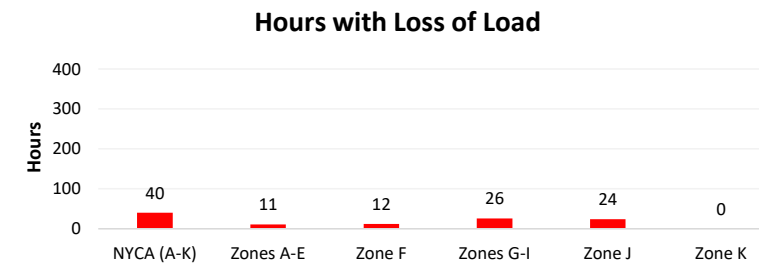
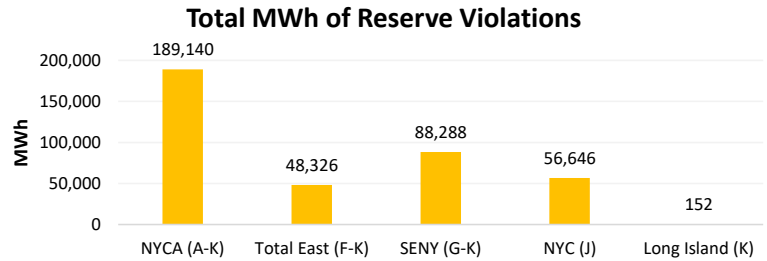
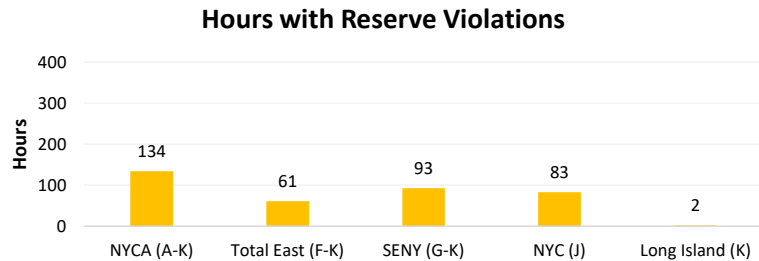
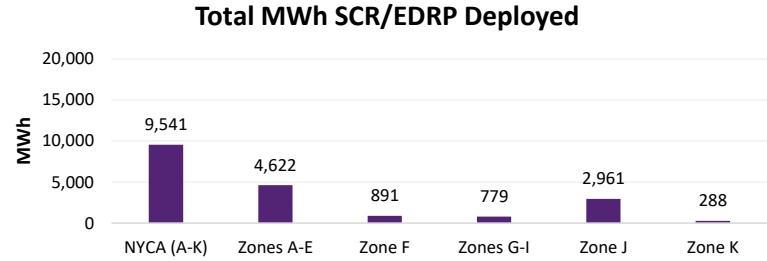
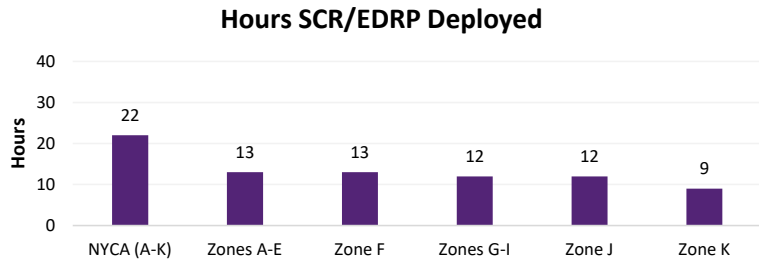
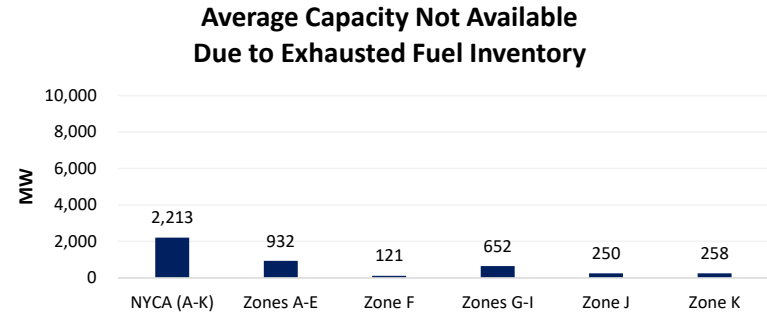
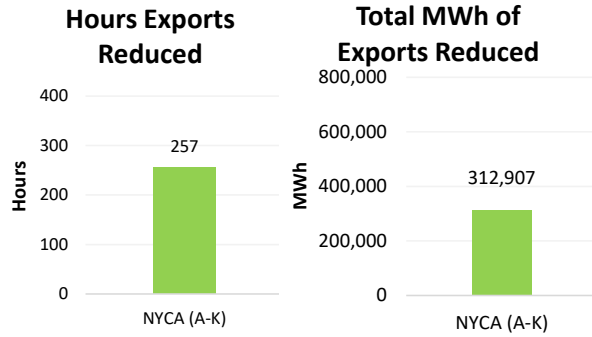
Reserve Violations	
Total Hrs.	134
Total MWh	189,140
Avg. MW	463.6
First Hour with Viol.	41
First Hour, Zone K	353

Loss of Load	
Total Hrs.	40
Total MWh	36,619
Avg. MW	89.8
First Hour with Losses	45
First Hour, Zone K	353

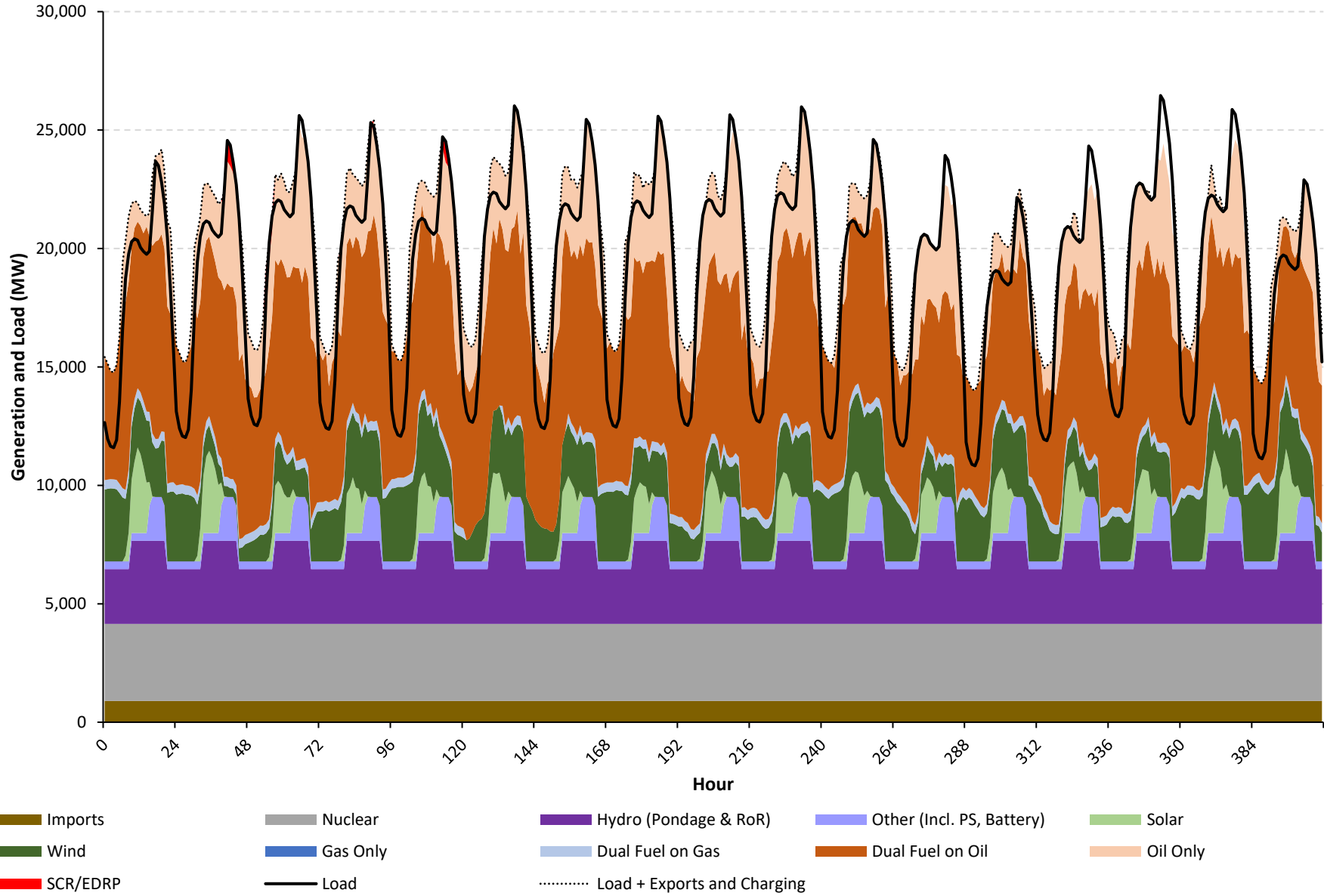
Full Period Results Summary

Case Name: Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)

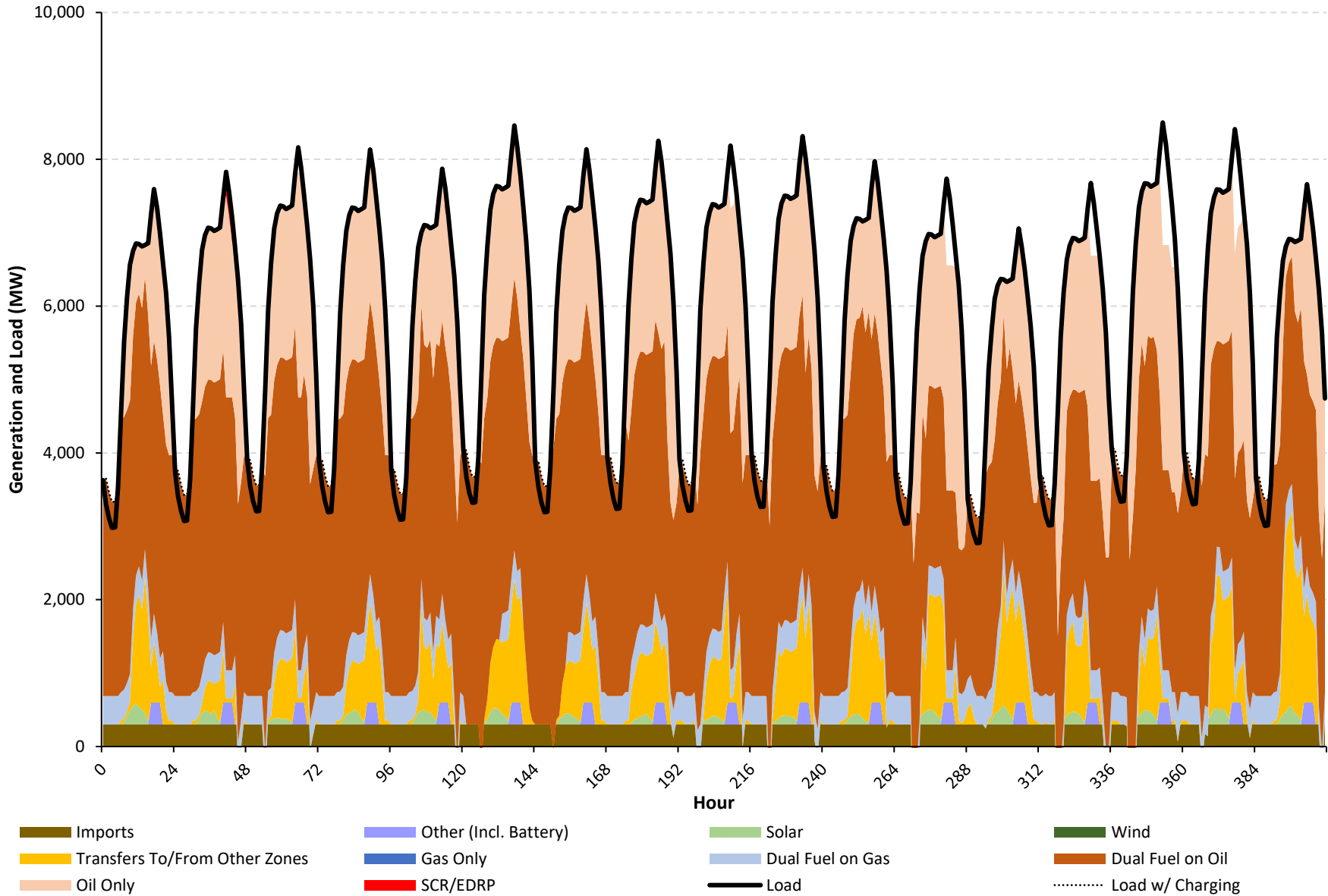
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	900 MW



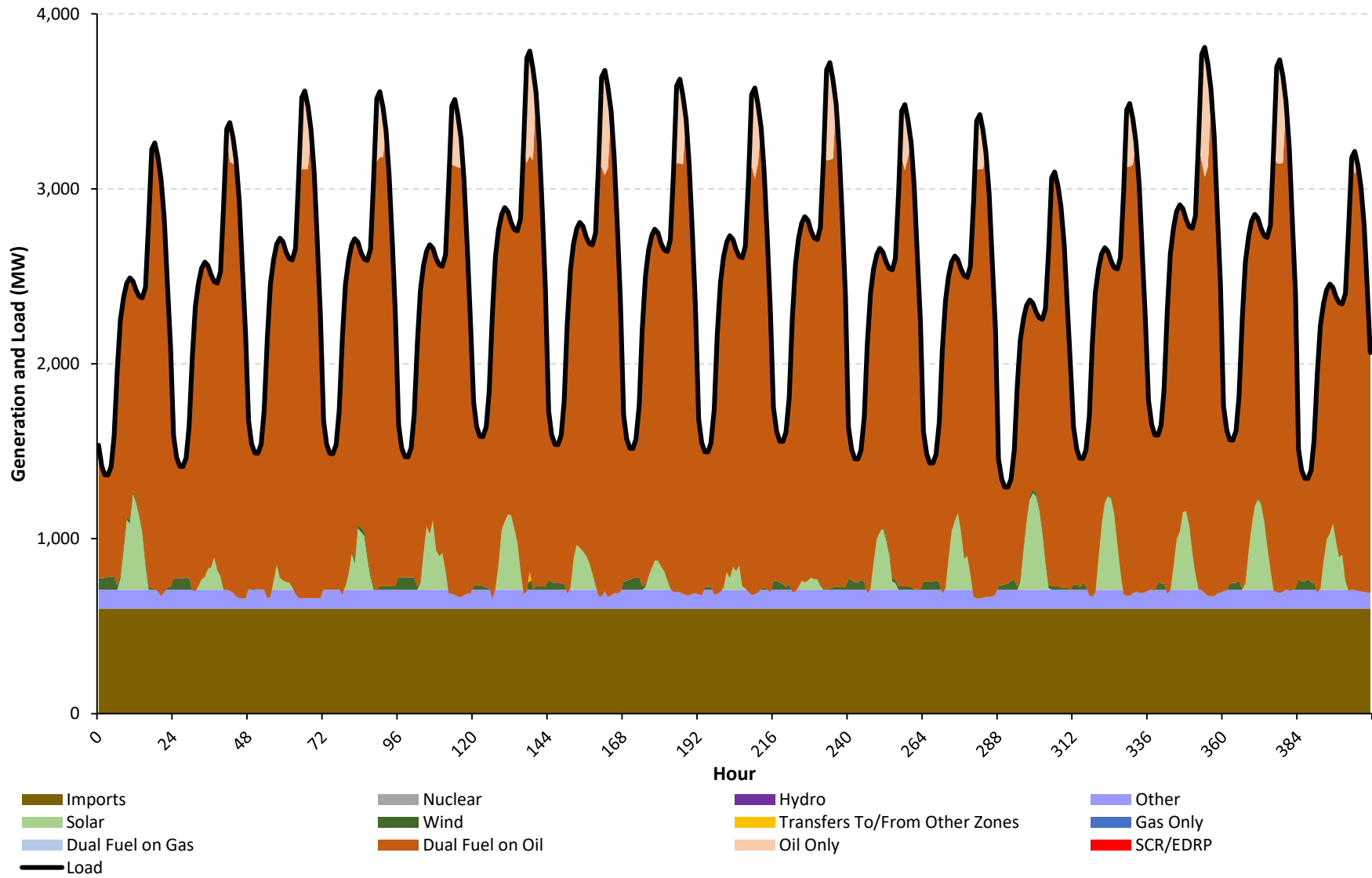
NYCA Hourly Generation (MWh) by Fuel Group Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



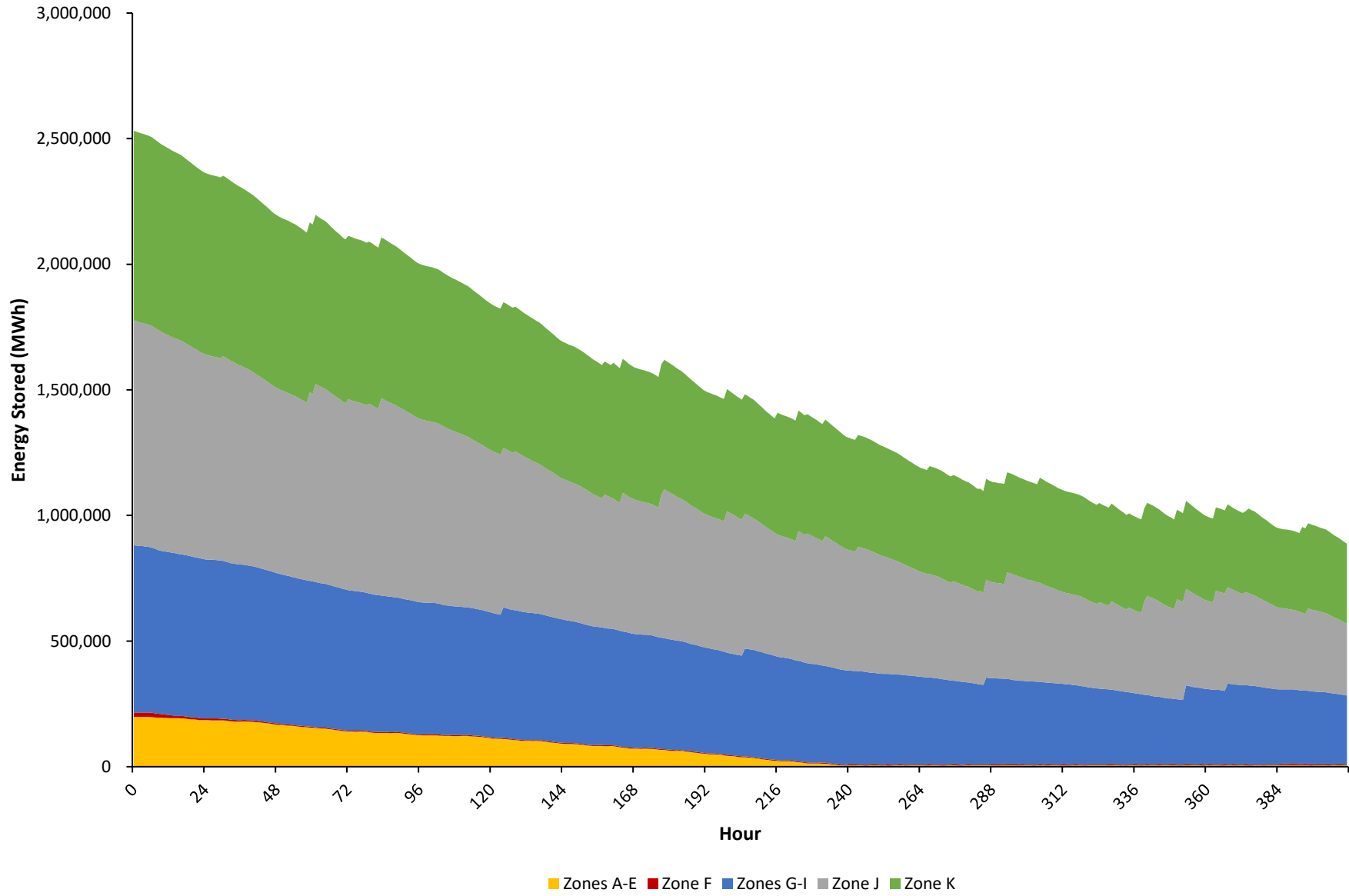
Zone J Hourly Generation (MW) by Fuel Group Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)

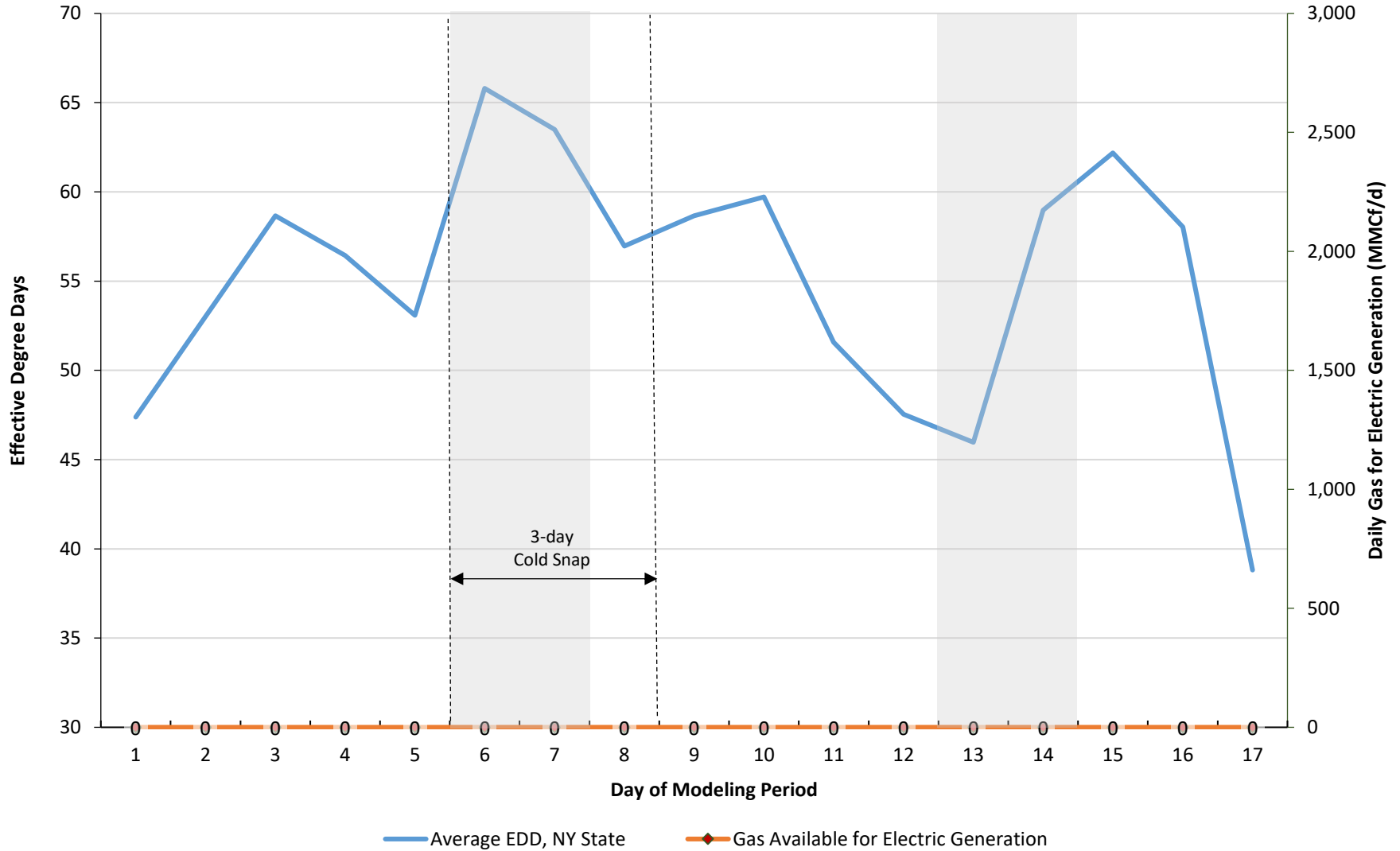


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

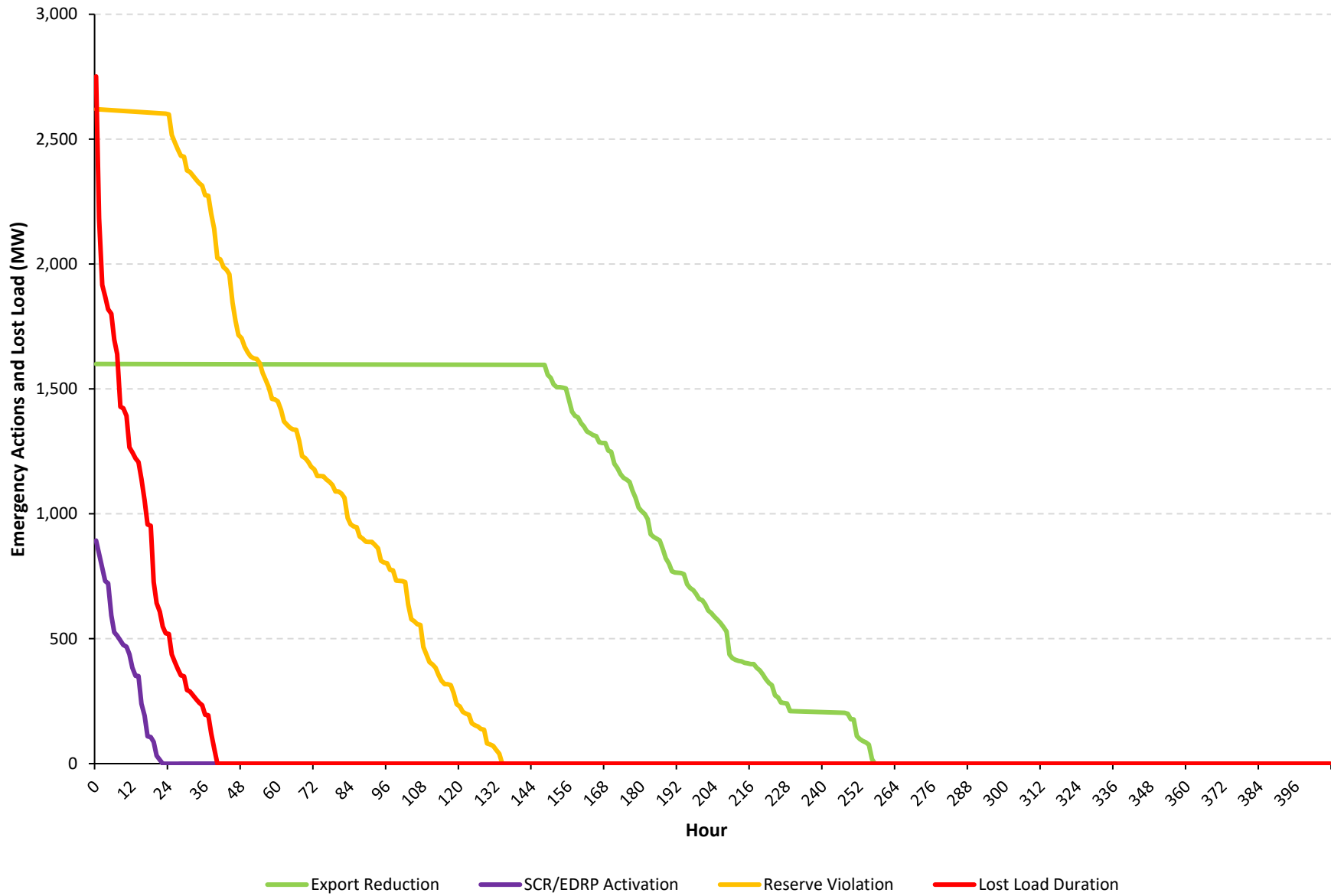
Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



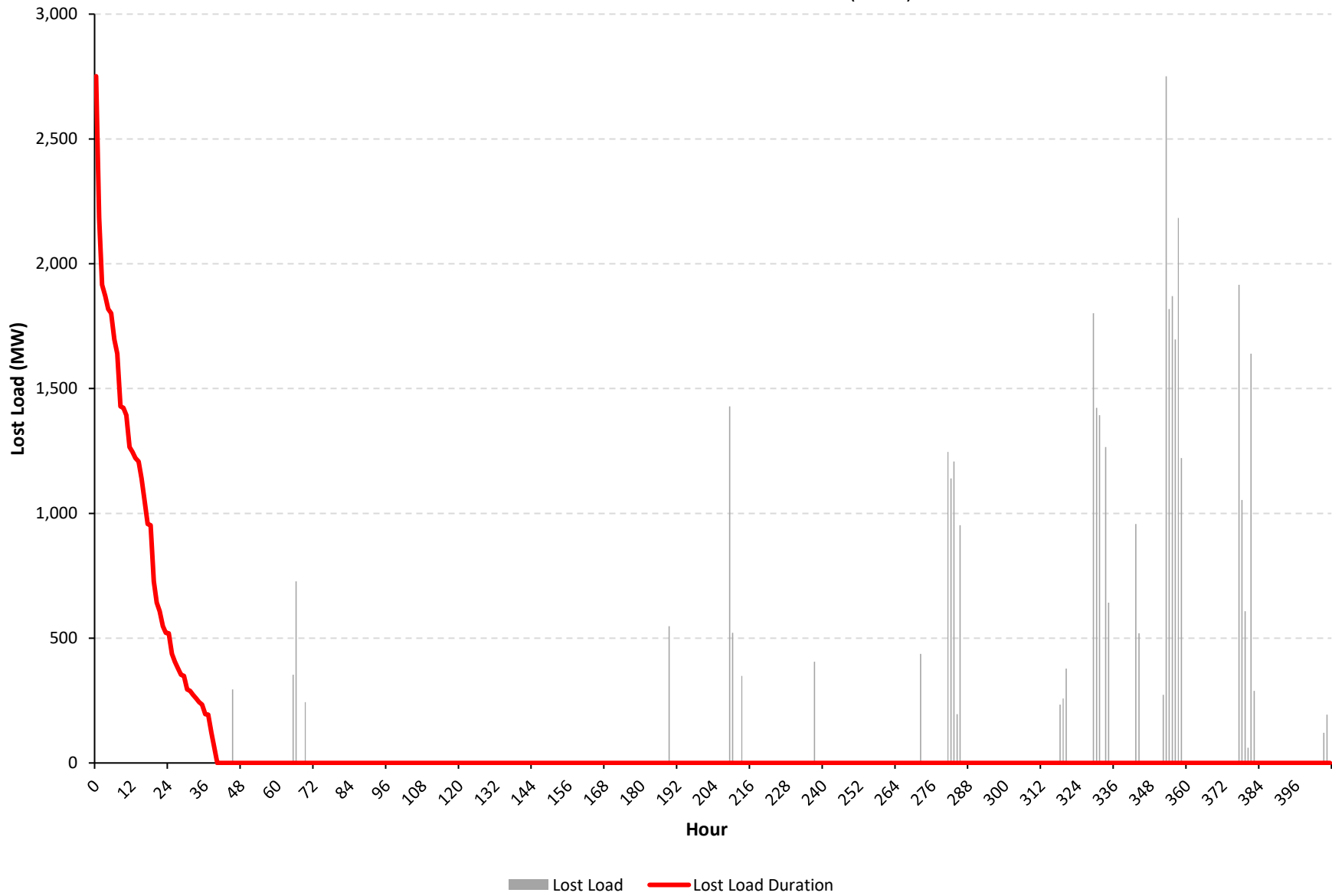
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Lost Load Duration (MWh) Scenario 5 - PD 10 Non-Firm Gas Unavailable (NYCA)



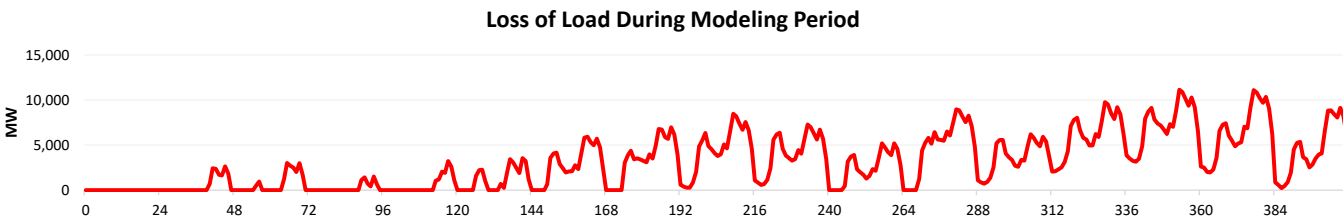
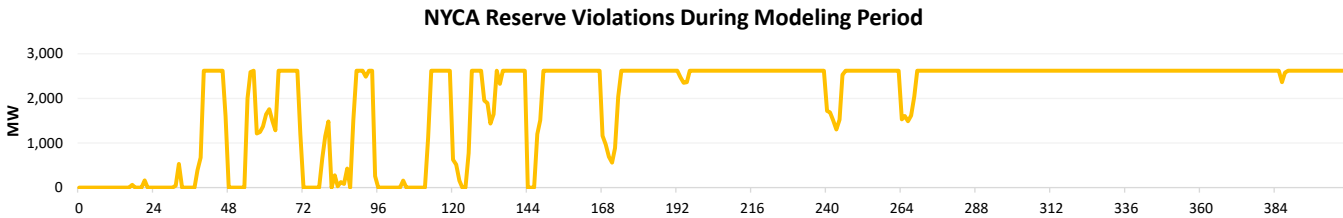
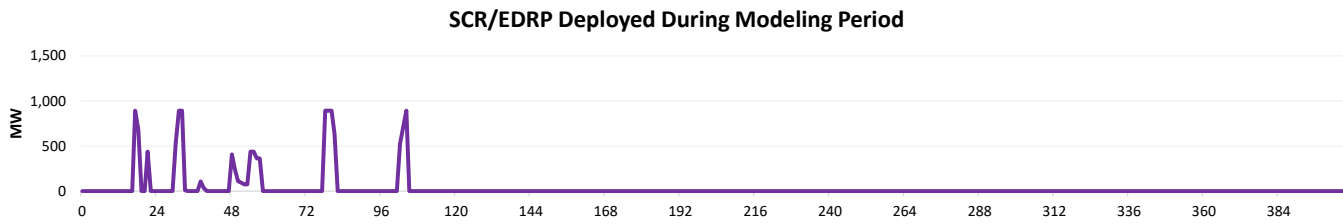
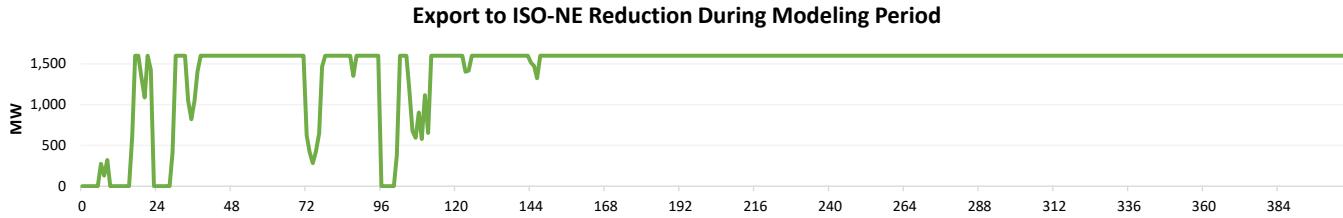
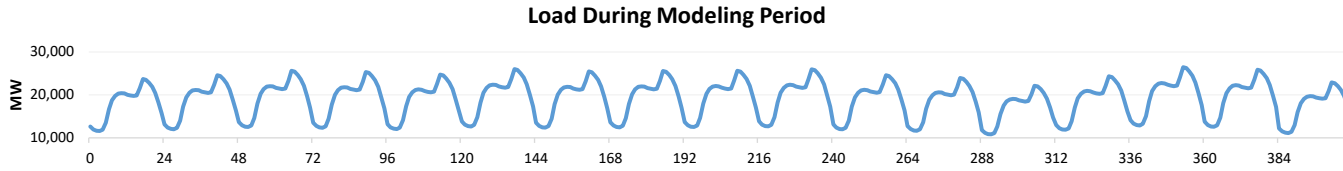
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



Export Reductions	
Total Hrs.	384
Total MWh	591,544
Avg. MW	1,449.9

SCR Deployment	
Total Hrs.	26
Total MWh	12,517
Avg. MW	30.7

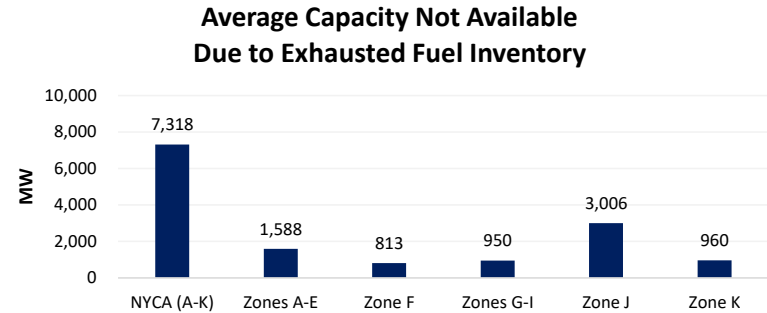
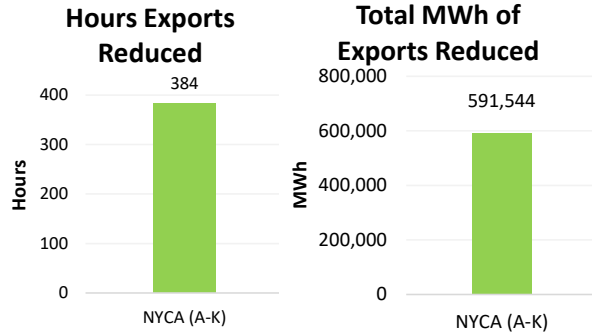
Reserve Violations	
Total Hrs.	340
Total MWh	805,757
Avg. MW	1,974.9
First Hour with Viol.	17
First Hour, Zone K	65

Loss of Load	
Total Hrs.	286
Total MWh	1,286,291
Avg. MW	3,152.7
First Hour with Losses	40
First Hour, Zone K	235

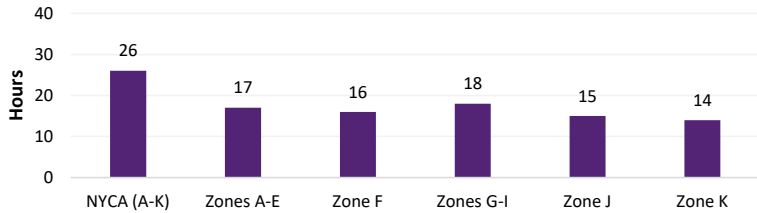
Full Period Results Summary

Case Name: Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

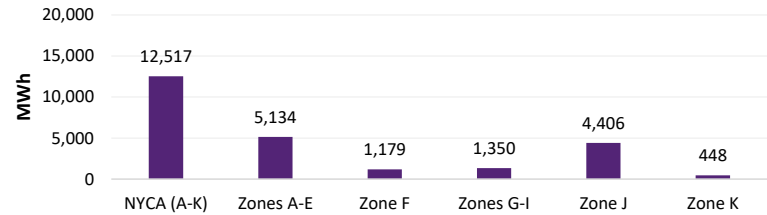
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	900 MW



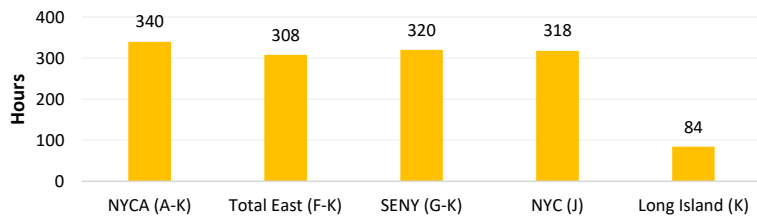
Hours SCR/EDRP Deployed



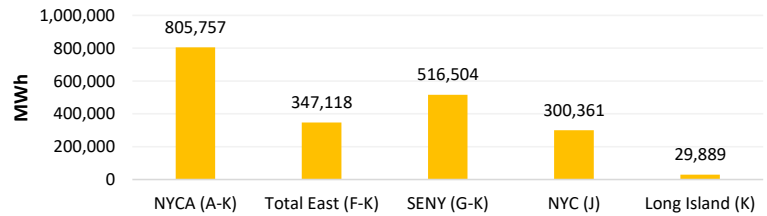
Total MWh SCR/EDRP Deployed



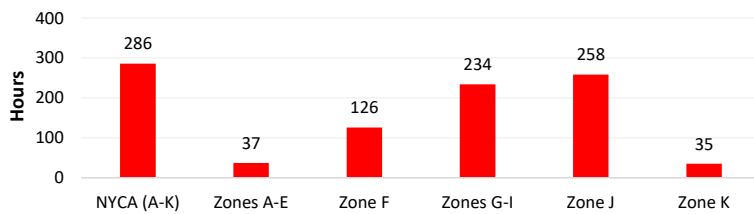
Hours with Reserve Violations



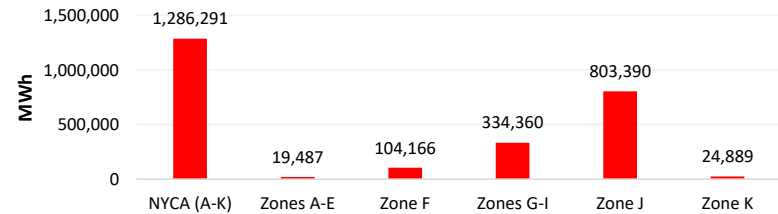
Total MWh of Reserve Violations



Hours with Loss of Load



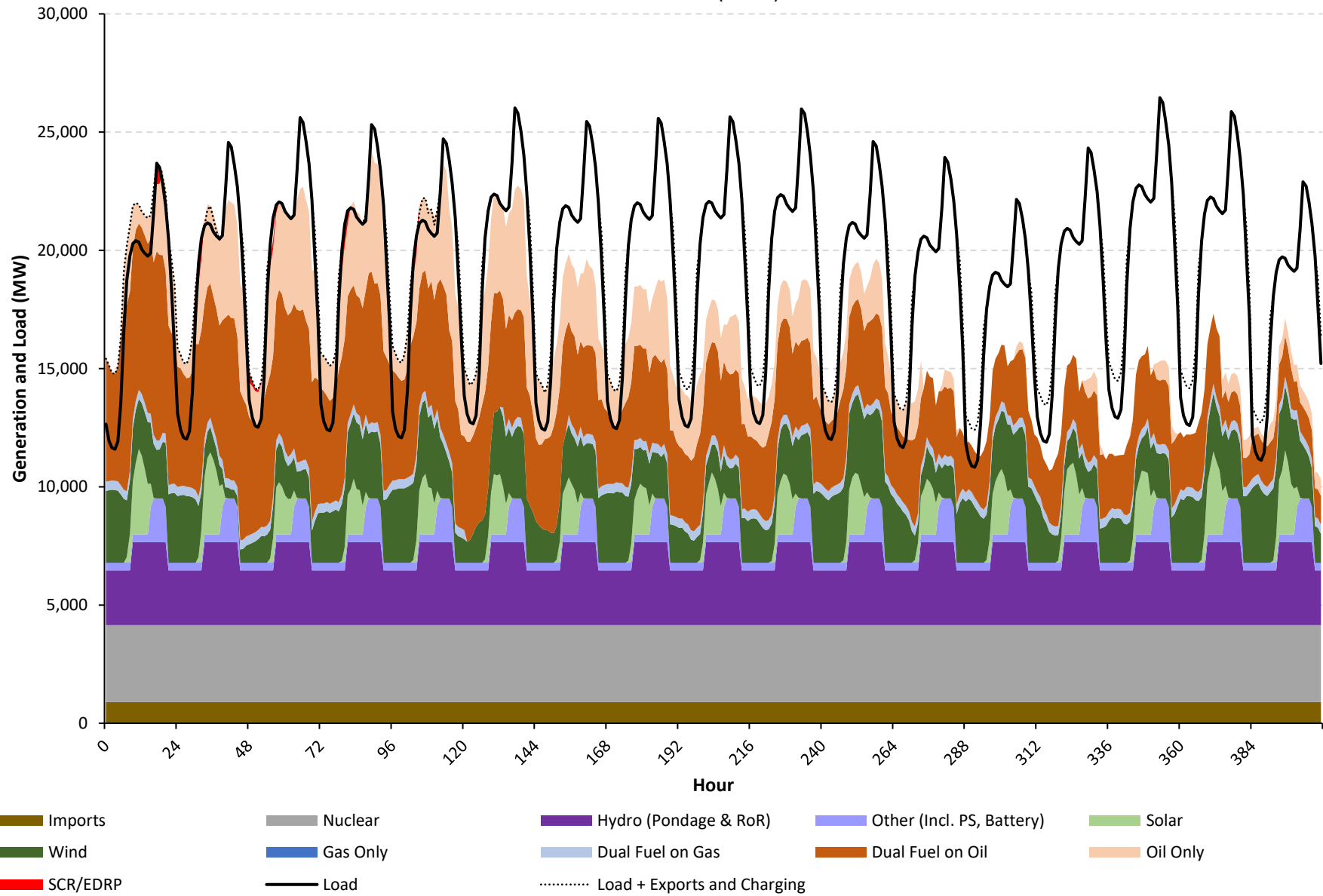
Total MWh of Lost Load



NYCA

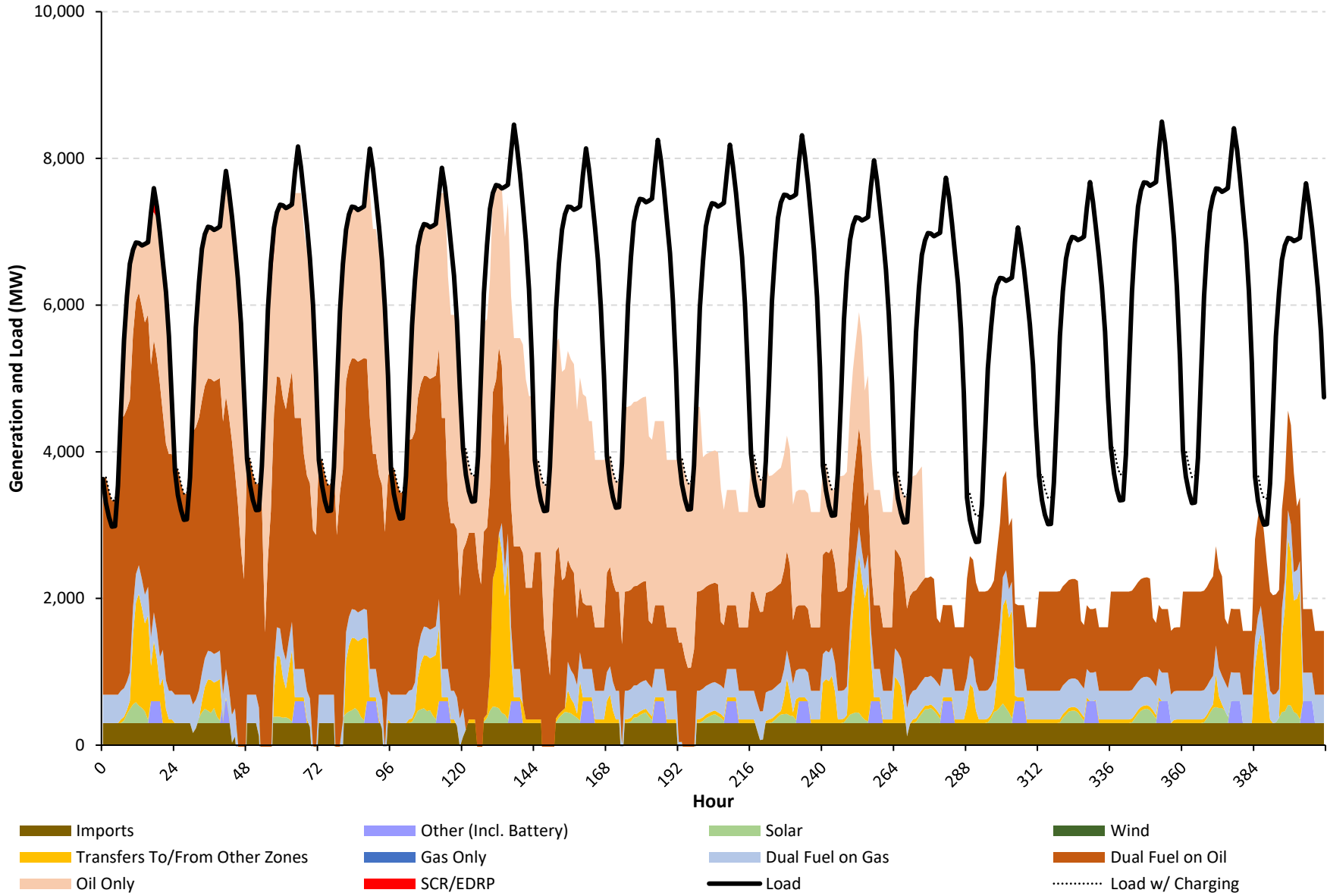
Hourly Generation (MWh) by Fuel Group

Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



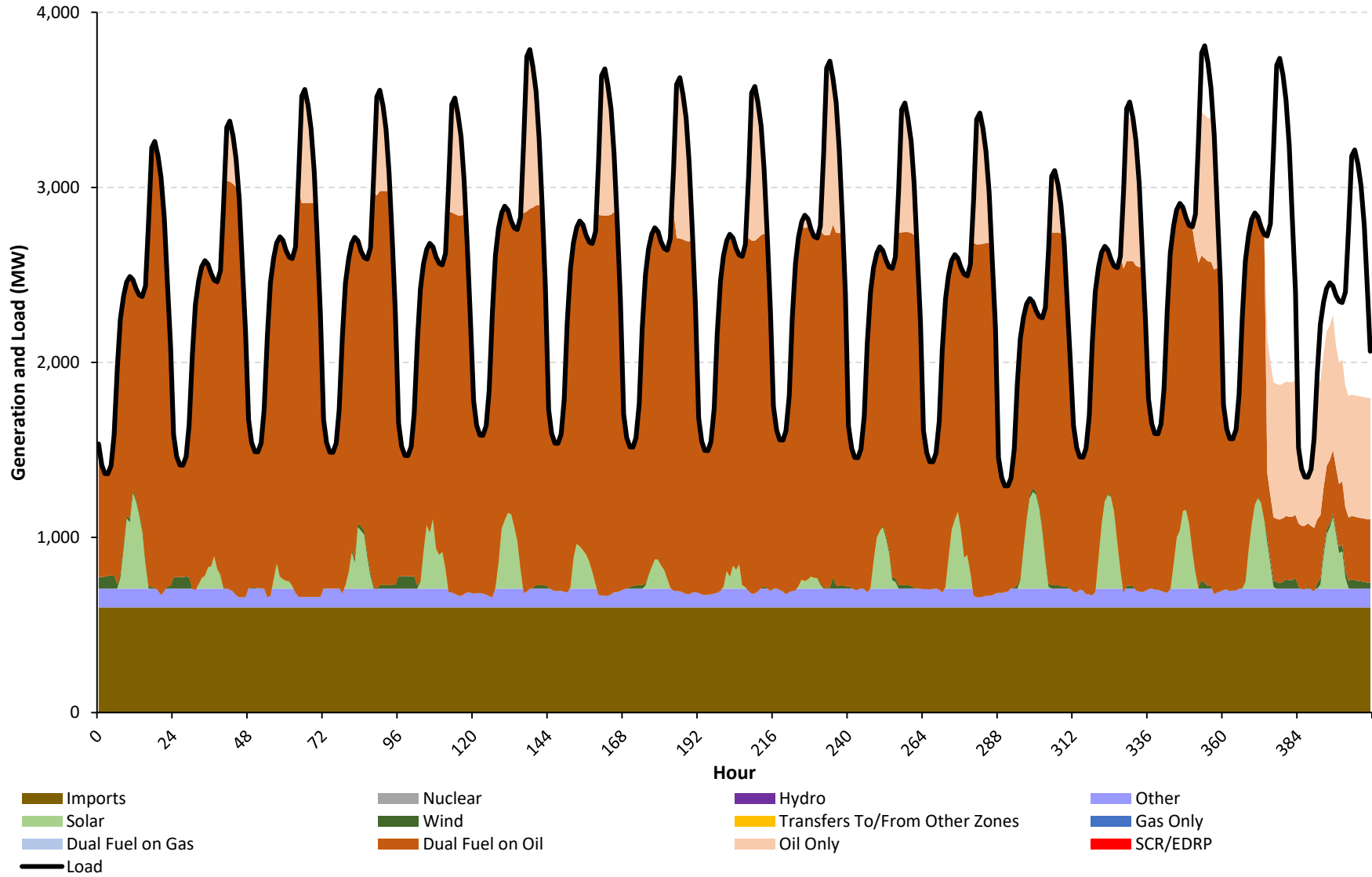
Zone J Hourly Generation (MW) by Fuel Group

Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

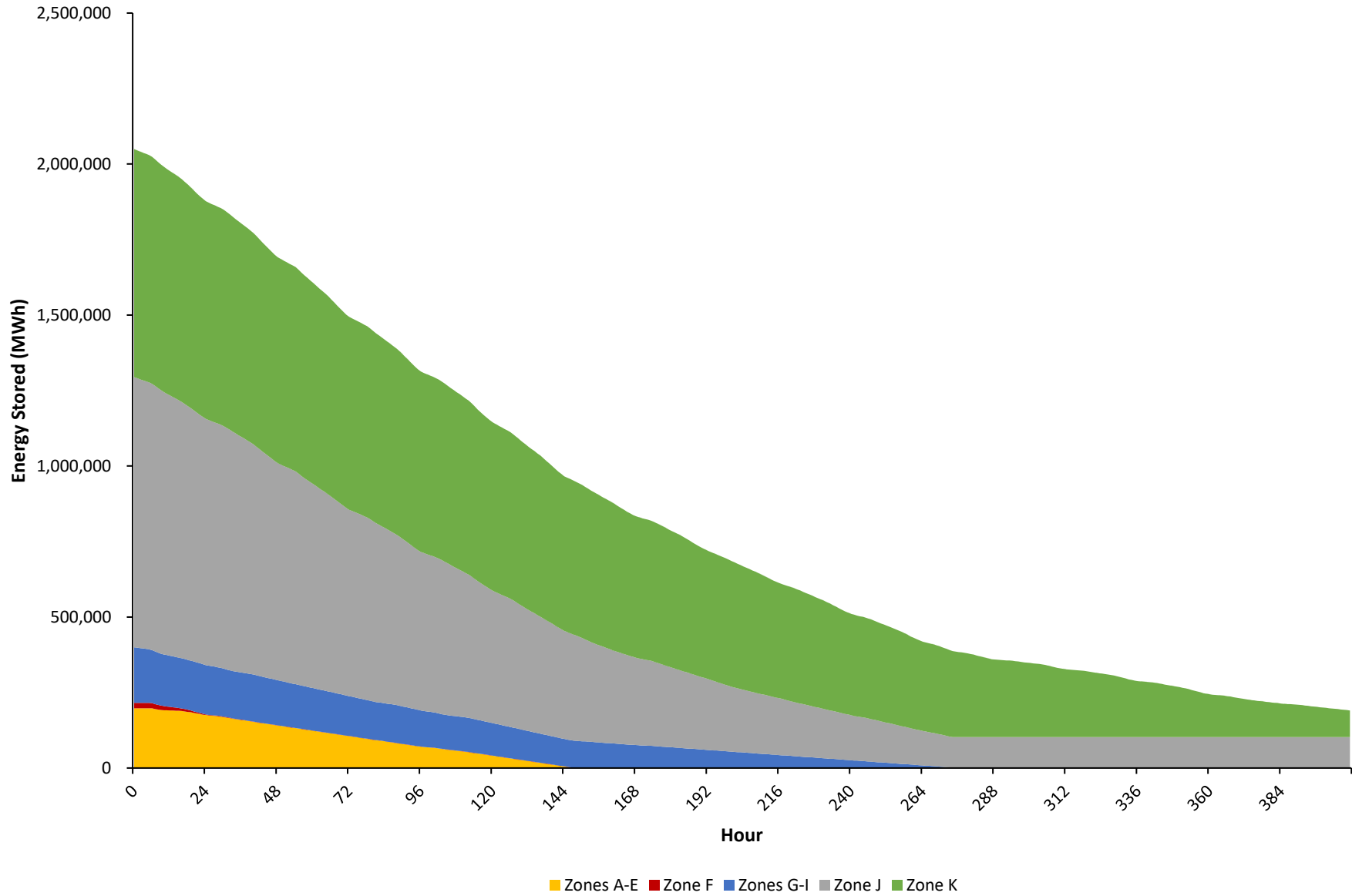


Zone K Hourly Generation (MW) by Fuel Group

Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

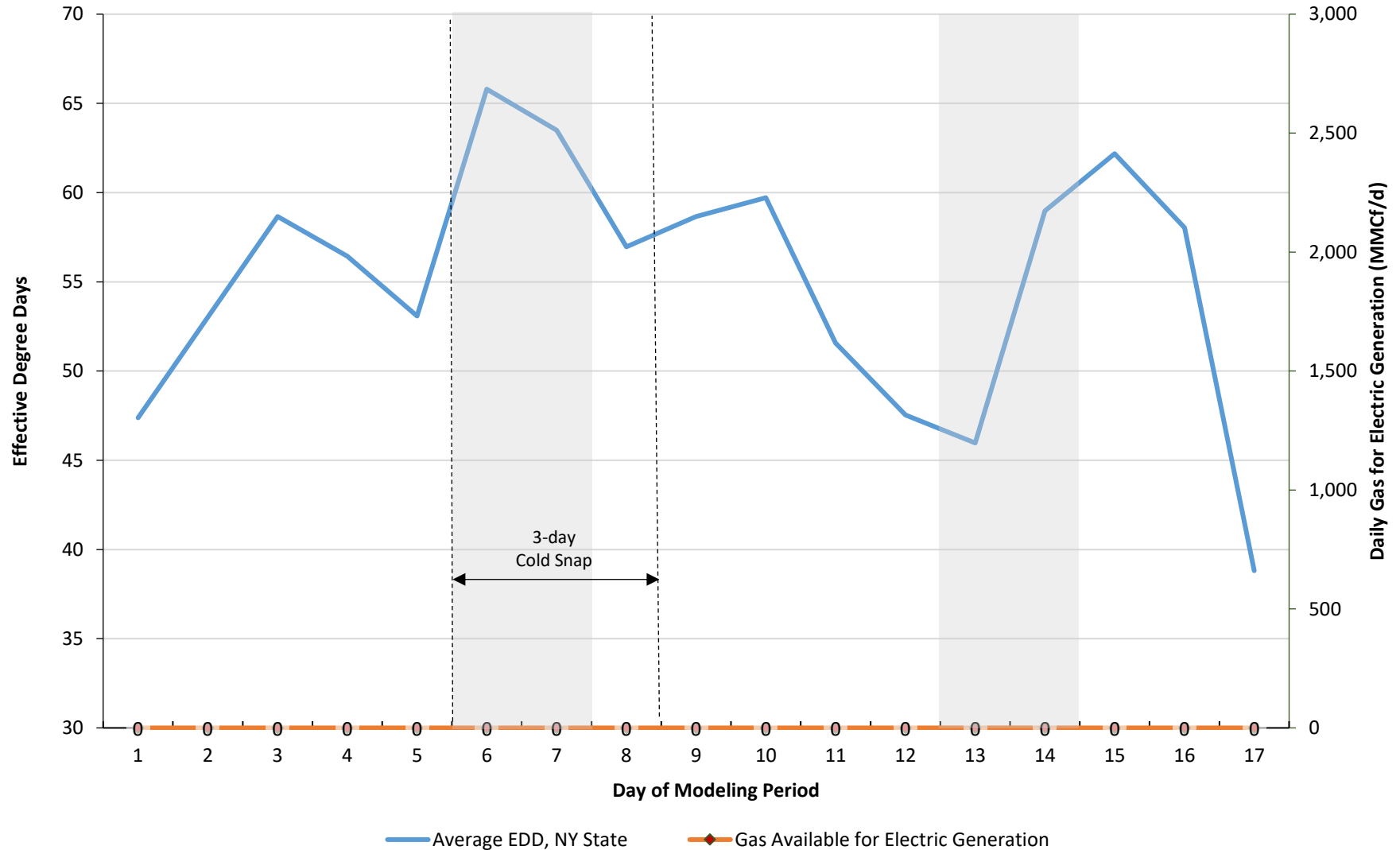


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



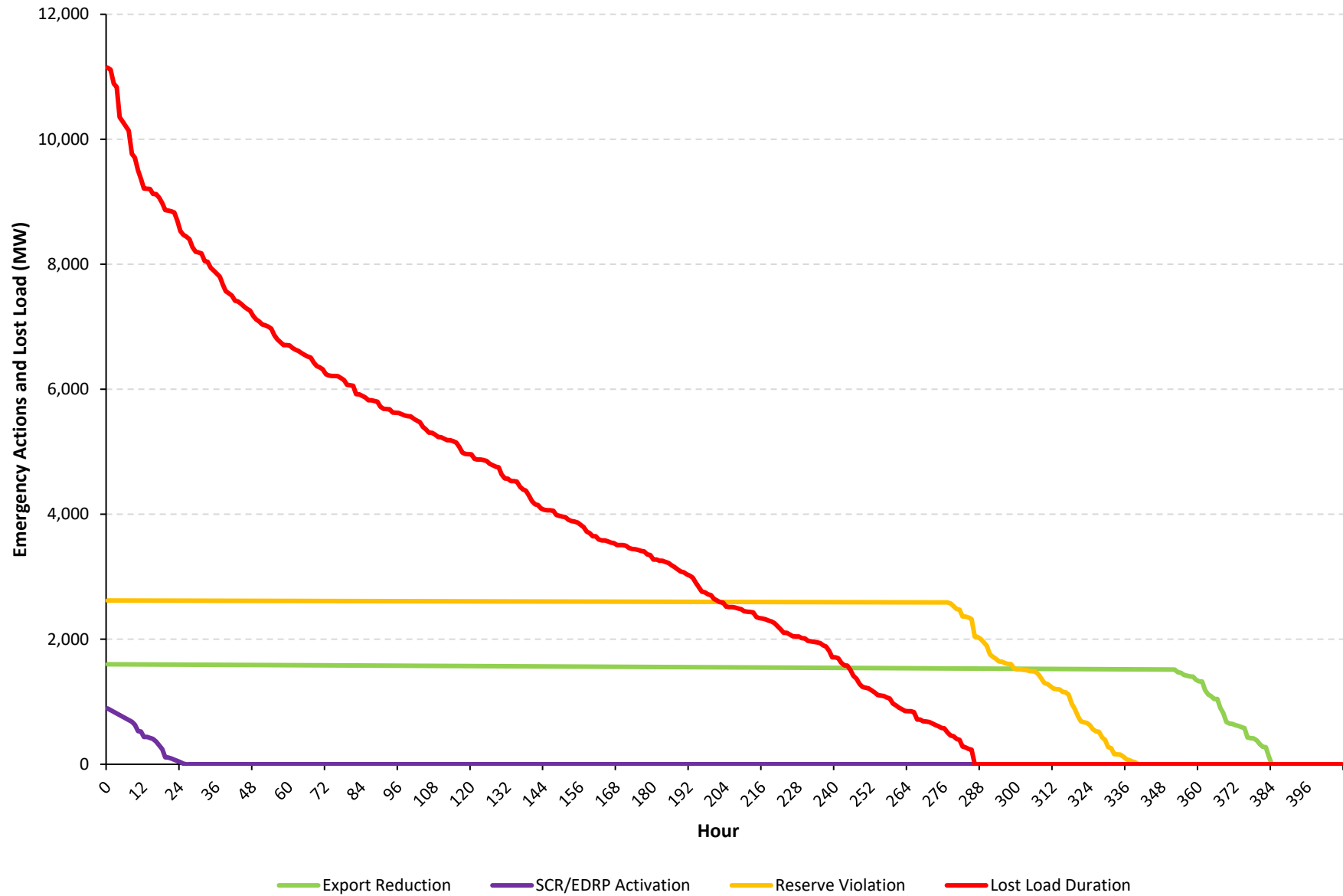
Notes:

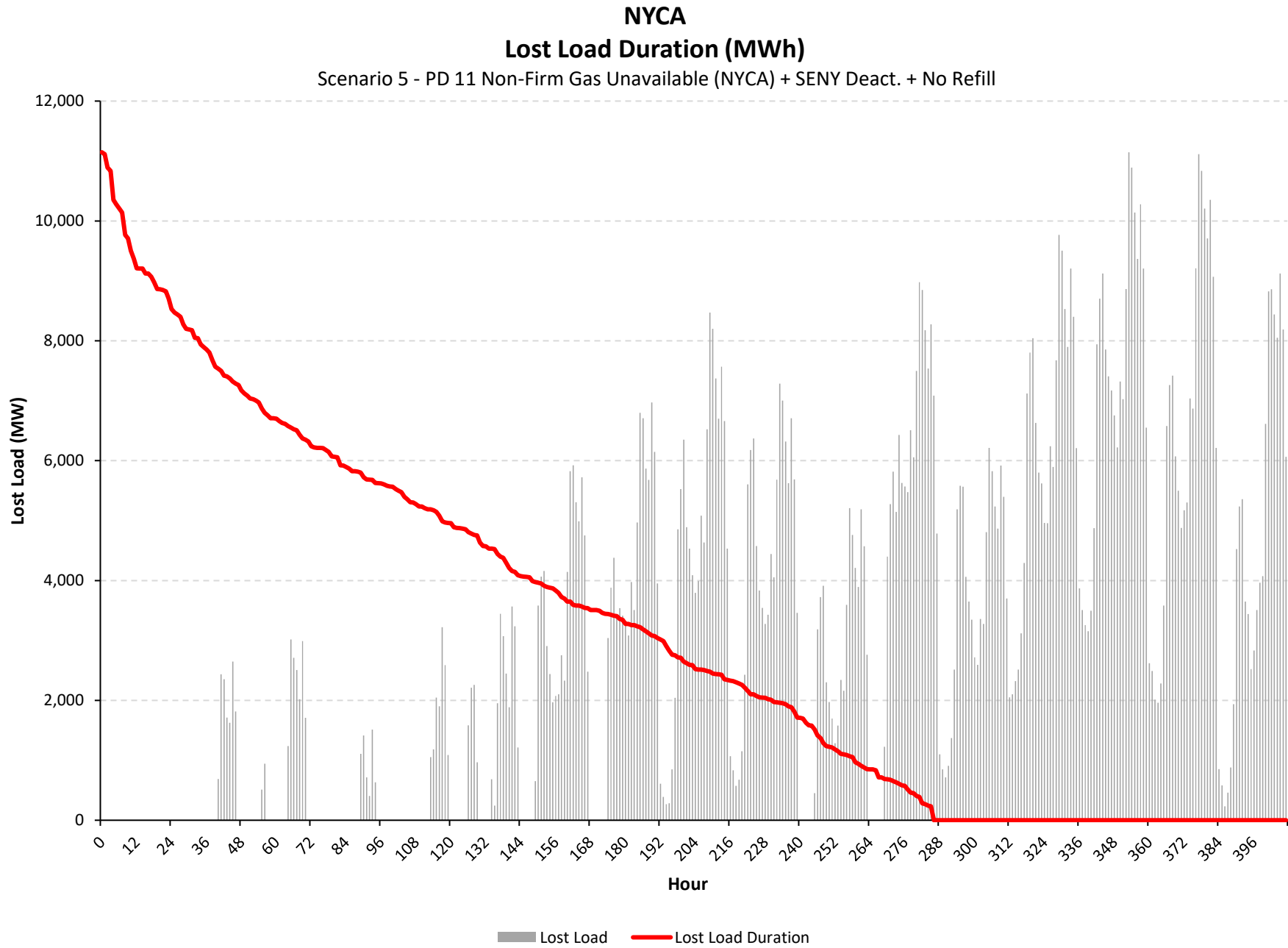
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA

Emergency Actions and Lost Load Duration (MWh)

Scenario 5 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill





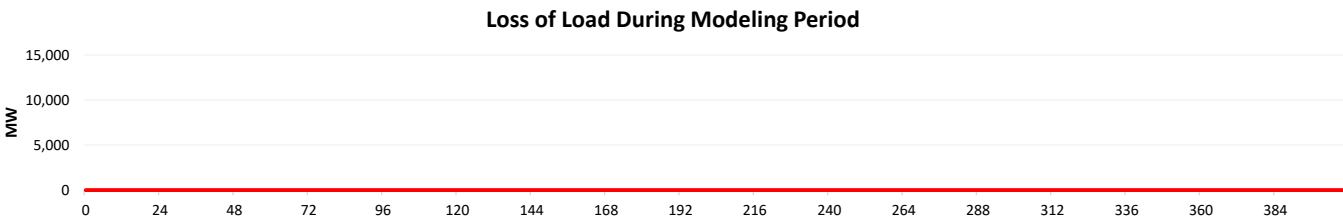
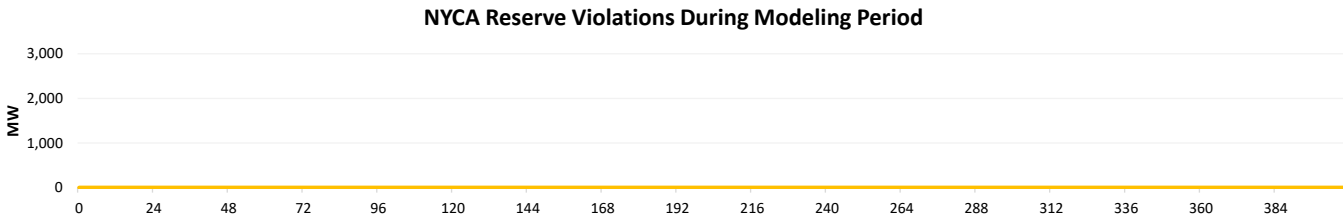
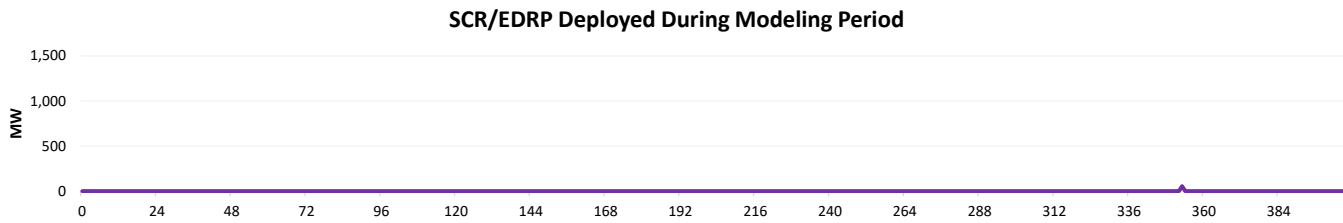
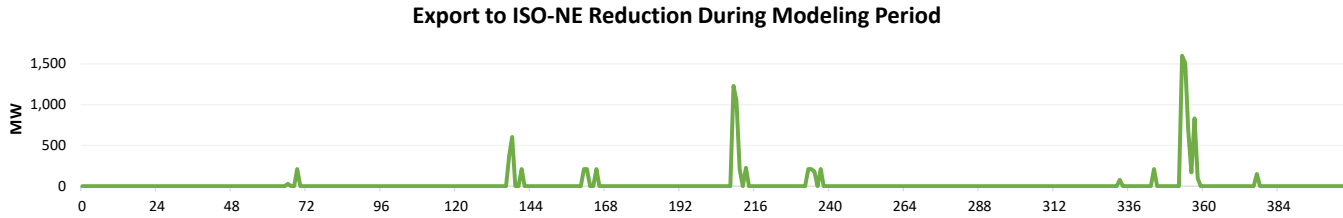
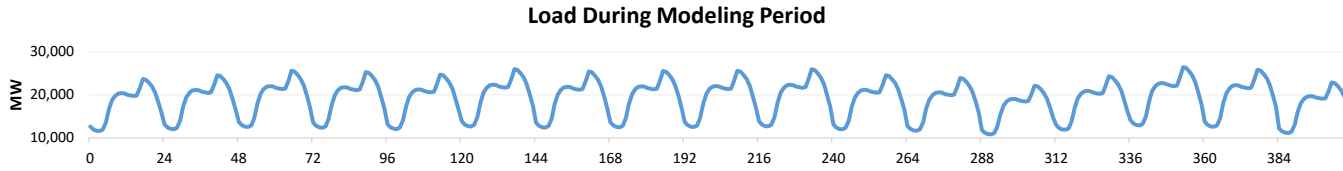
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 6 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	25
Total MWh	10,909
Avg. MW	26.7

SCR Deployment	
Total Hrs.	1
Total MWh	55
Avg. MW	0.1

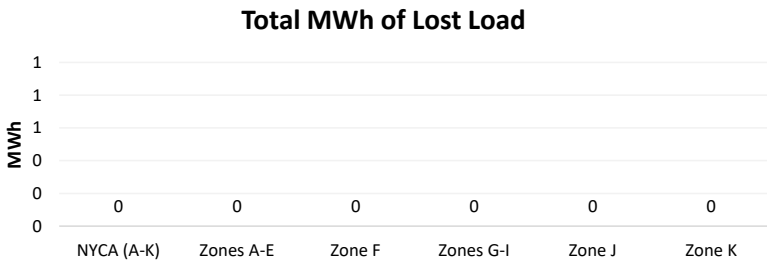
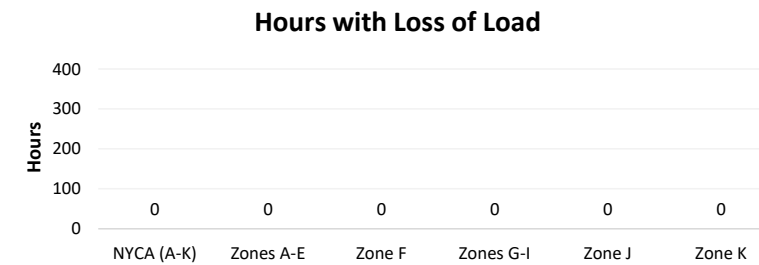
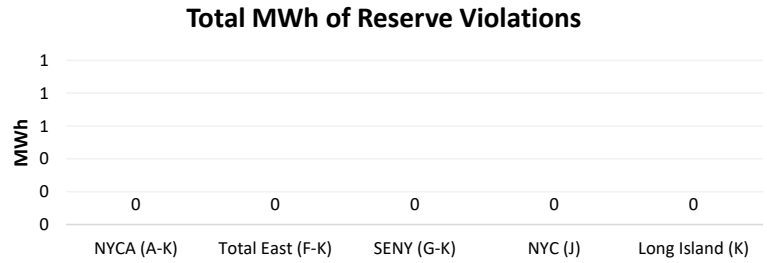
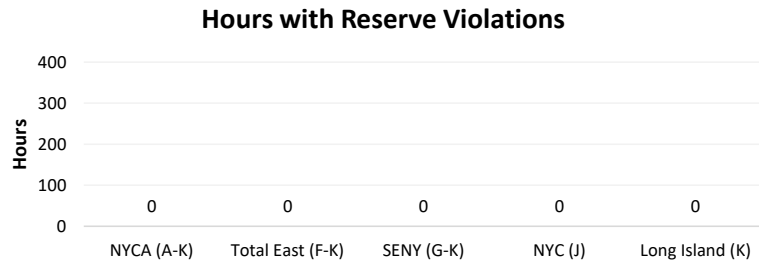
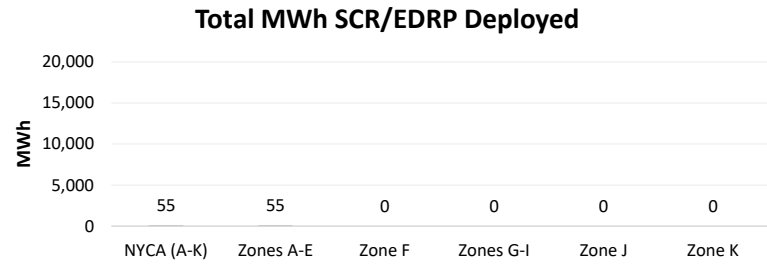
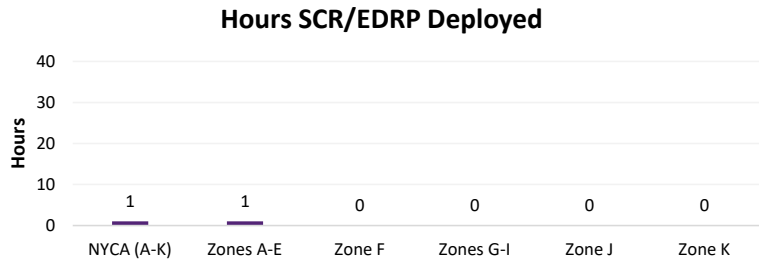
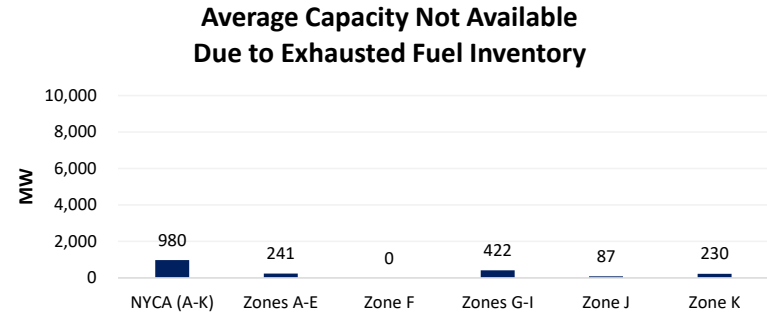
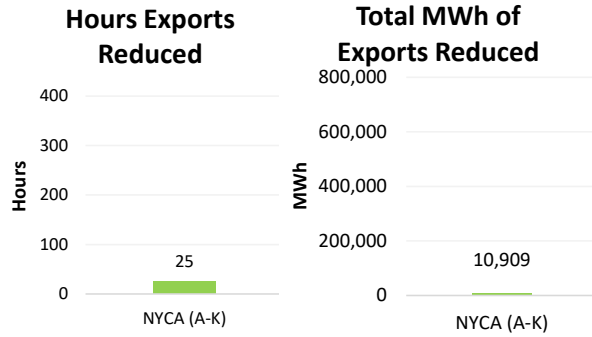
Reserve Violations	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Viol.	First Hour, Zone K

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	First Hour, Zone K

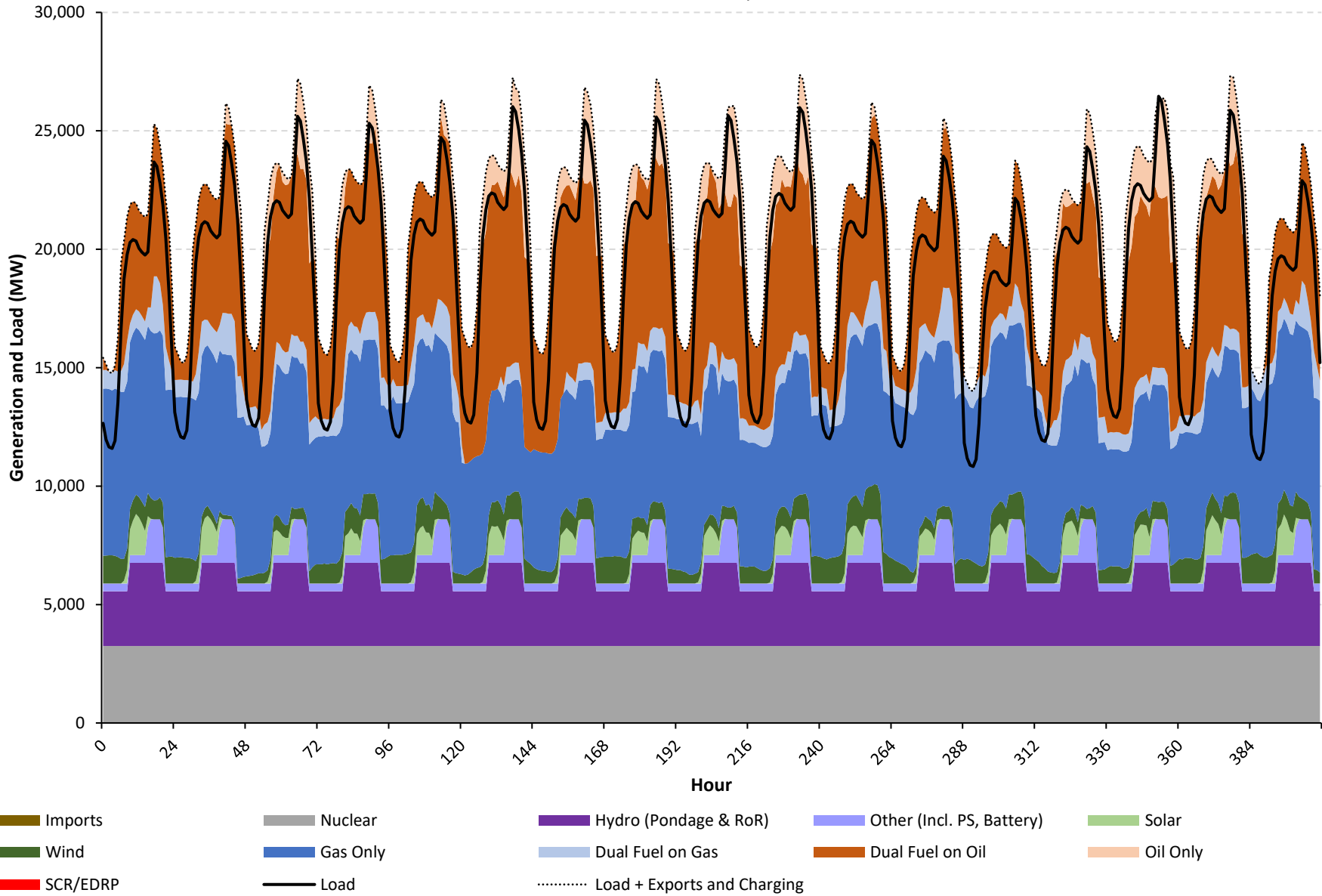
Full Period Results Summary

Case Name: Scenario 6 - PD 1 No Disruptions

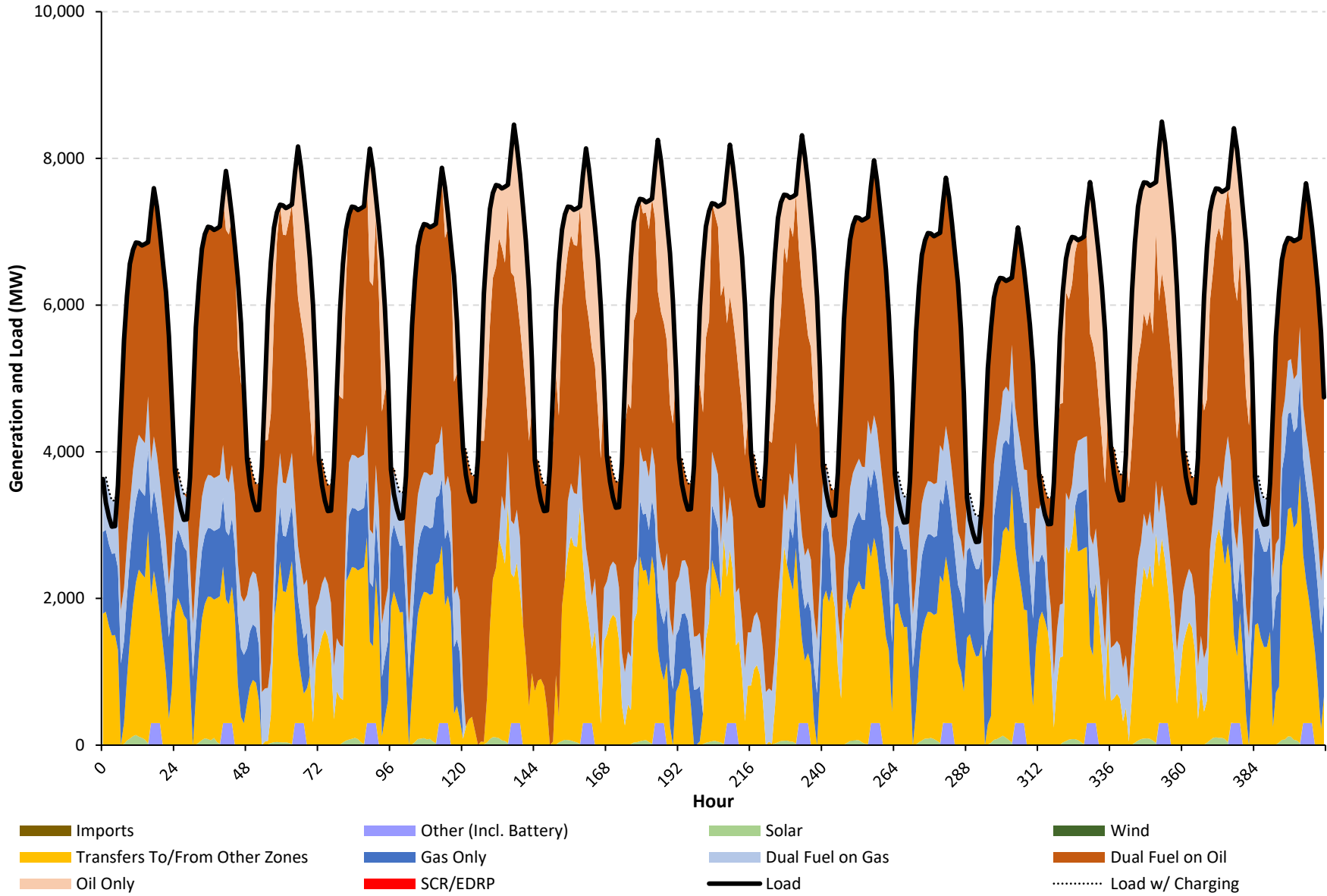
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



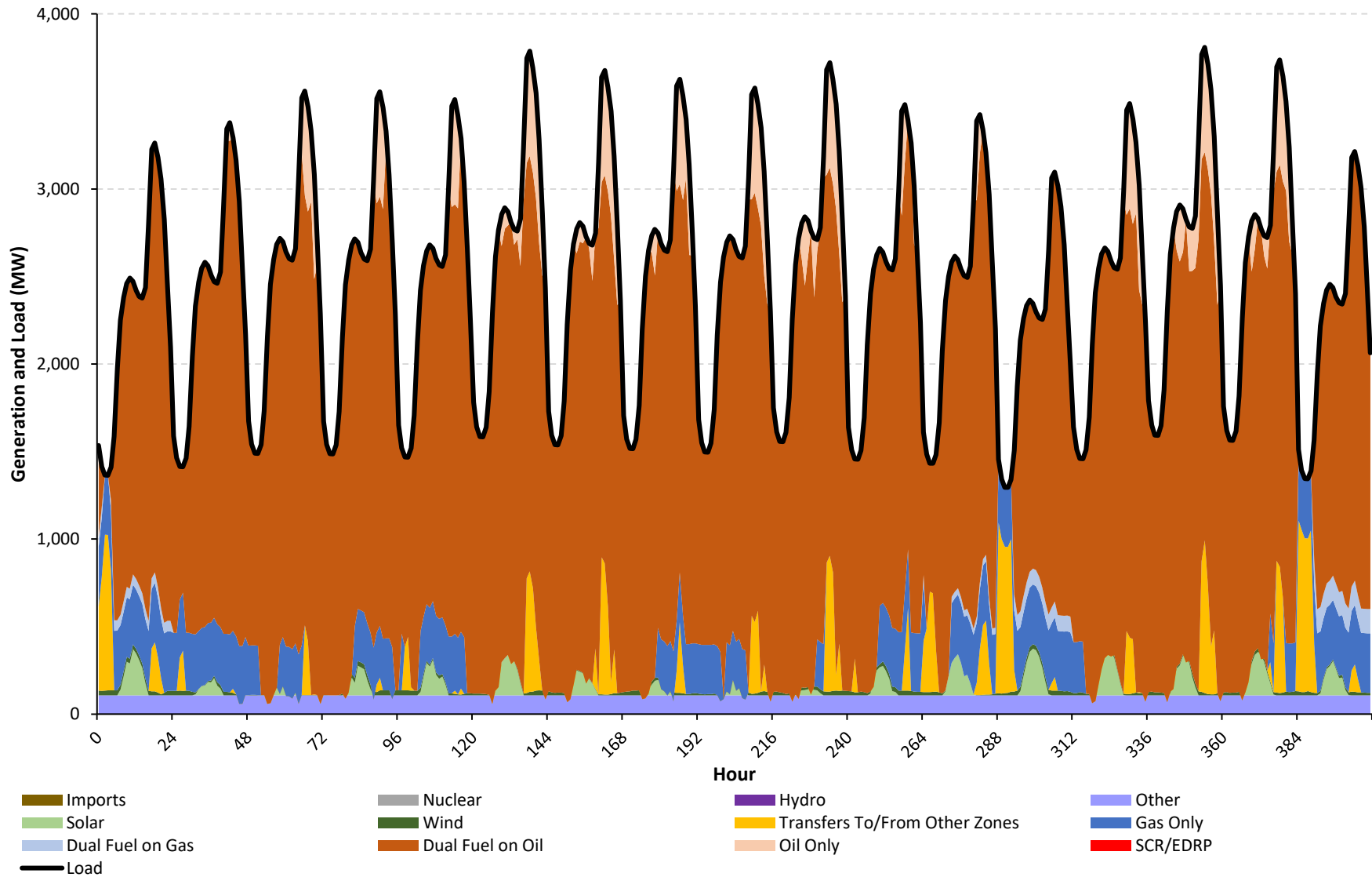
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 1 No Disruptions



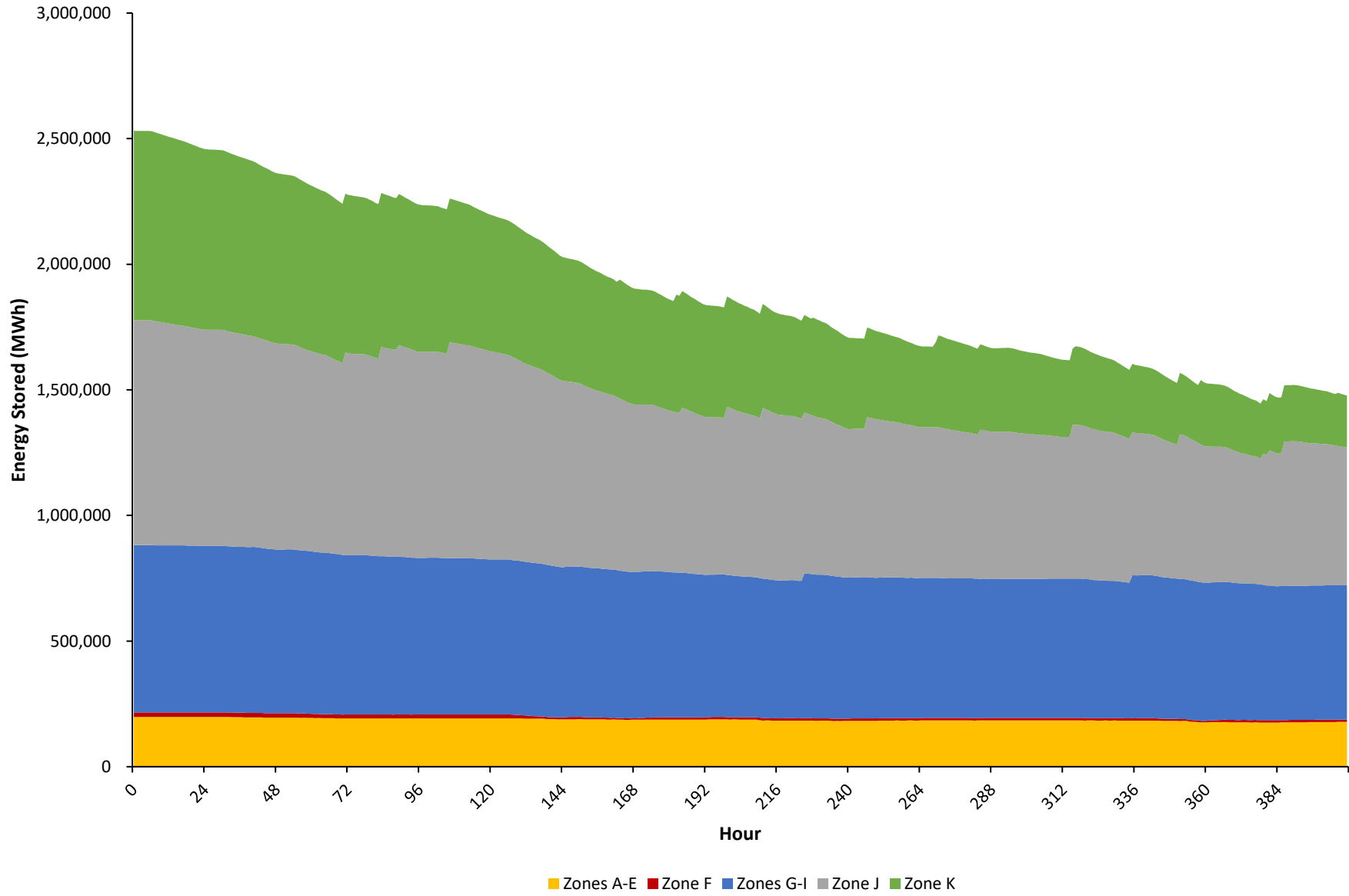
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 1 No Disruptions

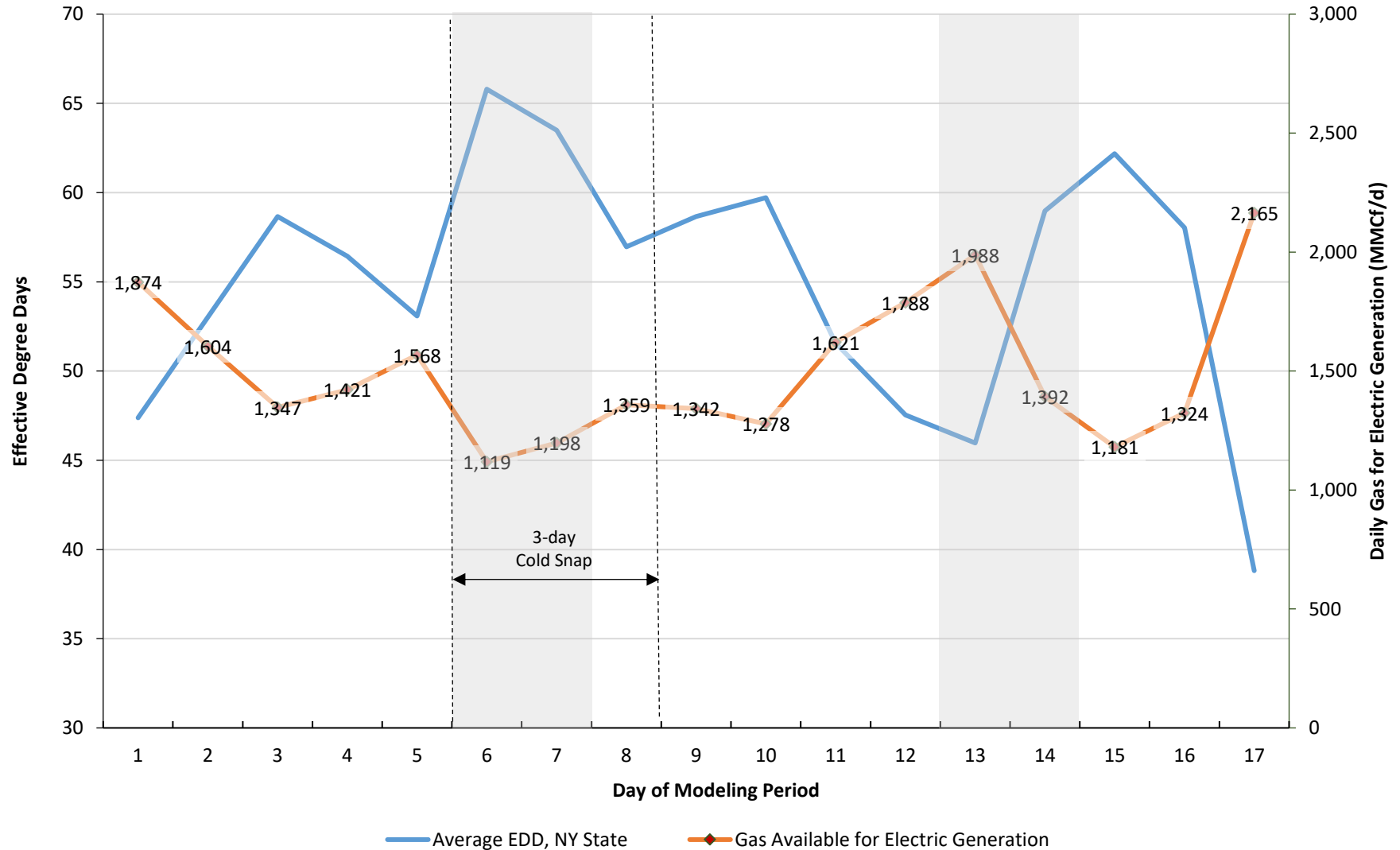


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

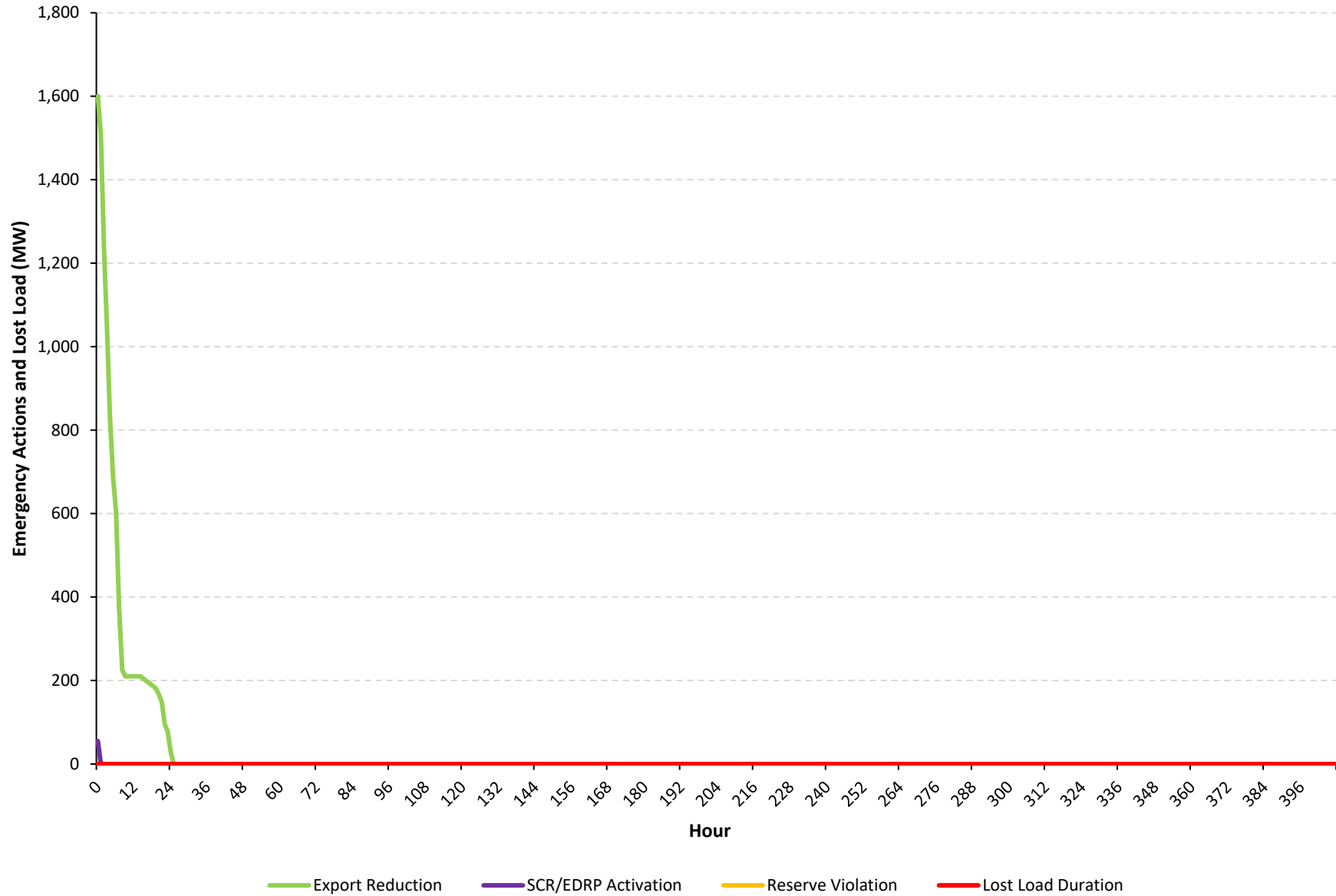
Scenario 6 - PD 1 No Disruptions



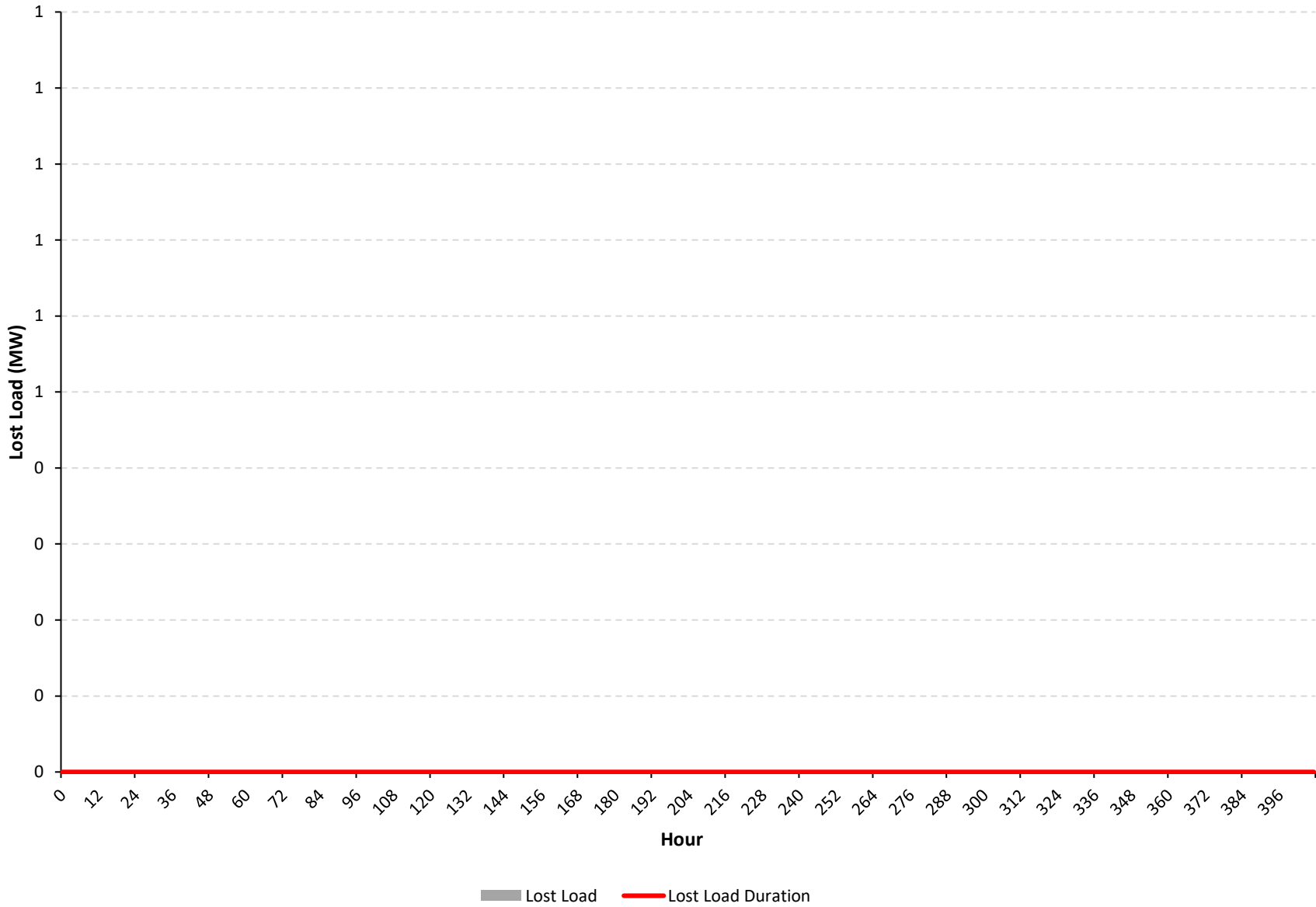
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 1 No Disruptions



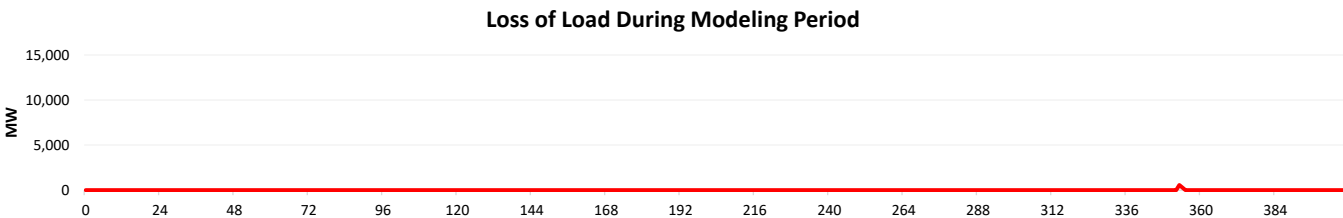
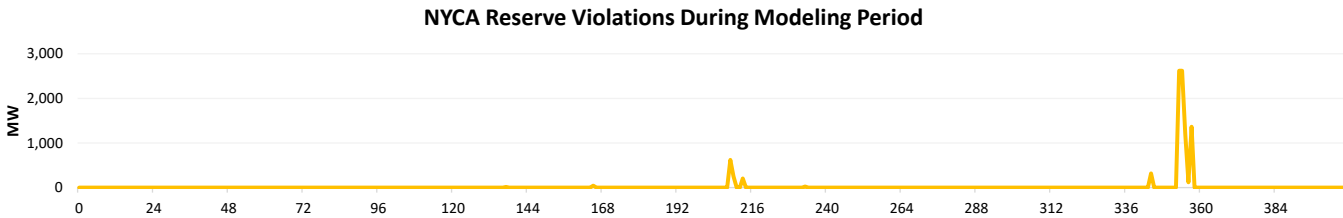
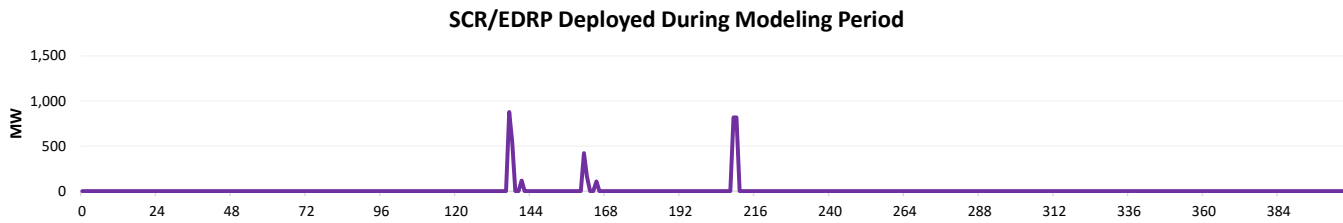
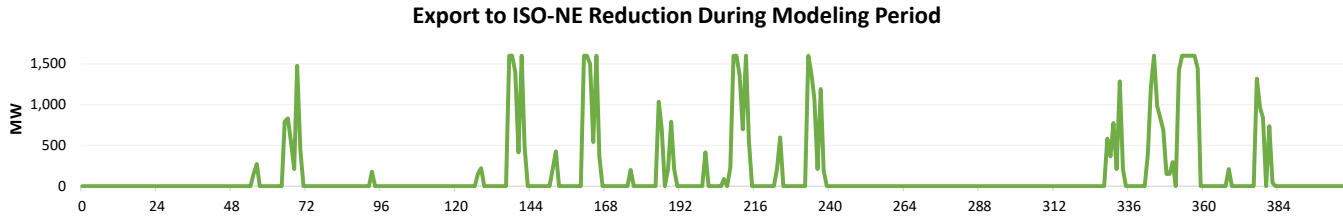
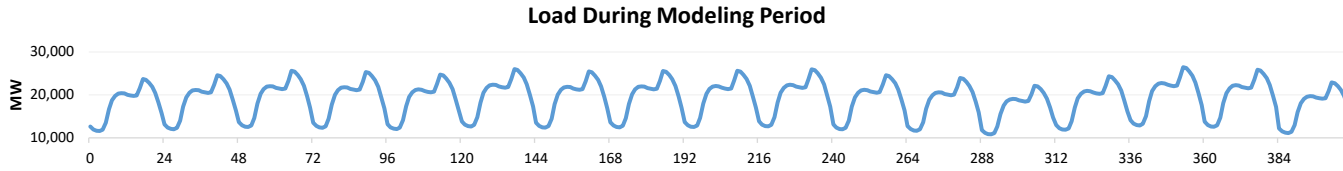
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 6 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	76
Total MWh	62,663
Avg. MW	153.6

SCR Deployment	
Total Hrs.	8
Total MWh	3,874
Avg. MW	9.5

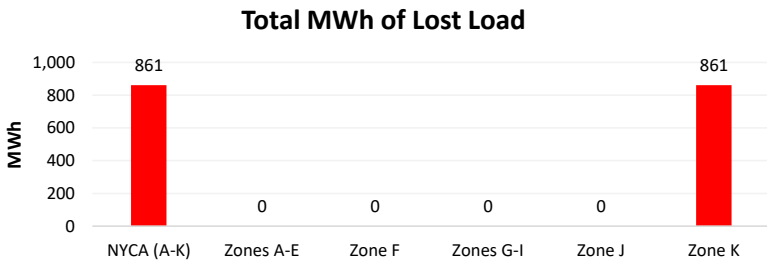
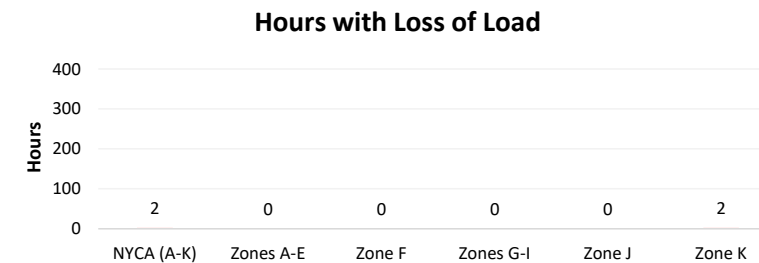
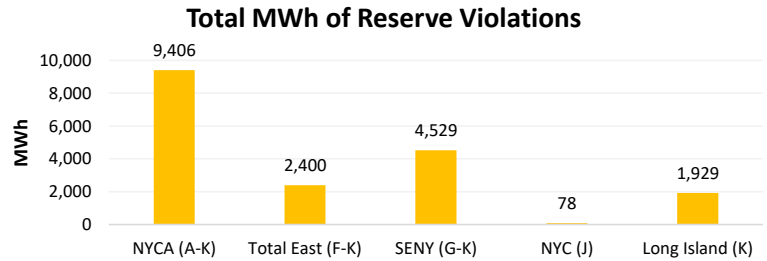
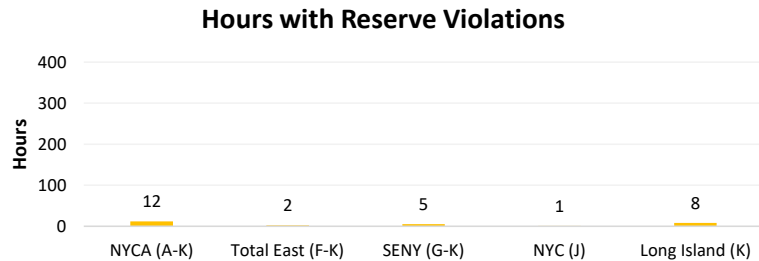
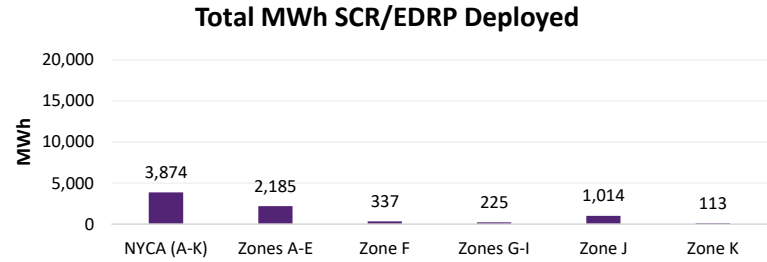
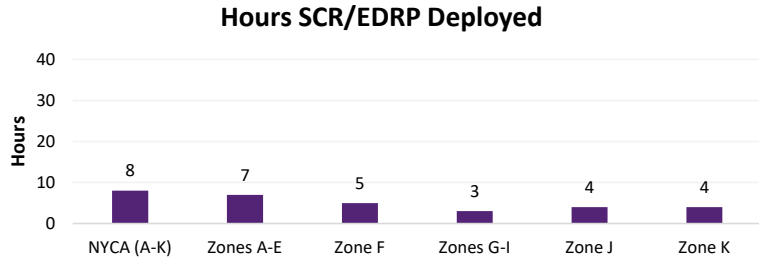
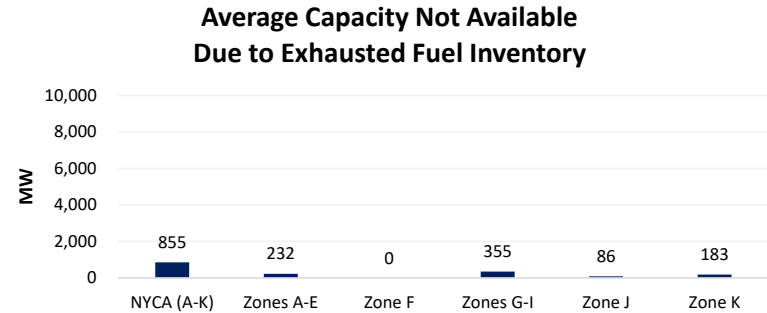
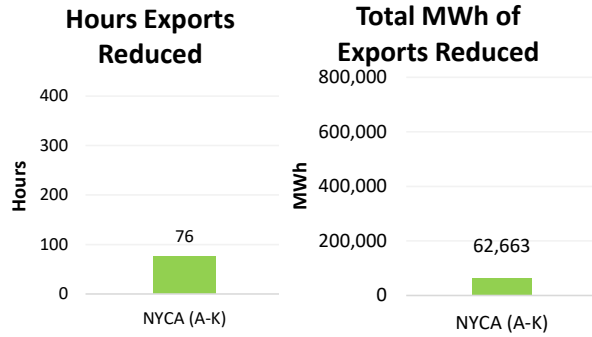
Reserve Violations	
Total Hrs.	12
Total MWh	9,406
Avg. MW	23.1
First Hour with Viol.	137
First Hour, Zone K	209

Loss of Load	
Total Hrs.	2
Total MWh	861
Avg. MW	2.1
First Hour with Losses	353
First Hour, Zone K	353

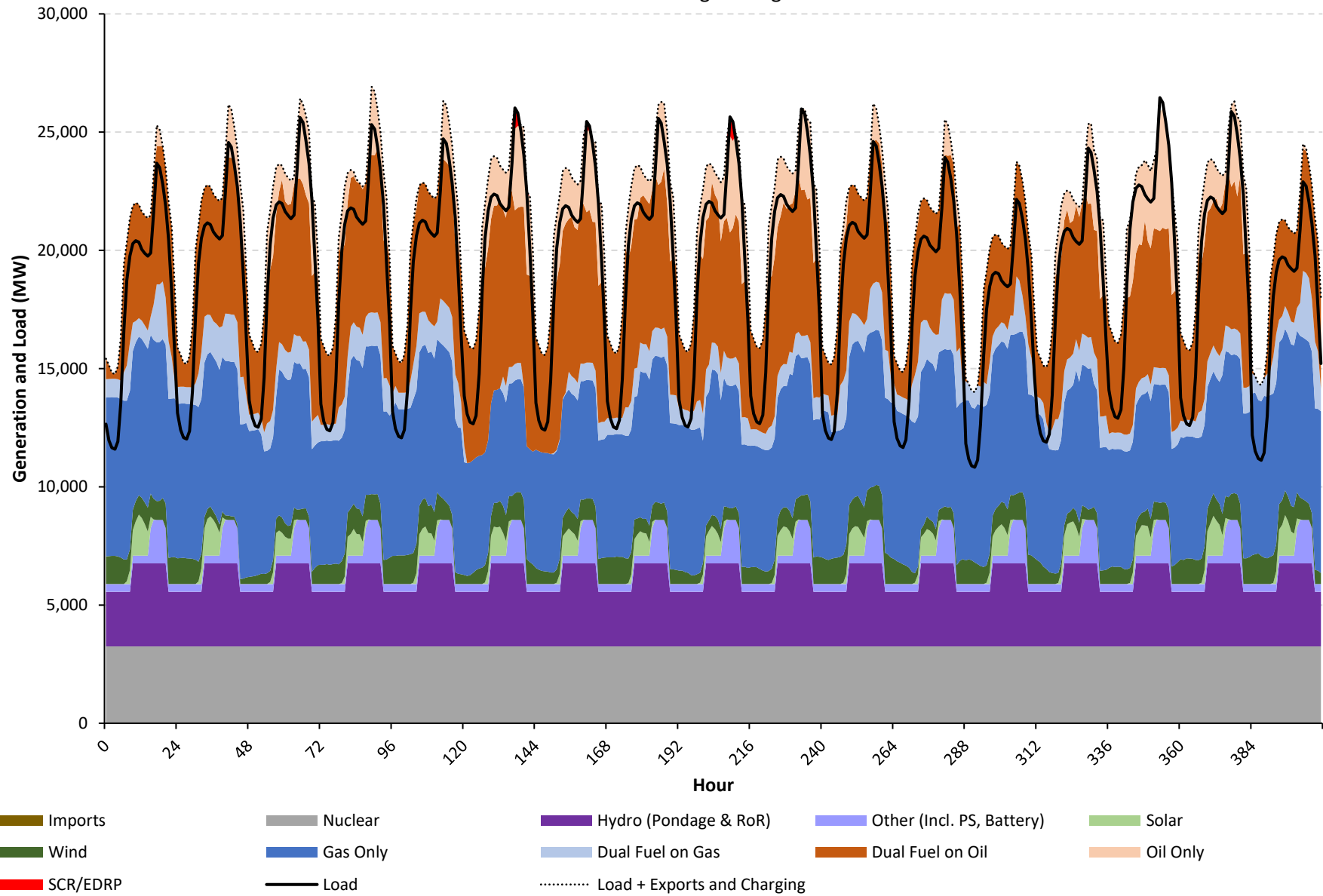
Full Period Results Summary

Case Name: Scenario 6 - PD 2 High Outage

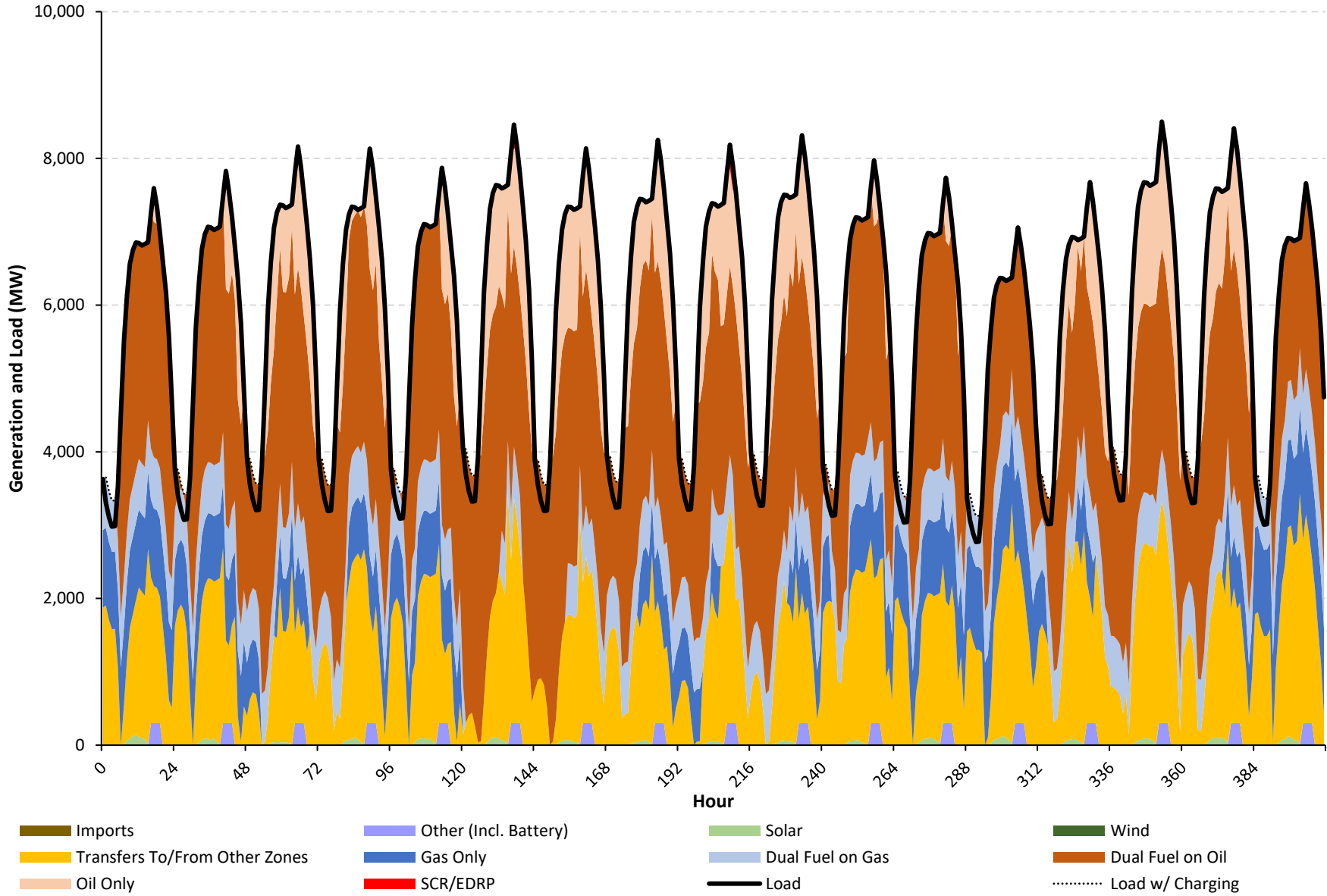
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



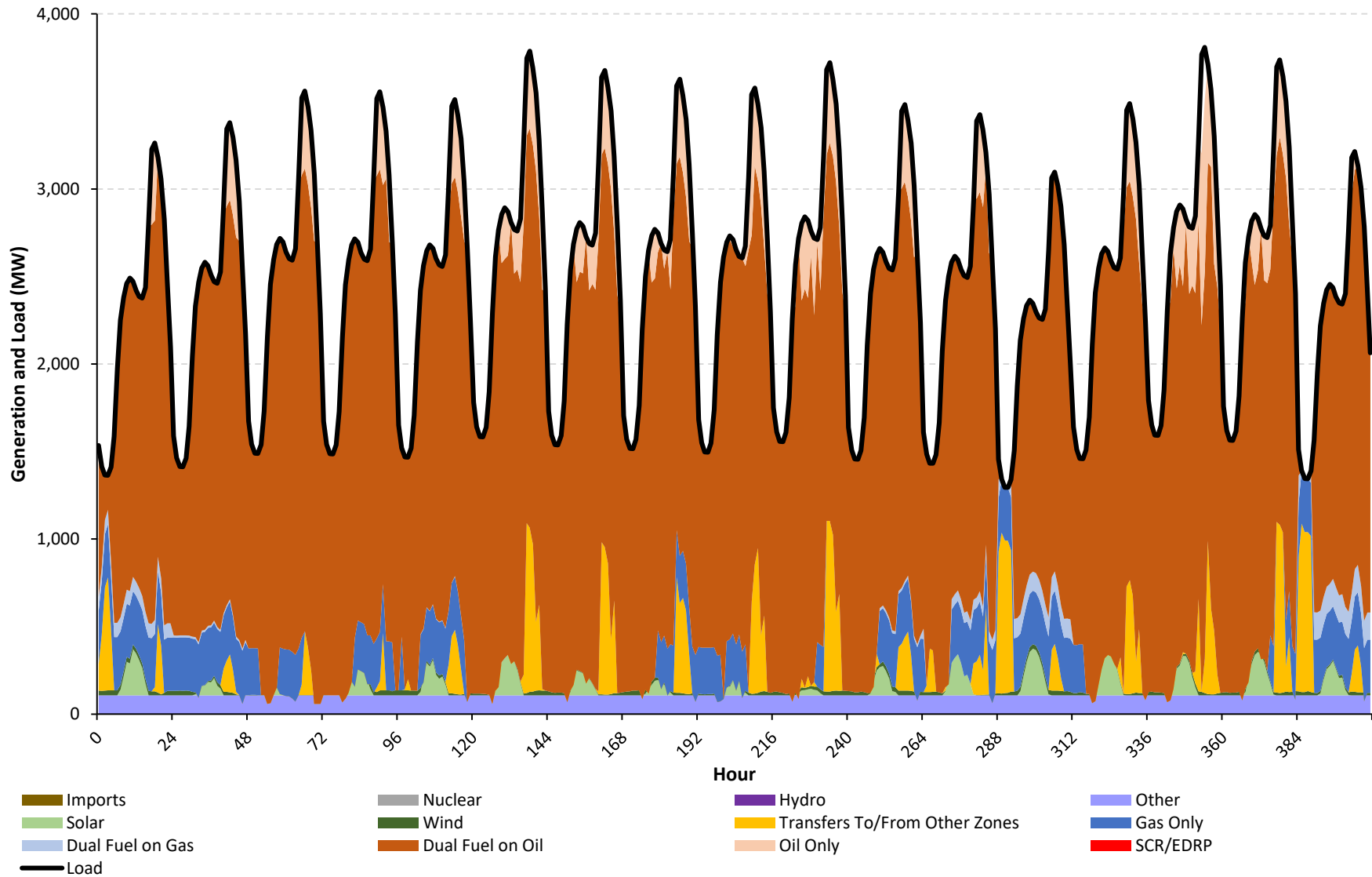
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 2 High Outage



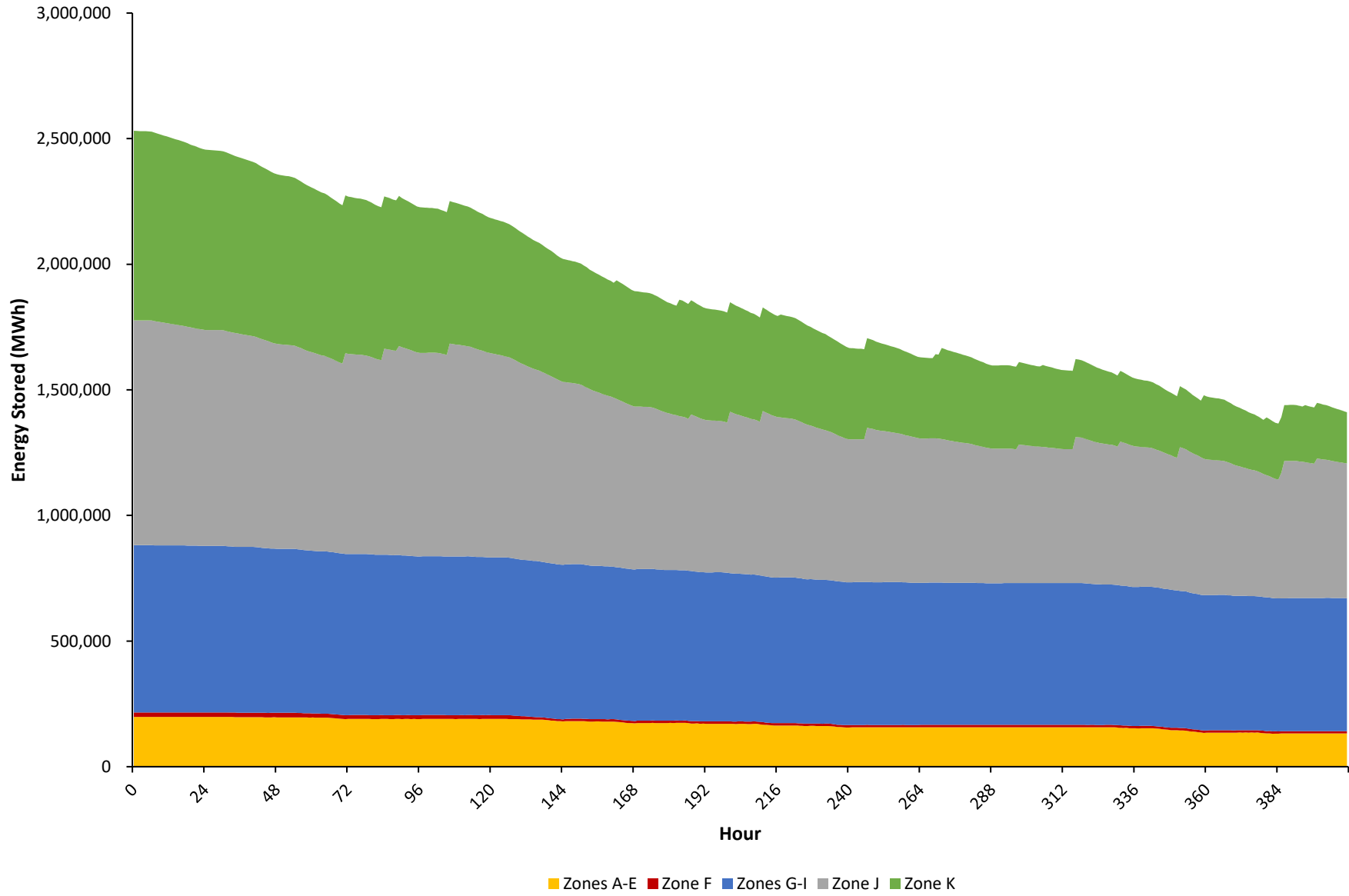
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 2 High Outage

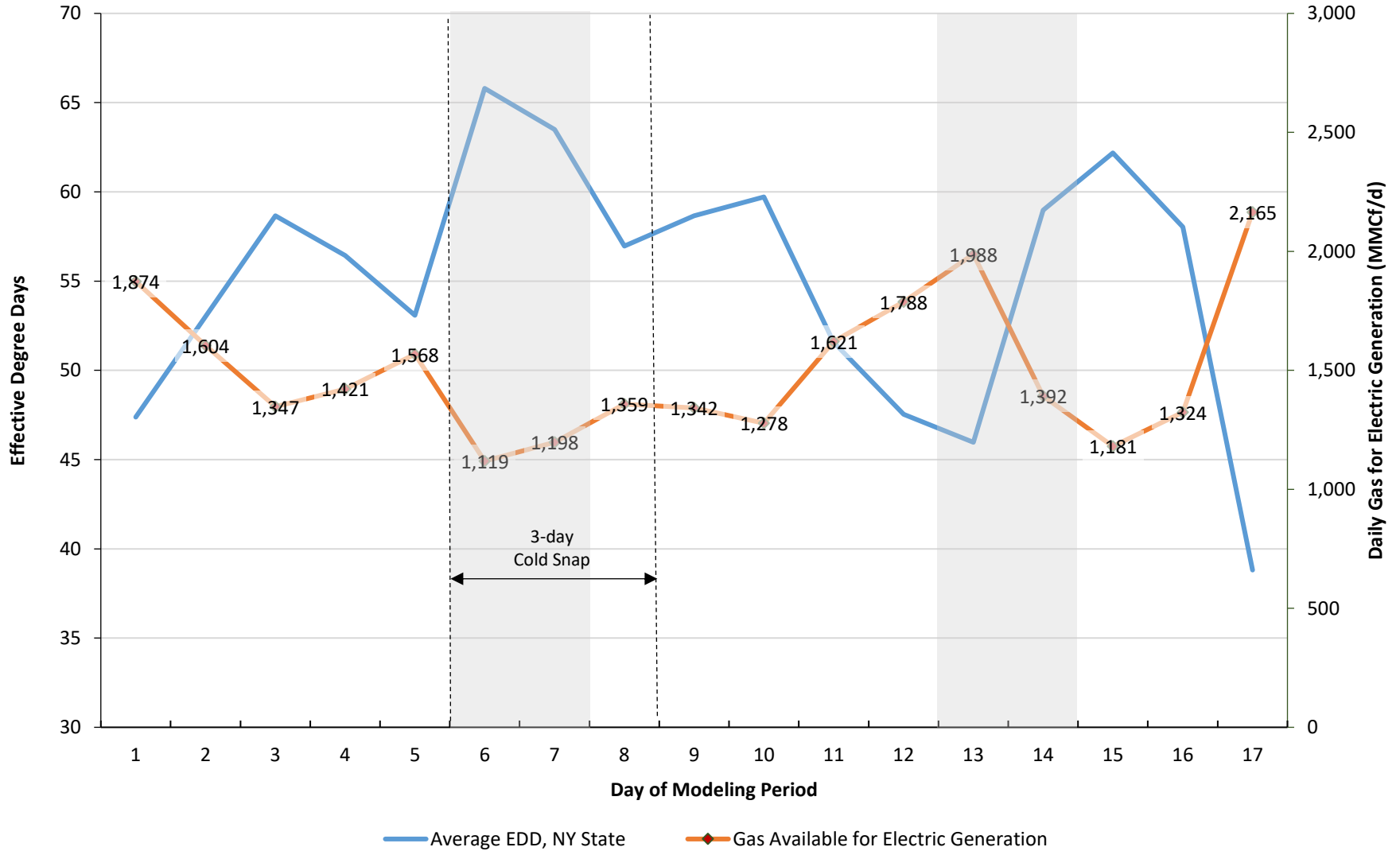


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

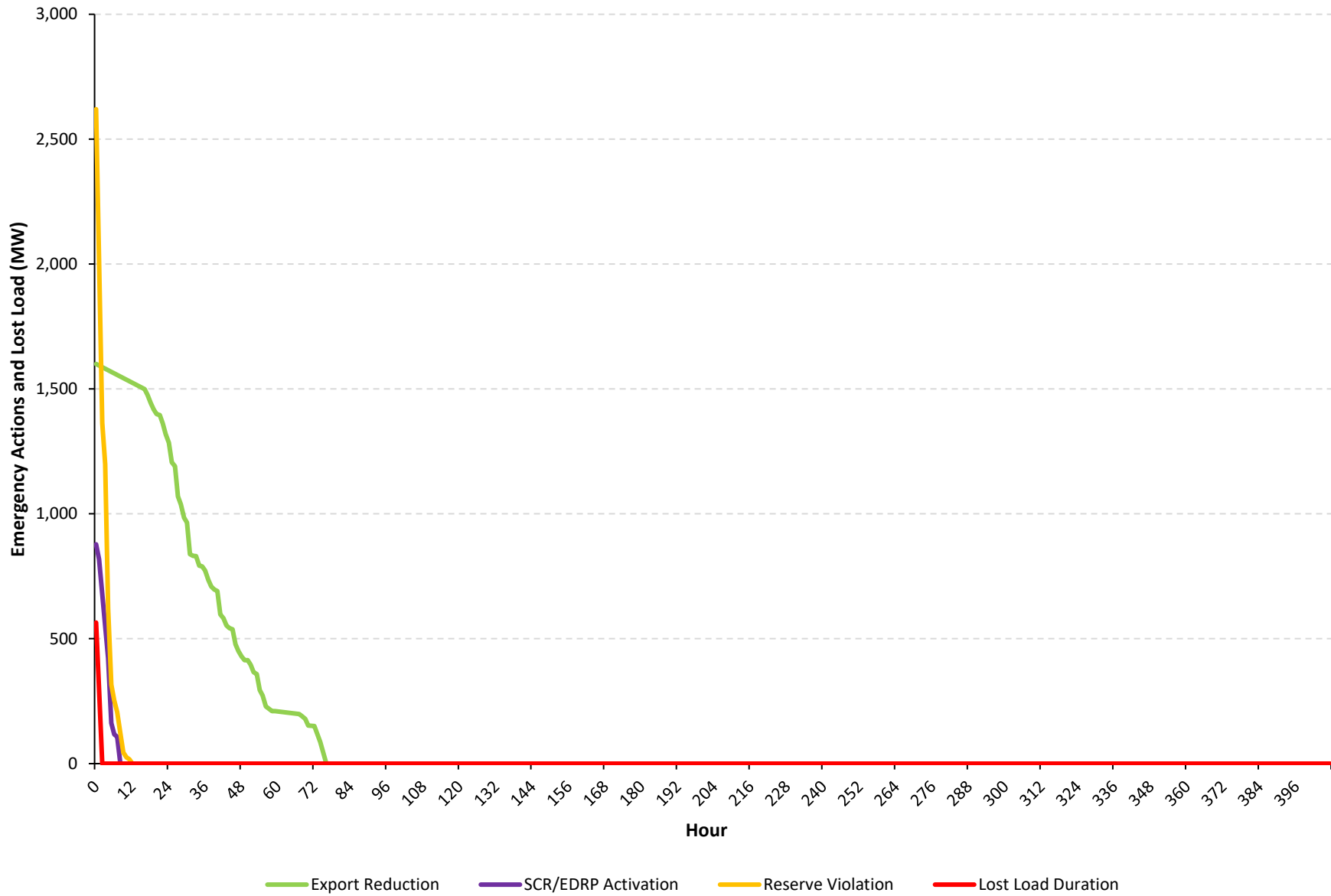
Scenario 6 - PD 2 High Outage



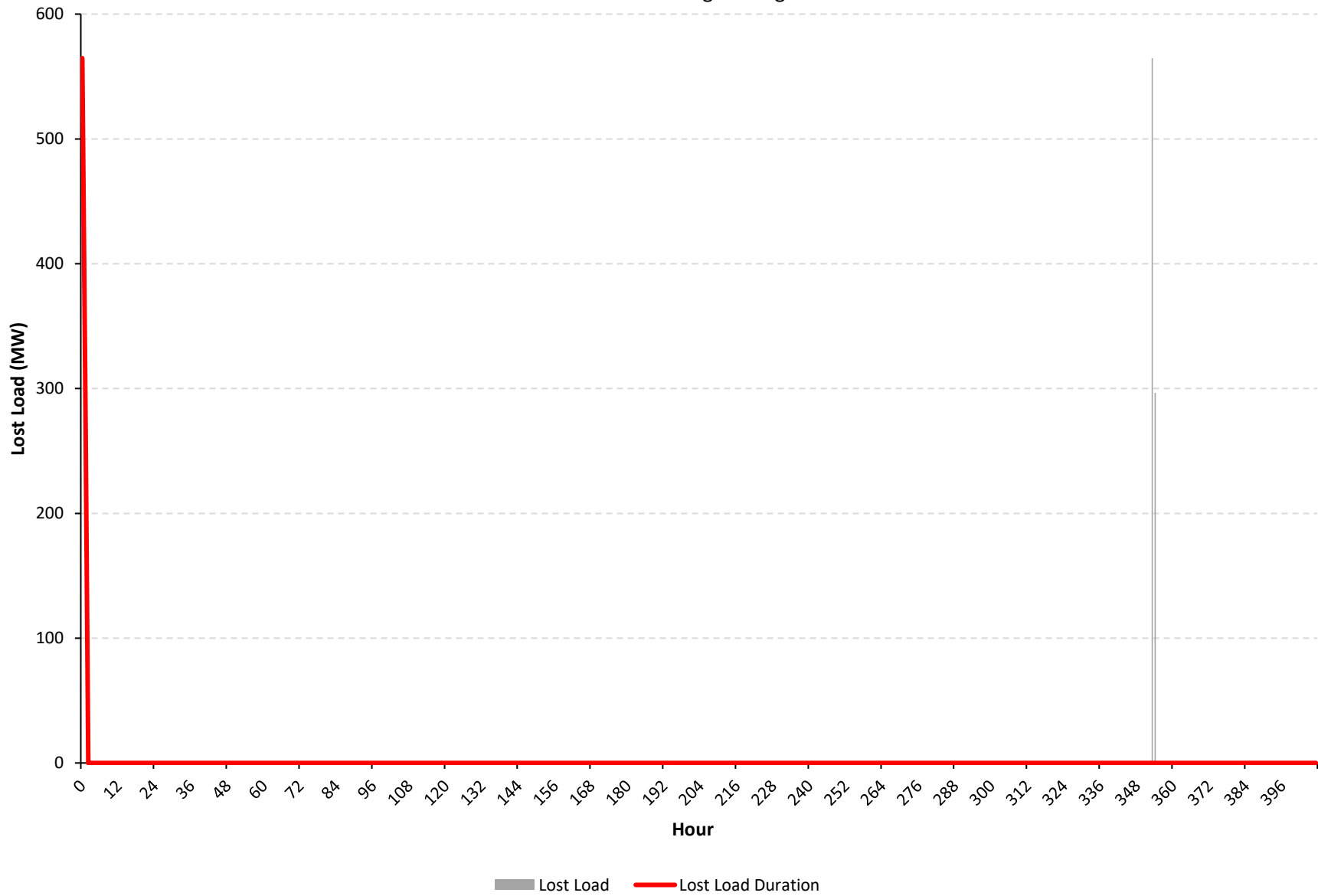
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 2 High Outage



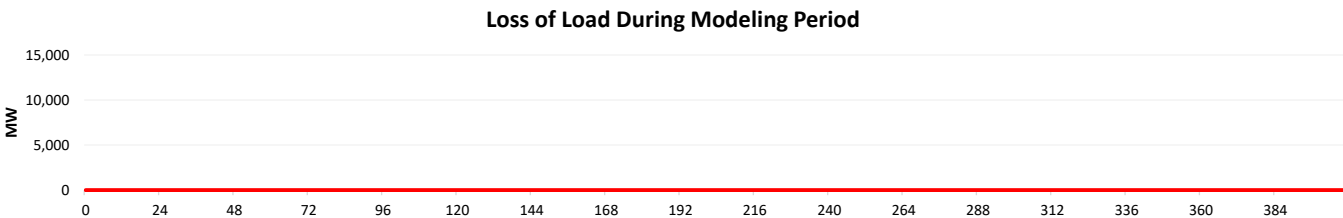
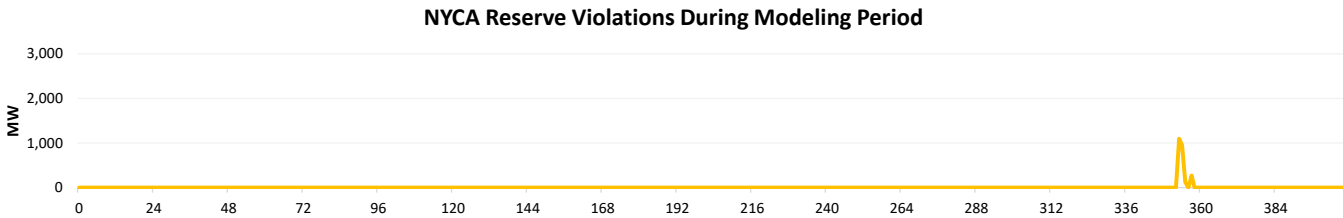
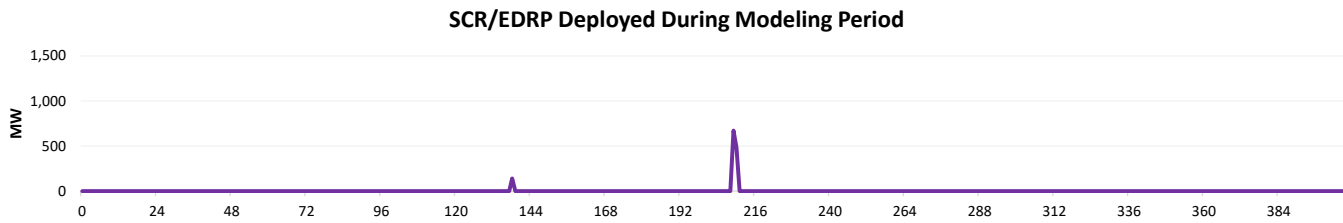
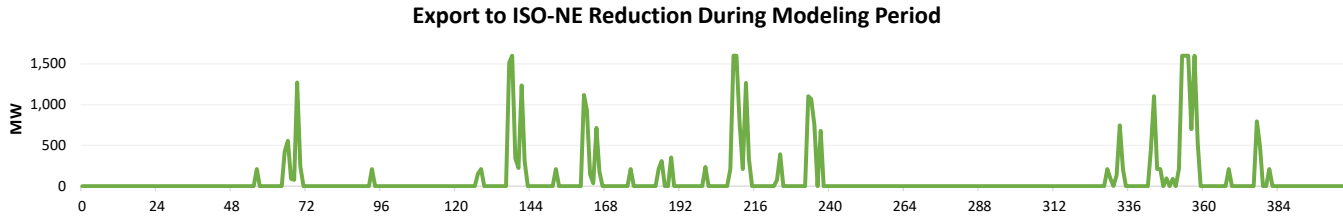
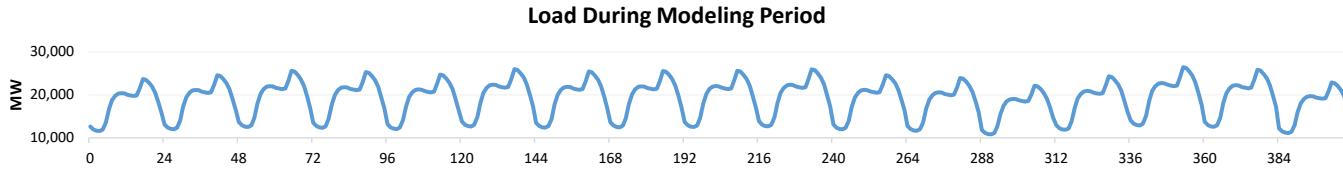
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 6 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	64
Total MWh	36,458
Avg. MW	89.4

SCR Deployment	
Total Hrs.	3
Total MWh	1,298
Avg. MW	3.2

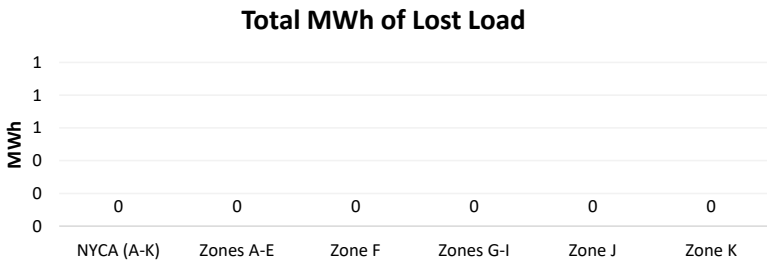
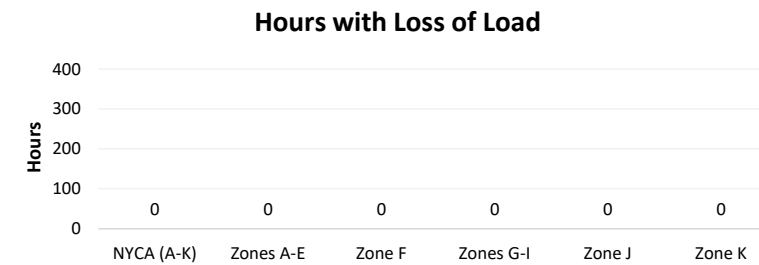
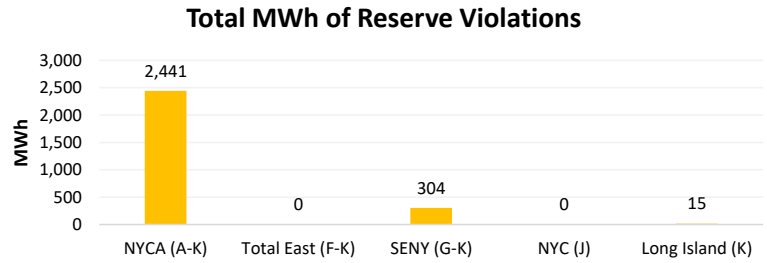
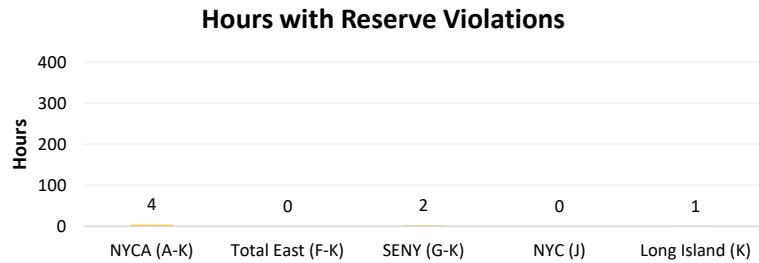
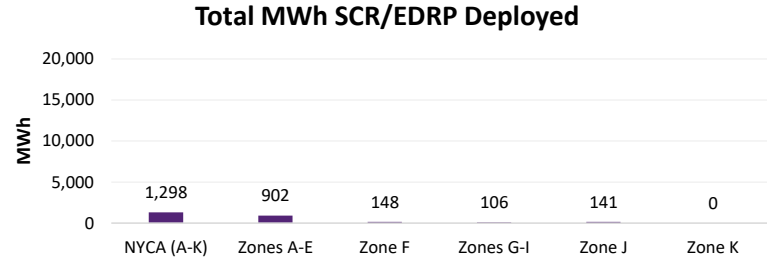
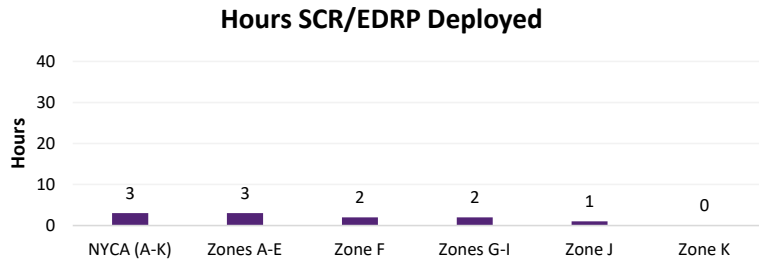
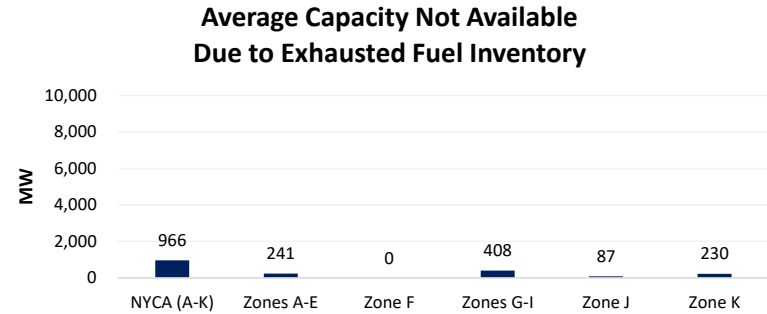
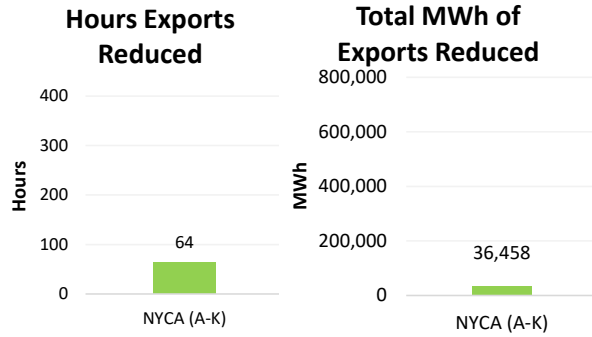
Reserve Violations	
Total Hrs.	4
Total MWh	2,441
Avg. MW	6.0
First Hour with Viol.	353
First Hour, Zone K	353

Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

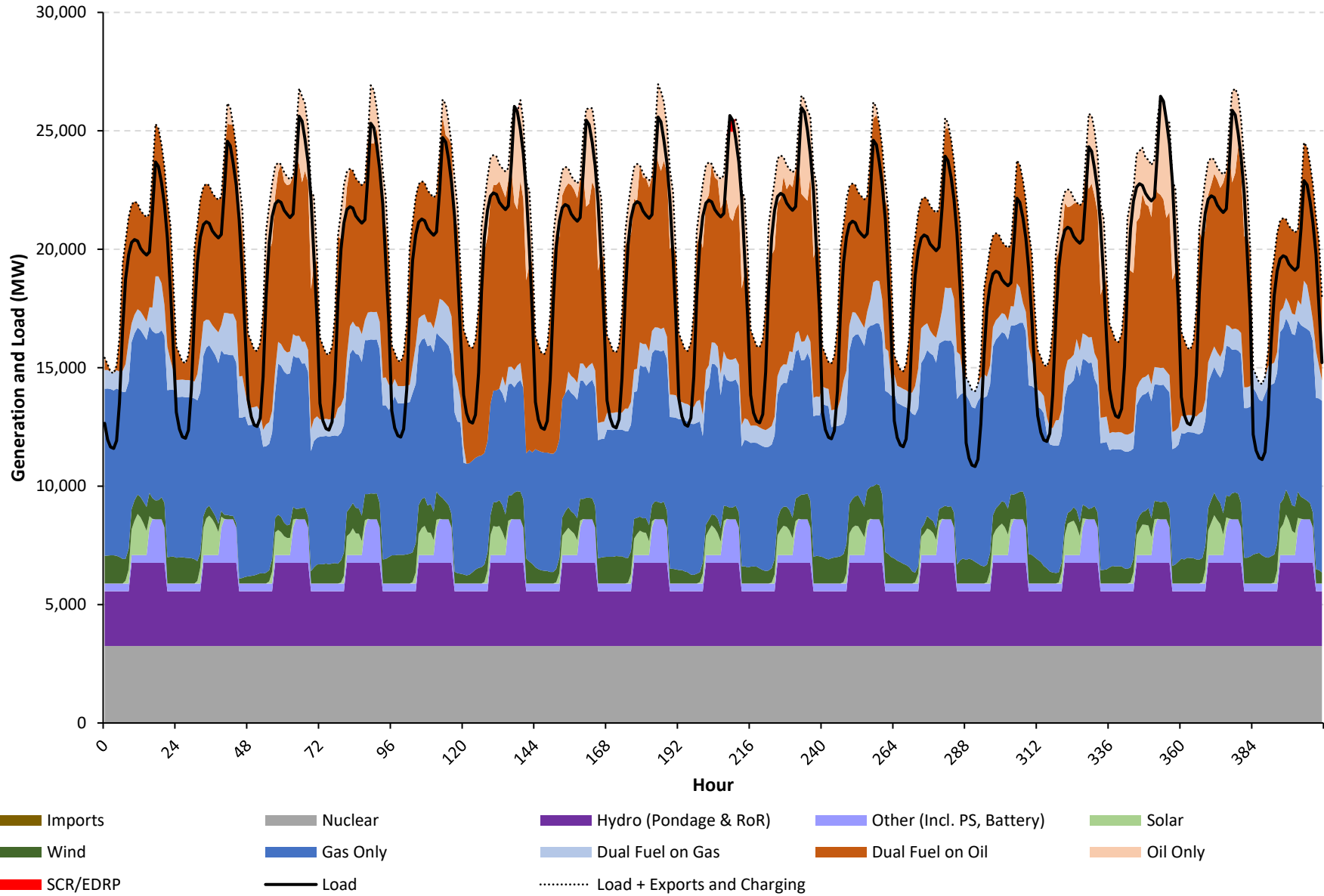
Full Period Results Summary

Case Name: Scenario 6 - PD 3 SENY Deactivation

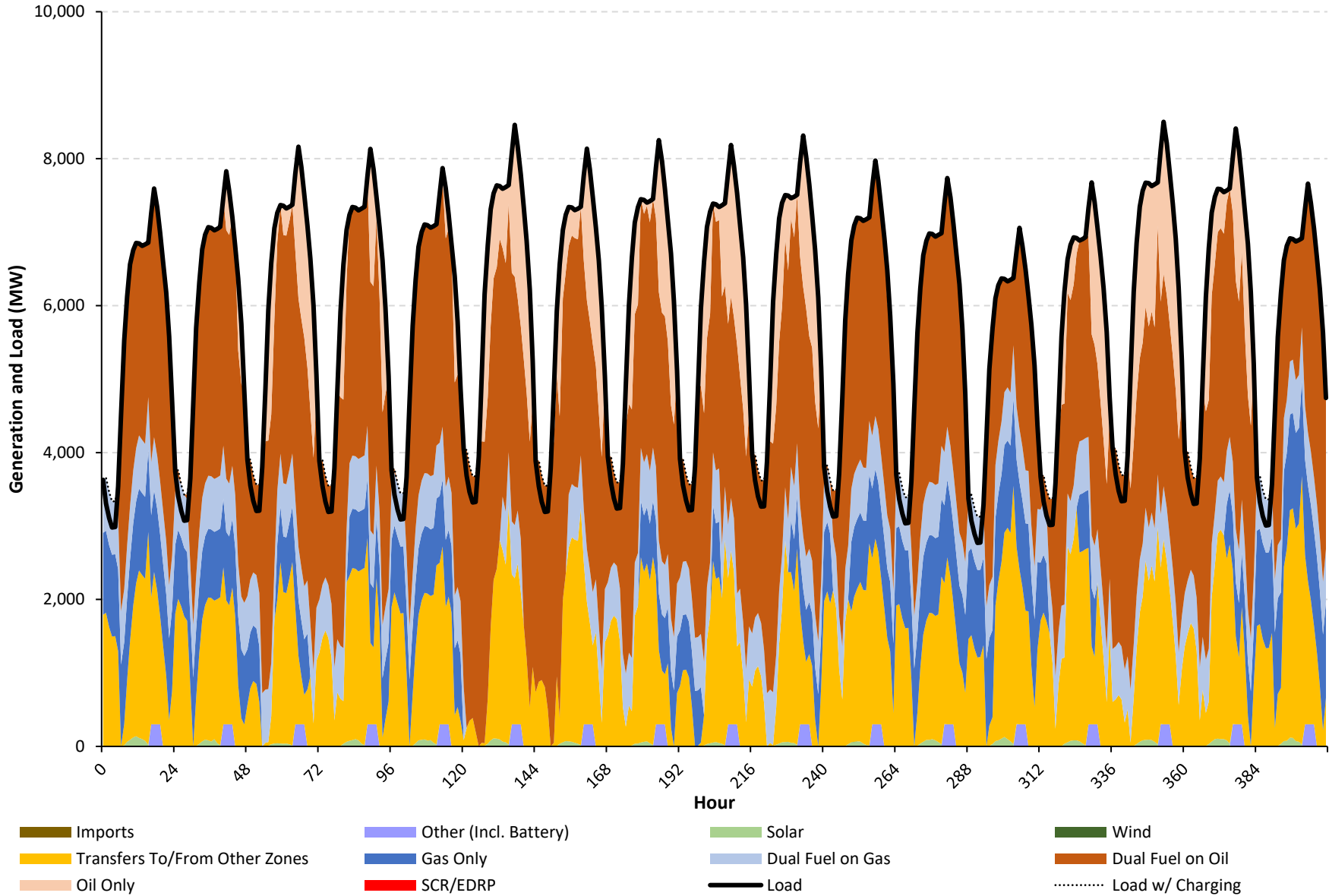
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



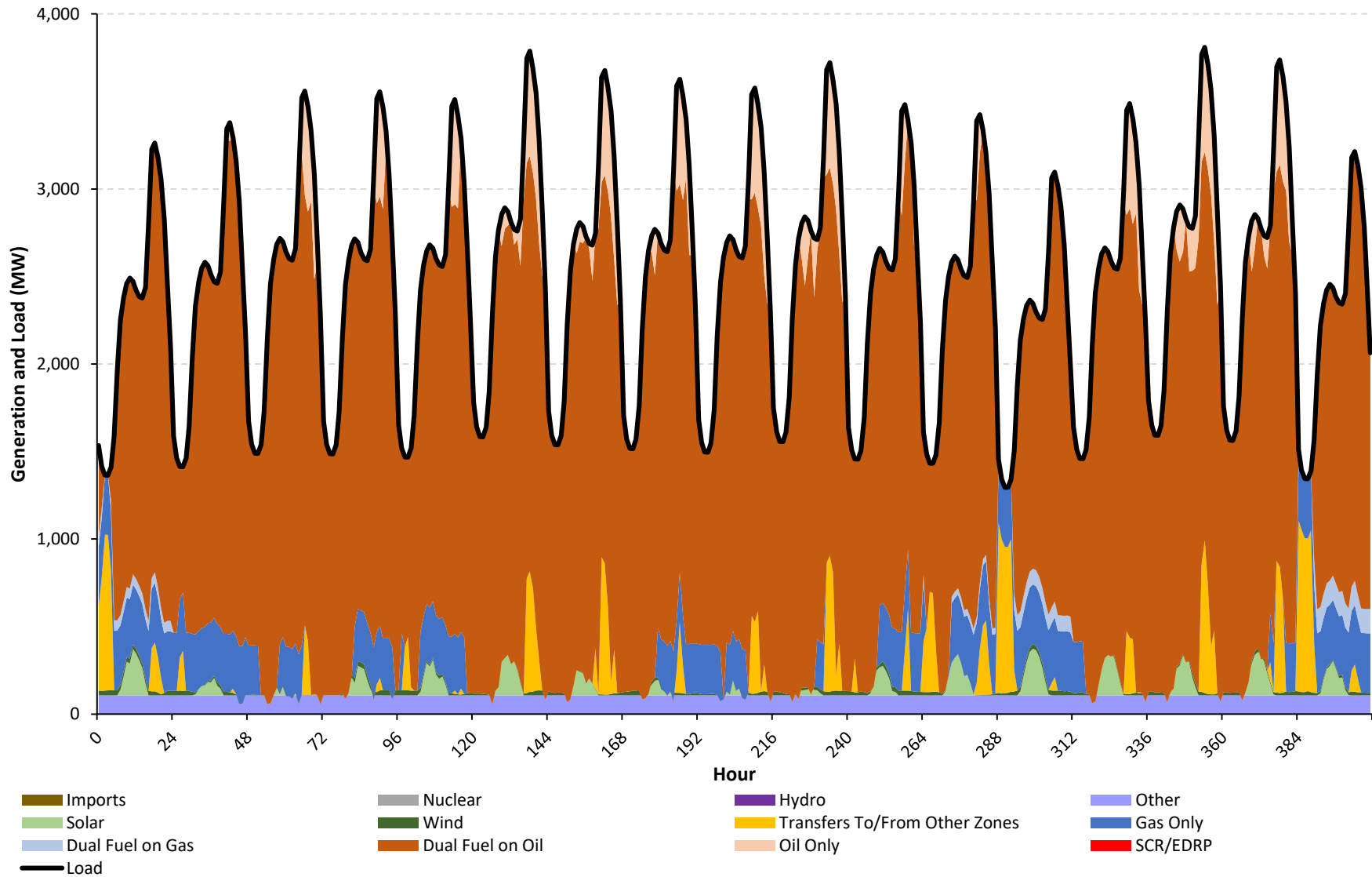
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 3 SENY Deactivation



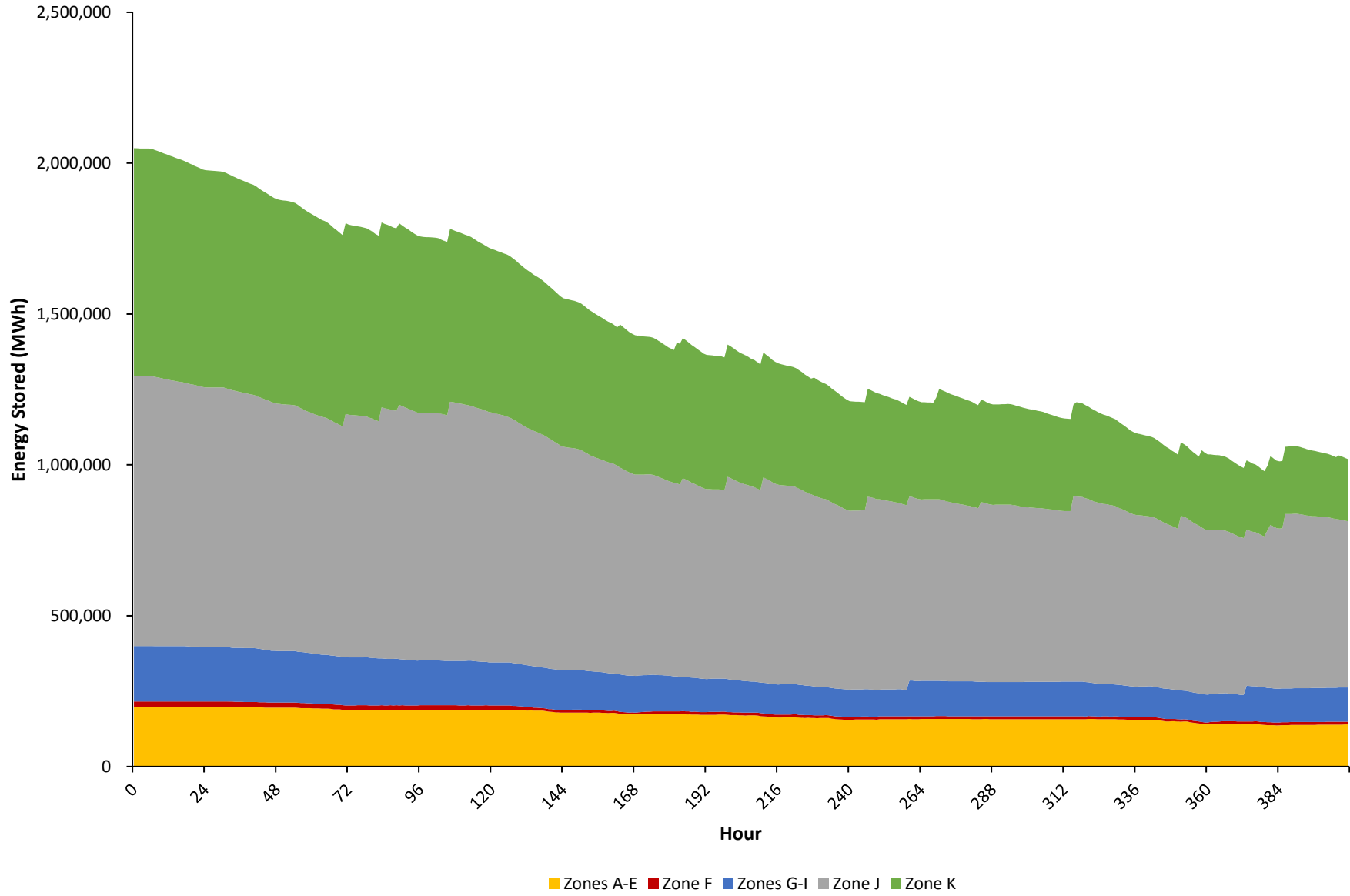
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 3 SENY Deactivation

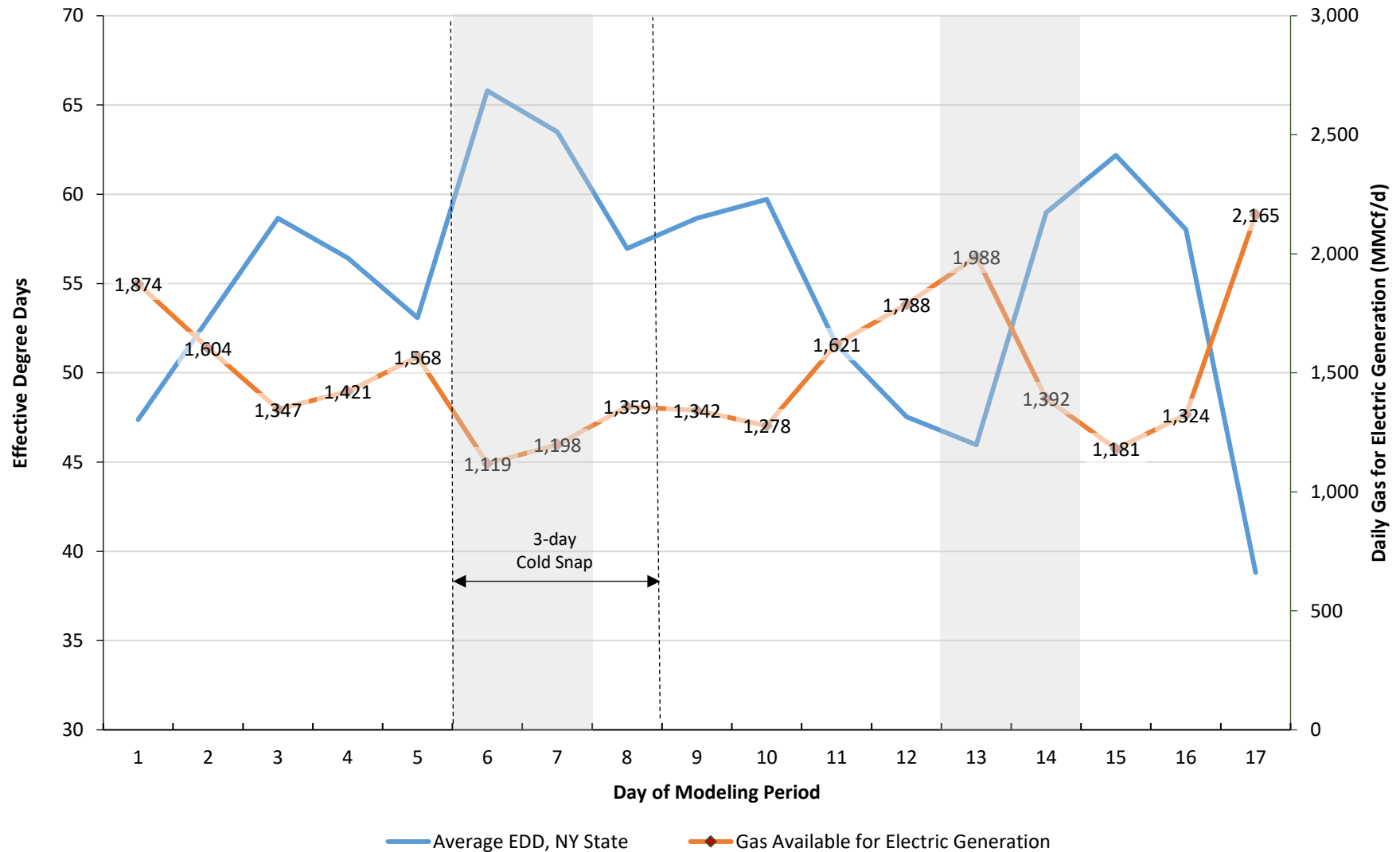


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

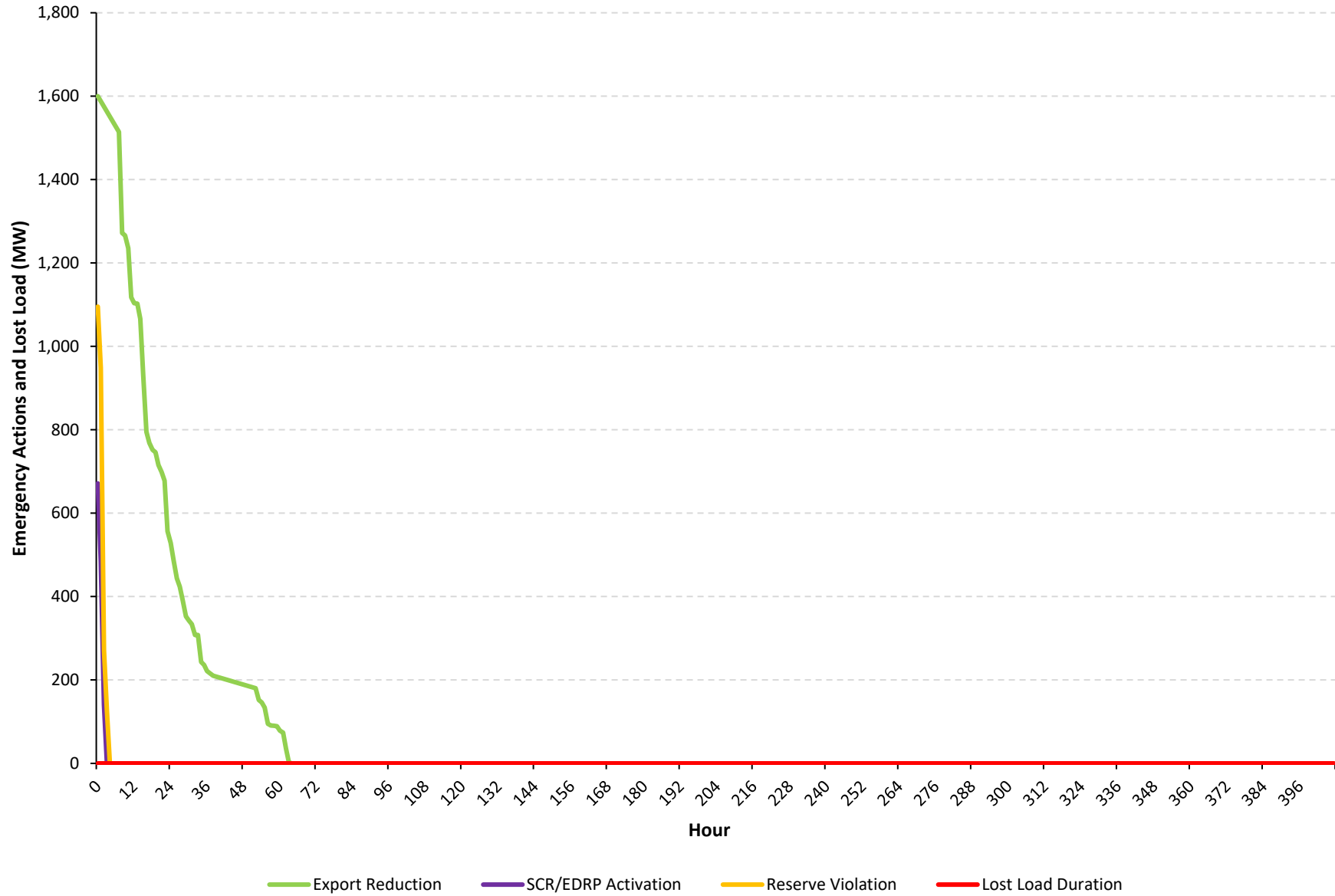
Scenario 6 - PD 3 SENY Deactivation



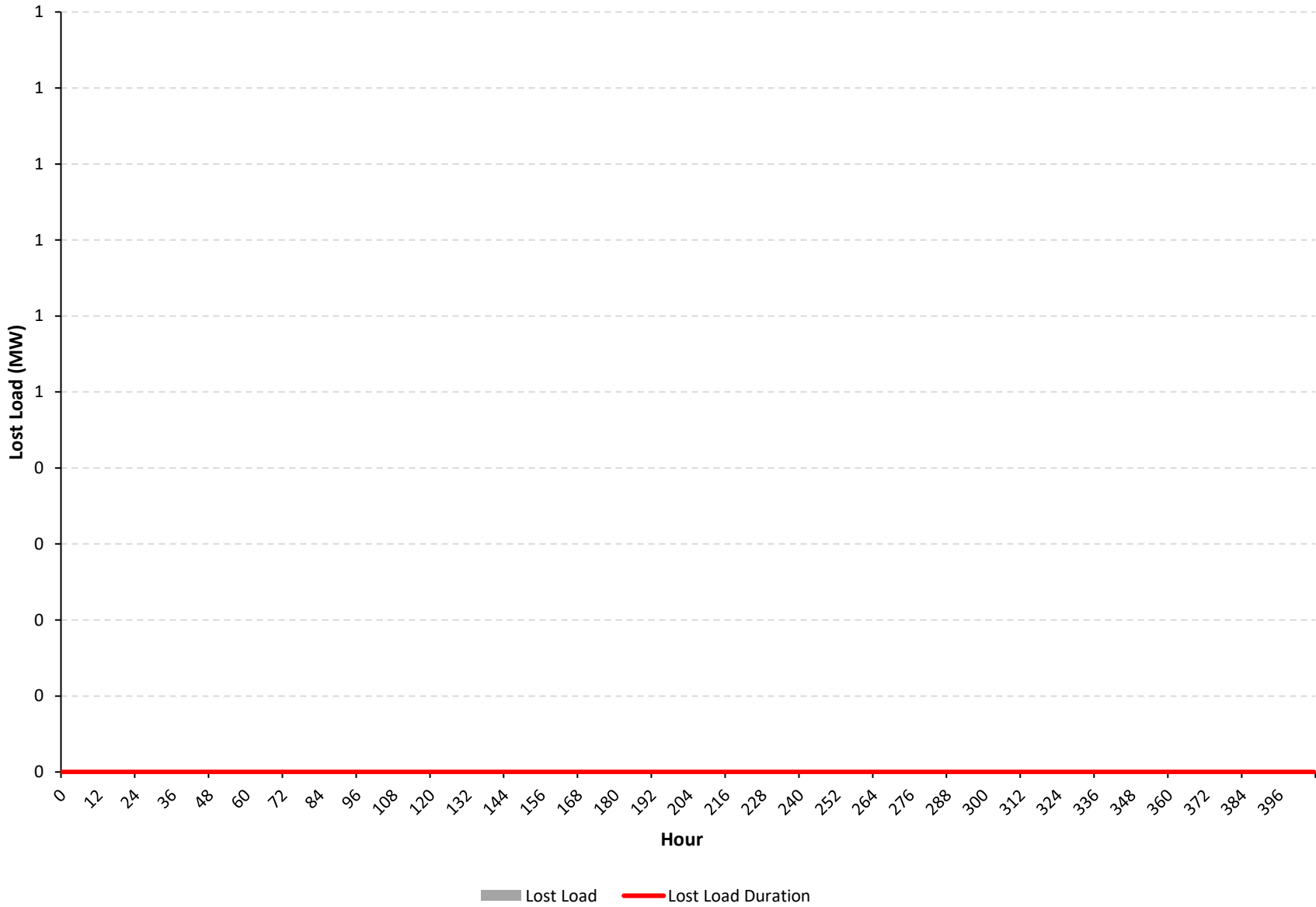
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 3 SENY Deactivation



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 3 SENY Deactivation



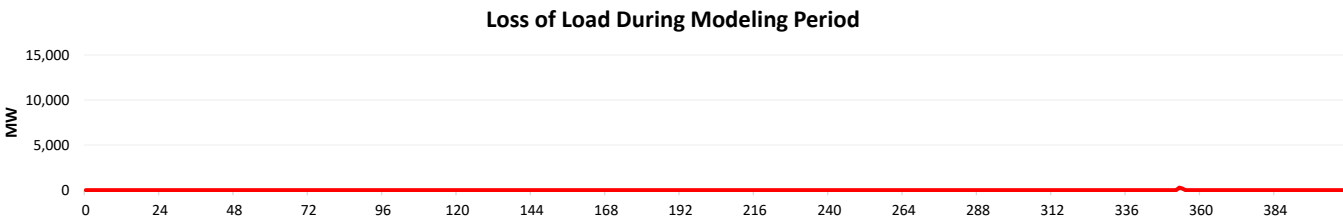
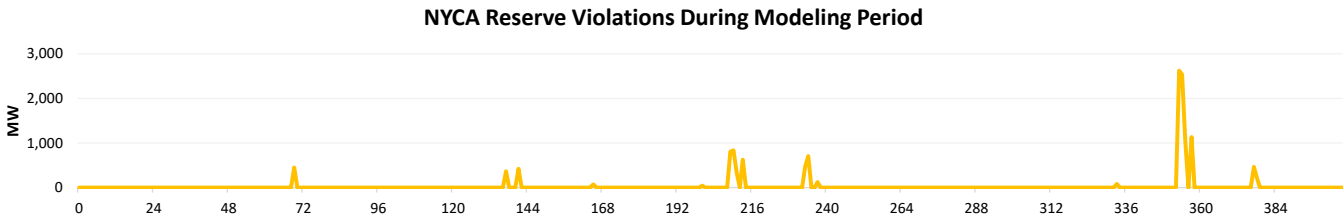
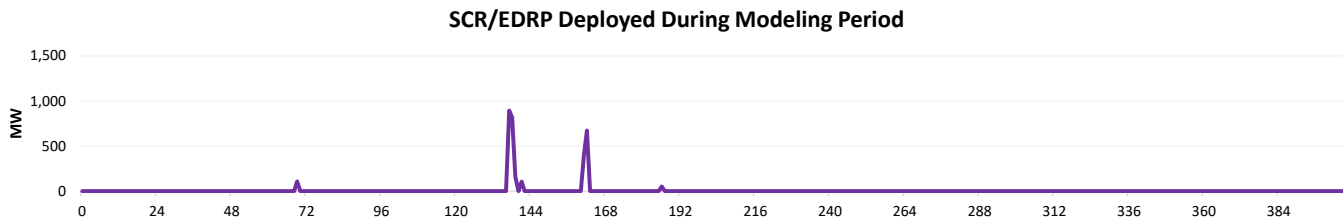
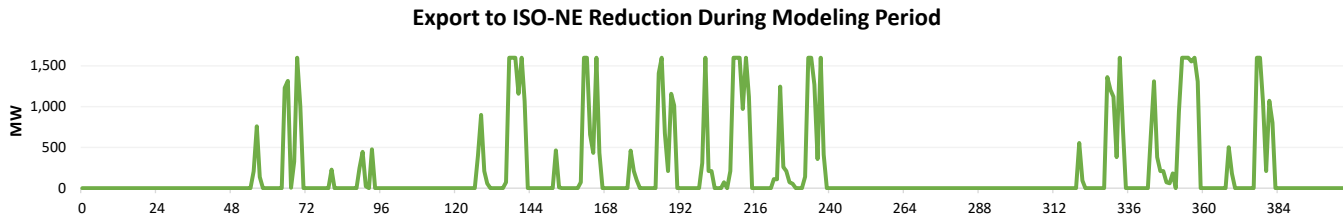
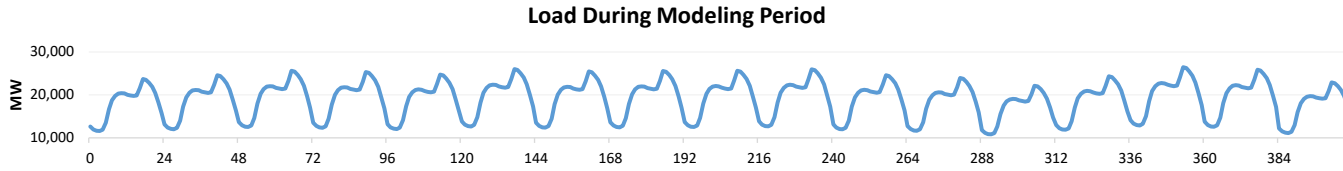
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 6 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	100
Total MWh	79,439
Avg. MW	194.7

SCR Deployment	
Total Hrs.	8
Total MWh	3,211
Avg. MW	7.9

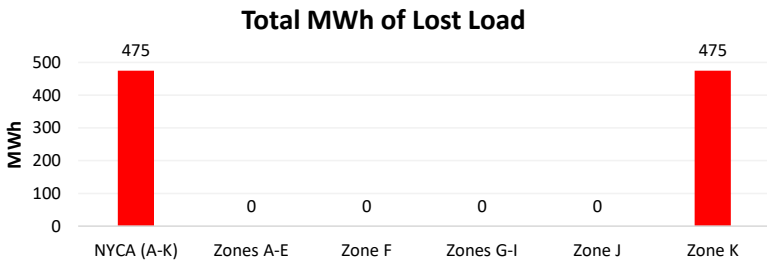
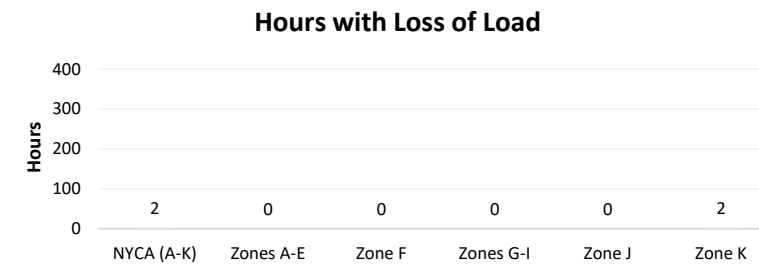
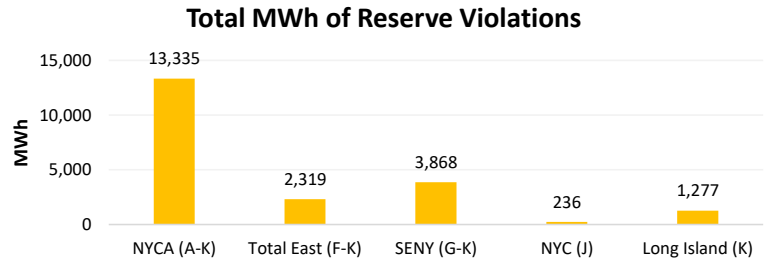
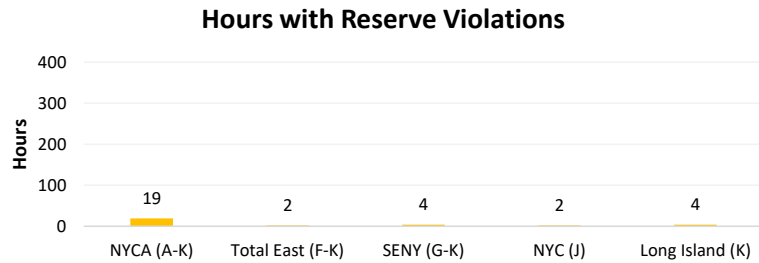
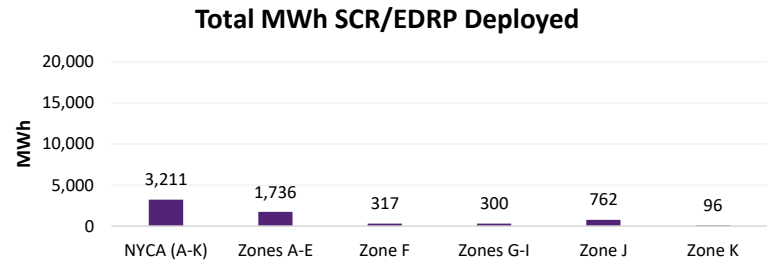
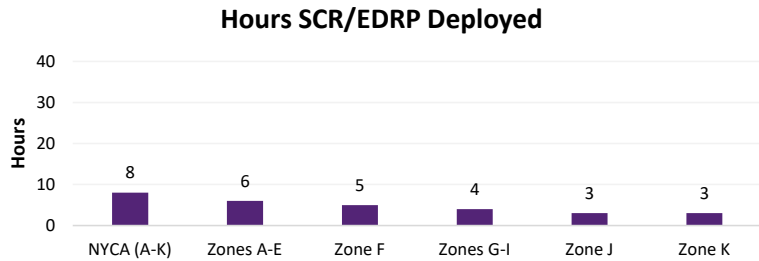
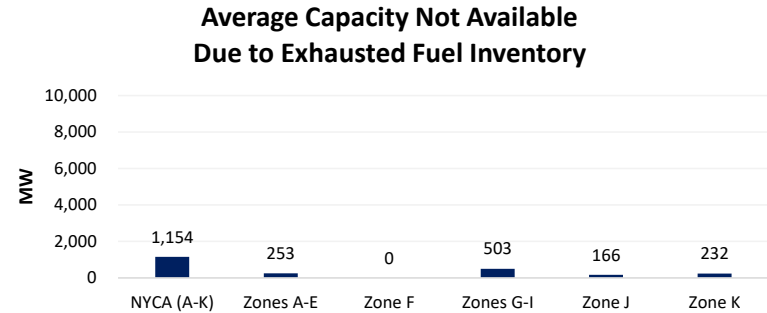
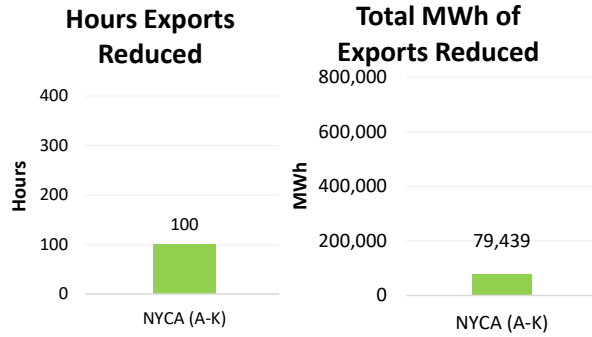
Reserve Violations	
Total Hrs.	19
Total MWh	13,335
Avg. MW	32.7
First Hour with Viol.	69
First Hour, Zone K	137

Loss of Load	
Total Hrs.	2
Total MWh	475
Avg. MW	1.2
First Hour with Losses	353
First Hour, Zone K	353

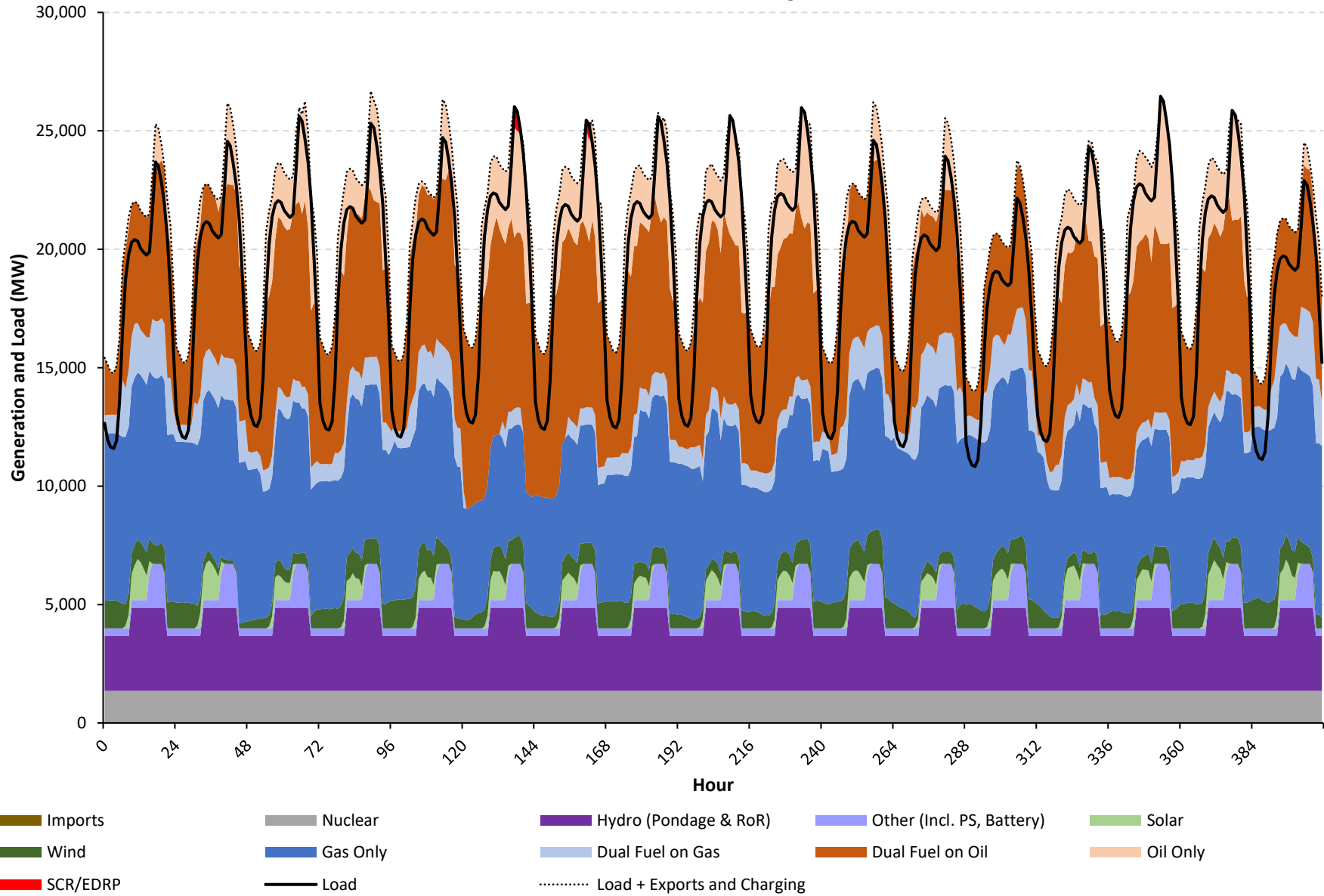
Full Period Results Summary

Case Name: Scenario 6 - PD 4 Nuclear Outage

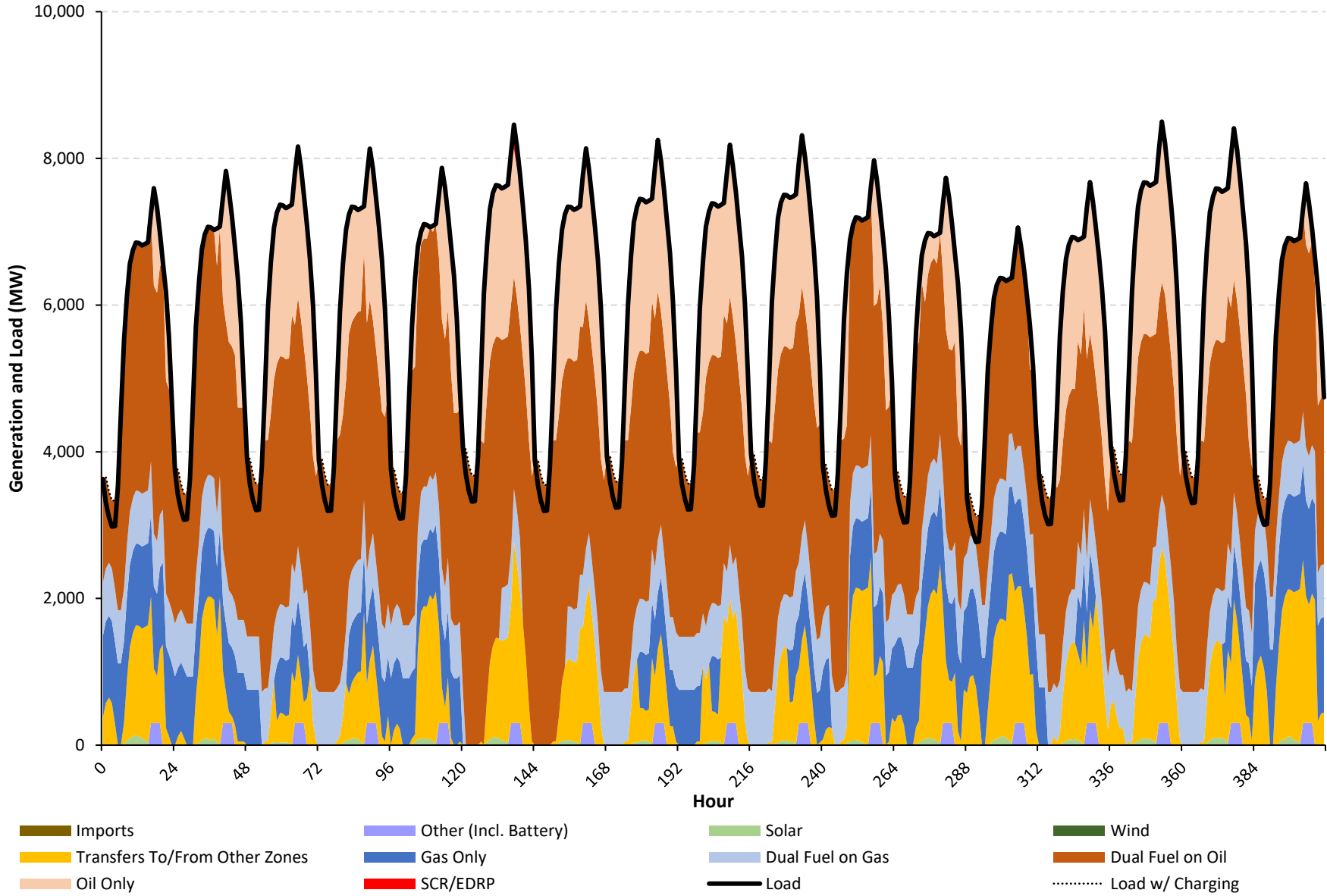
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW



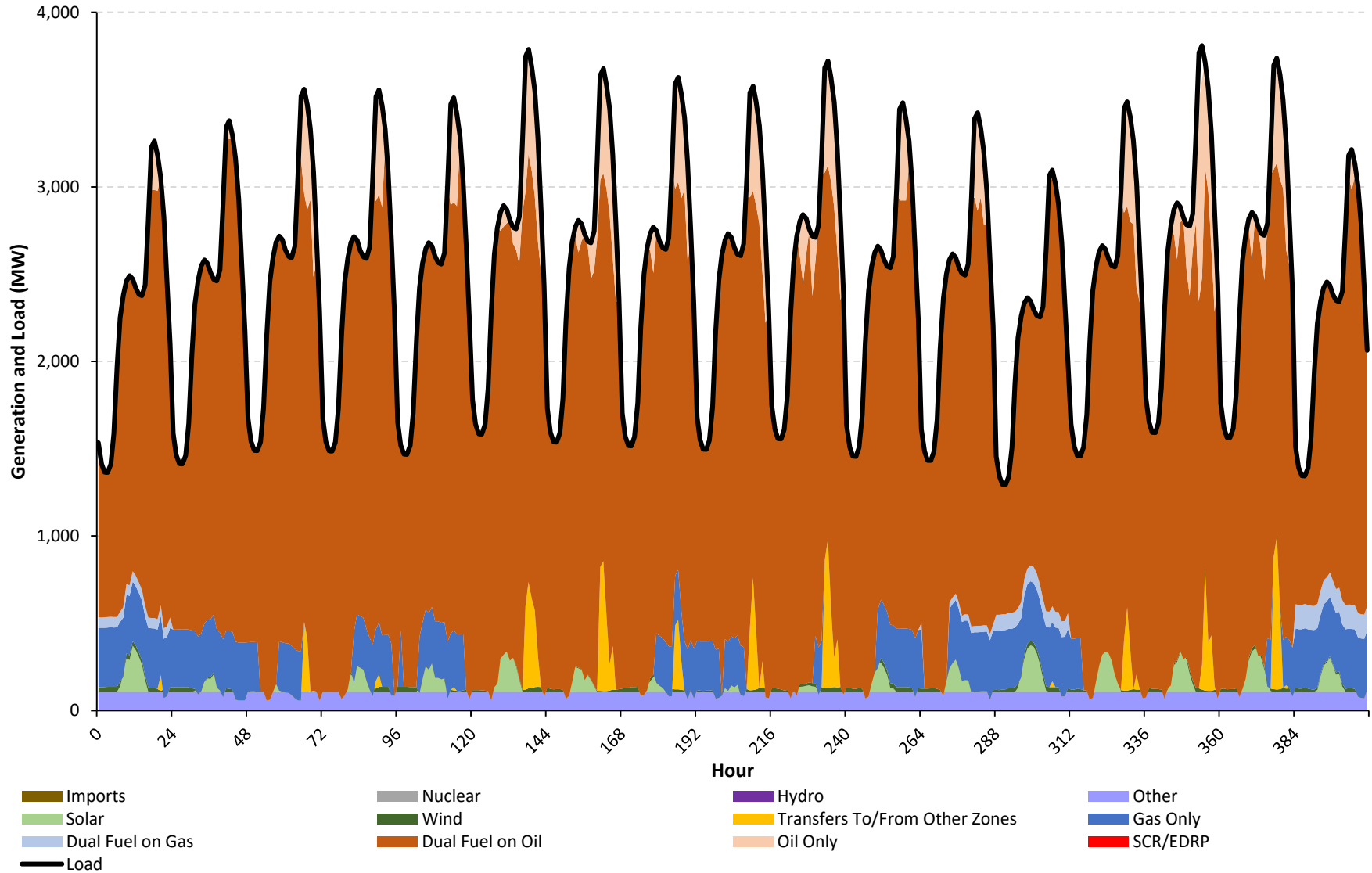
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 4 Nuclear Outage



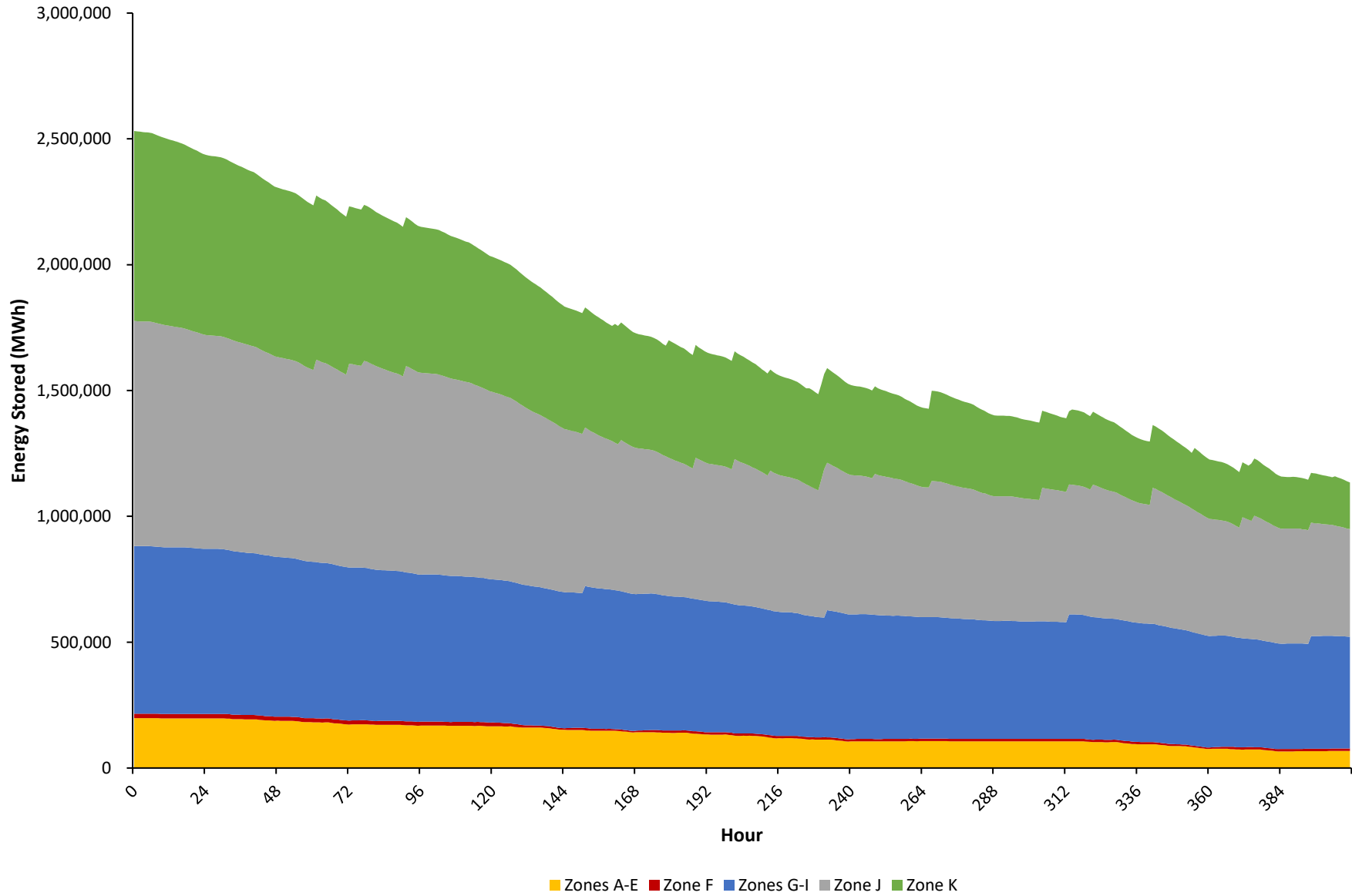
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 4 Nuclear Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 4 Nuclear Outage

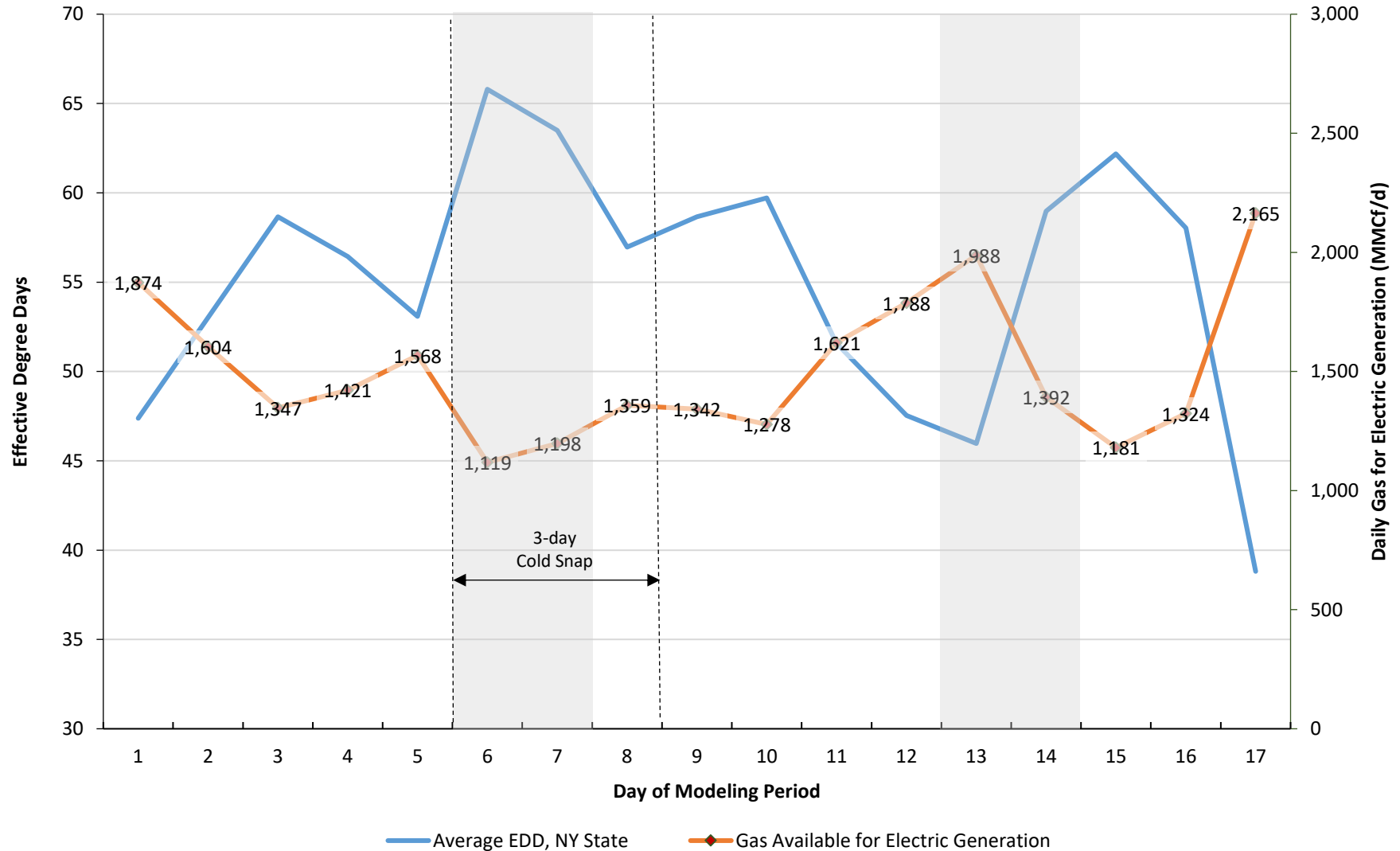


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 4 Nuclear Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

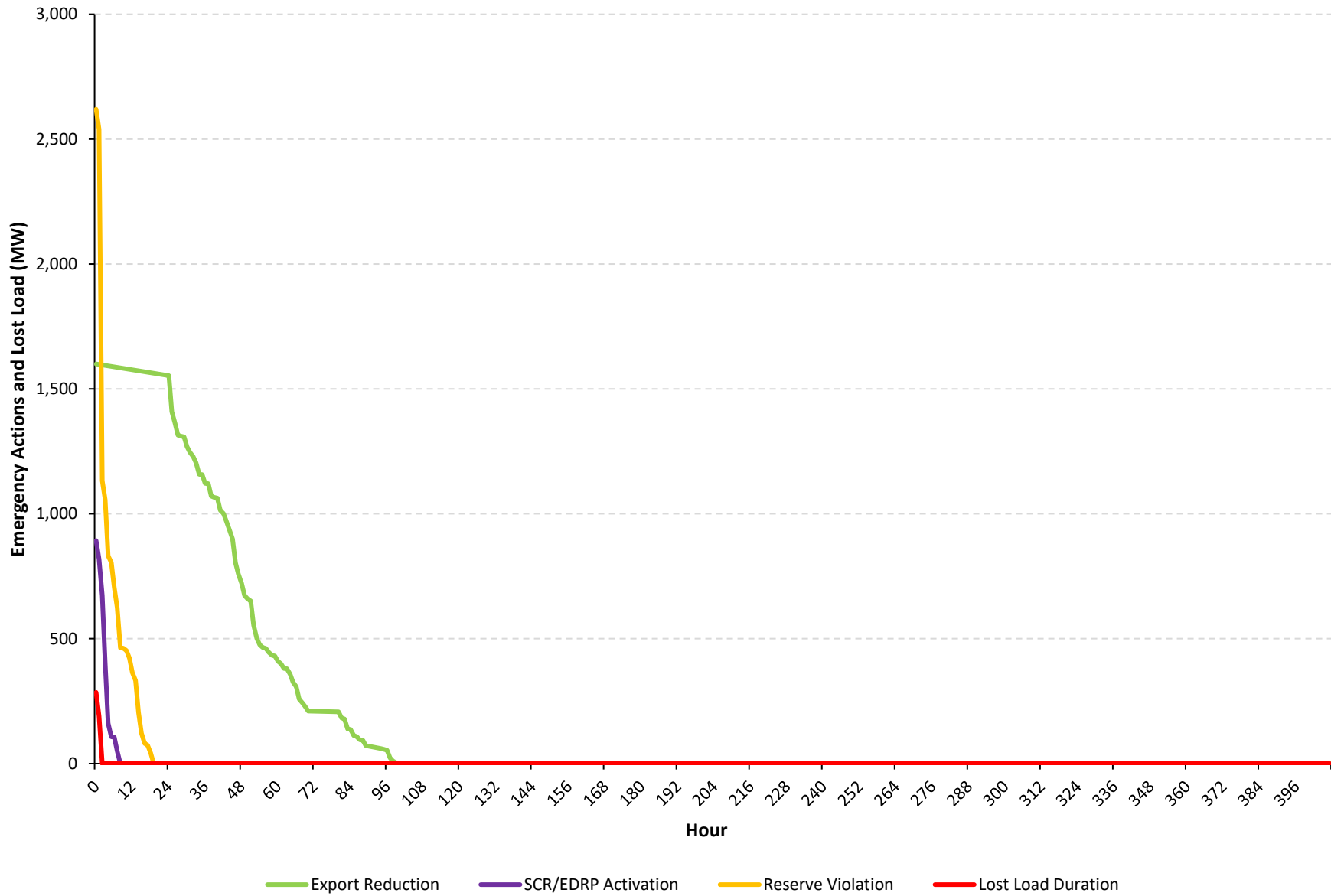
Scenario 6 - PD 4 Nuclear Outage



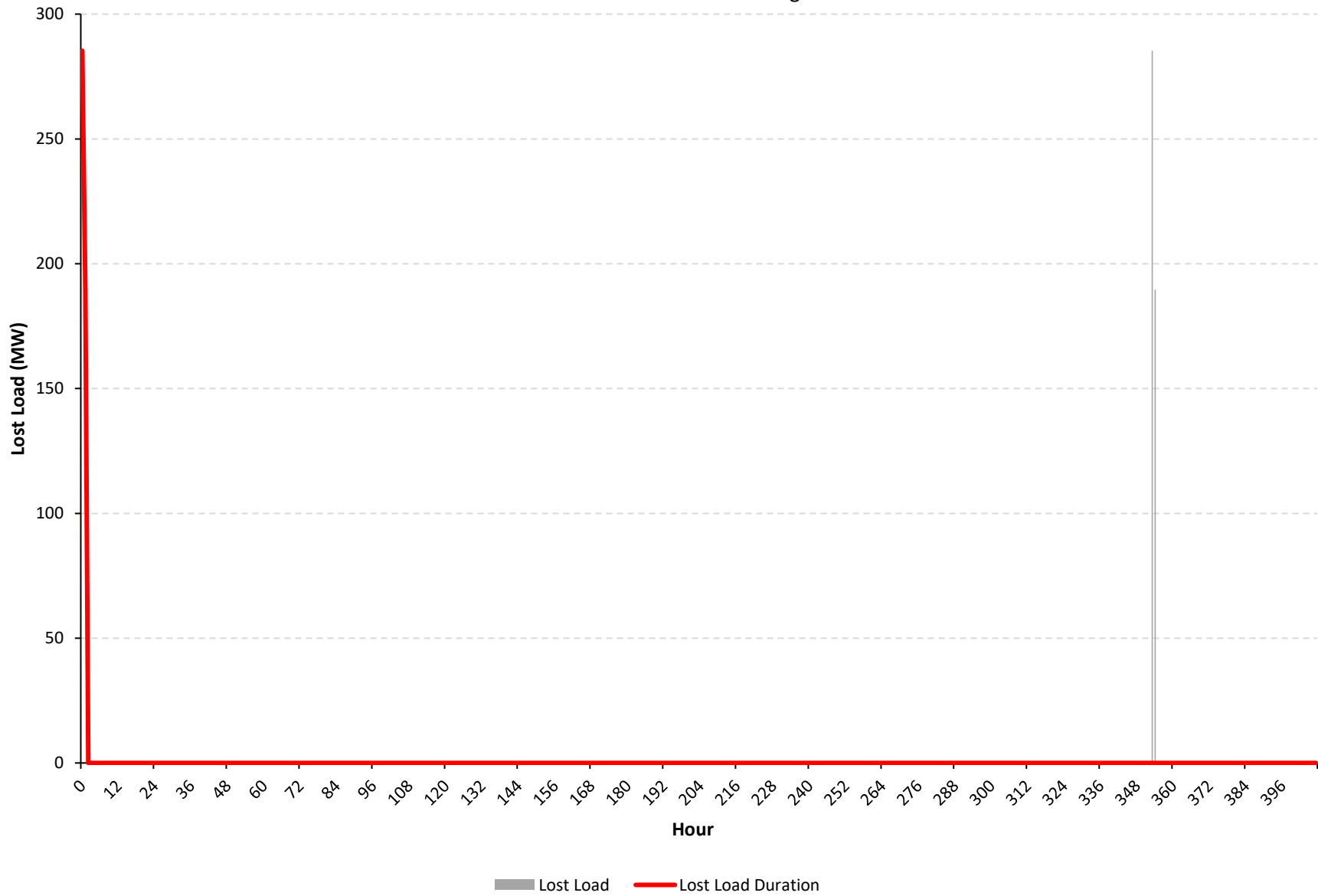
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 4 Nuclear Outage



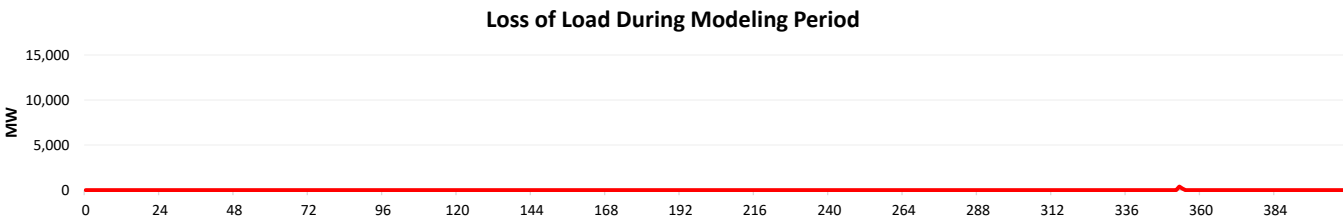
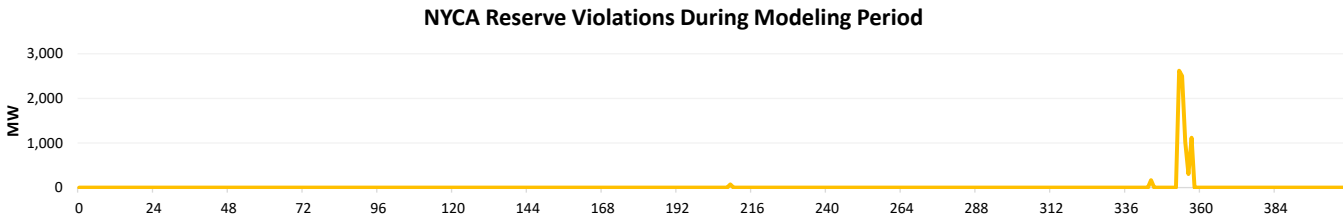
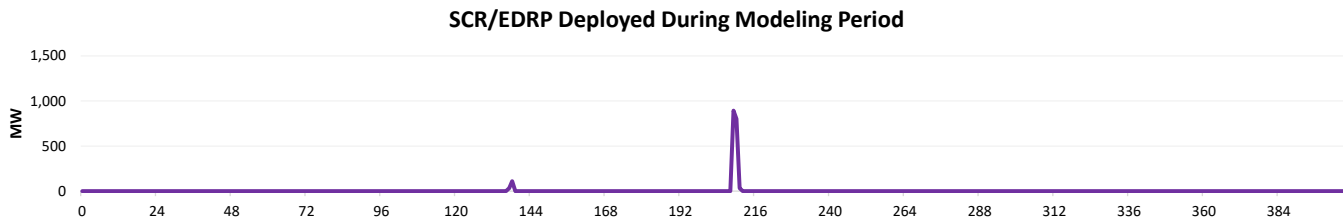
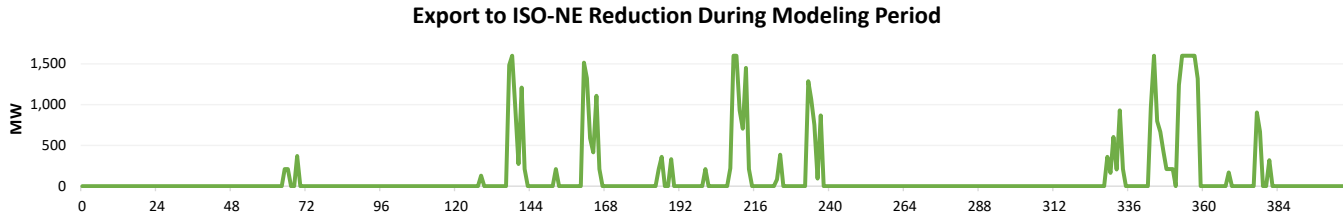
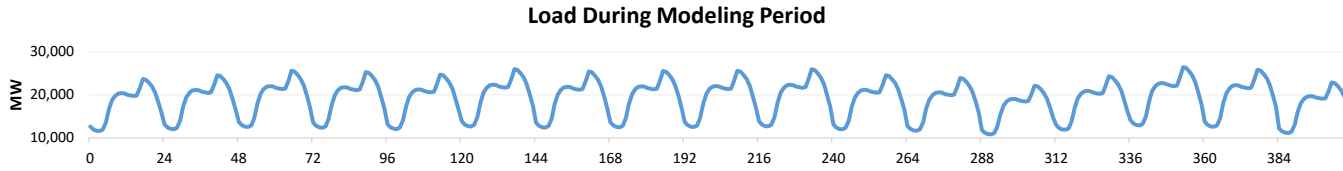
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 6 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	60
Total MWh	44,557
Avg. MW	109.2

SCR Deployment	
Total Hrs.	5
Total MWh	1,867
Avg. MW	4.6

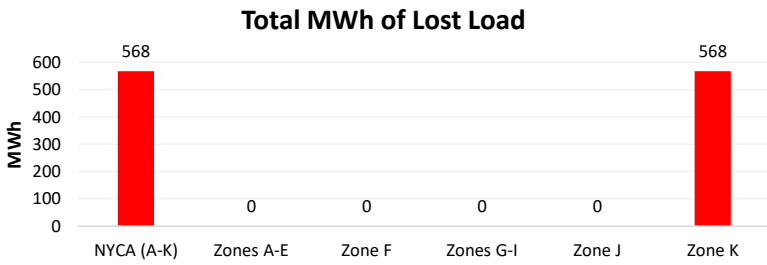
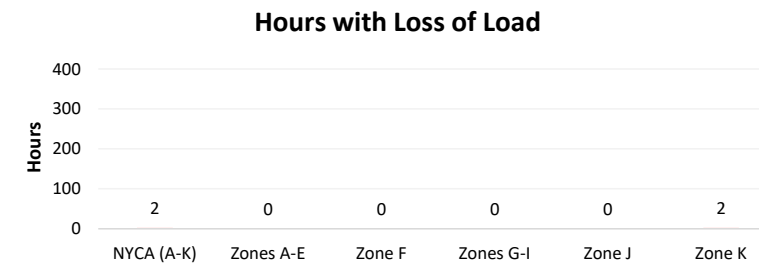
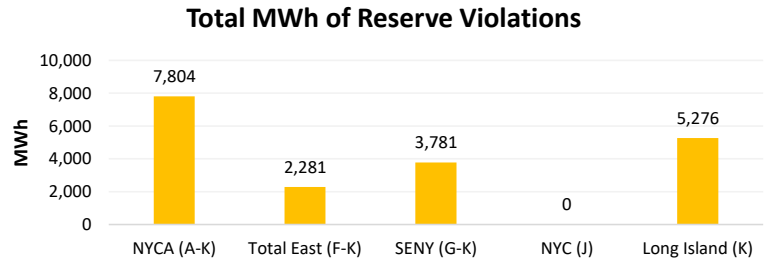
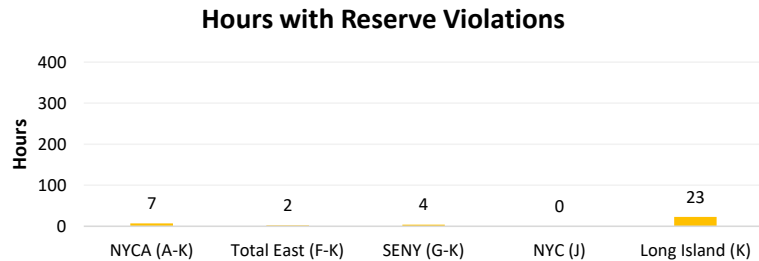
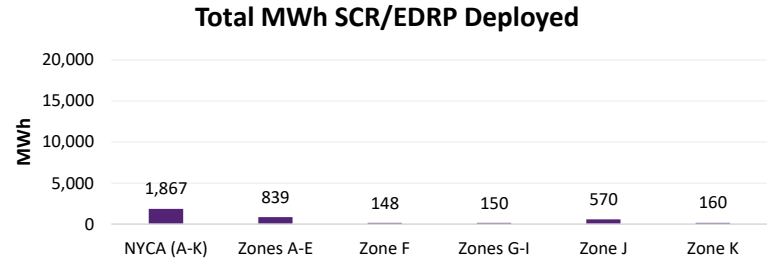
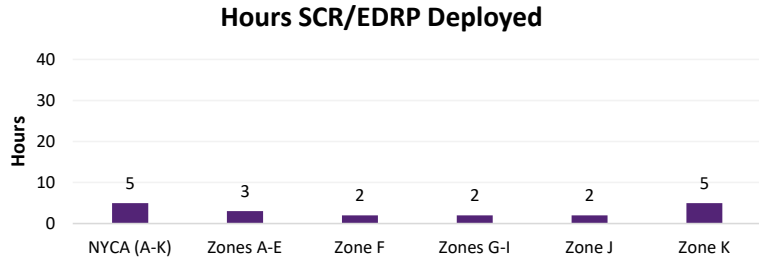
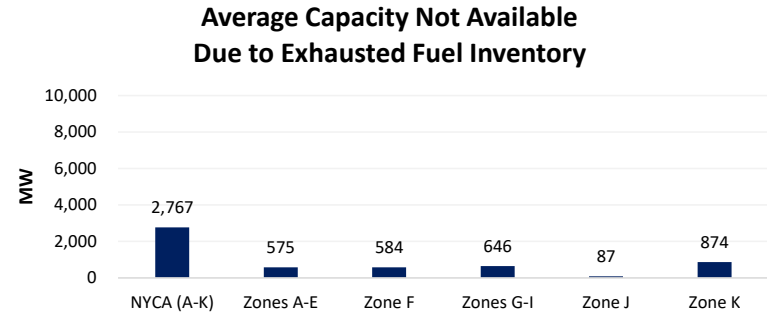
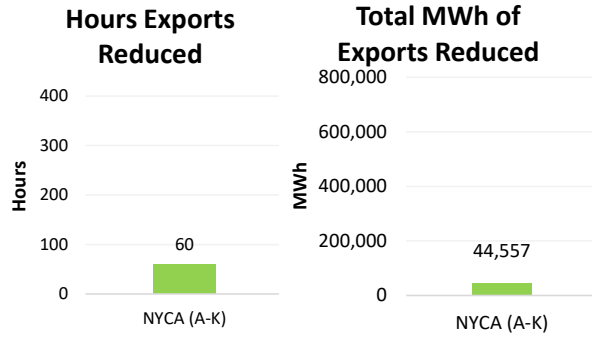
Reserve Violations	
Total Hrs.	7
Total MWh	7,804
Avg. MW	19.1
First Hour with Viol.	137
First Hour, Zone K	137

Loss of Load	
Total Hrs.	2
Total MWh	568
Avg. MW	1.4
First Hour with Losses	353
First Hour, Zone K	353

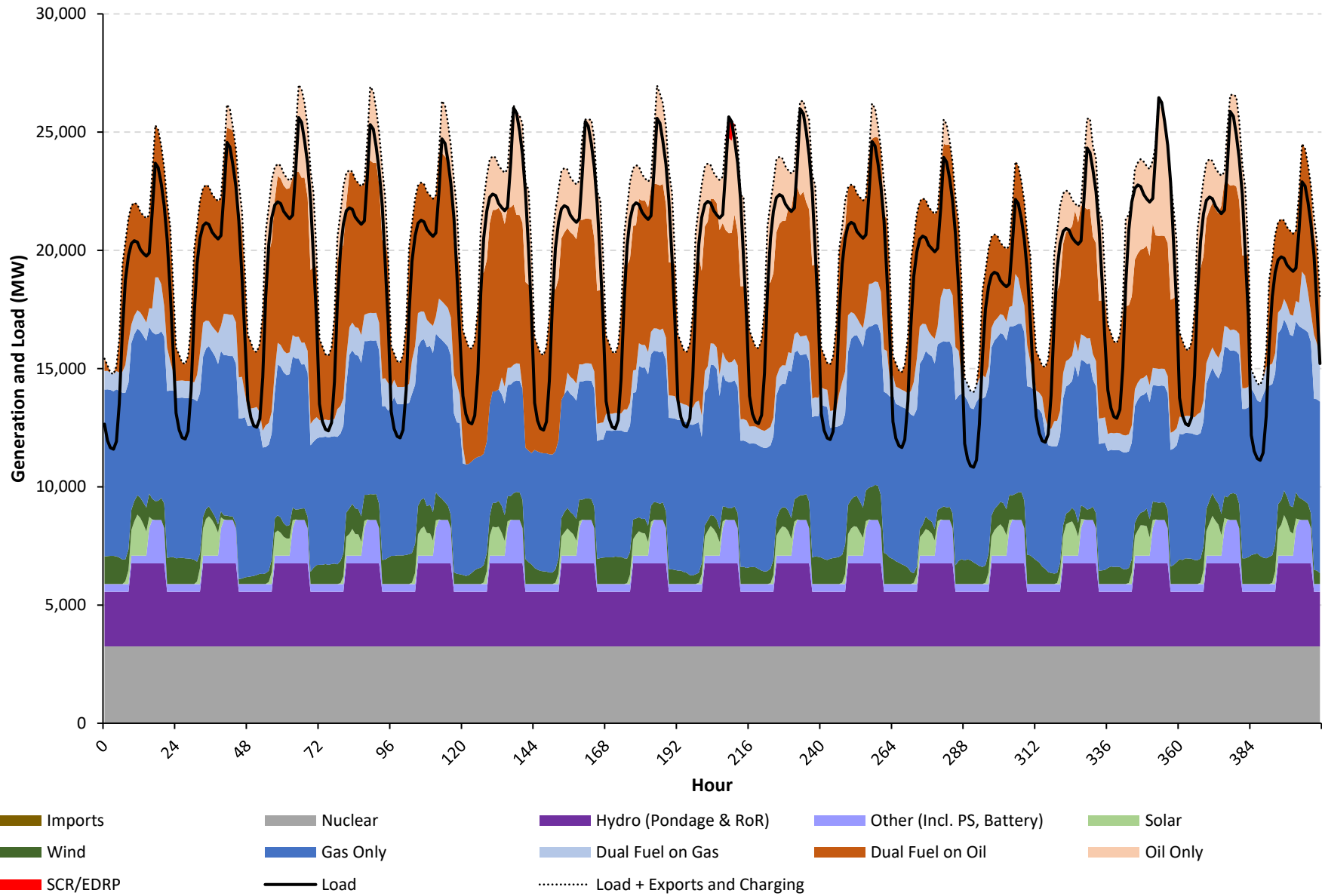
Full Period Results Summary

Case Name: Scenario 6 - PD 5 No Truck Refill

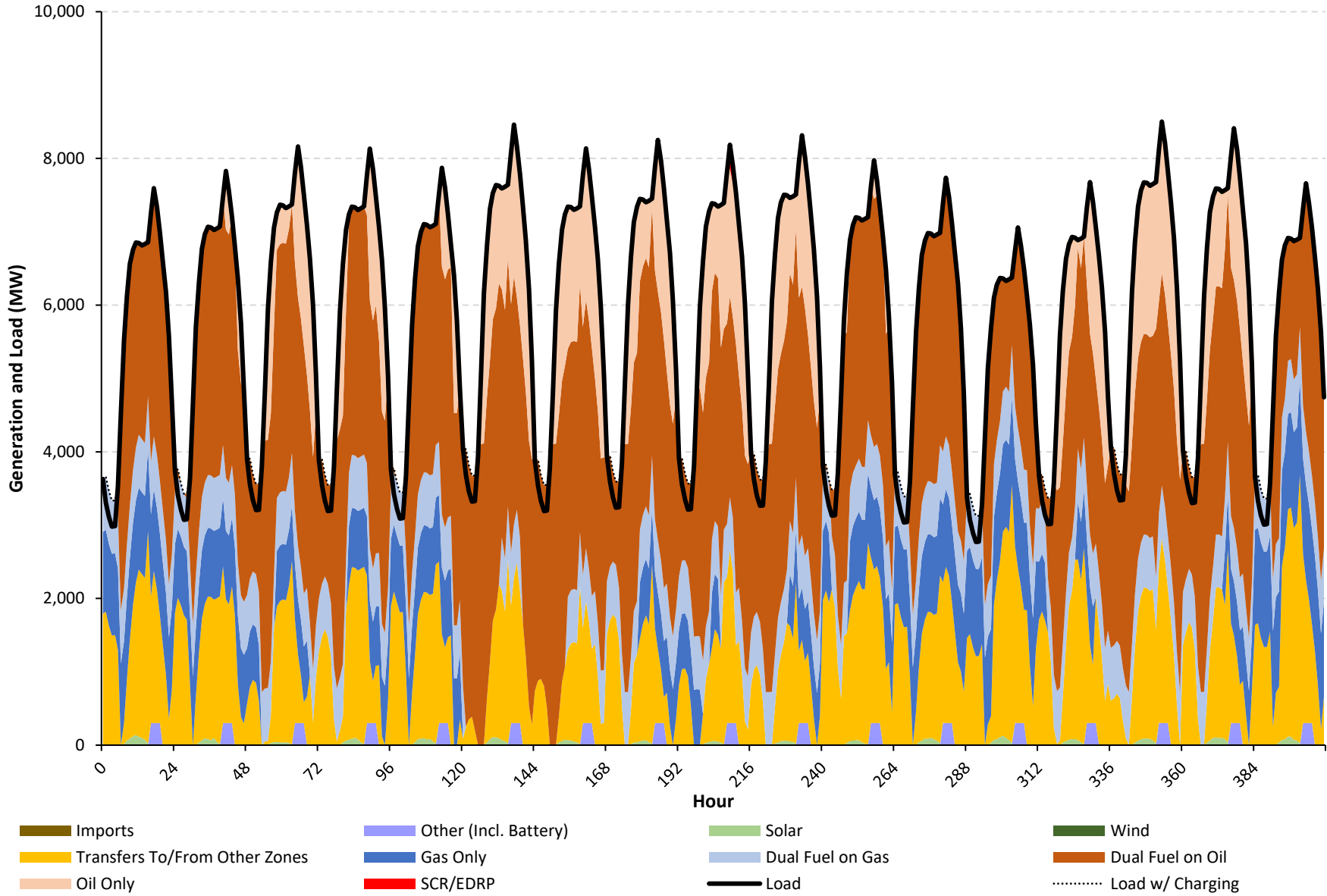
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



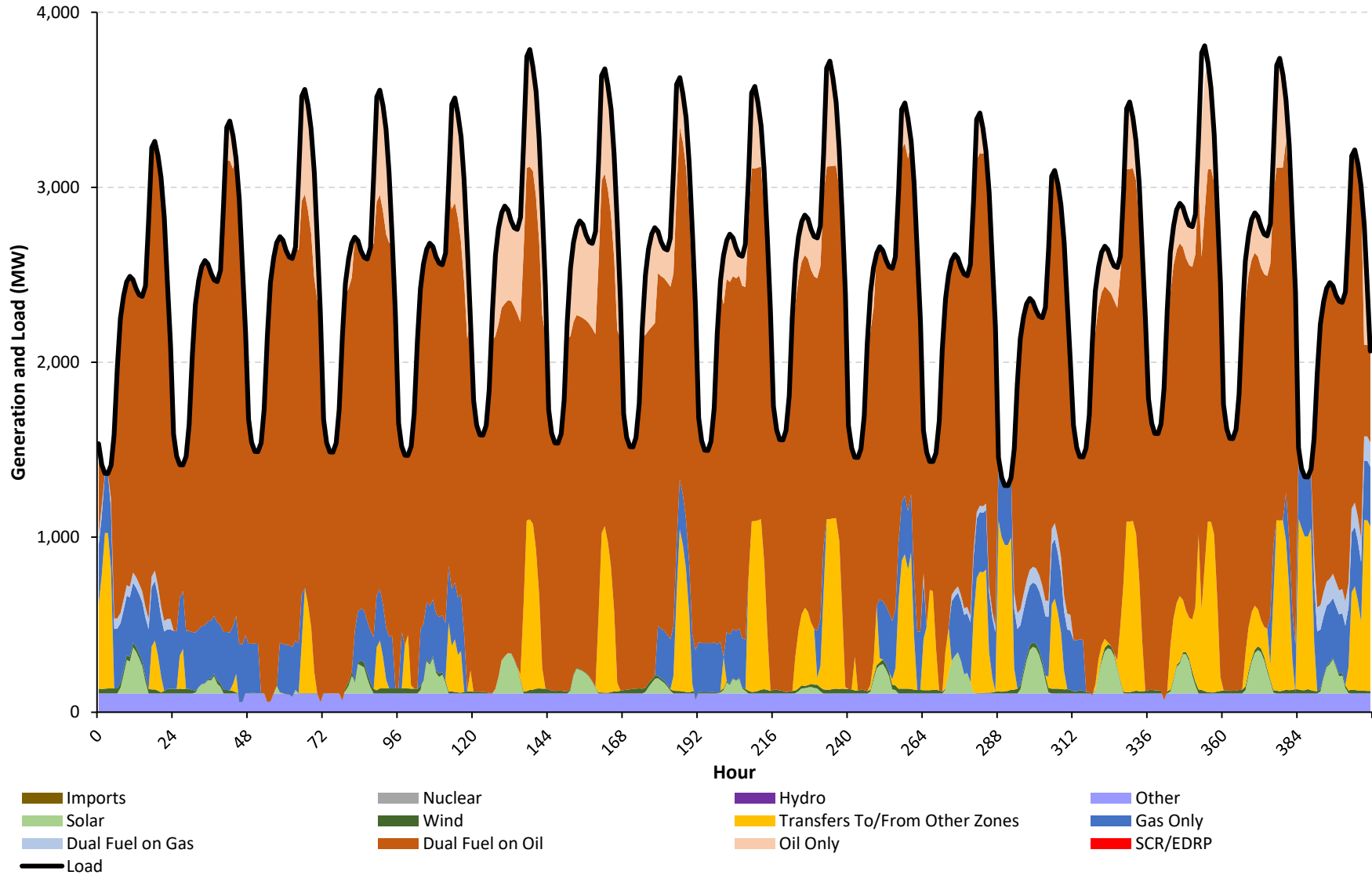
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 5 No Truck Refill



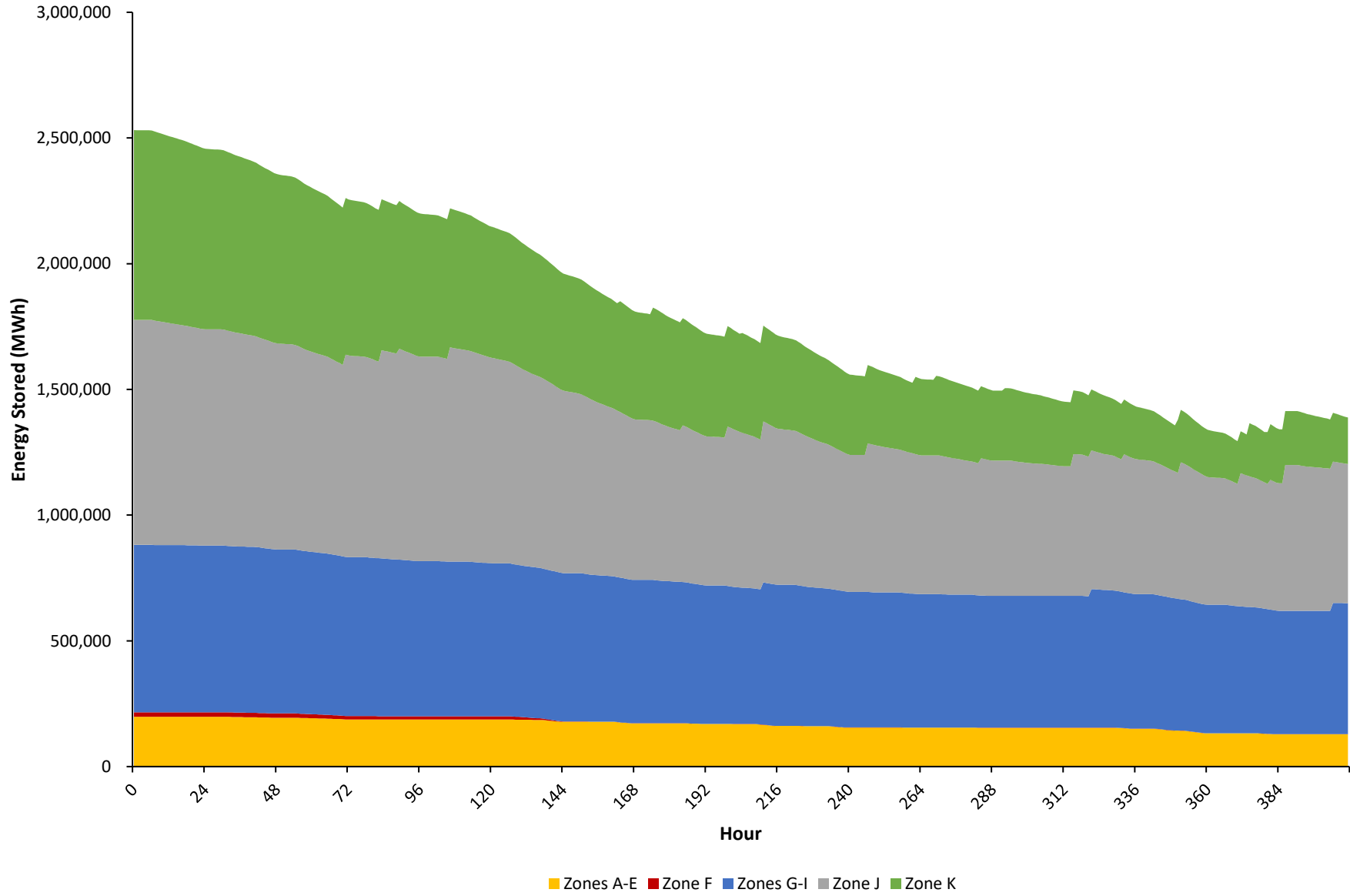
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 5 No Truck Refill

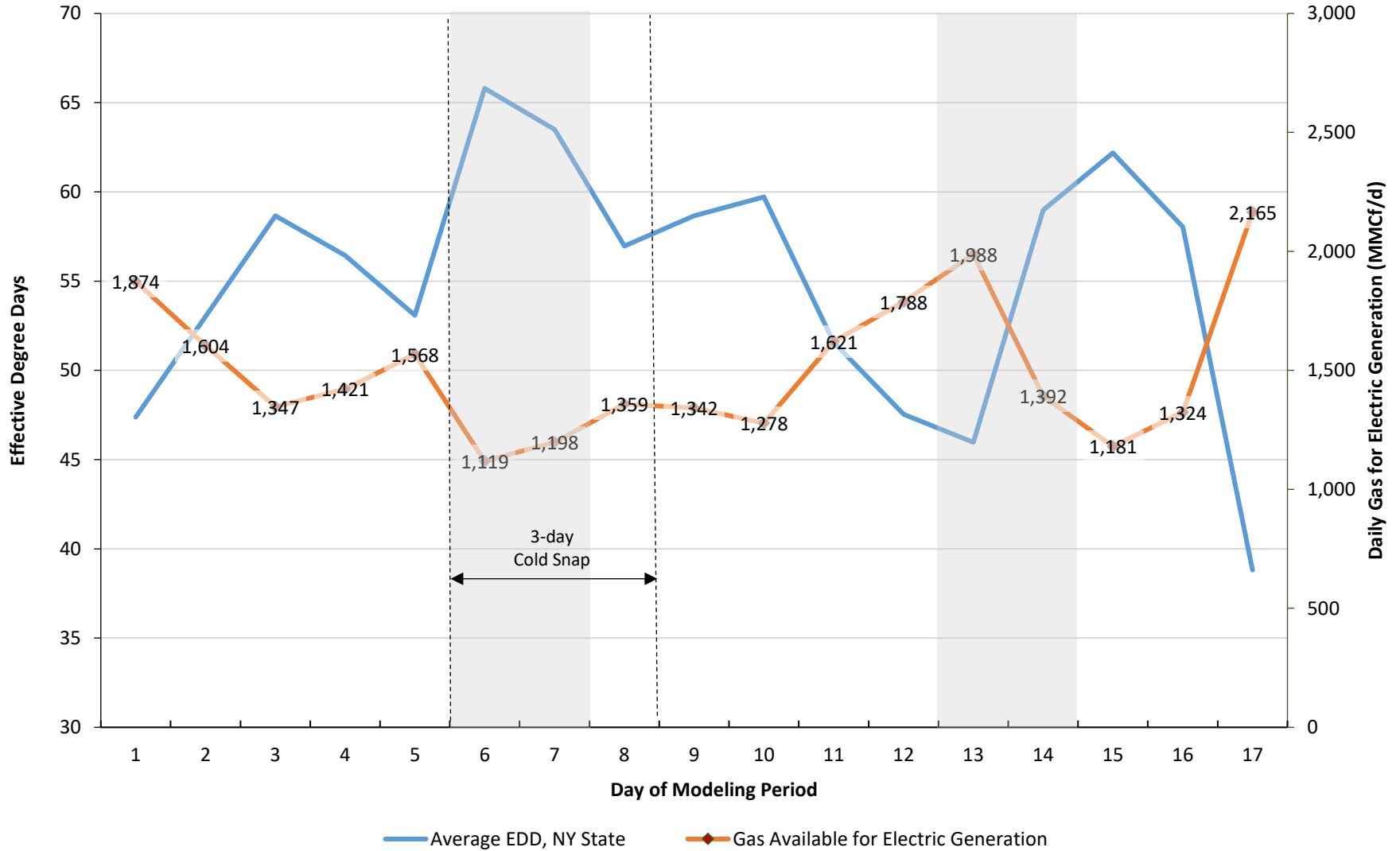


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

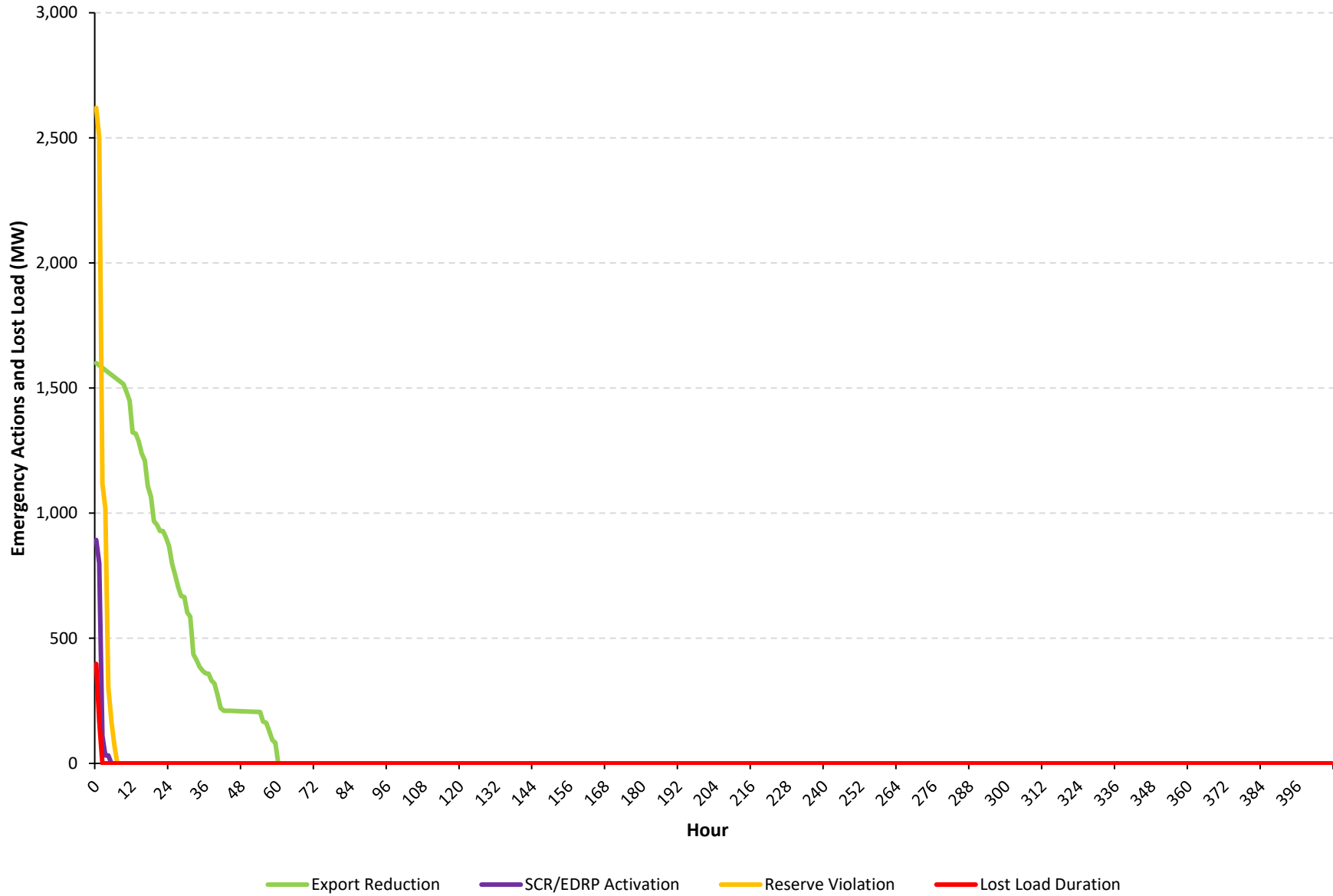
Scenario 6 - PD 5 No Truck Refill



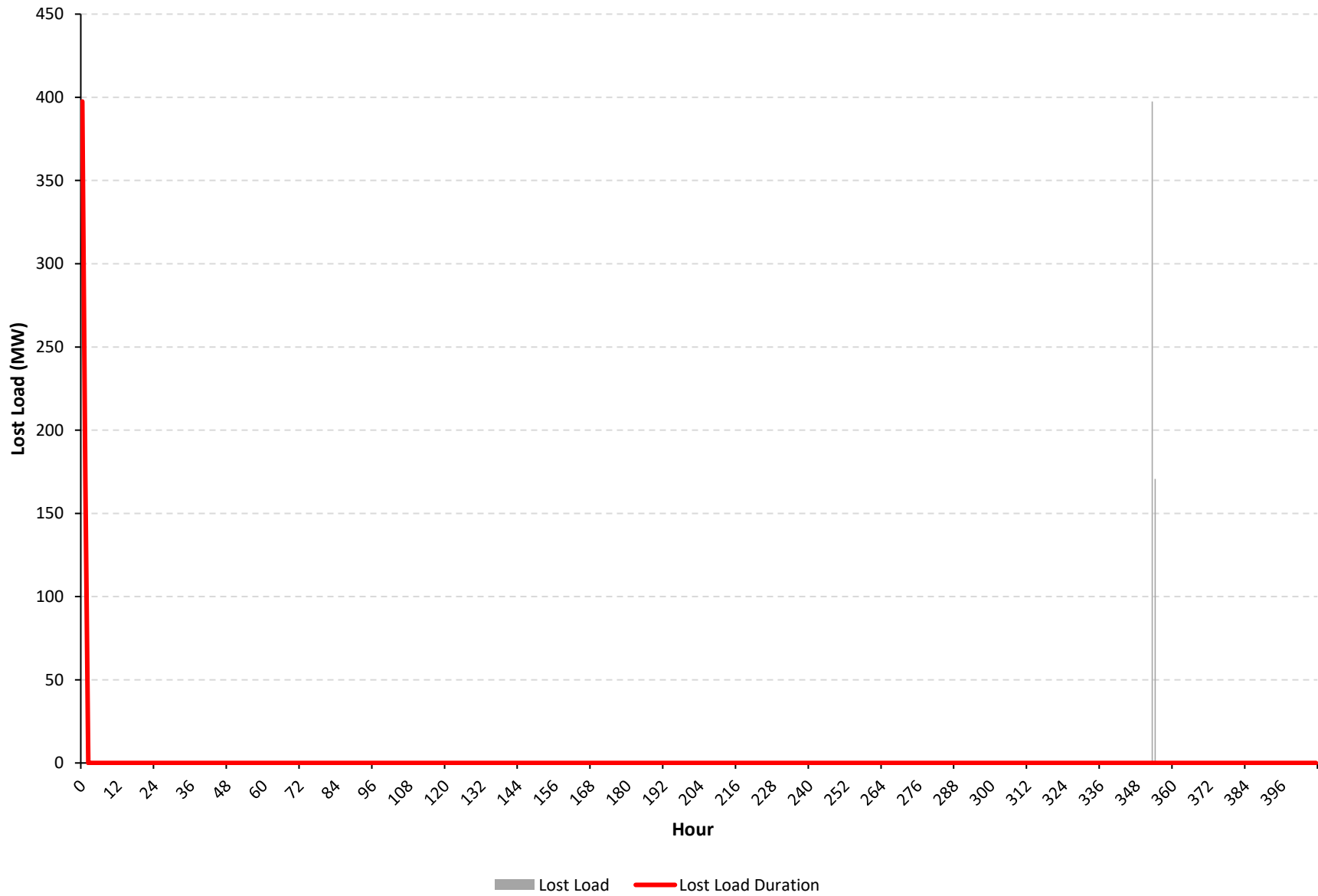
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 5 No Truck Refill



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 5 No Truck Refill



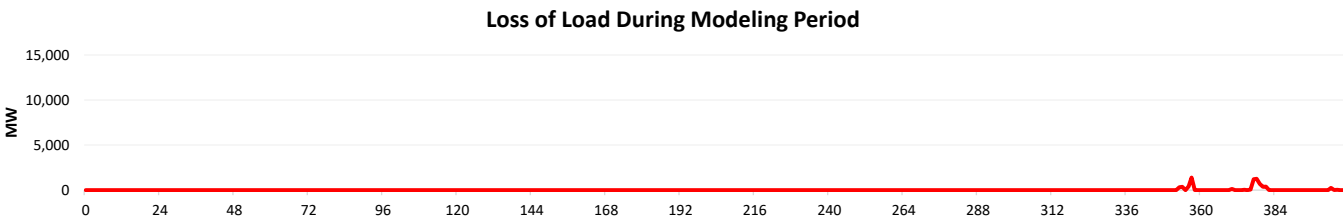
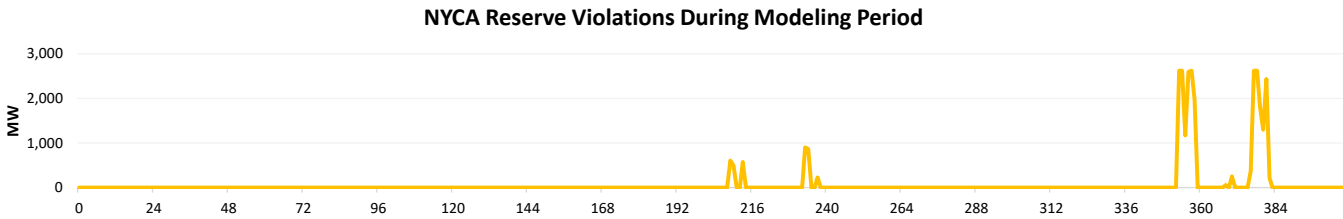
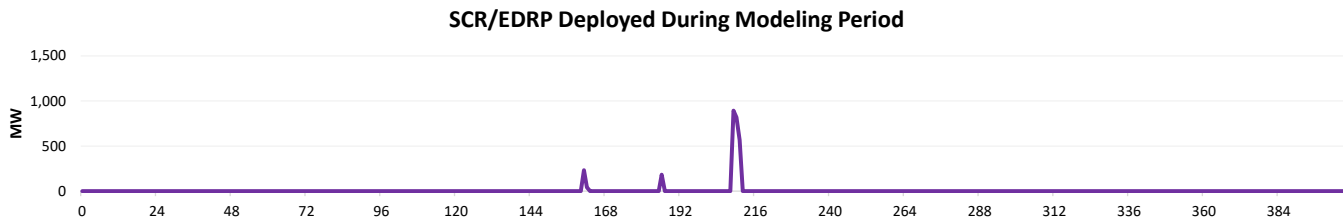
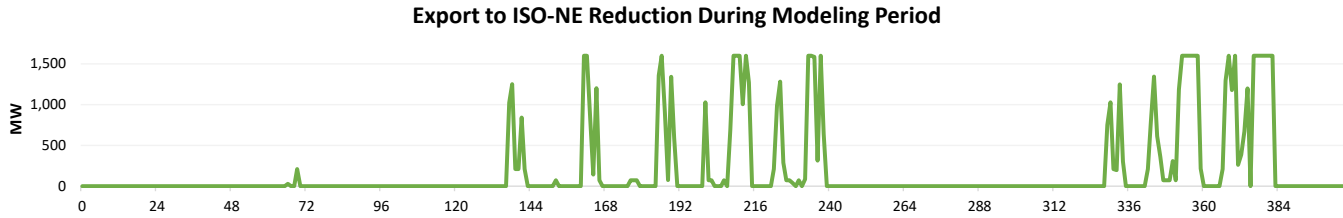
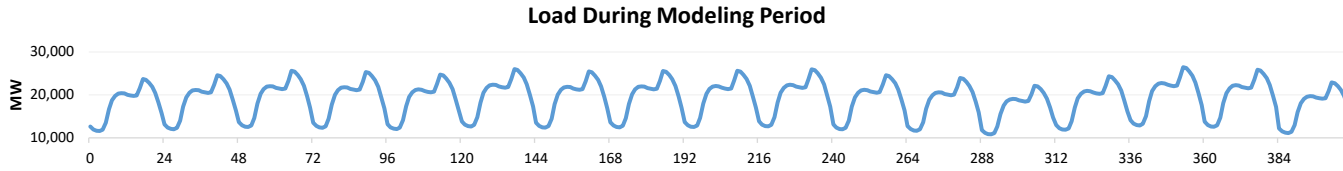
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 6 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	90
Total MWh	74,937
Avg. MW	183.7

SCR Deployment	
Total Hrs.	6
Total MWh	2,736
Avg. MW	6.7

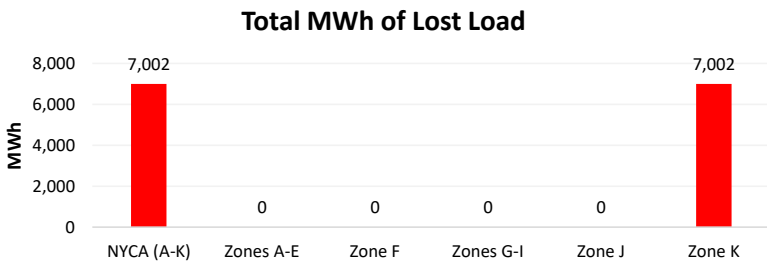
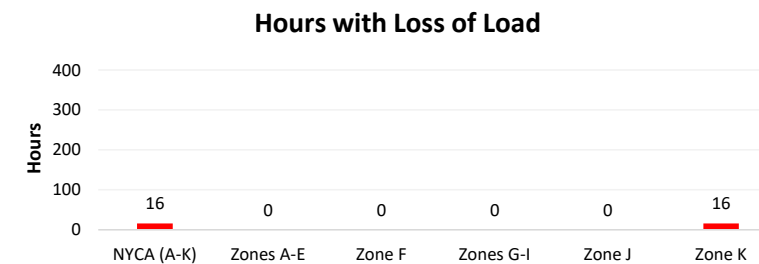
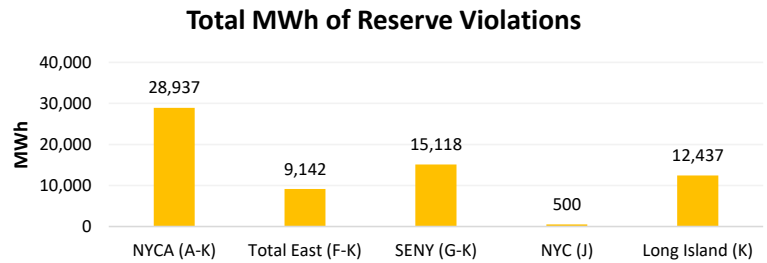
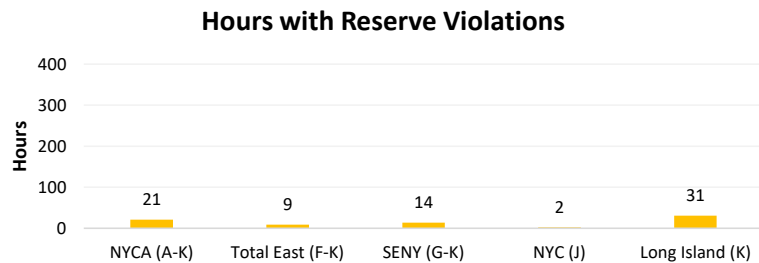
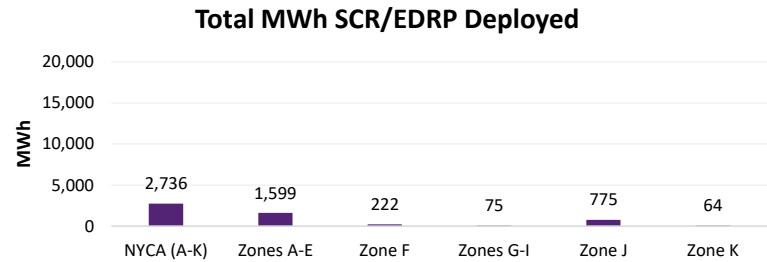
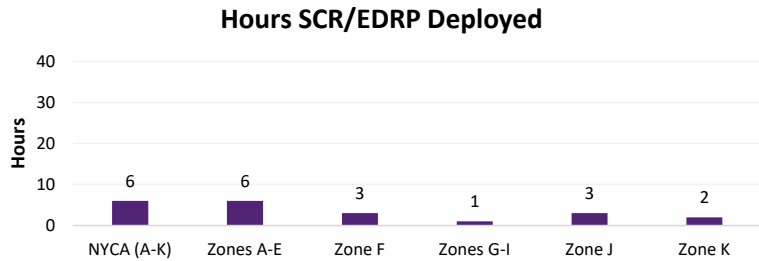
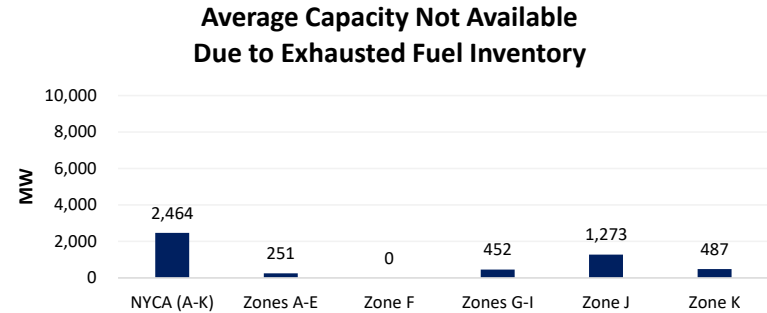
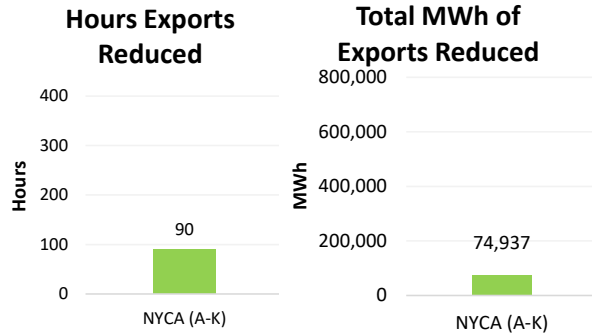
Reserve Violations	
Total Hrs.	21
Total MWh	28,937
Avg. MW	70.9
First Hour with Viol.	209
First Hour, Zone K	209

Loss of Load	
Total Hrs.	16
Total MWh	7,002
Avg. MW	17.2
First Hour with Losses	353
First Hour, Zone K	353

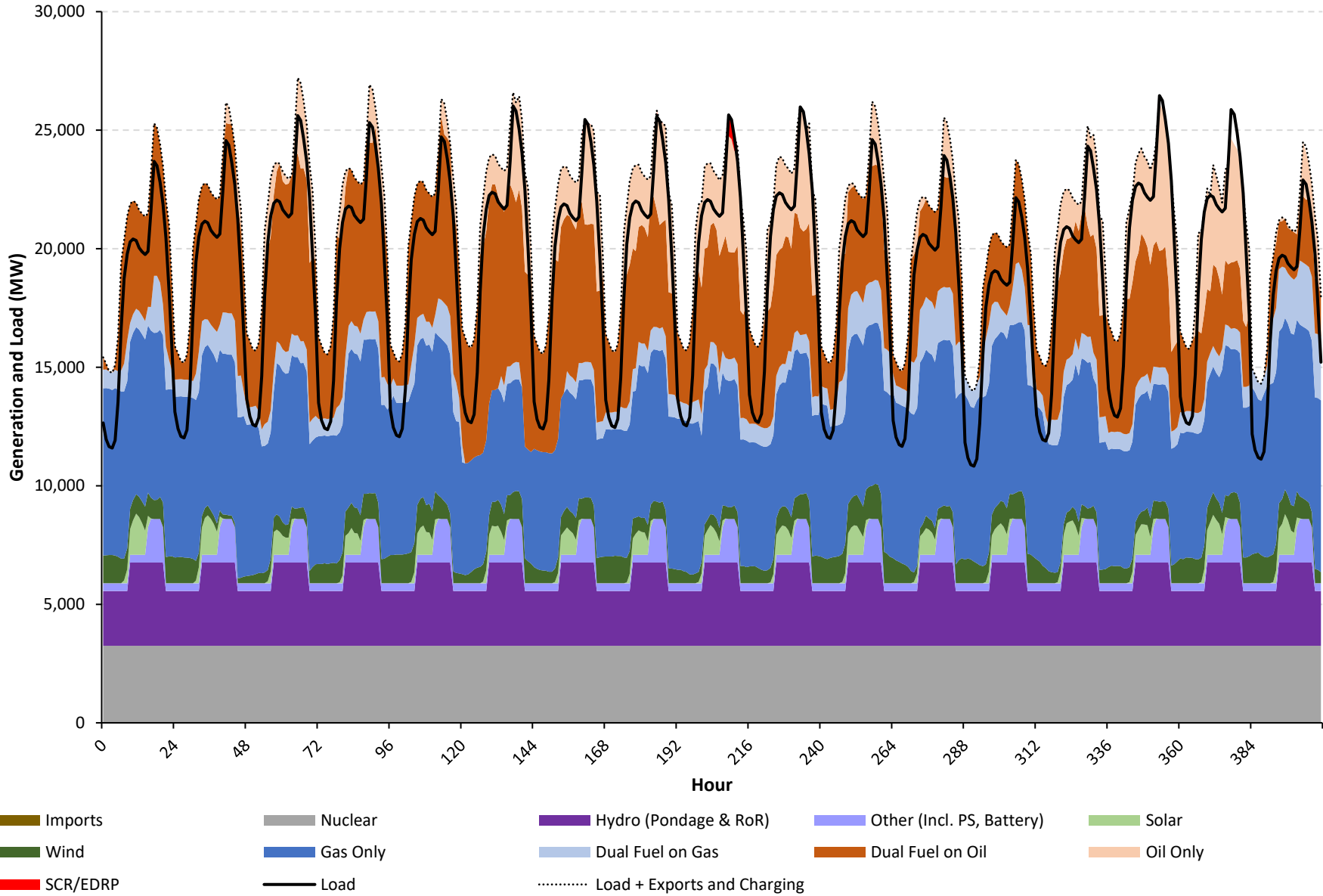
Full Period Results Summary

Case Name: Scenario 6 - PD 6 No Barge Refill

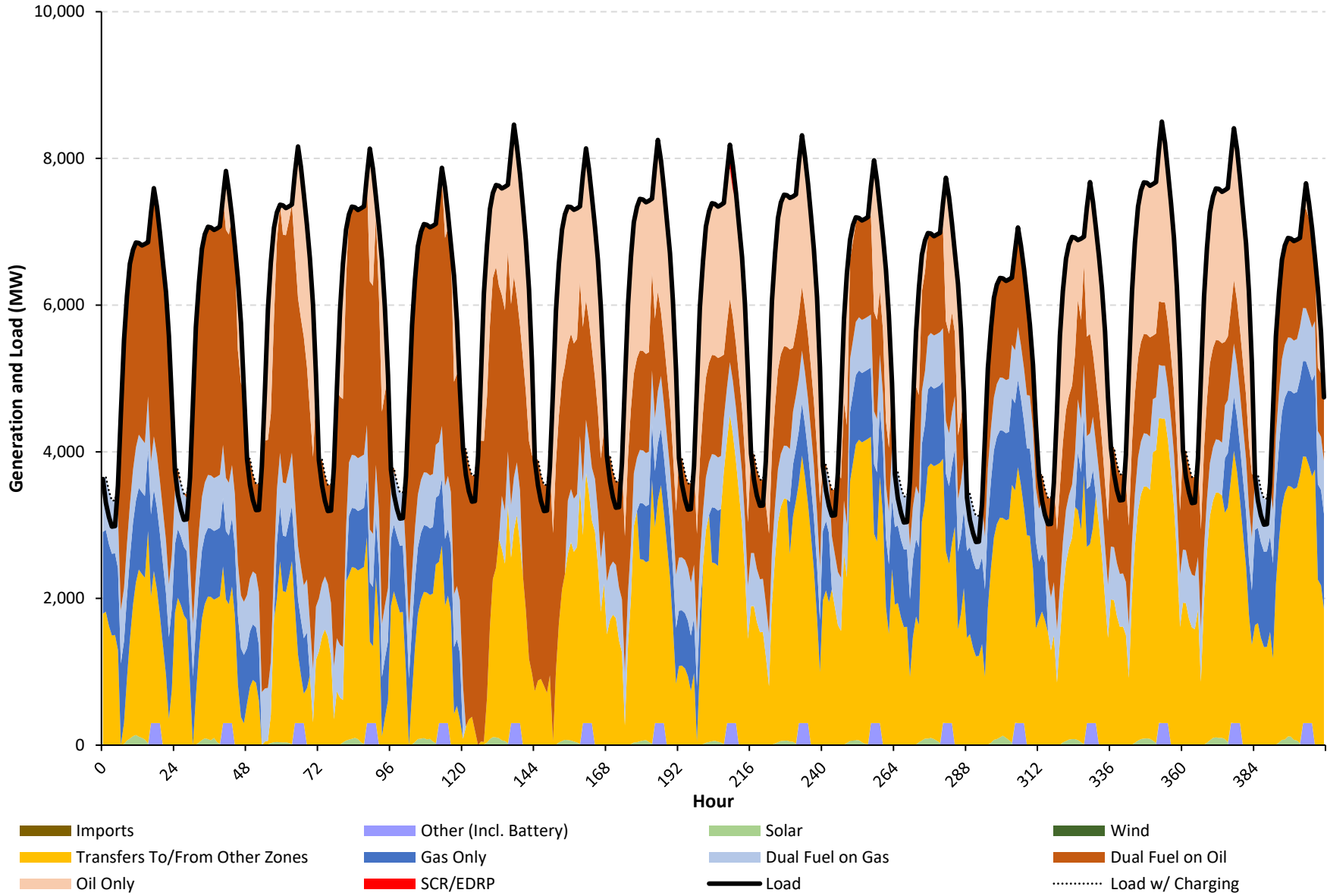
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



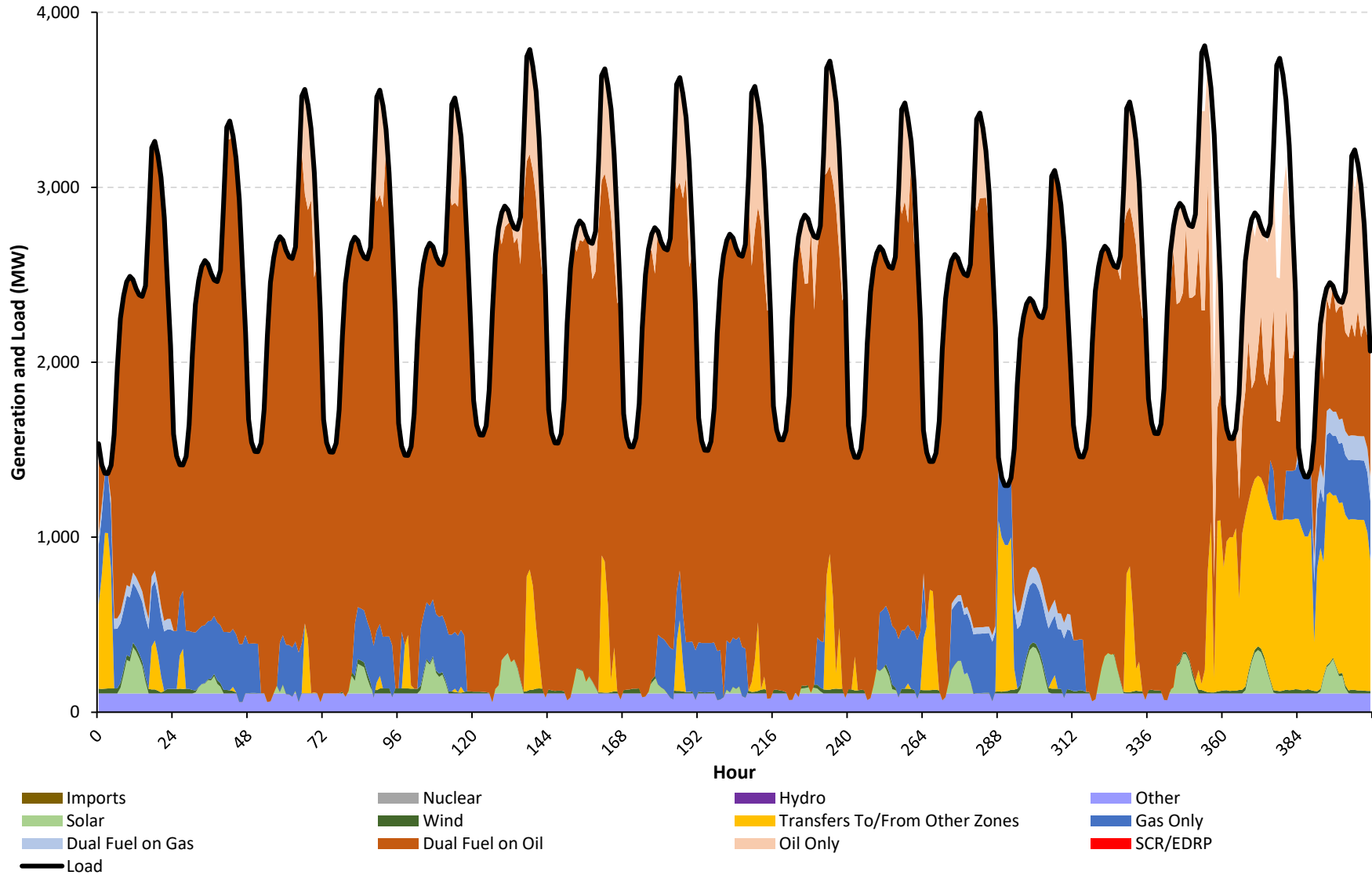
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 6 No Barge Refill



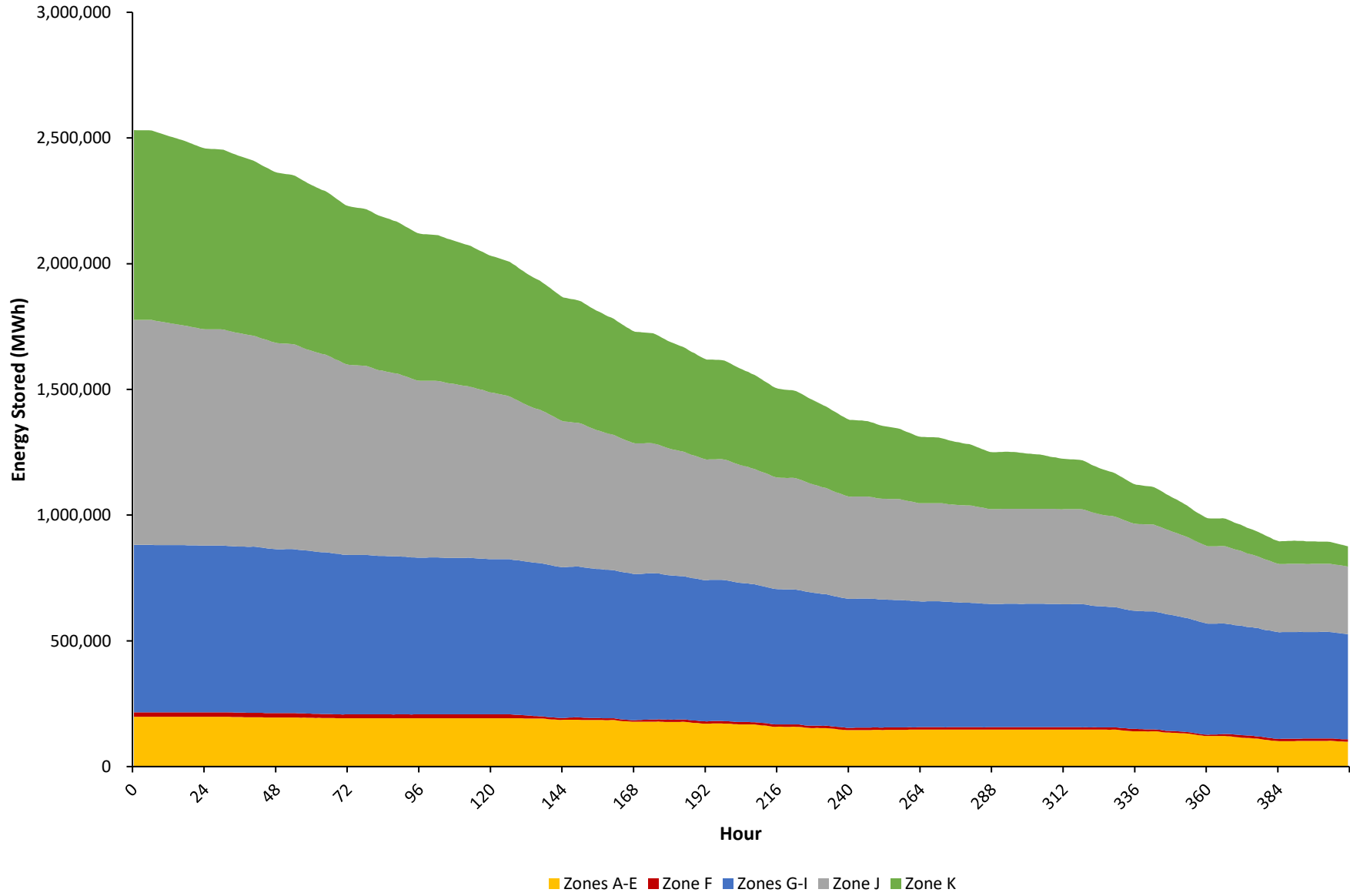
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 6 No Barge Refill

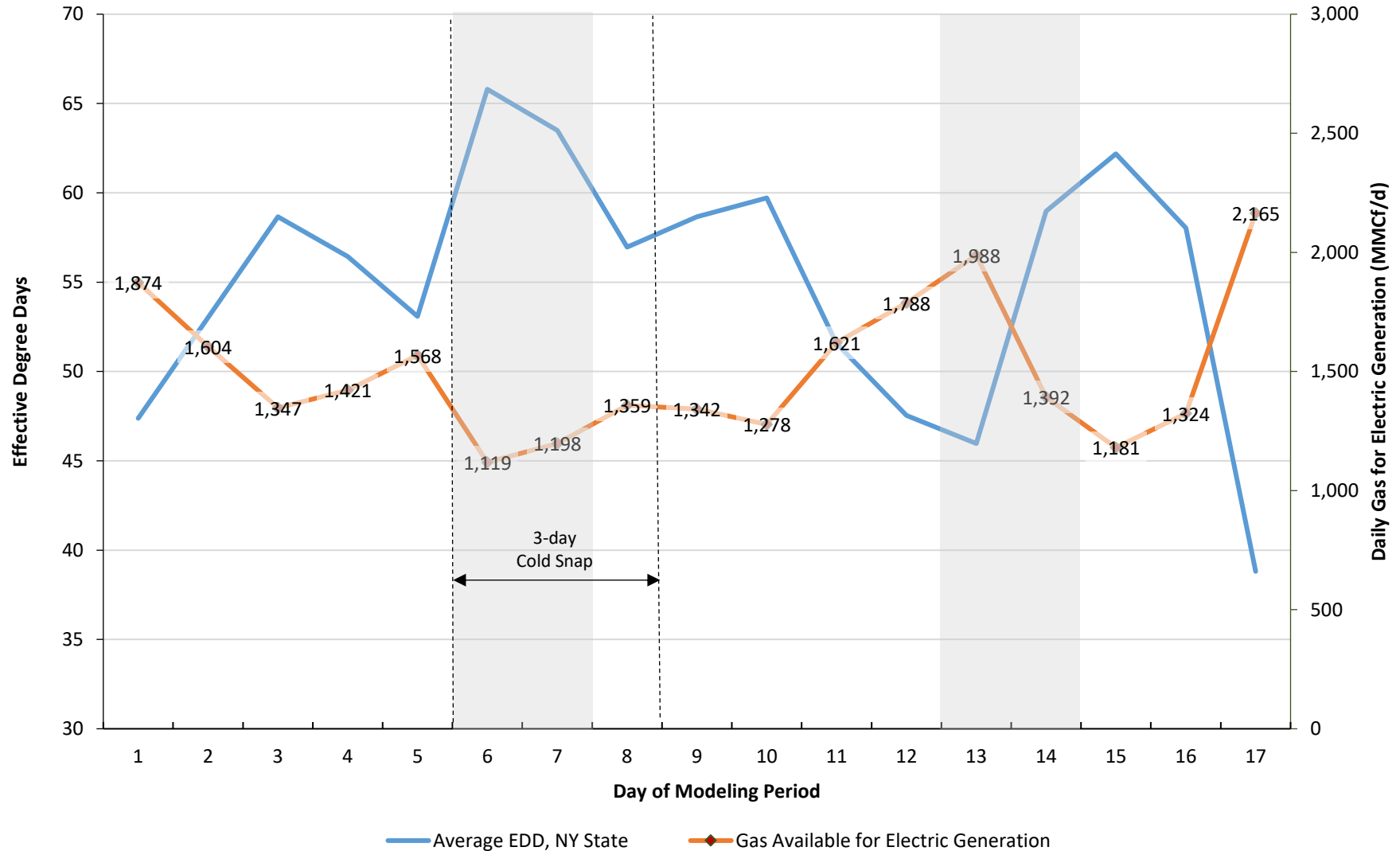


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

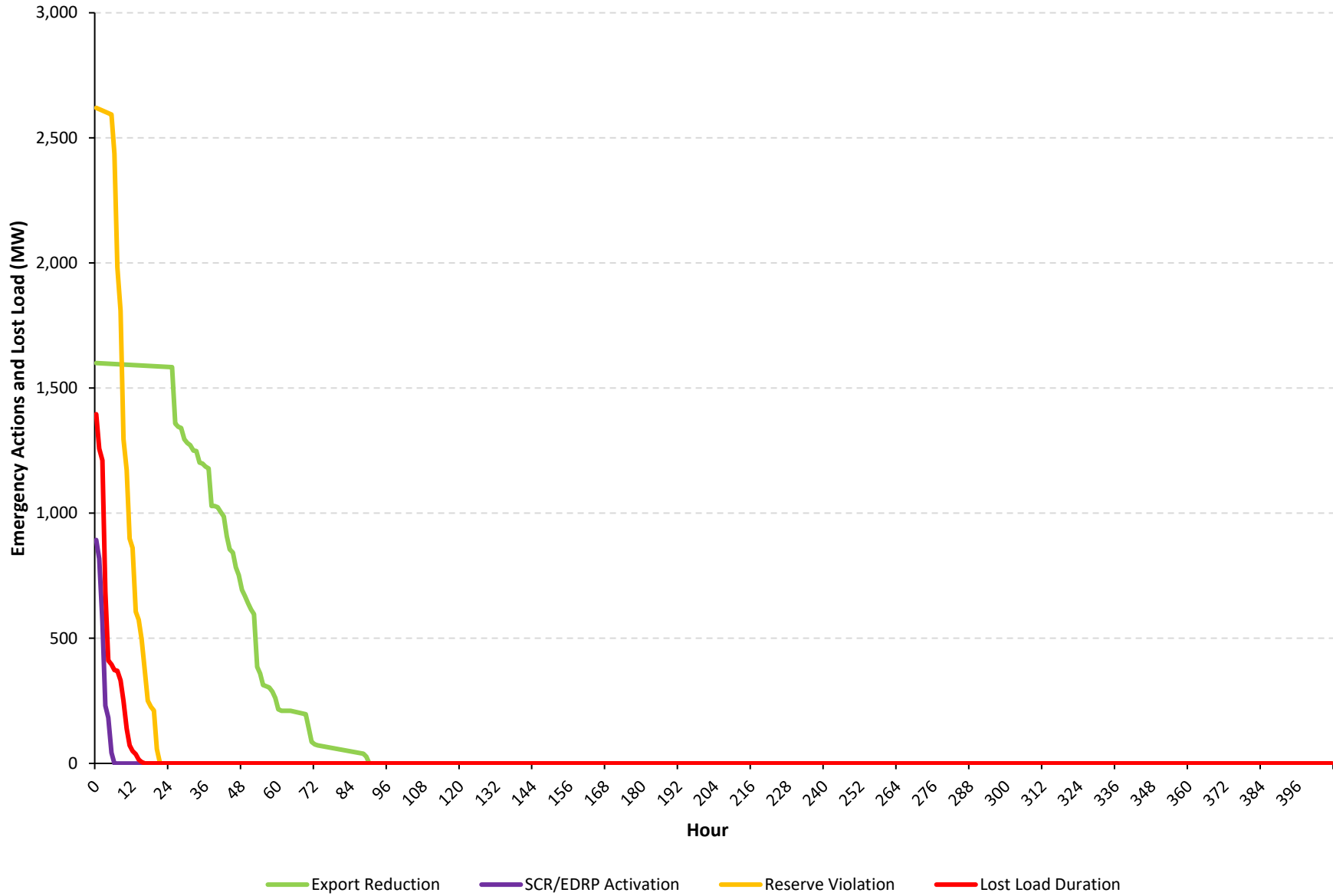
Scenario 6 - PD 6 No Barge Refill



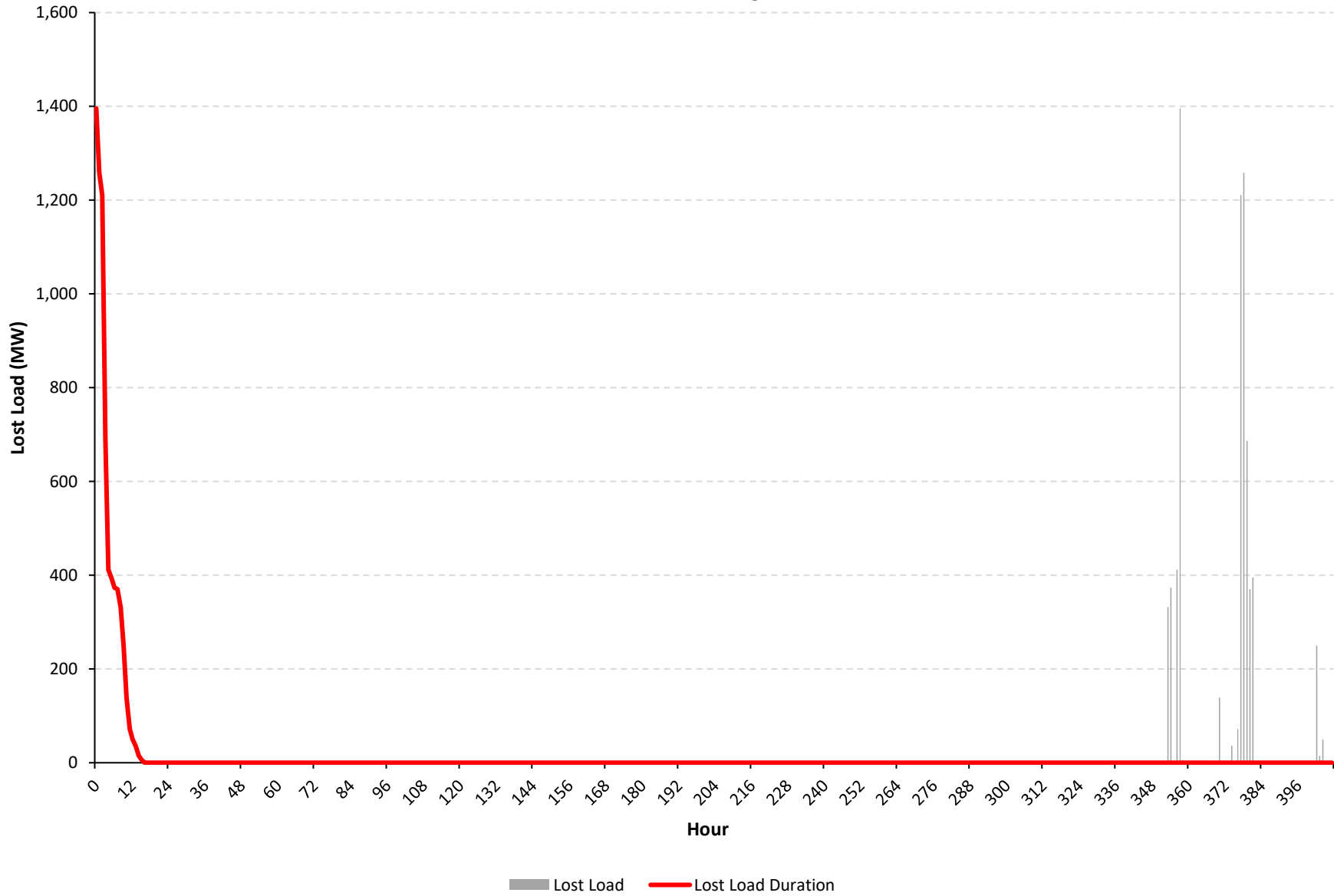
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 6 No Barge Refill



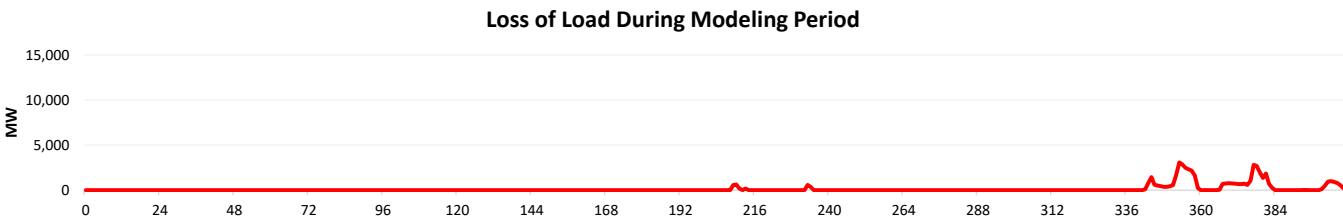
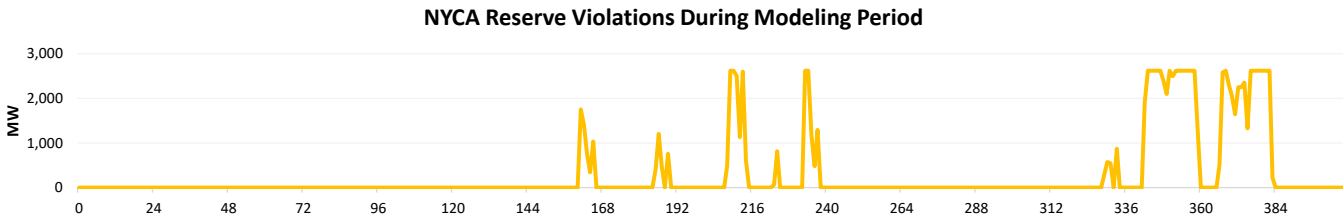
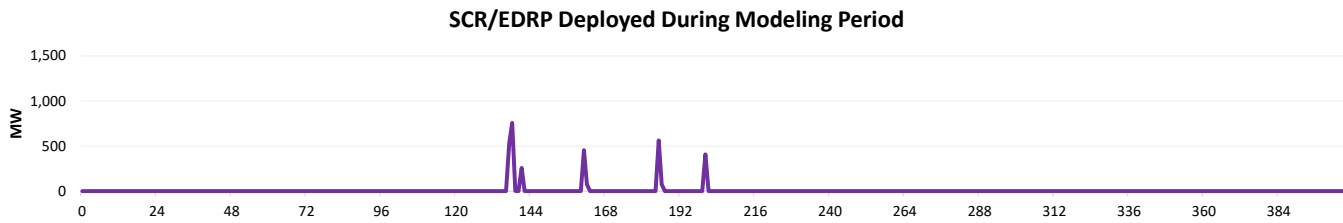
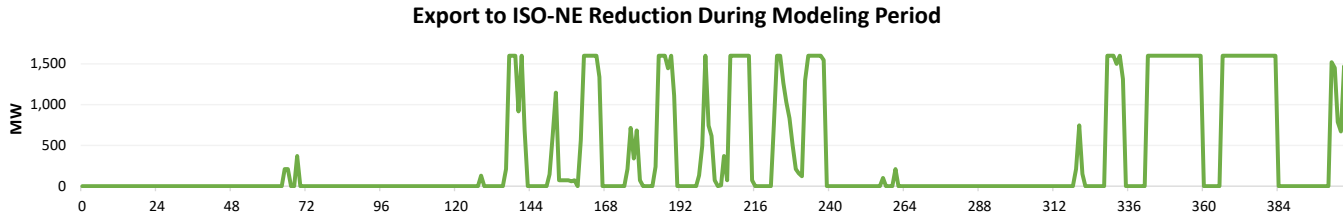
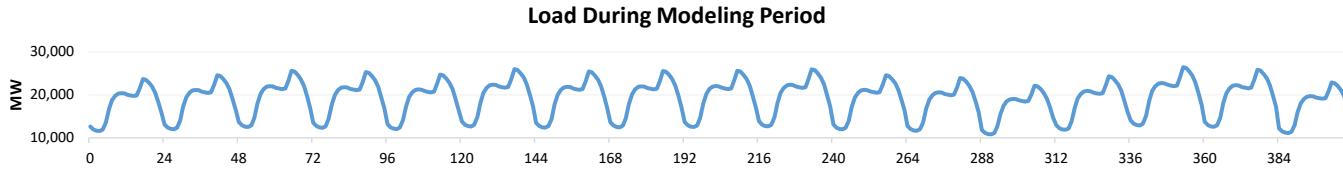
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 6 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	126
Total MWh	141,169
Avg. MW	346.0

SCR Deployment	
Total Hrs.	9
Total MWh	3,118
Avg. MW	7.6

Reserve Violations	
Total Hrs.	63
Total MWh	114,673
Avg. MW	281.1
First Hour with Viol.	137
First Hour, Zone K	137

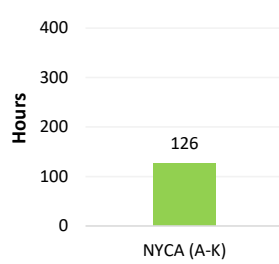
Loss of Load	
Total Hrs.	52
Total MWh	48,619
Avg. MW	119.2
First Hour with Losses	209
First Hour, Zone K	209

Full Period Results Summary

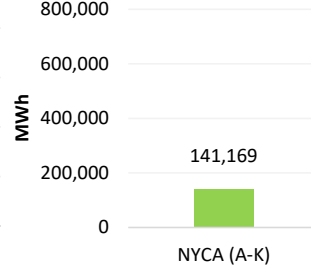
Case Name: Scenario 6 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

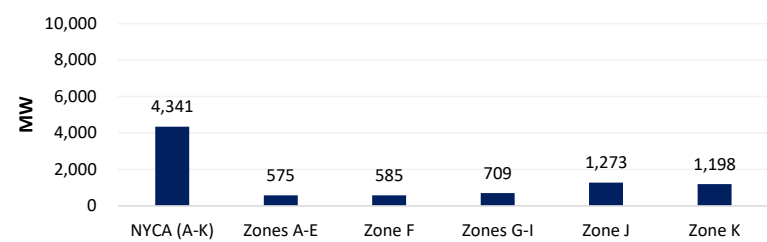
Hours Exports Reduced



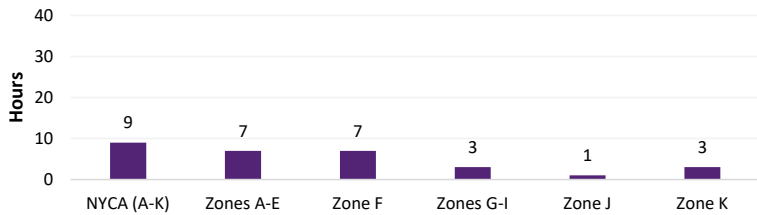
Total MWh of Exports Reduced



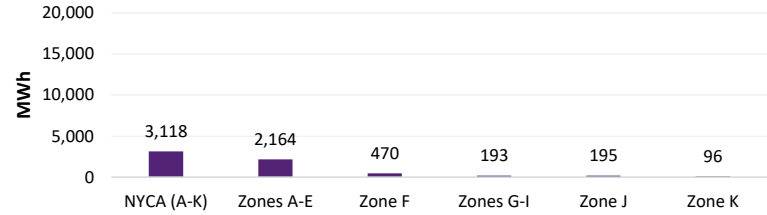
Average Capacity Not Available Due to Exhausted Fuel Inventory



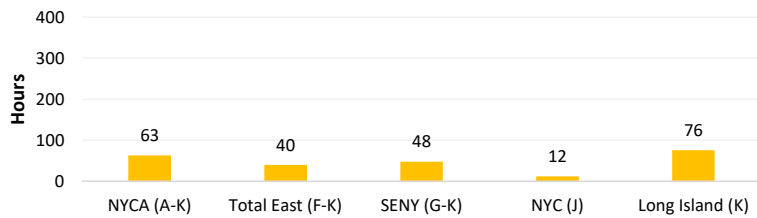
Hours SCR/EDRP Deployed



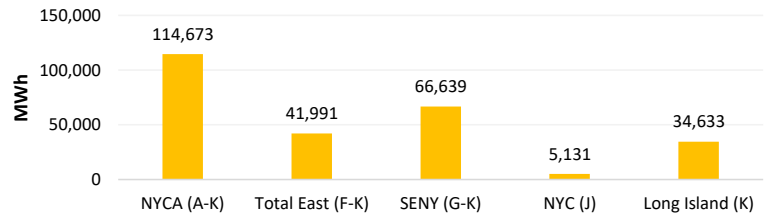
Total MWh SCR/EDRP Deployed



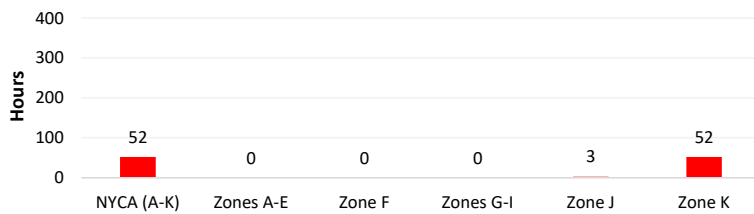
Hours with Reserve Violations



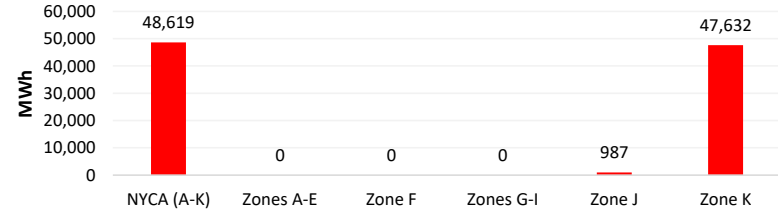
Total MWh of Reserve Violations



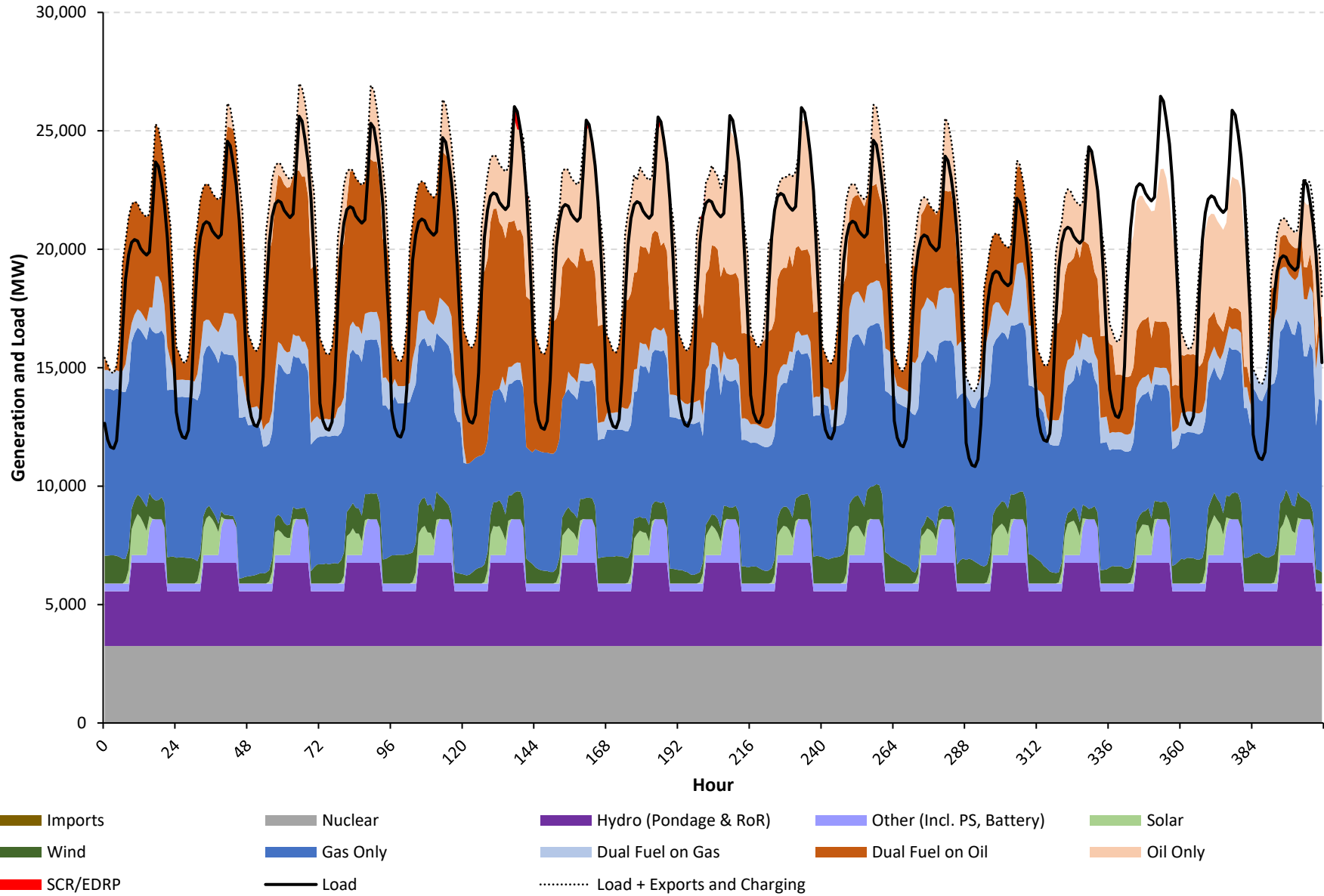
Hours with Loss of Load



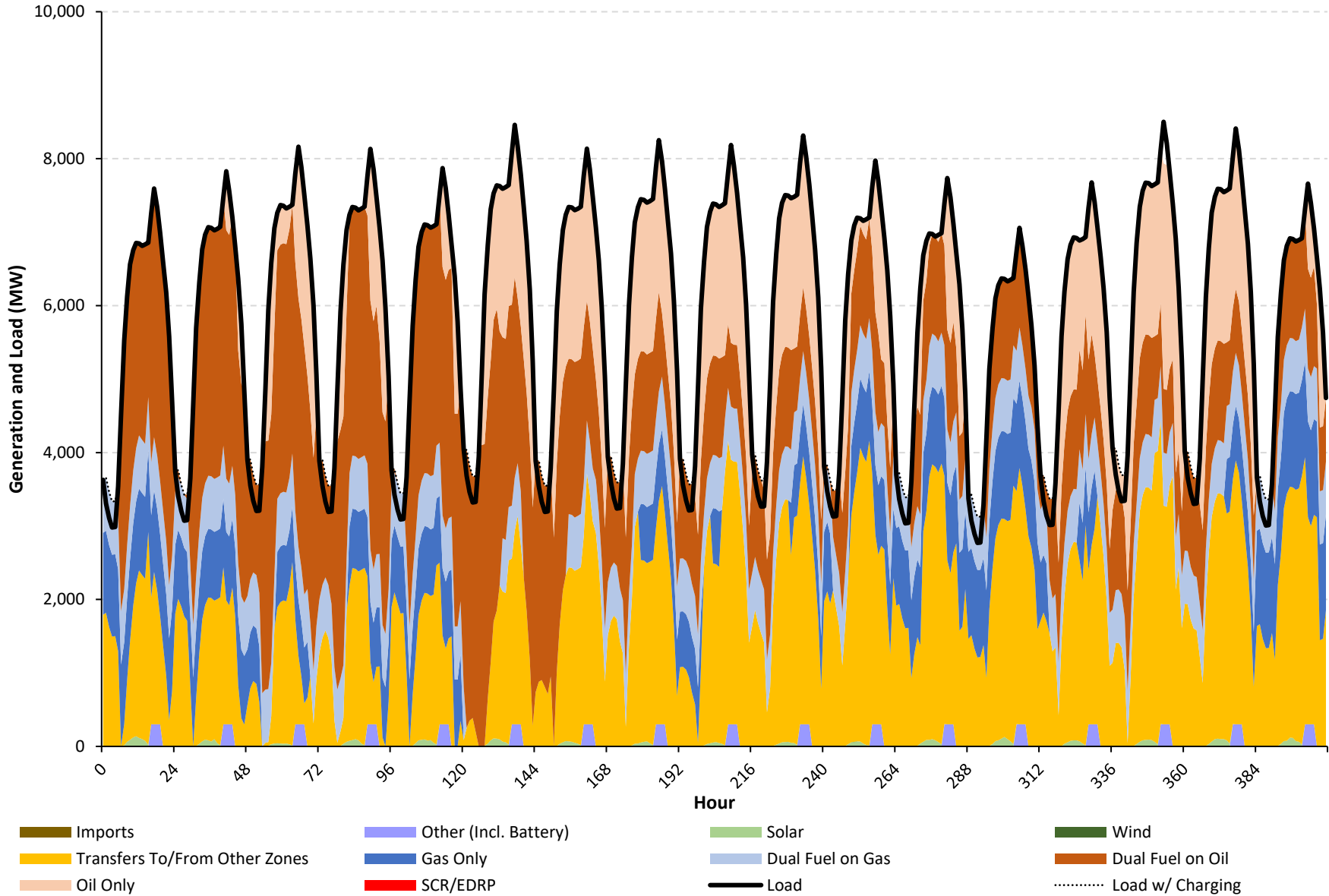
Total MWh of Lost Load



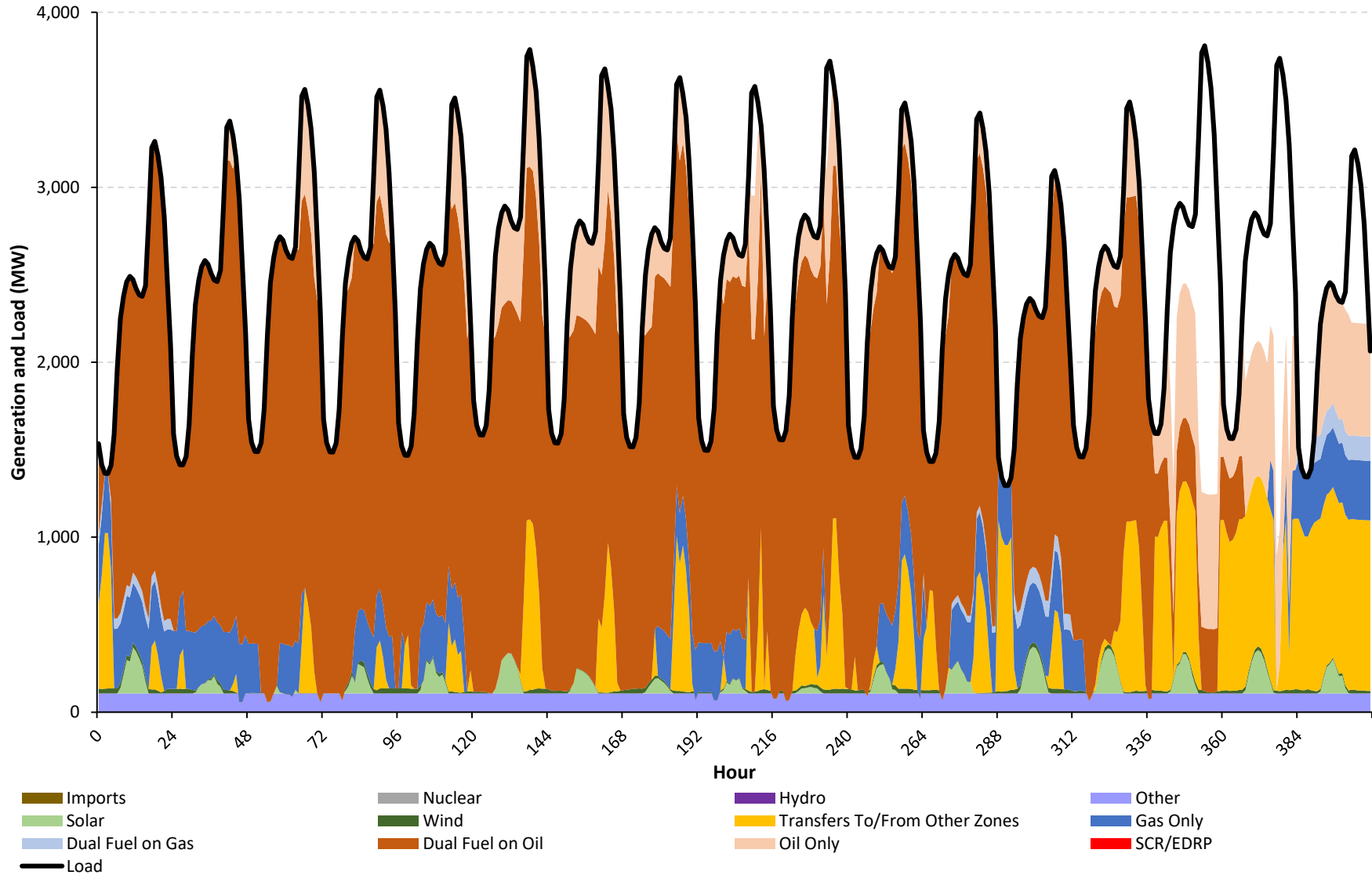
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 7 No Refill



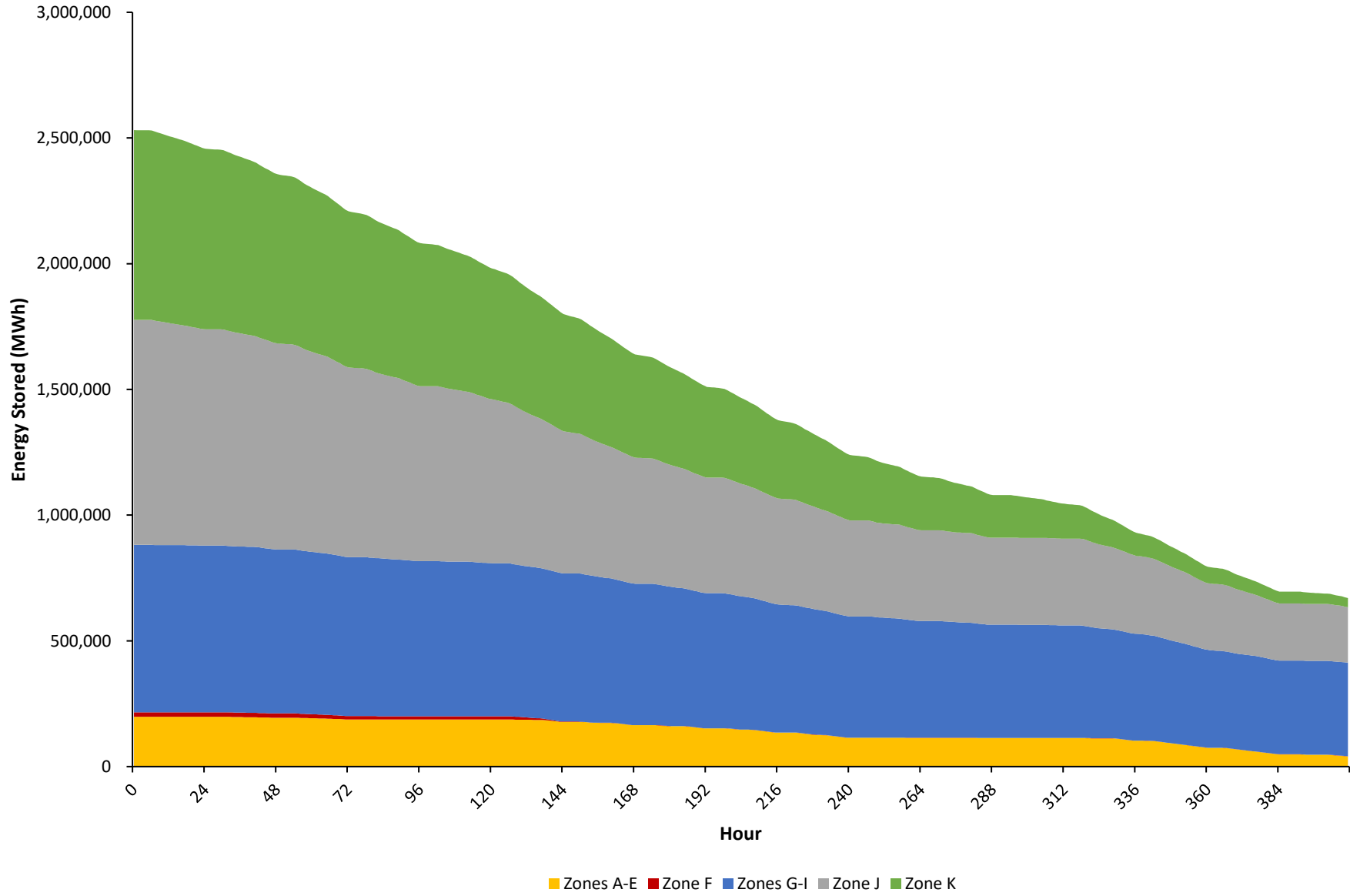
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 7 No Refill

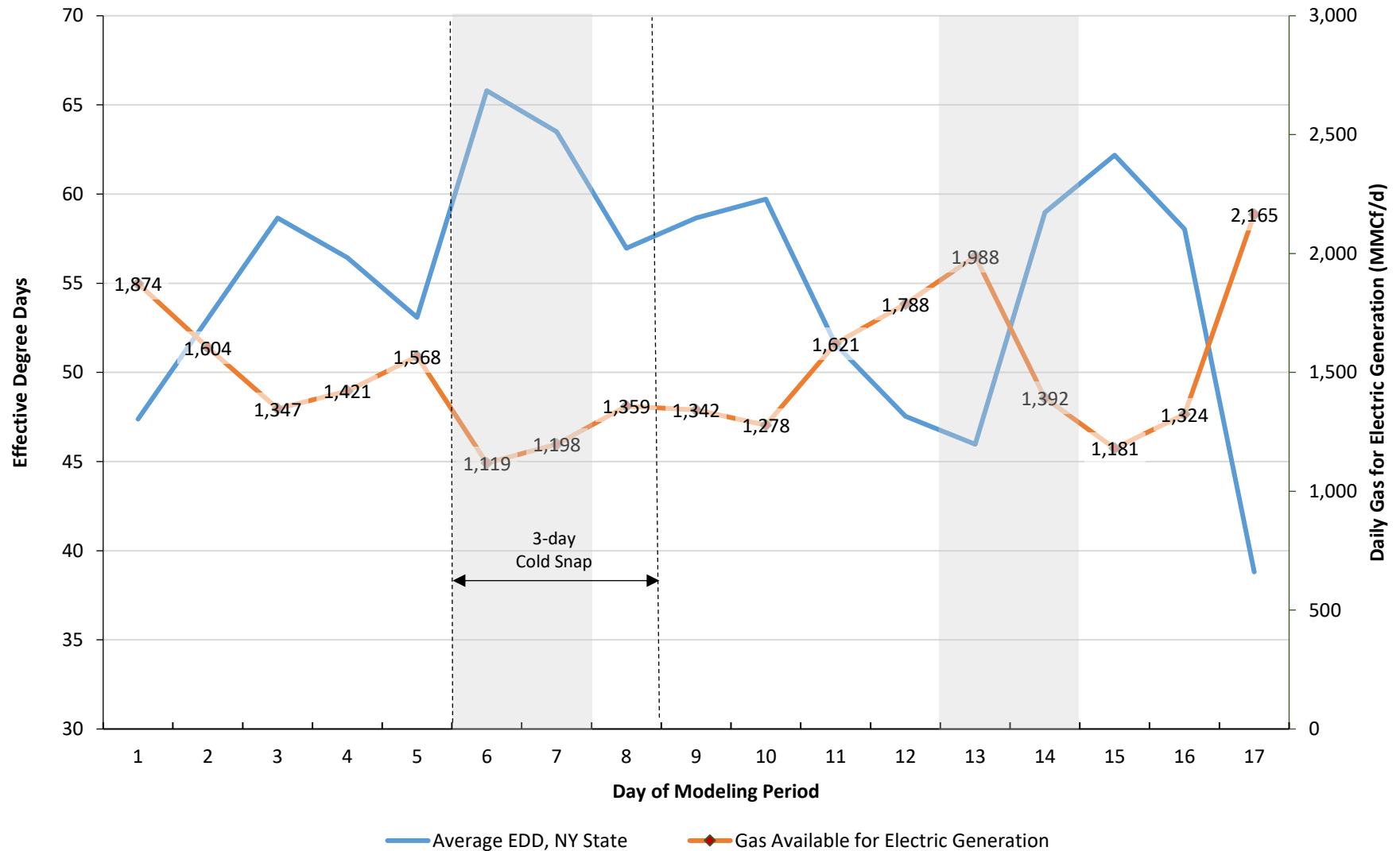


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

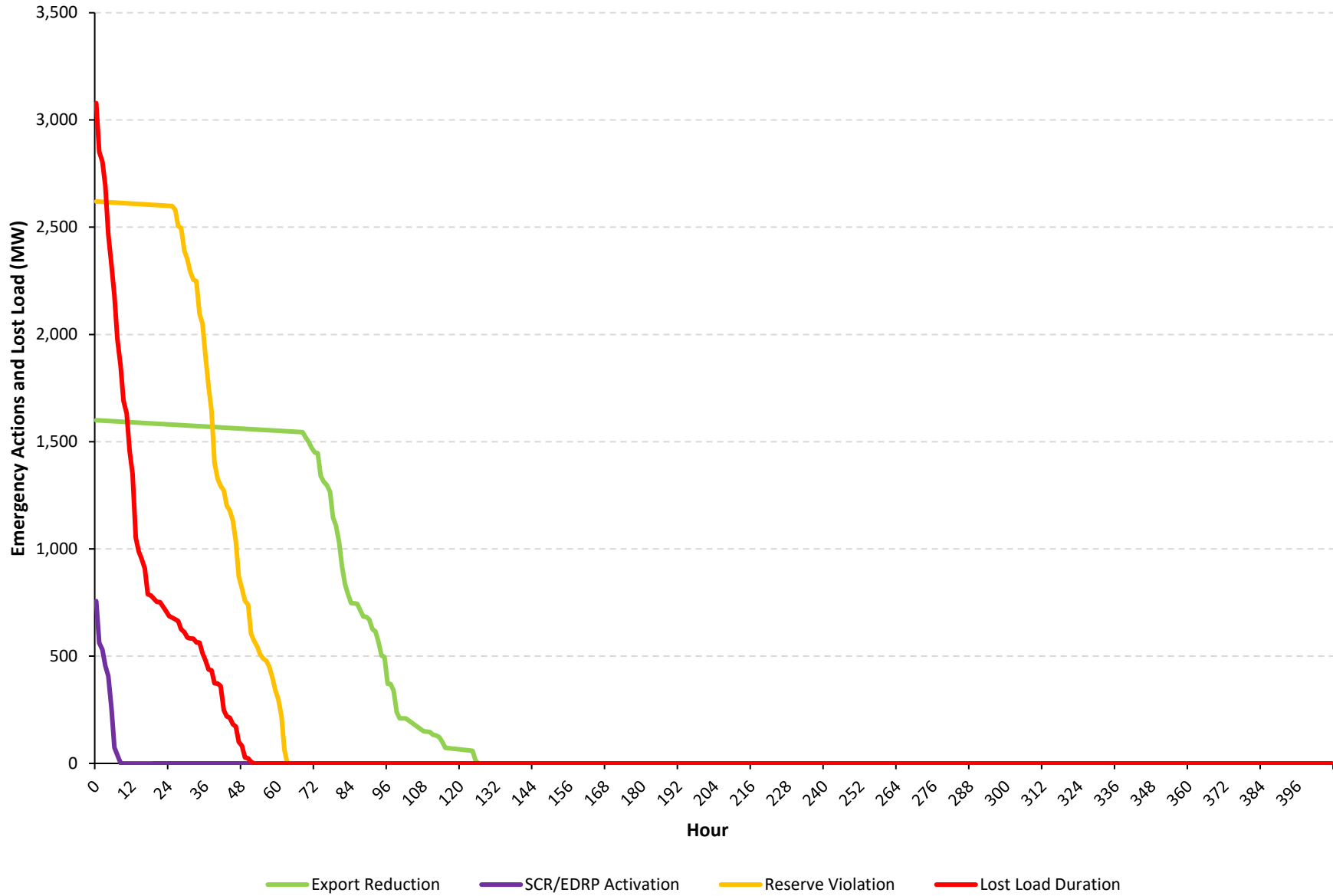
Scenario 6 - PD 7 No Refill



Notes:

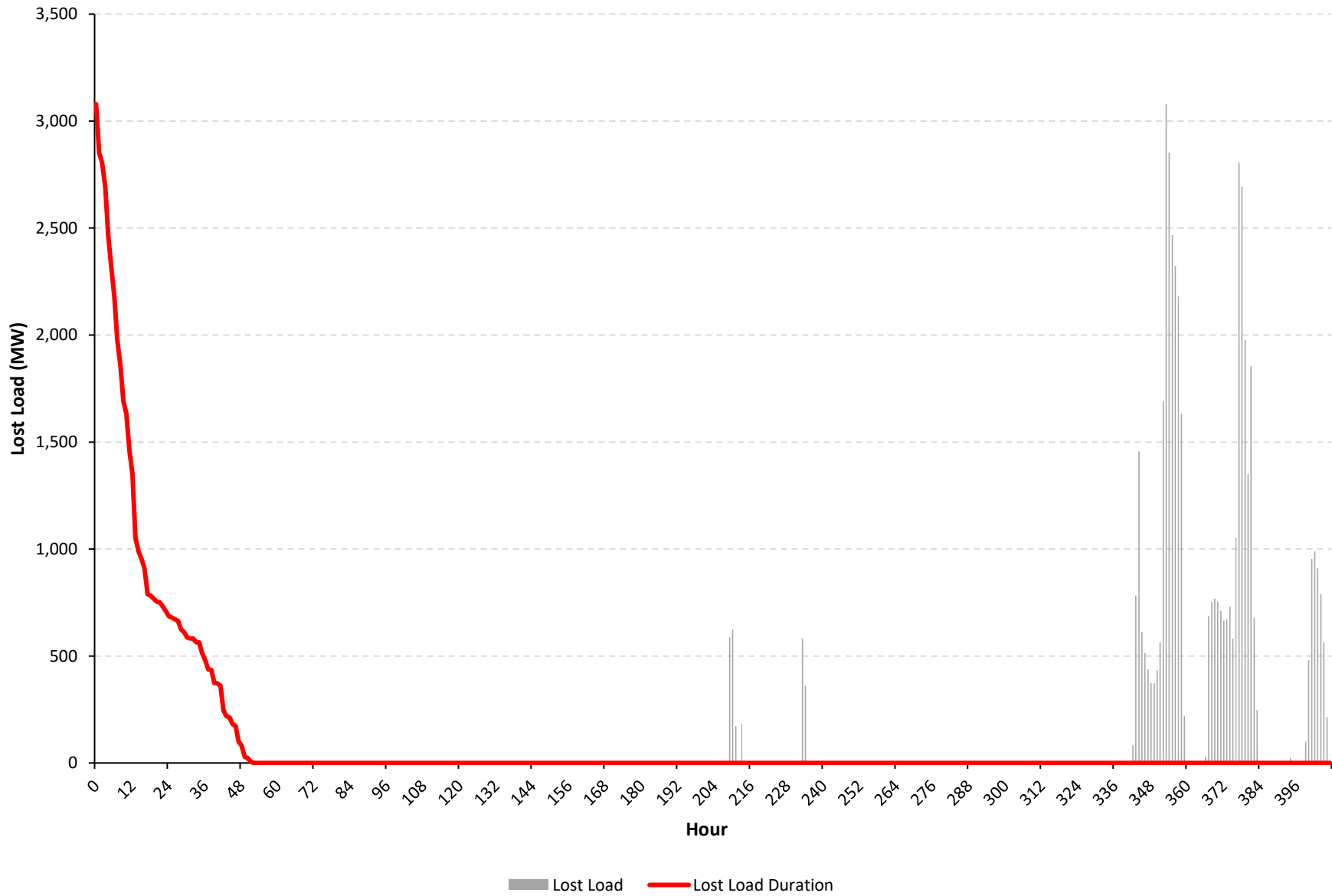
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 6 - PD 7 No Refill

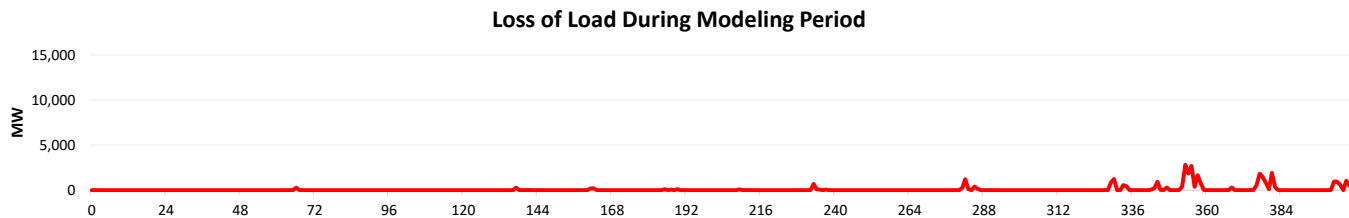
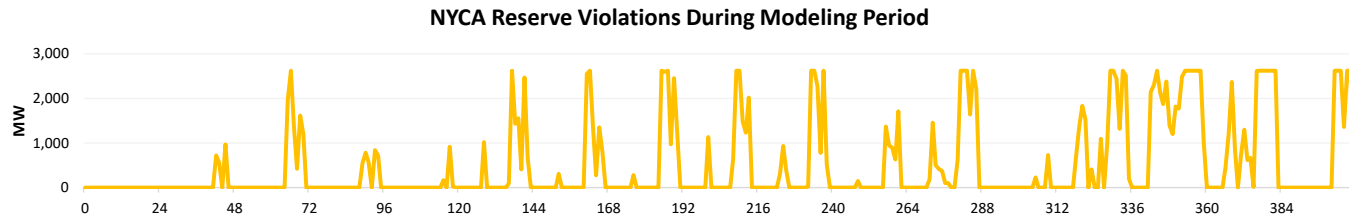
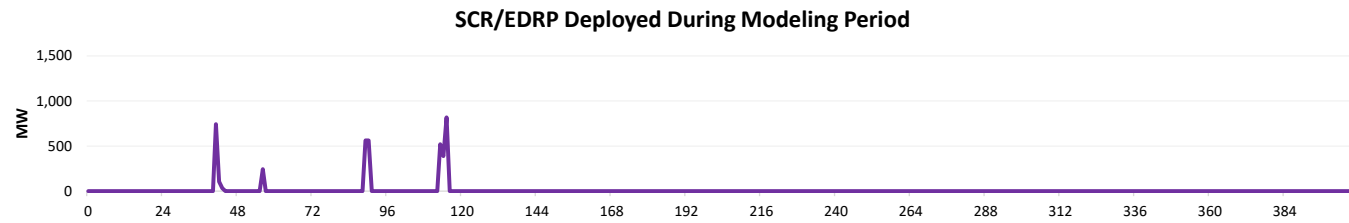
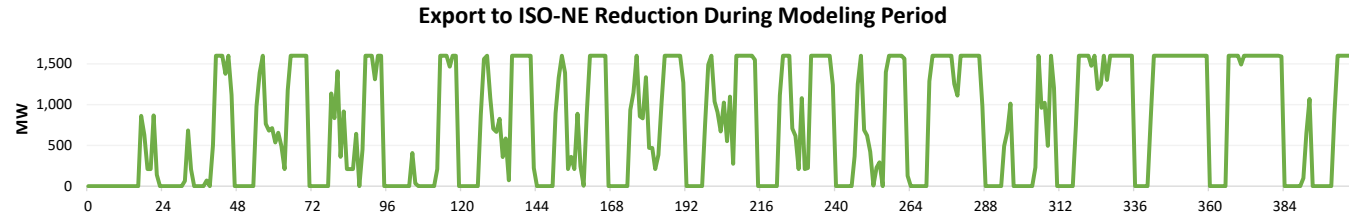
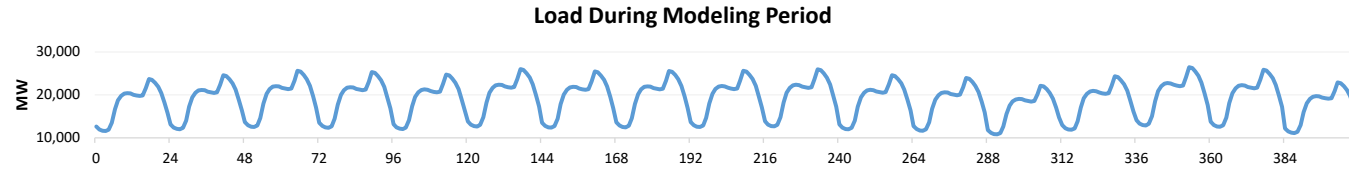


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	259
Total MWh	310,612
Avg. MW	761.3

SCR Deployment	
Total Hrs.	9
Total MWh	3,976
Avg. MW	9.7

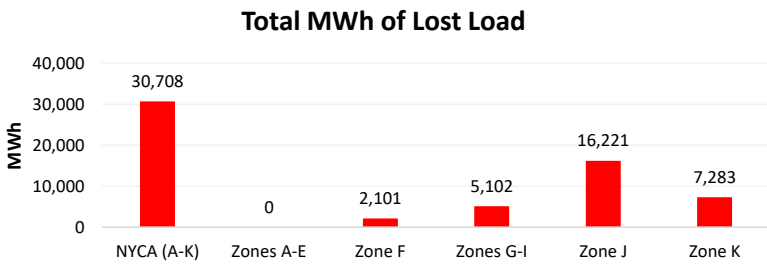
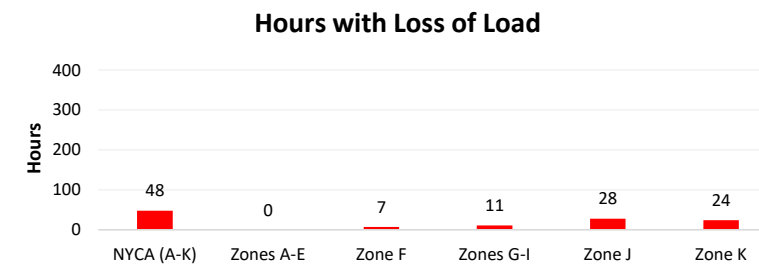
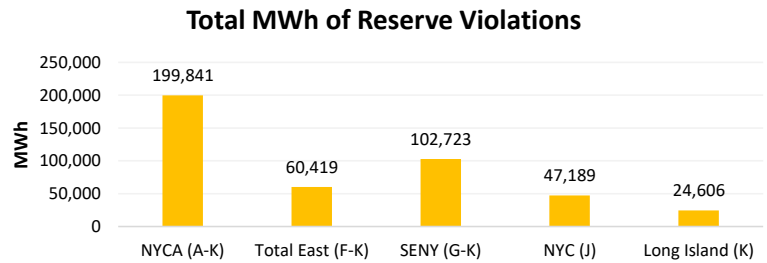
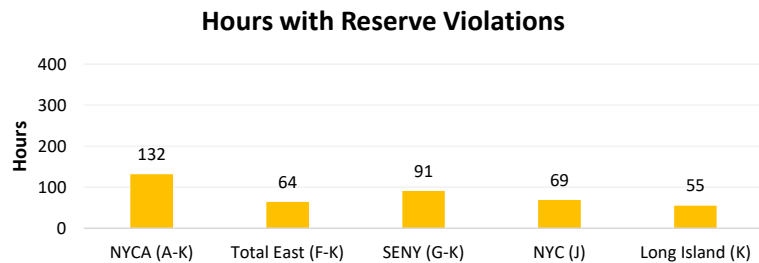
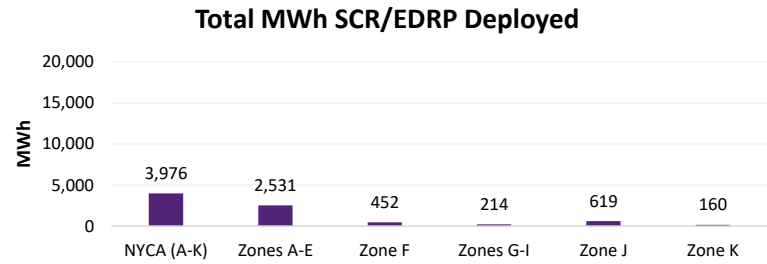
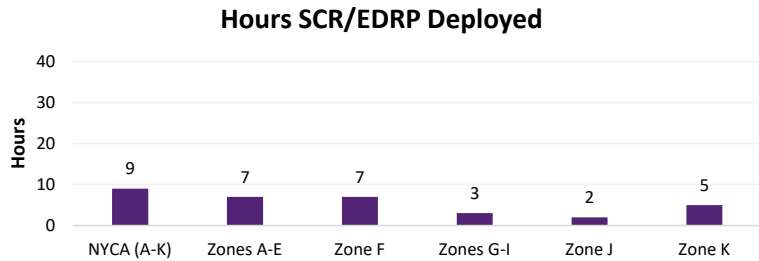
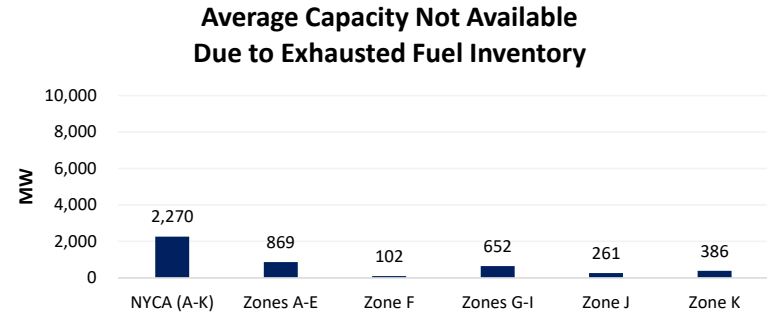
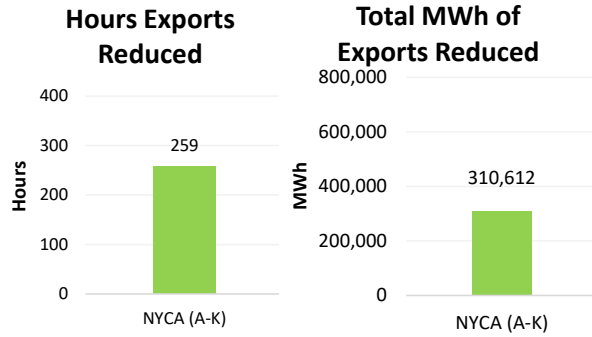
Reserve Violations	
Total Hrs.	132
Total MWh	199,841
Avg. MW	489.8
First Hour with Viol.	42
First Hour, Zone K	65

Loss of Load	
Total Hrs.	48
Total MWh	30,708
Avg. MW	75.3
First Hour with Losses	66
First Hour, Zone K	137

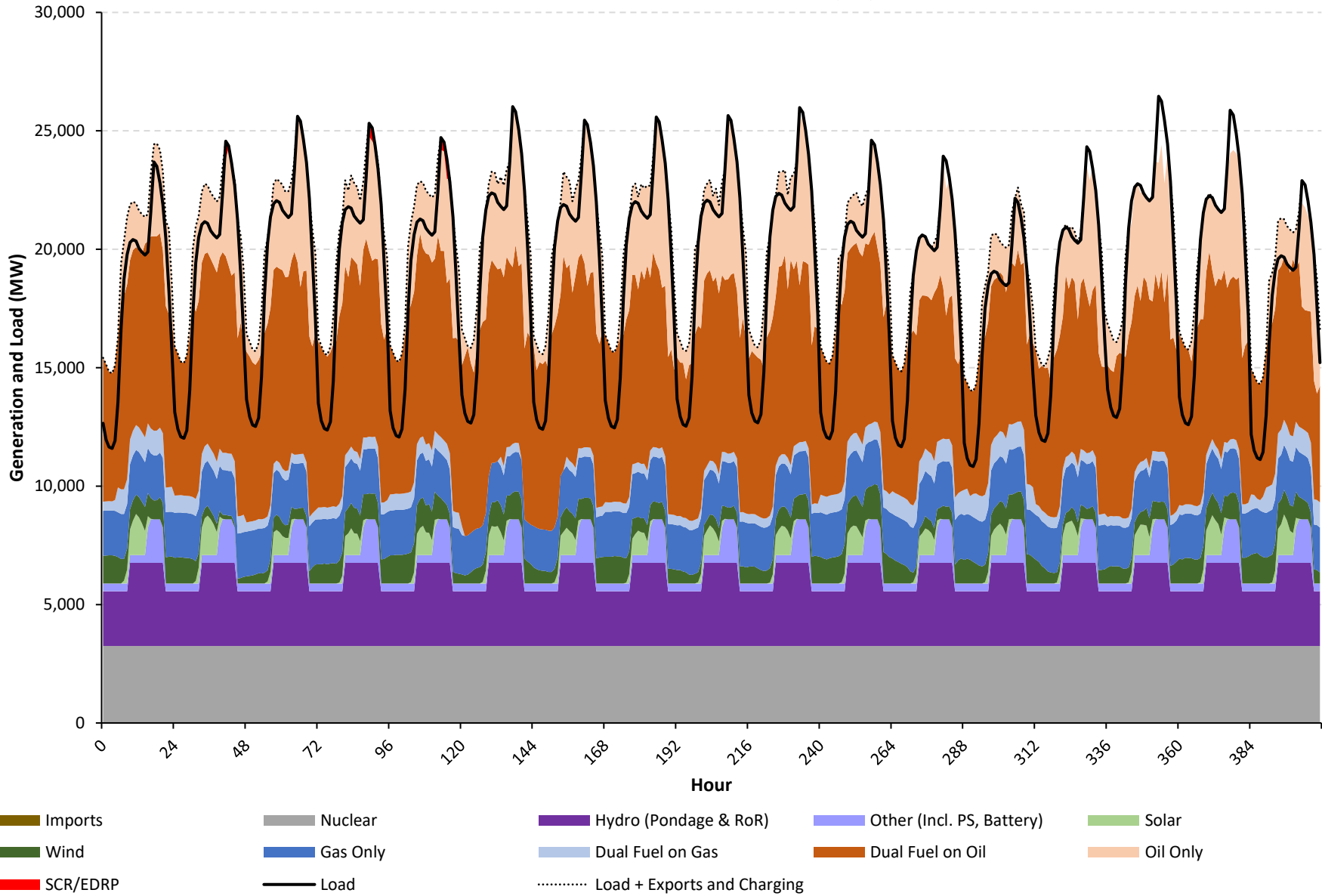
Full Period Results Summary

Case Name: Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)

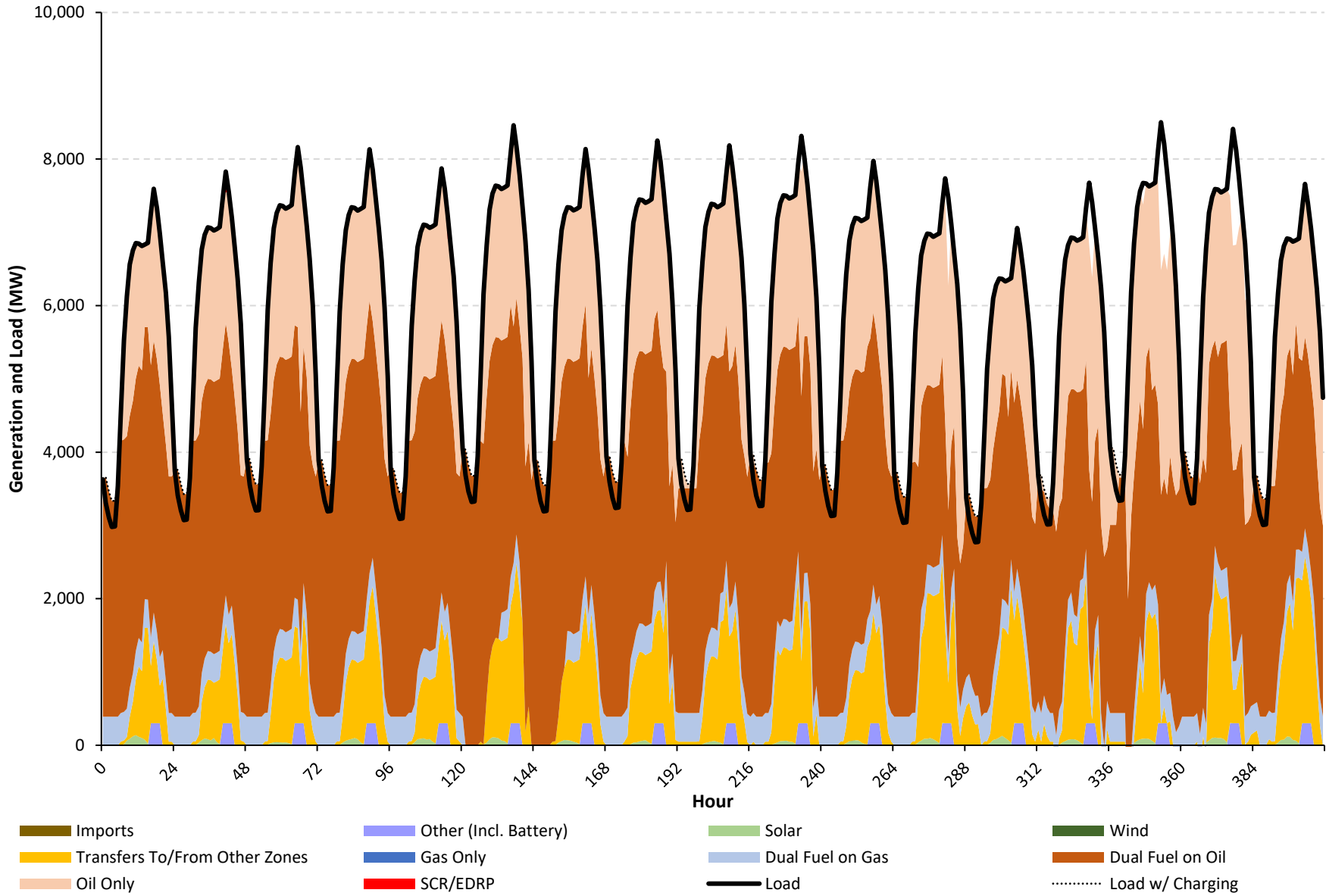
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



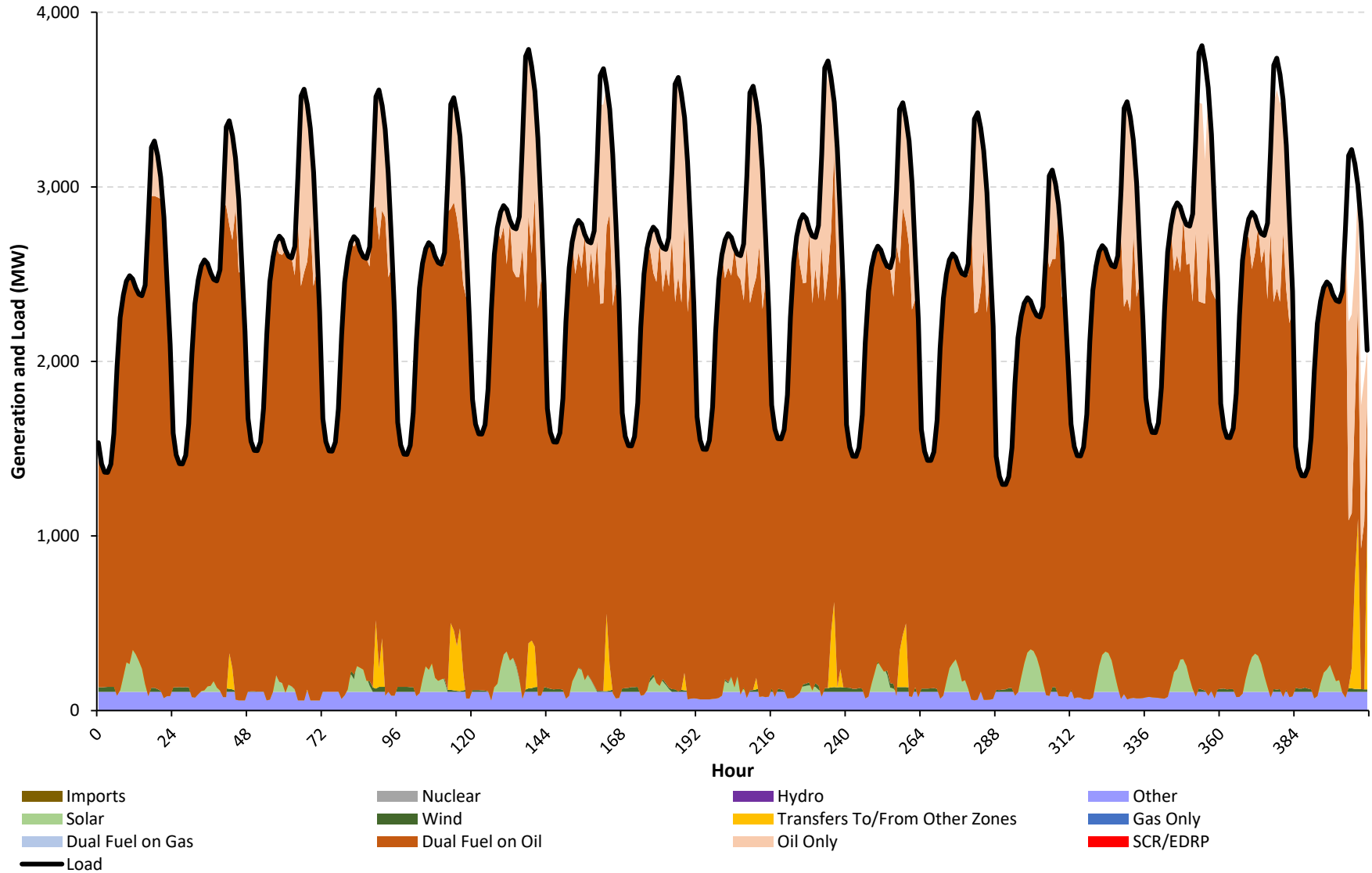
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



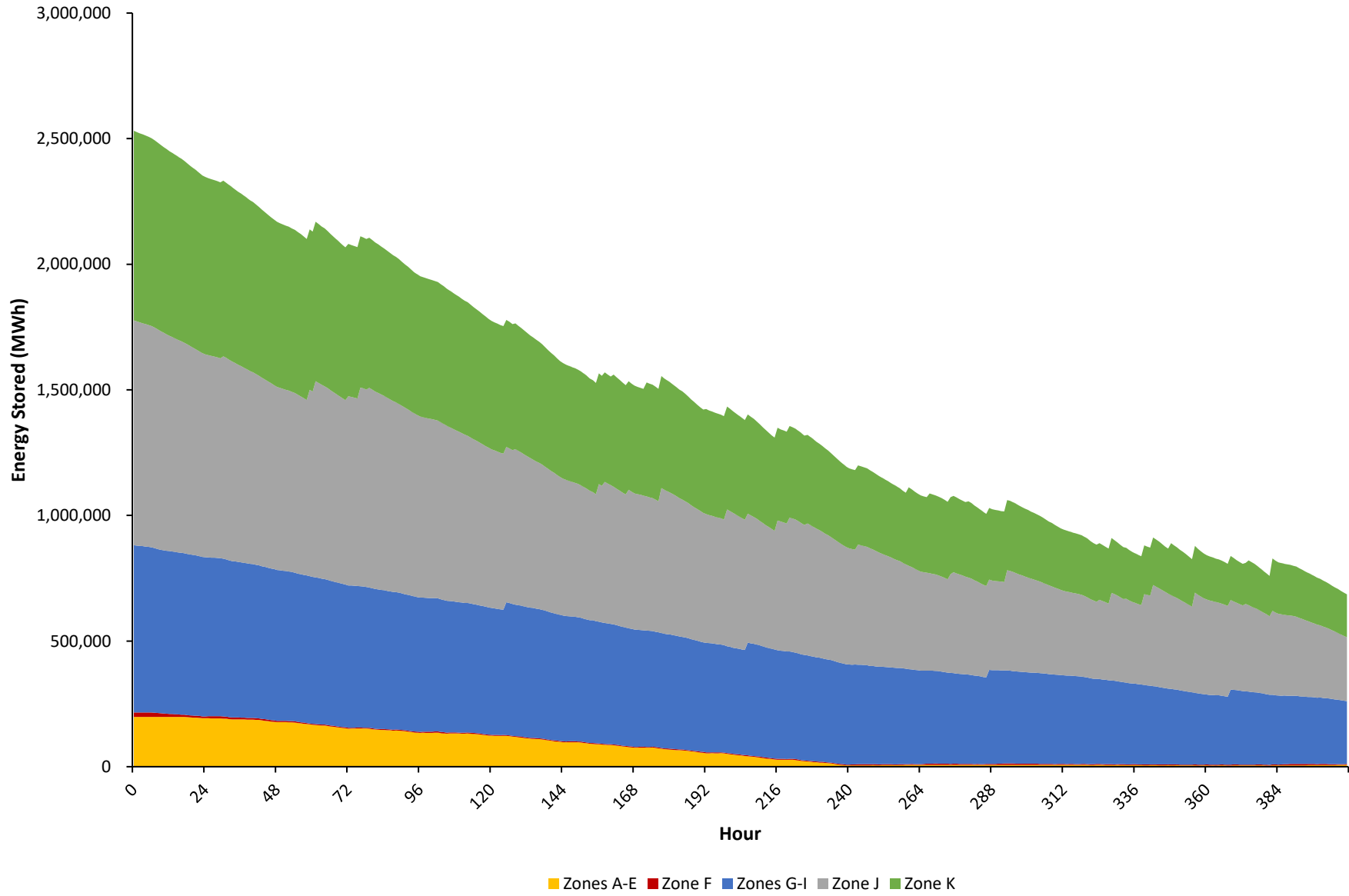
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)

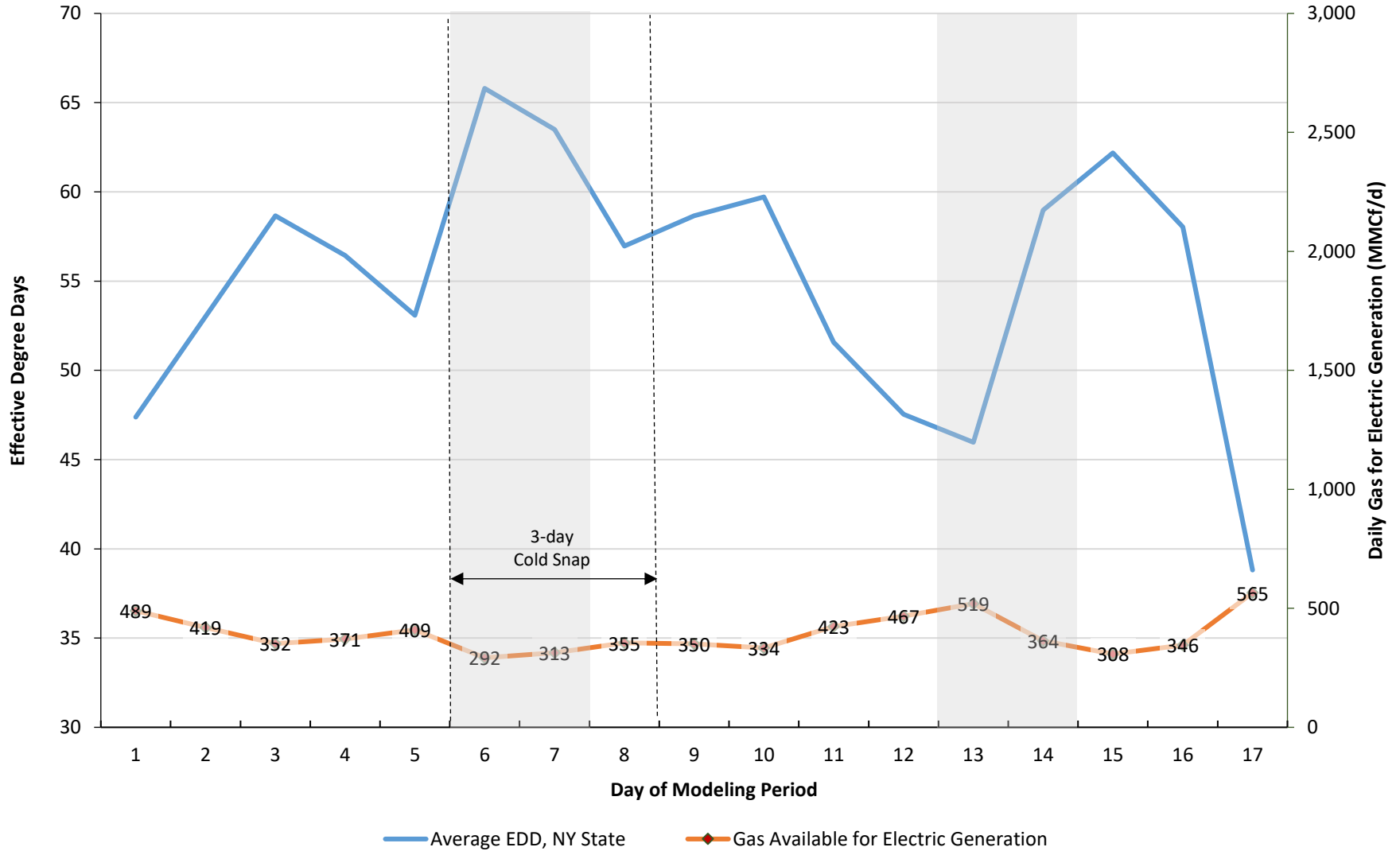


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

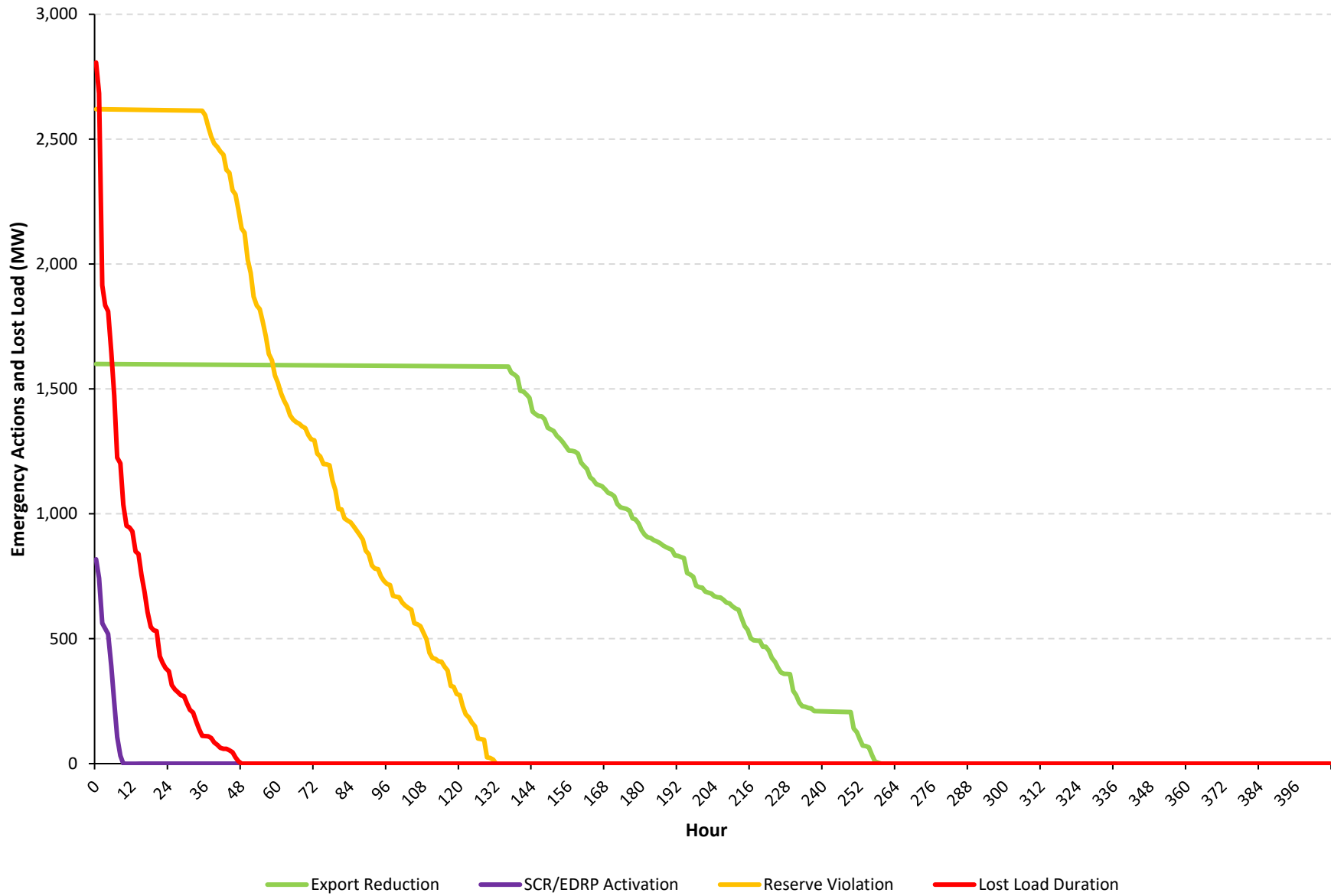
Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



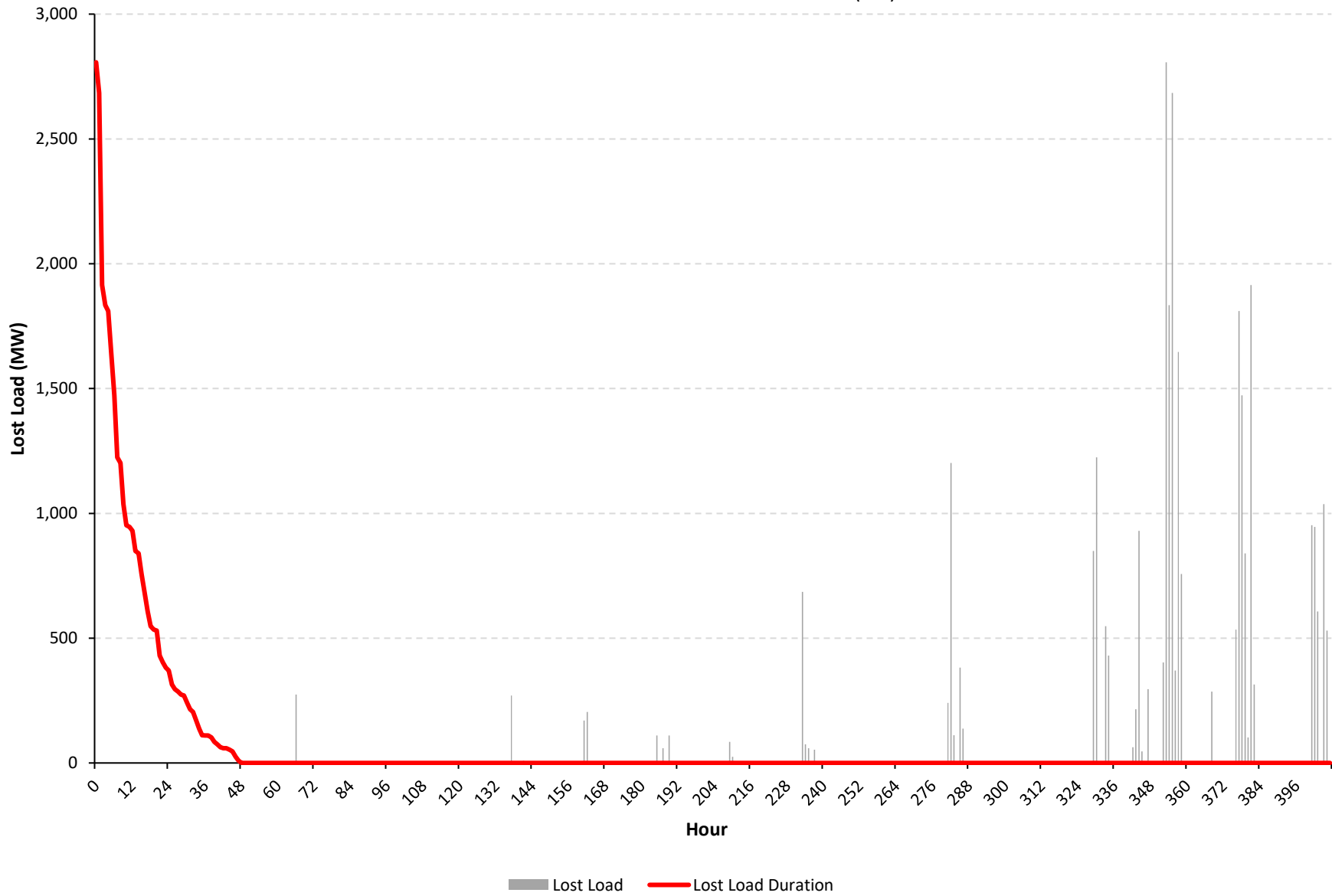
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 8 Non-Firm Gas Unavailable (F-K)

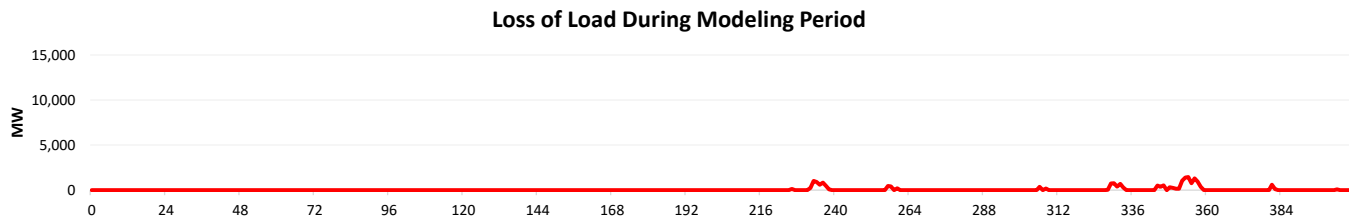
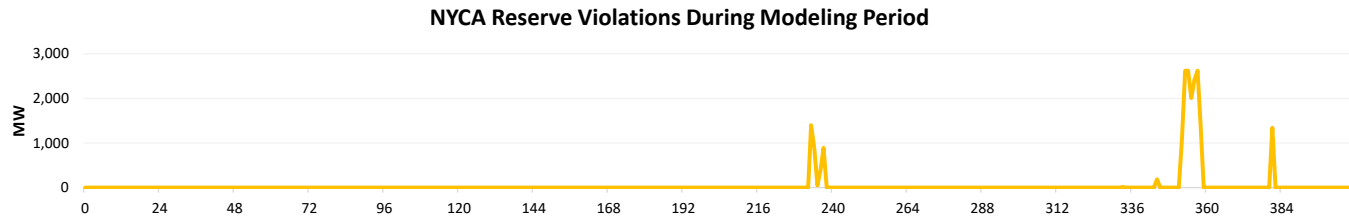
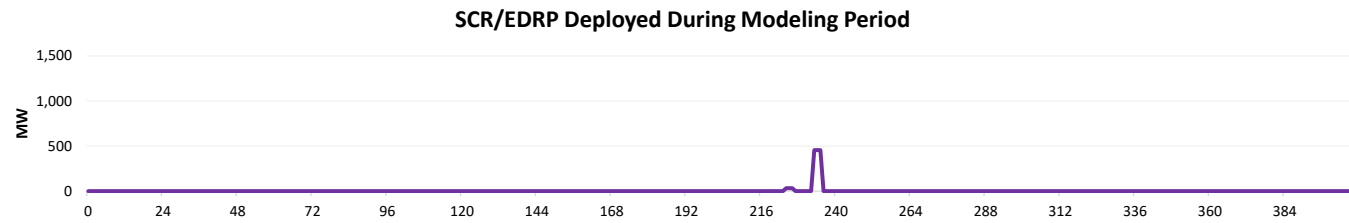
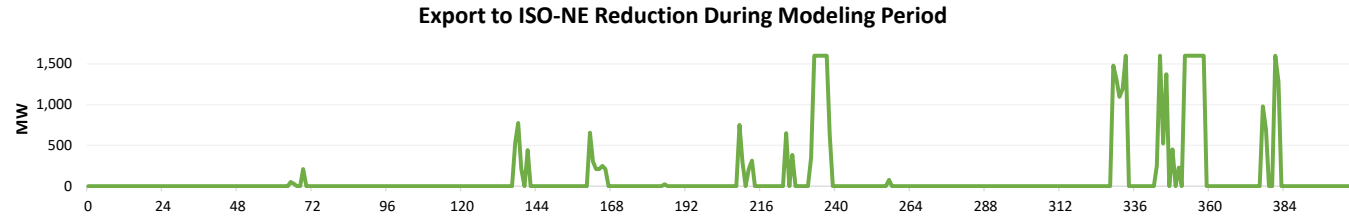
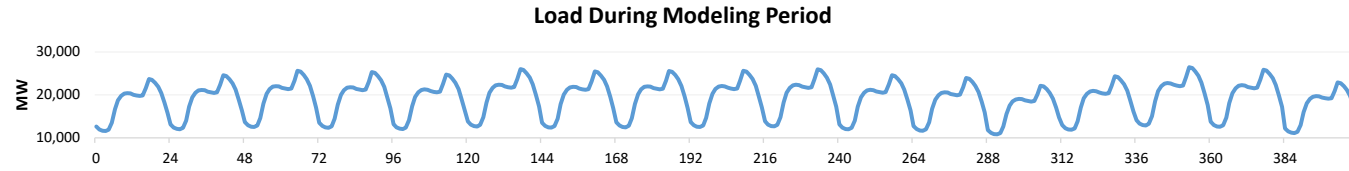


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 6 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	50
Total MWh	42,619
Avg. MW	104.5

SCR Deployment	
Total Hrs.	6
Total MWh	1,461
Avg. MW	3.6

Reserve Violations	
Total Hrs.	15
Total MWh	19,956
Avg. MW	48.9
First Hour with Viol.	224
First Hour, Zone K	224

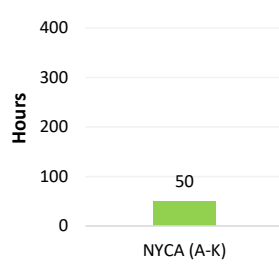
Loss of Load	
Total Hrs.	36
Total MWh	19,235
Avg. MW	47.1
First Hour with Losses	226
First Hour, Zone K	226

Full Period Results Summary

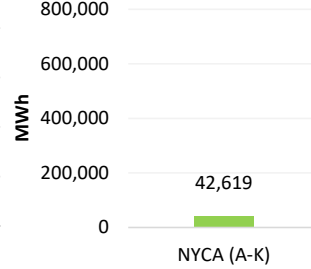
Case Name: Scenario 6 - PD 9 Low Fuel Inventory

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Off
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

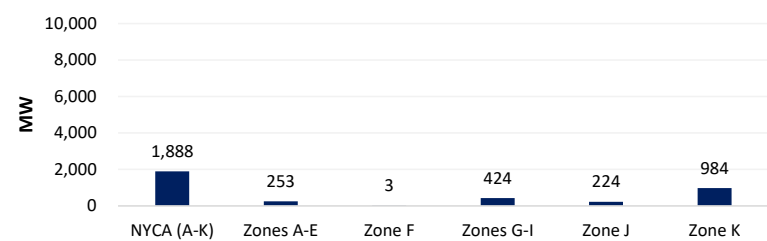
Hours Exports Reduced



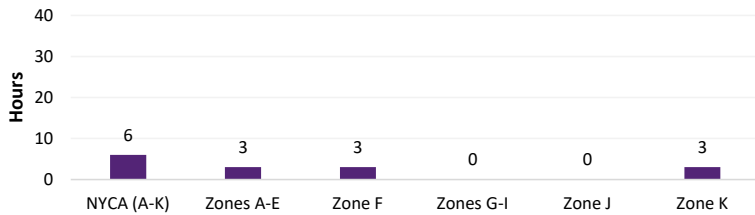
Total MWh of Exports Reduced



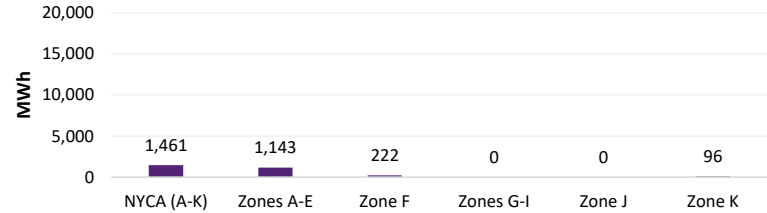
Average Capacity Not Available Due to Exhausted Fuel Inventory



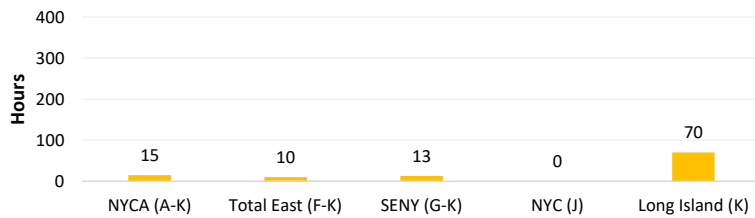
Hours SCR/EDRP Deployed



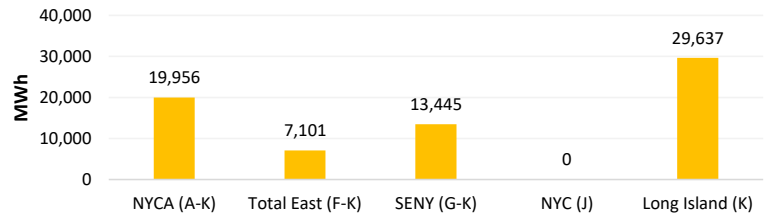
Total MWh SCR/EDRP Deployed



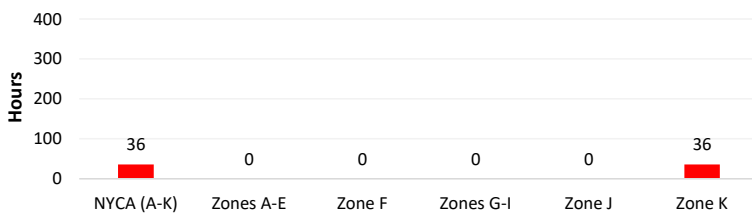
Hours with Reserve Violations



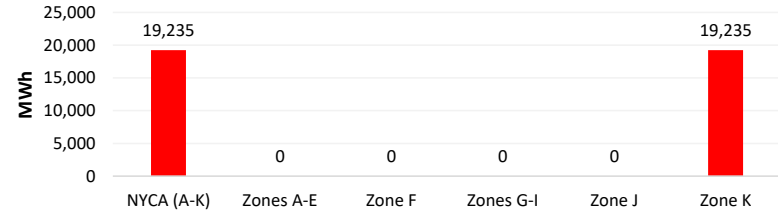
Total MWh of Reserve Violations



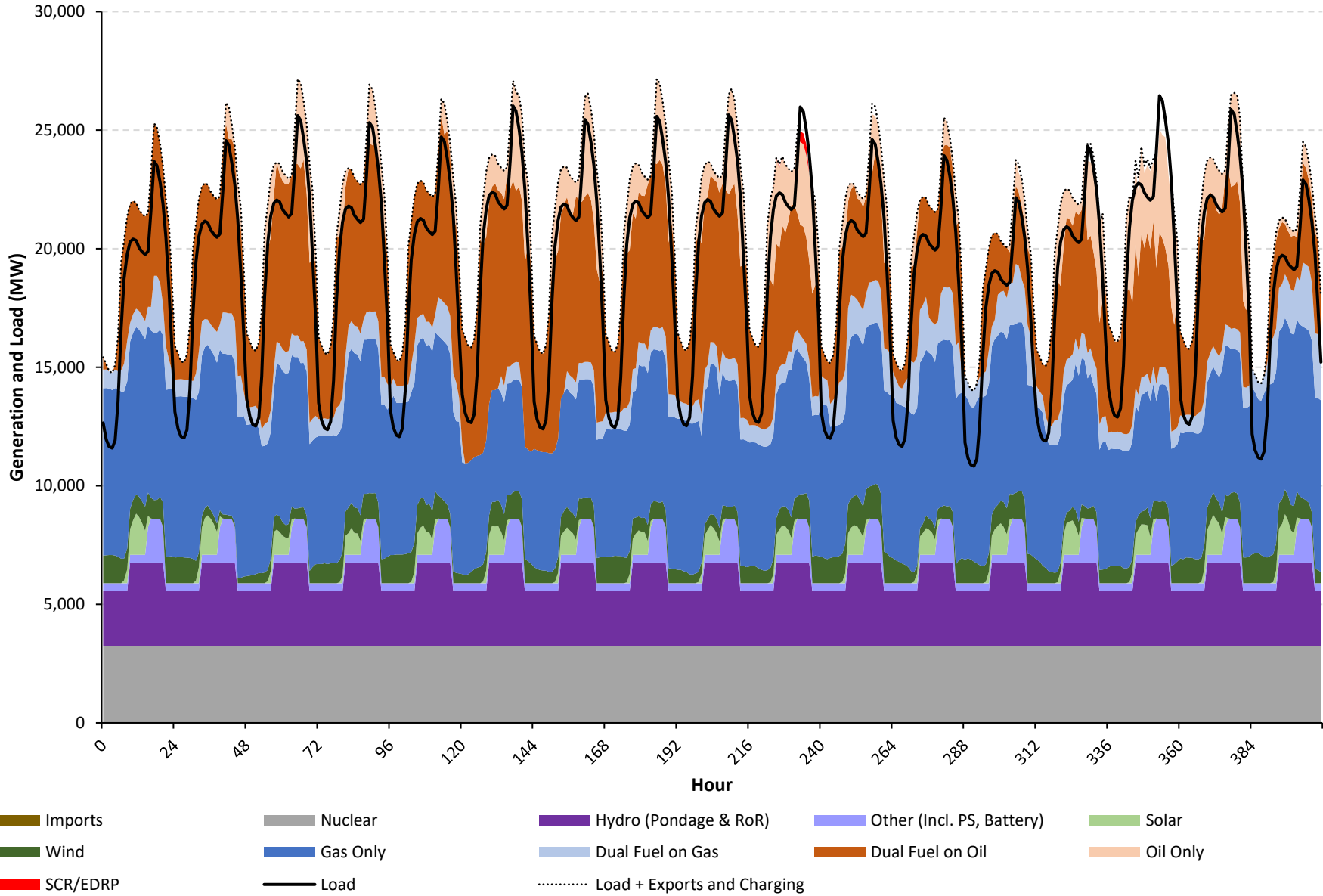
Hours with Loss of Load



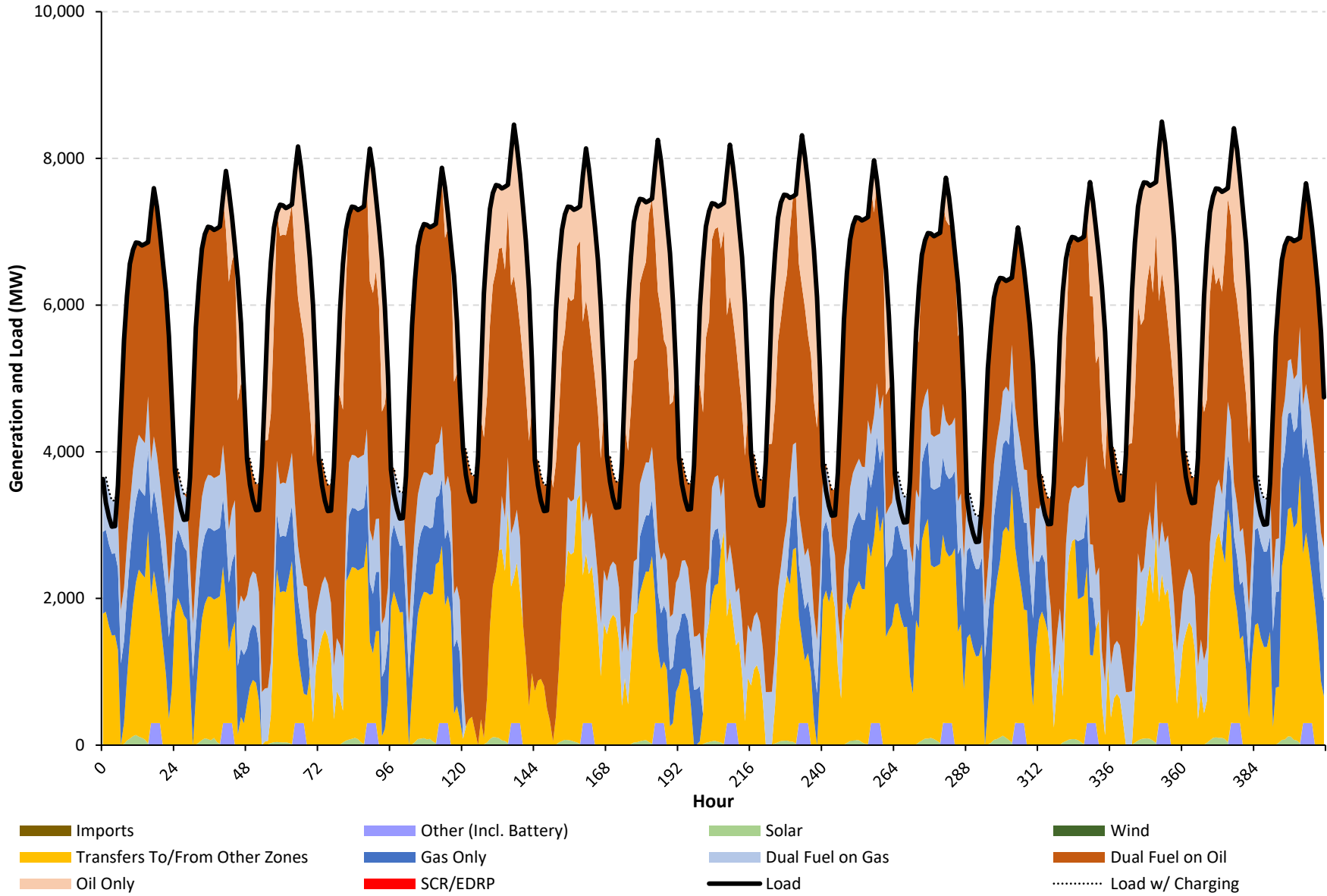
Total MWh of Lost Load



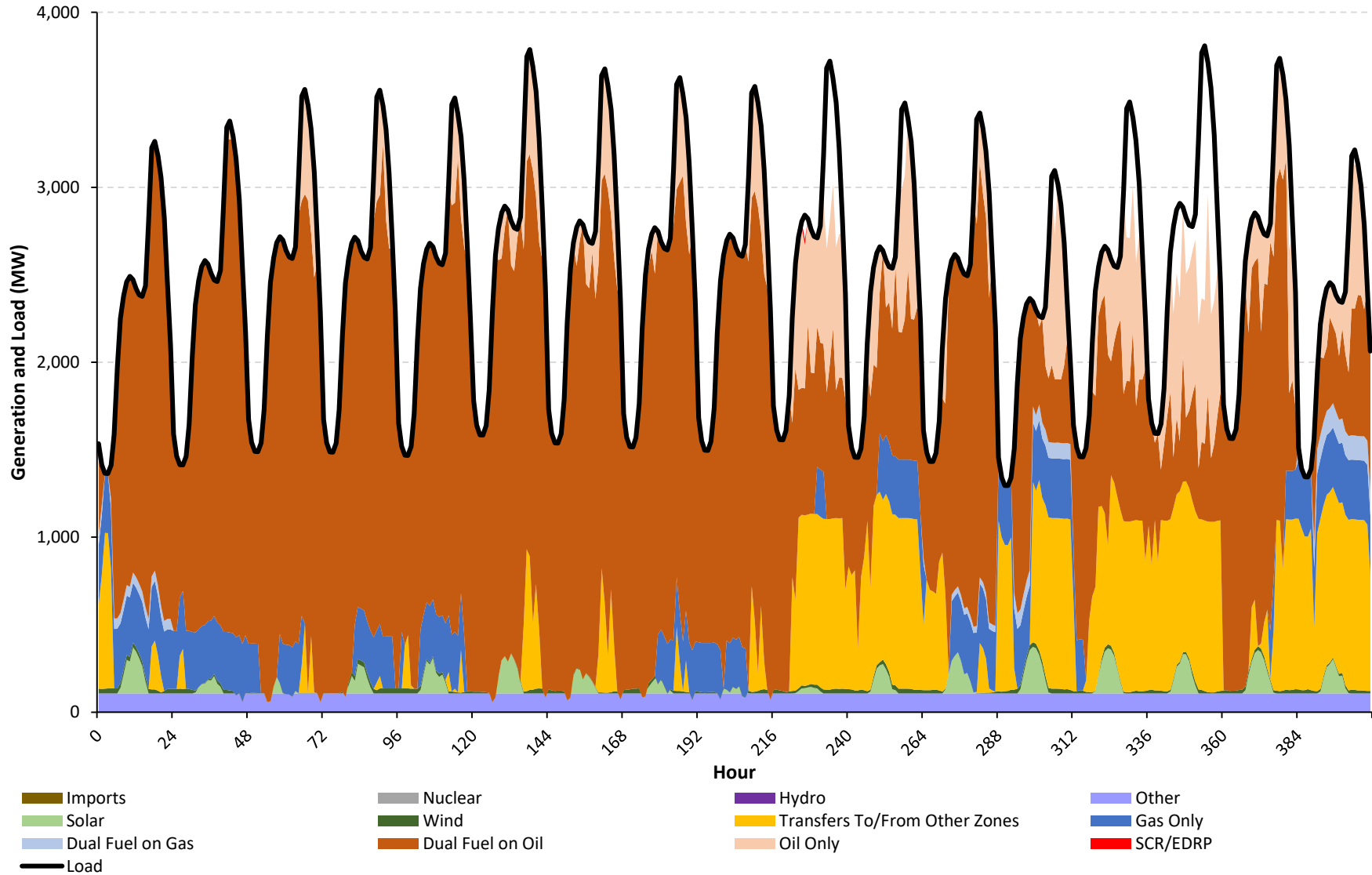
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 9 Low Fuel Inventory



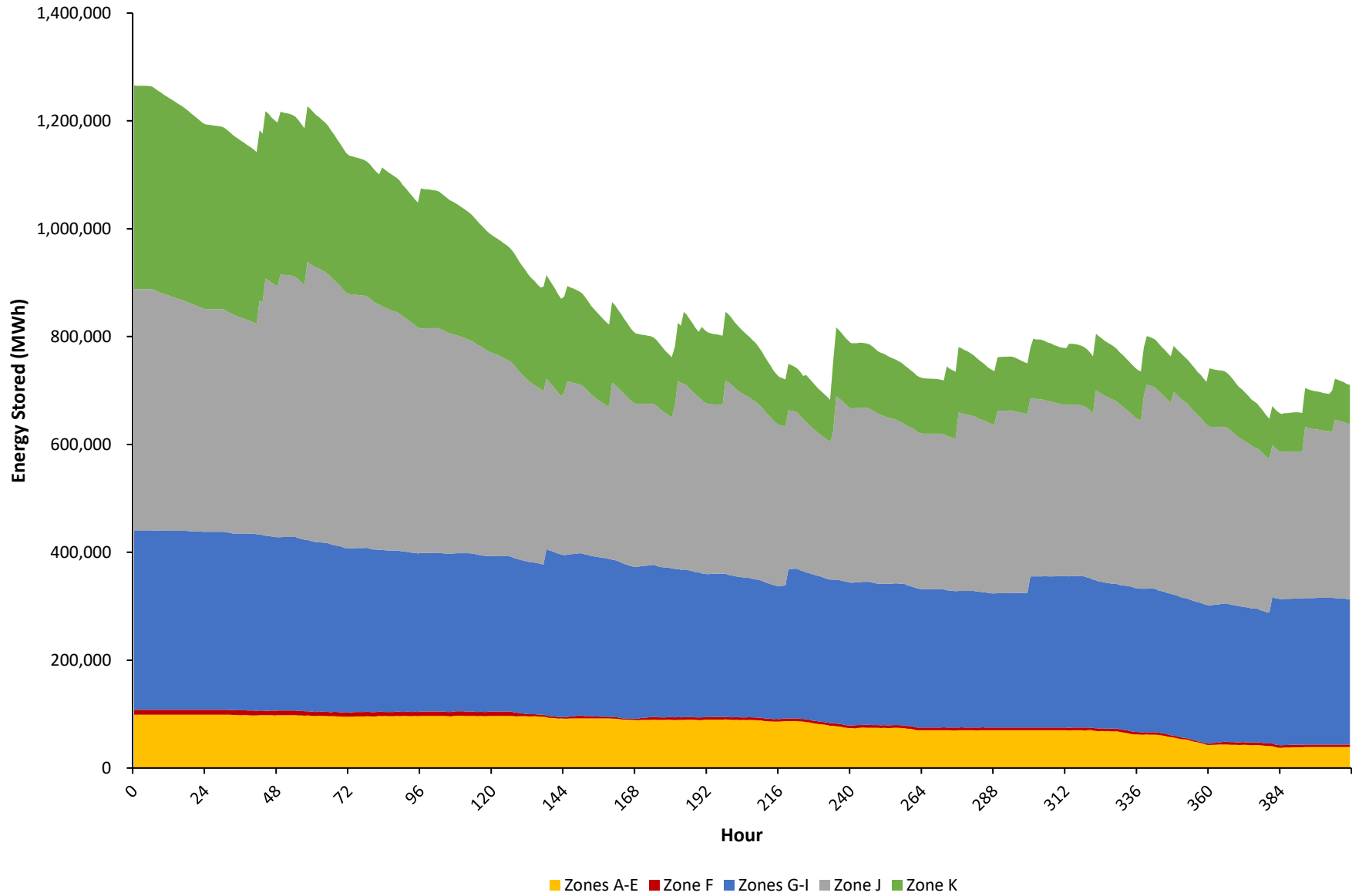
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 9 Low Fuel Inventory



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 9 Low Fuel Inventory

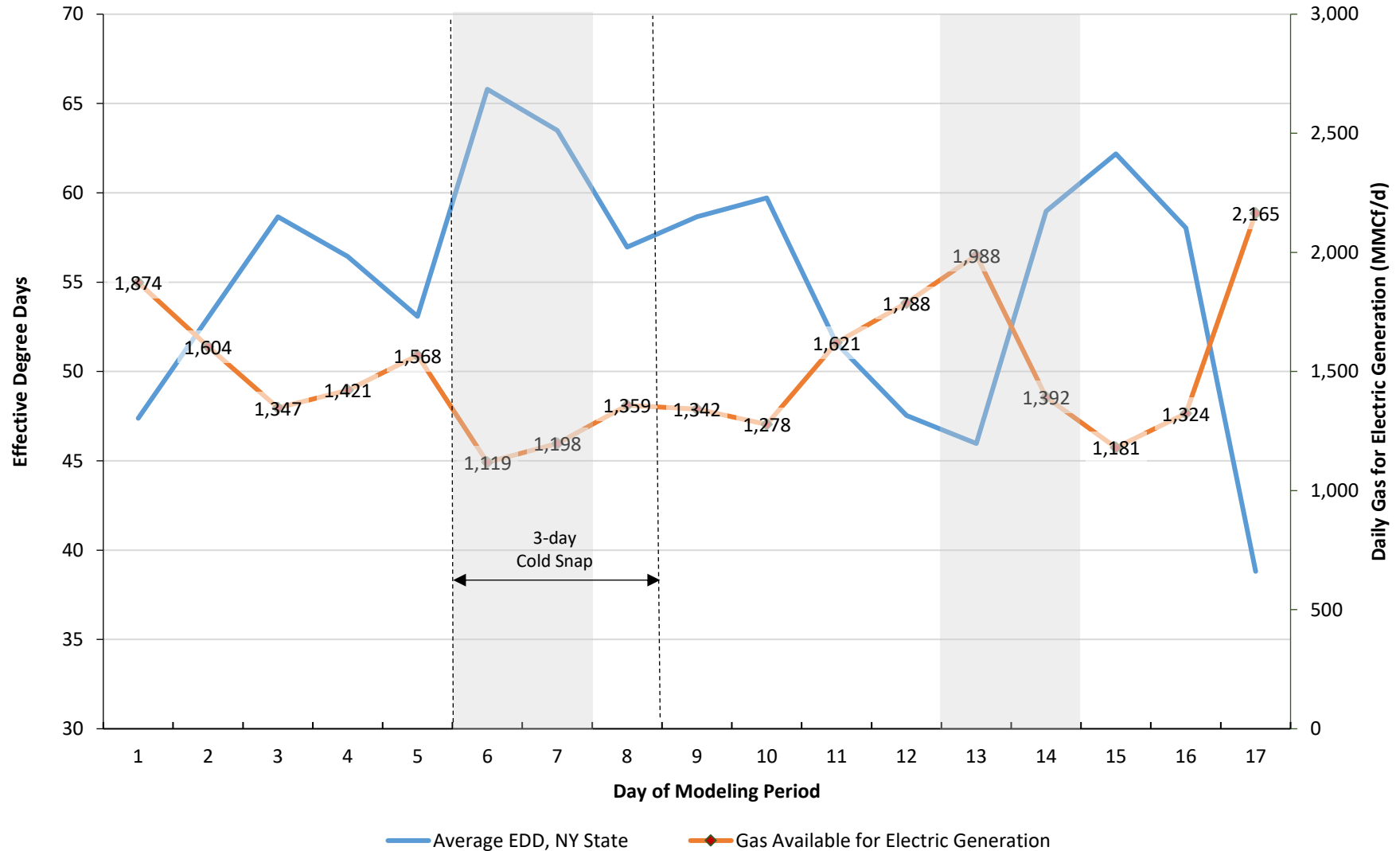


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 9 Low Fuel Inventory



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

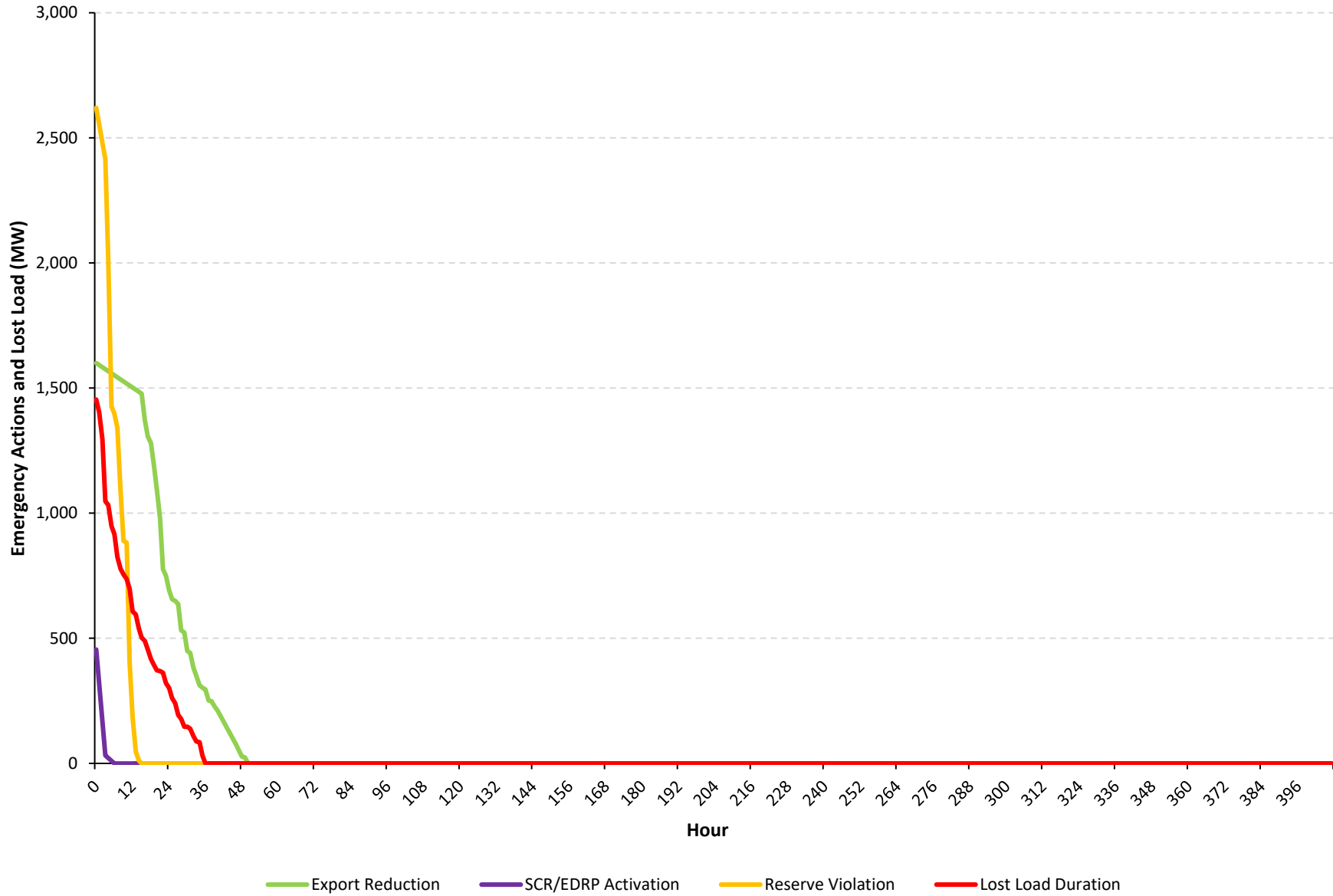
Scenario 6 - PD 9 Low Fuel Inventory



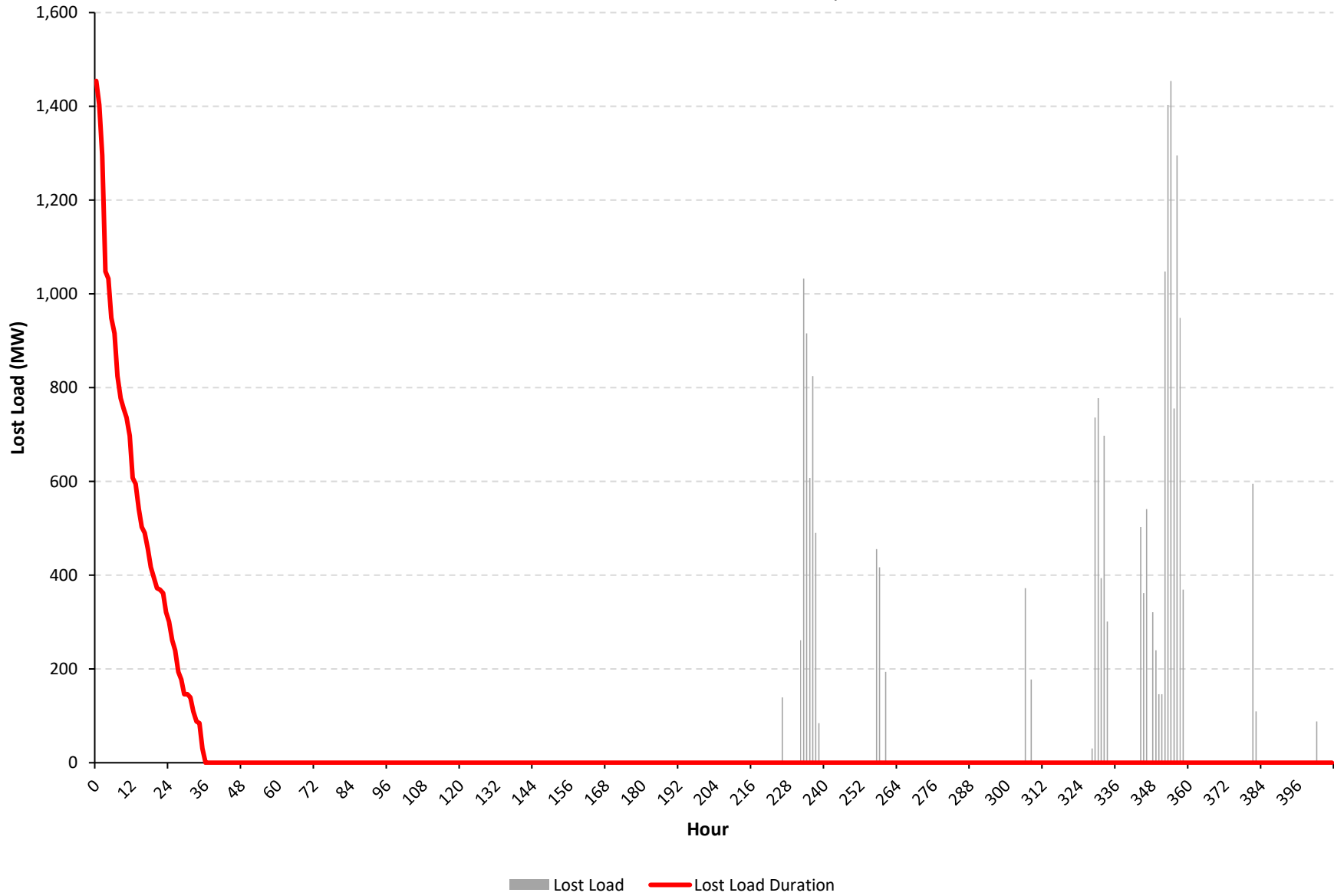
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 9 Low Fuel Inventory



NYCA Lost Load Duration (MWh) Scenario 6 - PD 9 Low Fuel Inventory

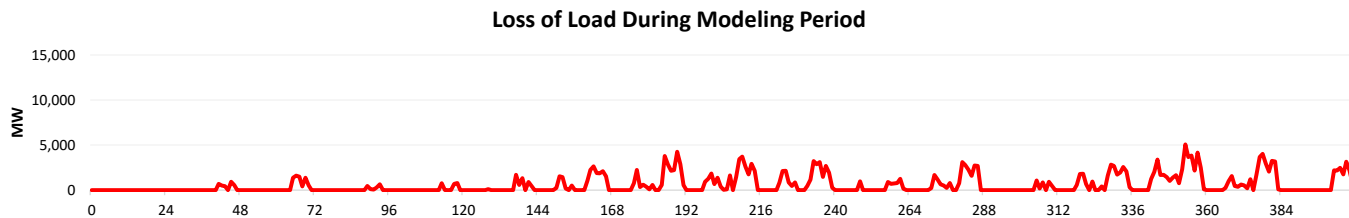
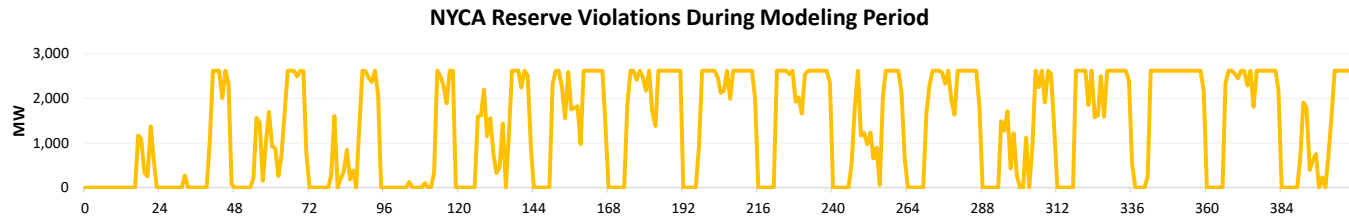
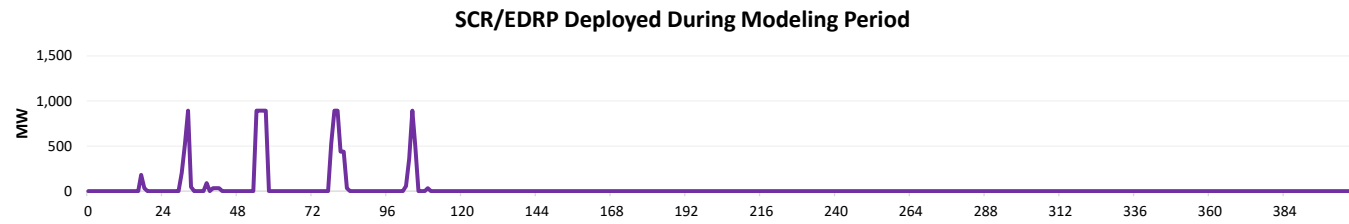
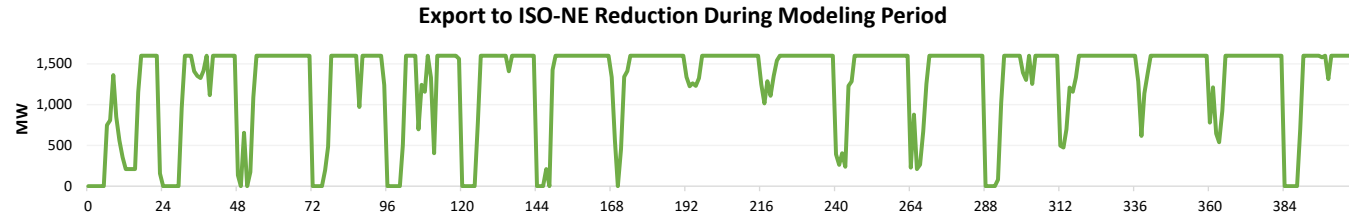
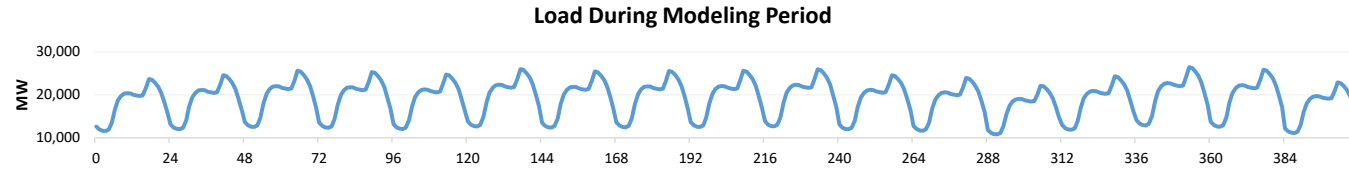


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	366
Total MWh	523,744
Avg. MW	1,283.7

SCR Deployment	
Total Hrs.	25
Total MWh	10,682
Avg. MW	26.2

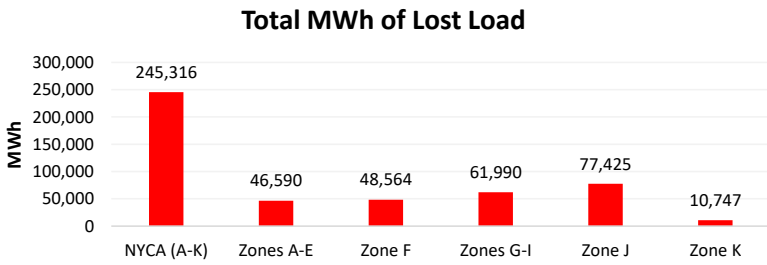
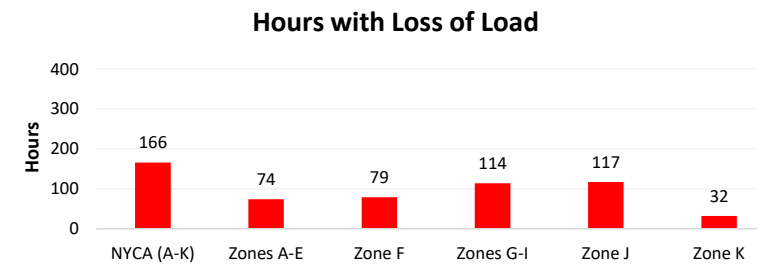
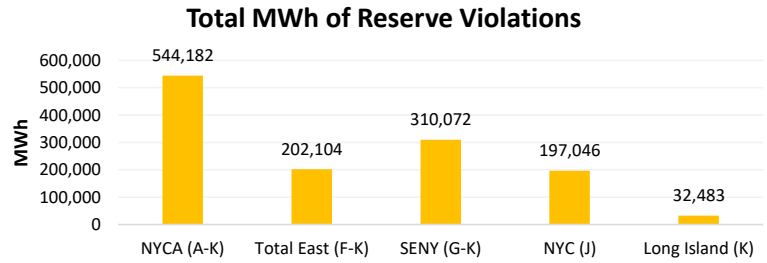
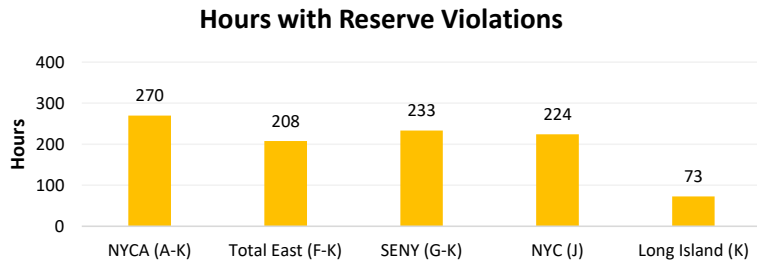
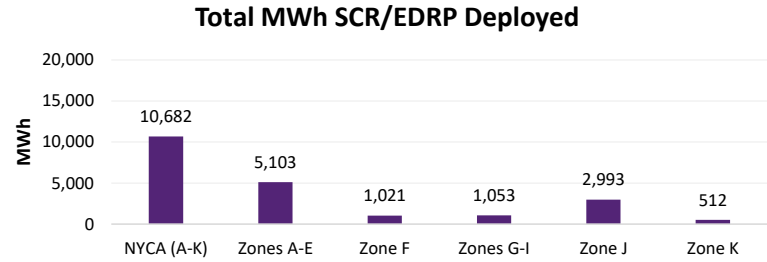
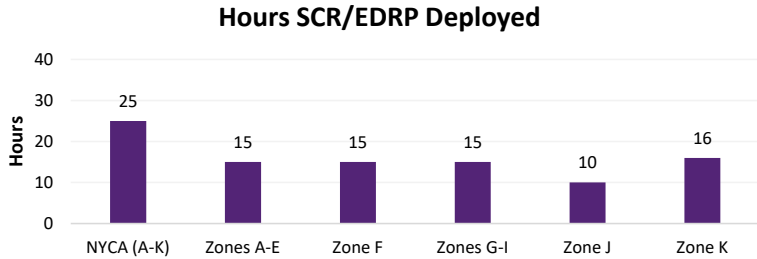
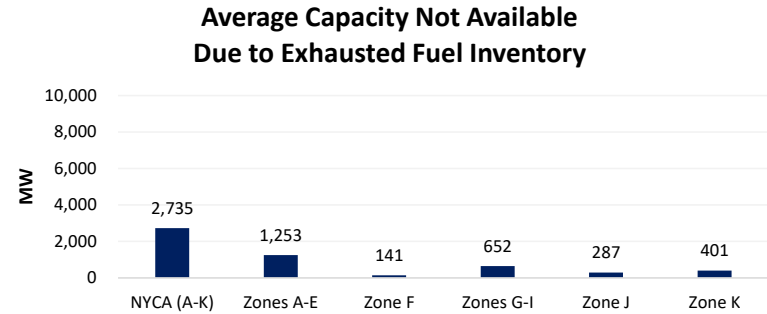
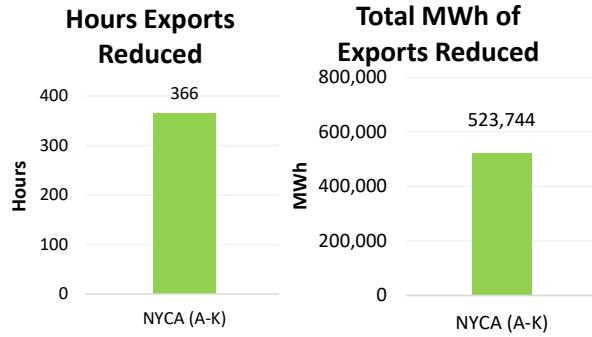
Reserve Violations	
Total Hrs.	270
Total MWh	544,182
Avg. MW	1,333.8
First Hour with Viol.	17
First Hour, Zone K	42

Loss of Load	
Total Hrs.	166
Total MWh	245,316
Avg. MW	601.3
First Hour with Losses	41
First Hour, Zone K	137

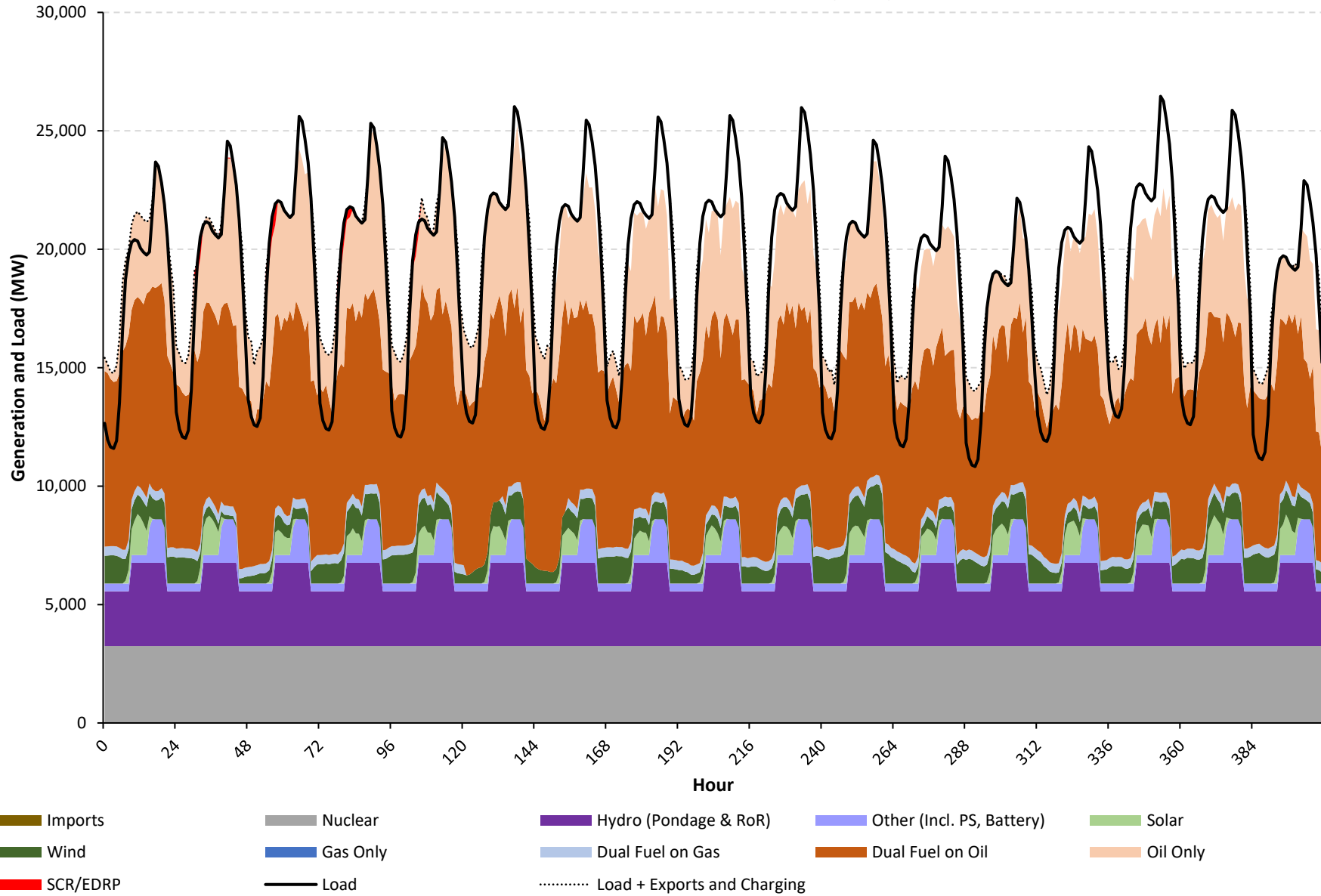
Full Period Results Summary

Case Name: Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)

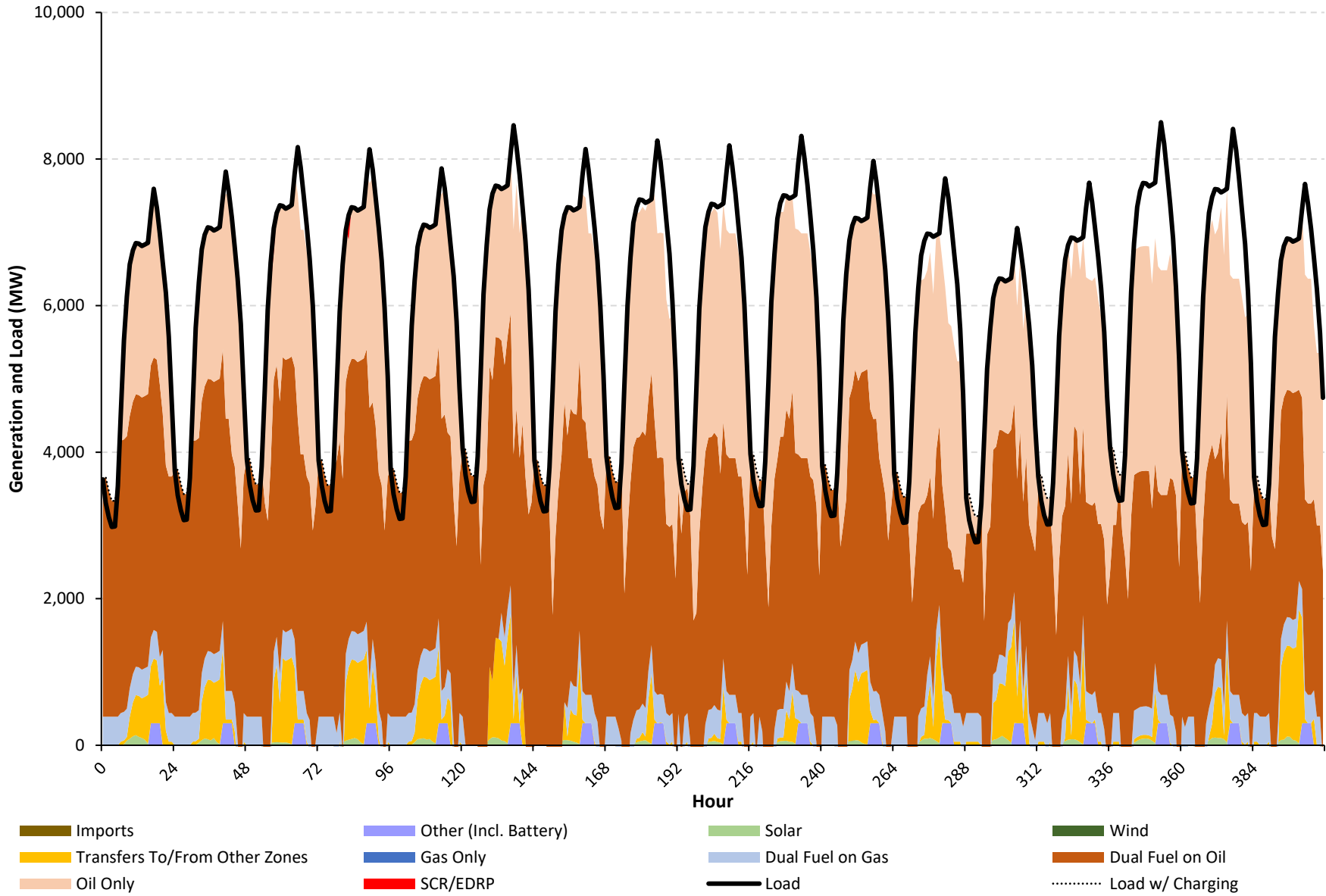
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



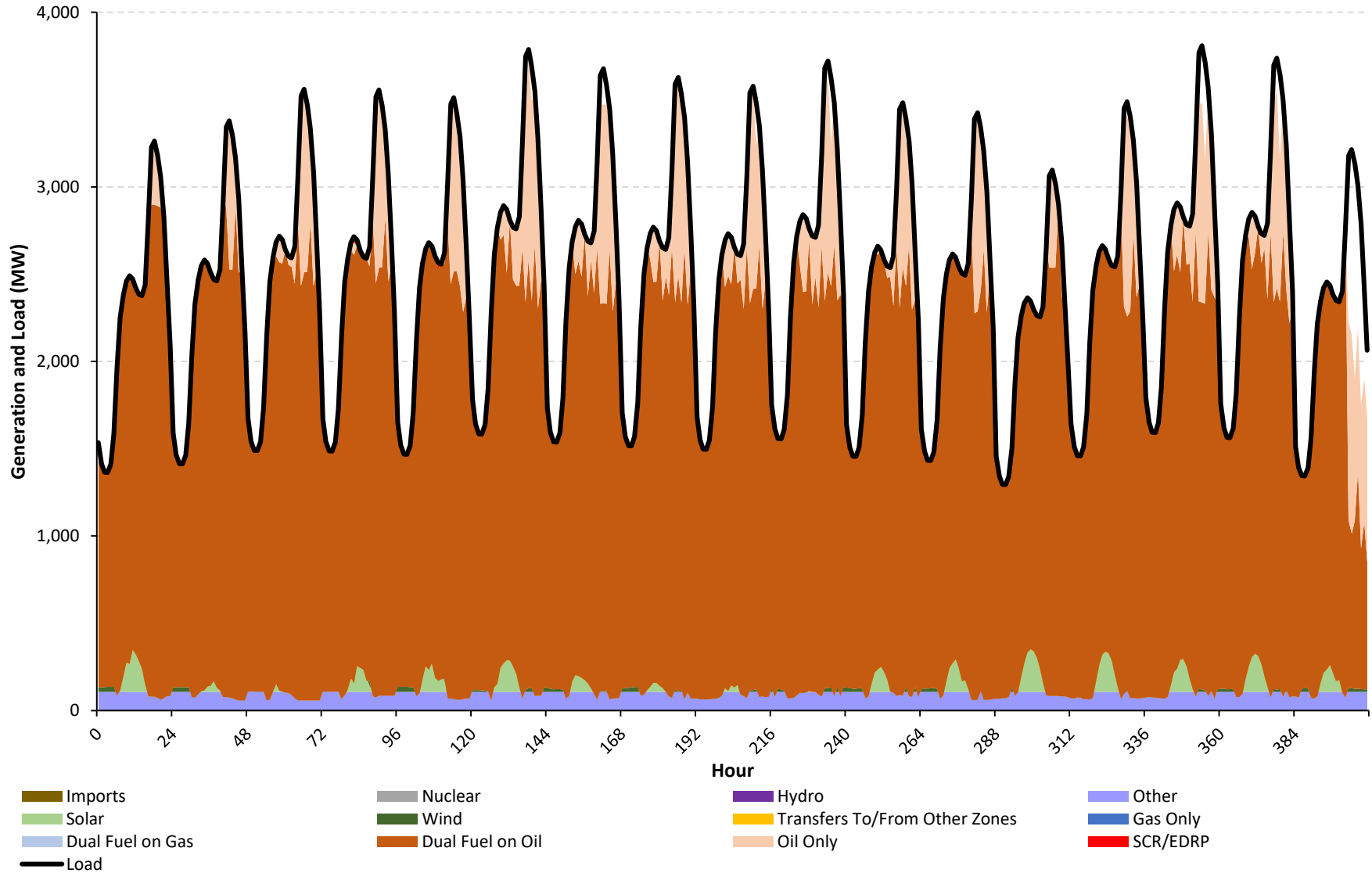
NYCA Hourly Generation (MWh) by Fuel Group Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



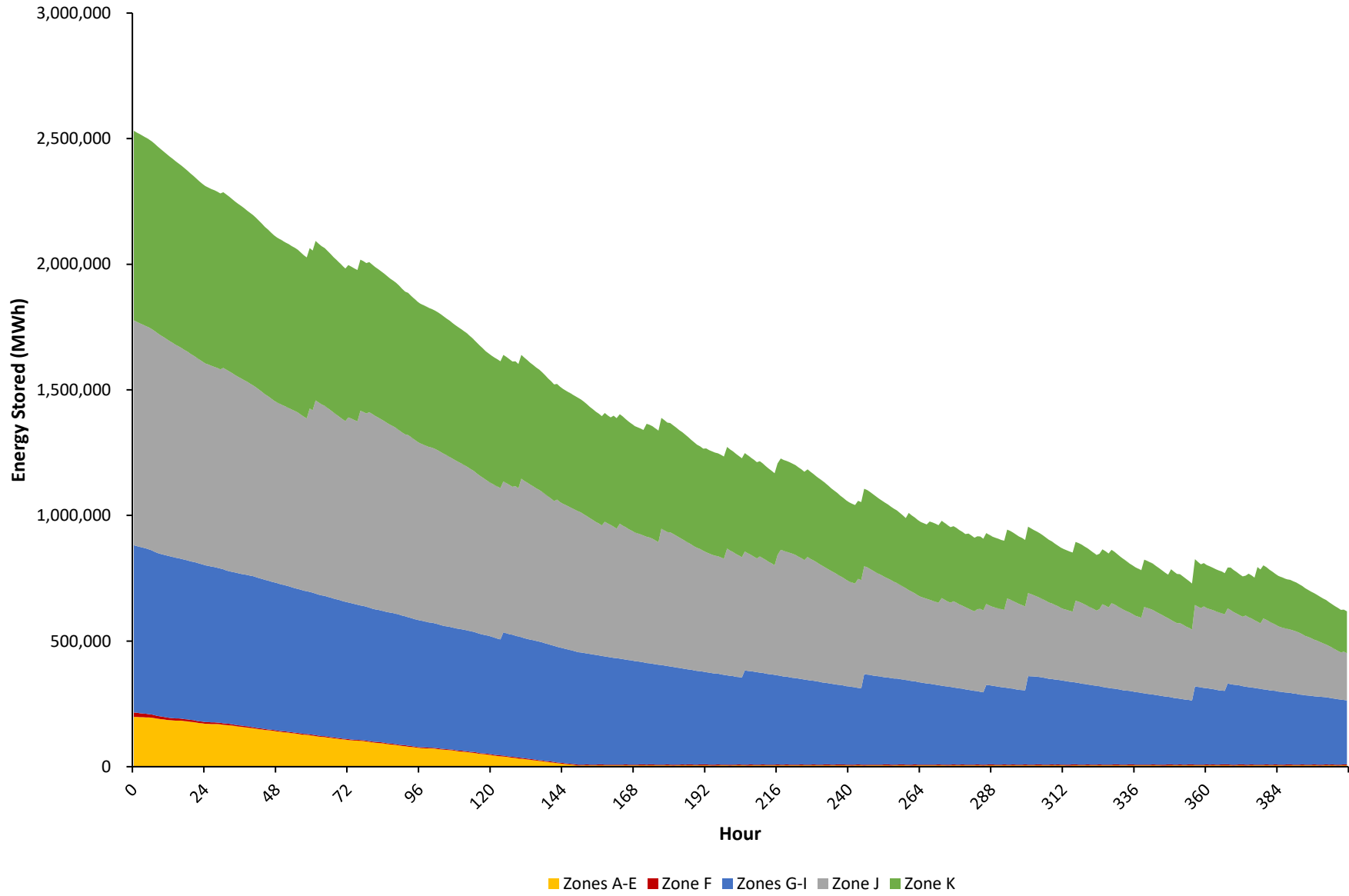
Zone J Hourly Generation (MW) by Fuel Group Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)

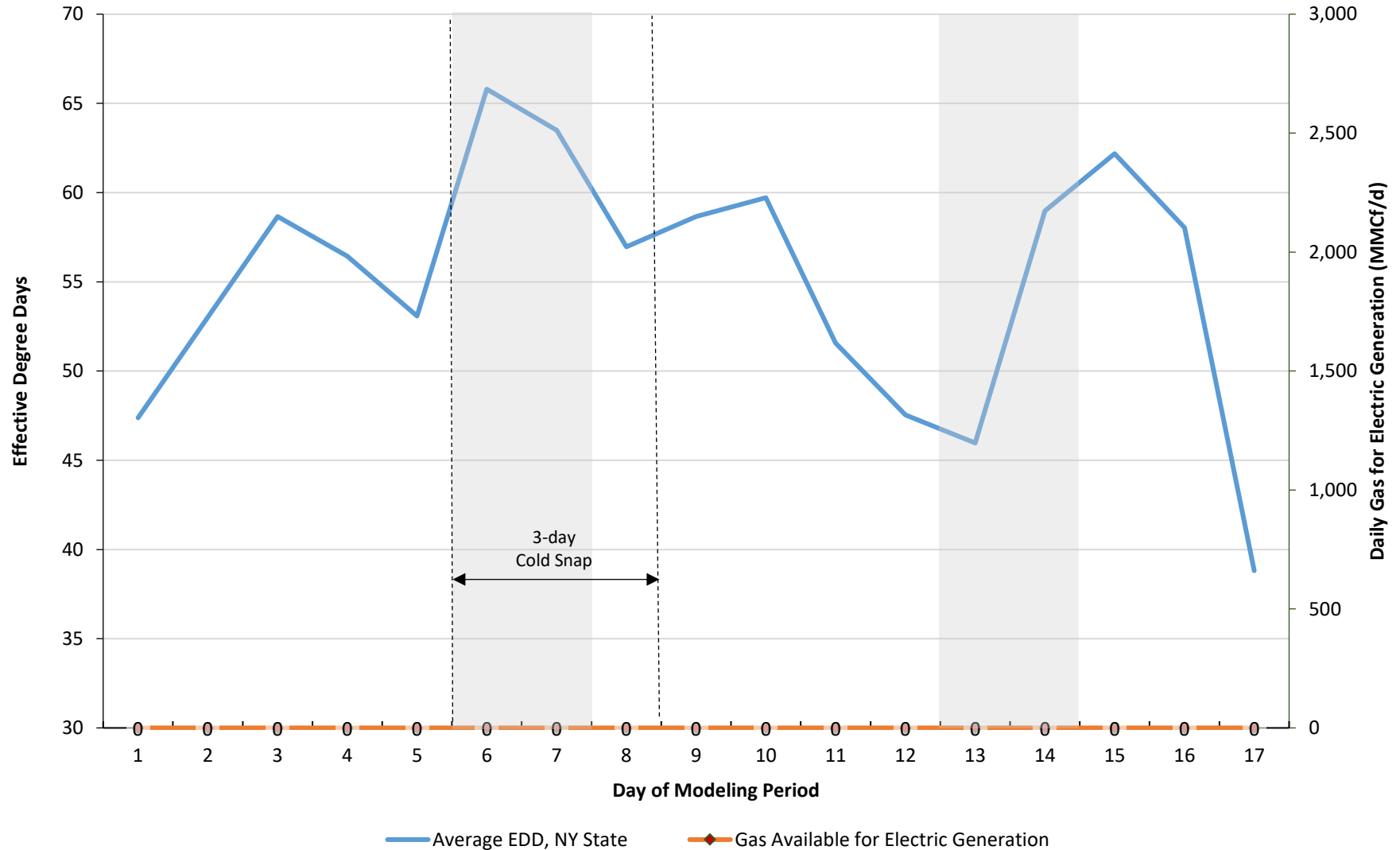


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

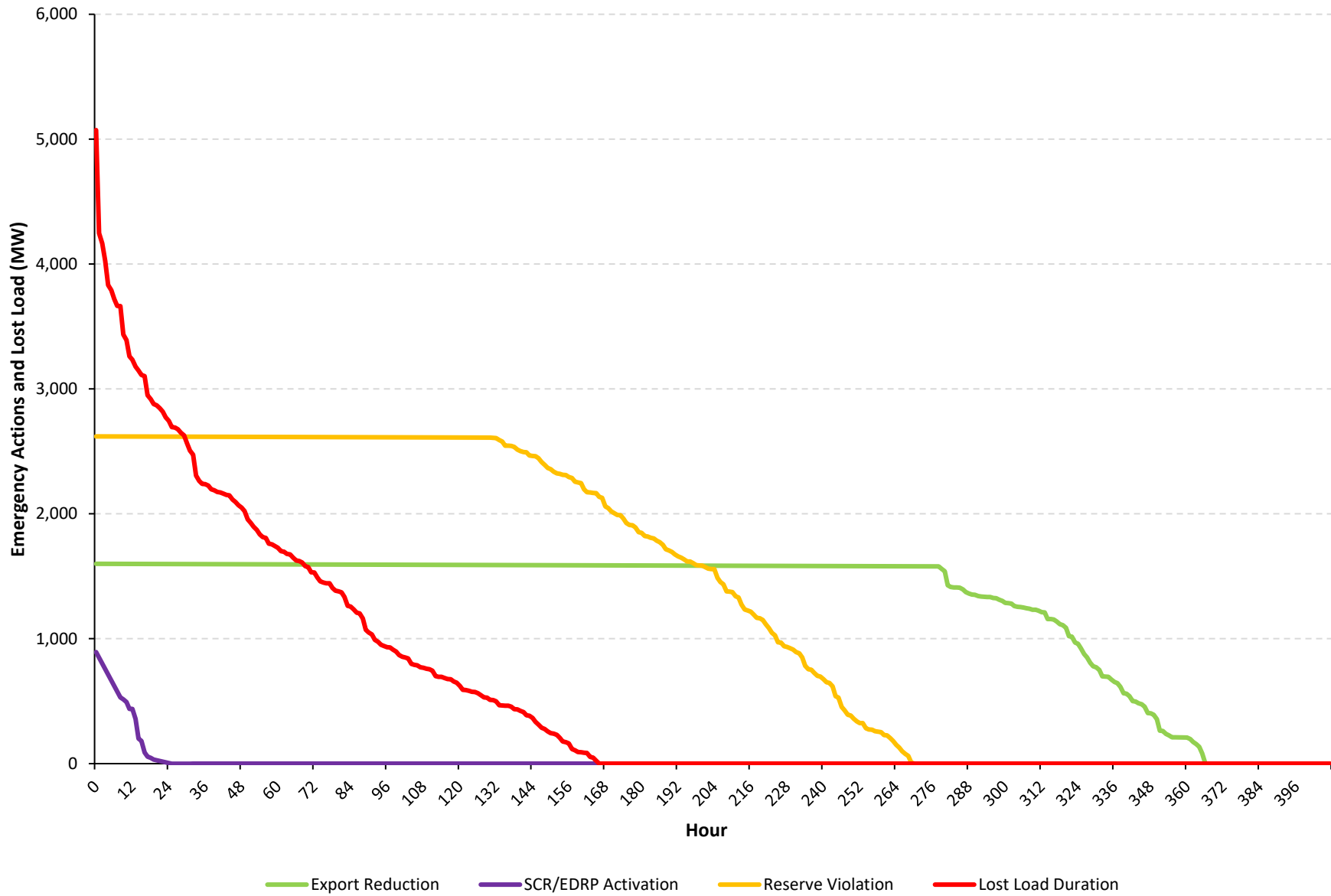
Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



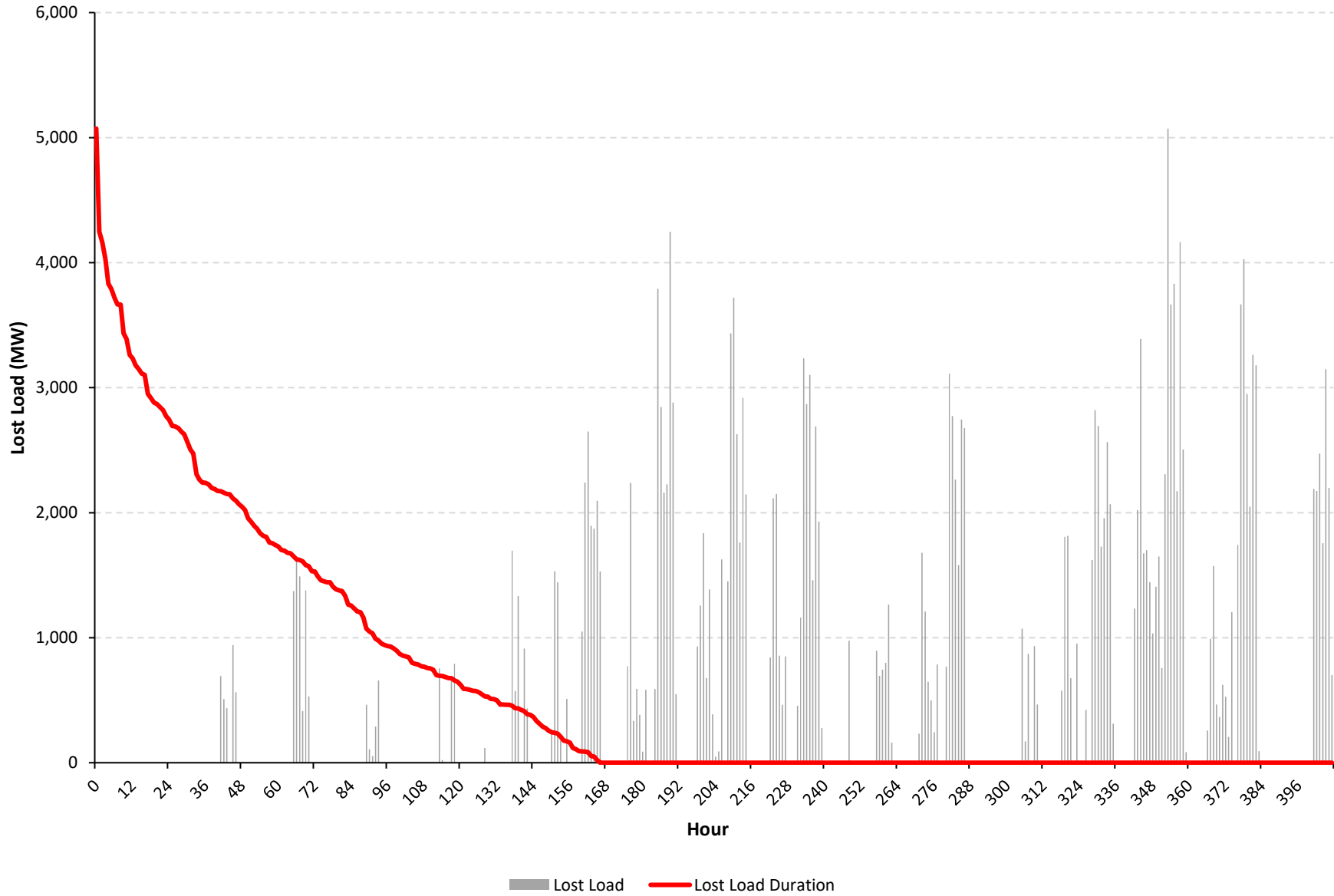
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 6 - PD 10 Non-Firm Gas Unavailable (NYCA)



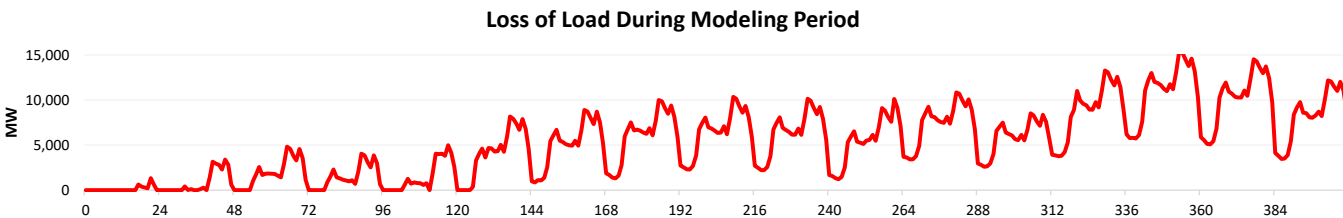
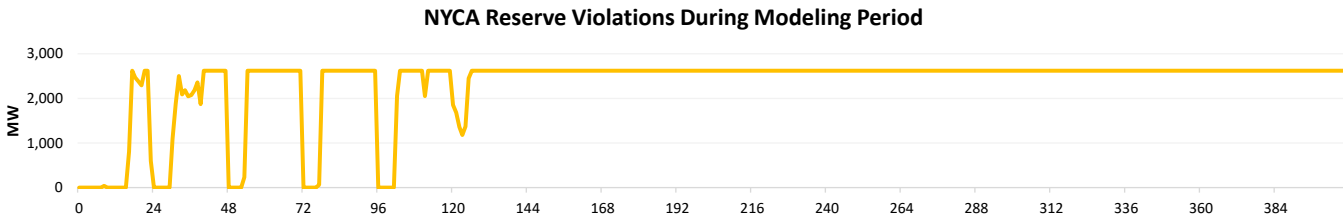
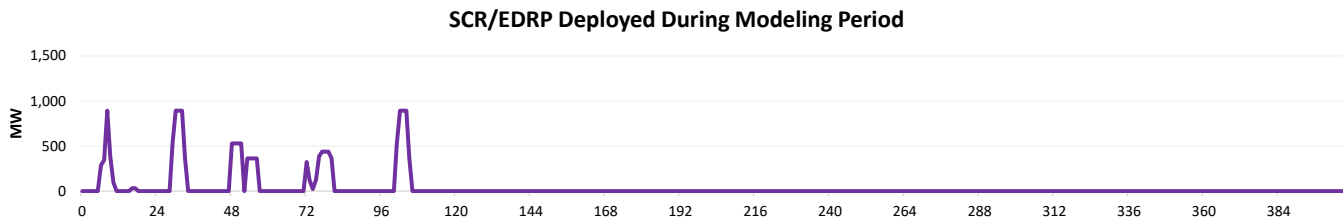
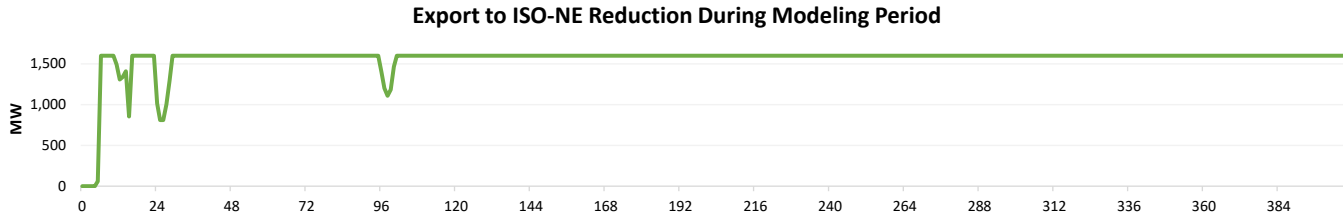
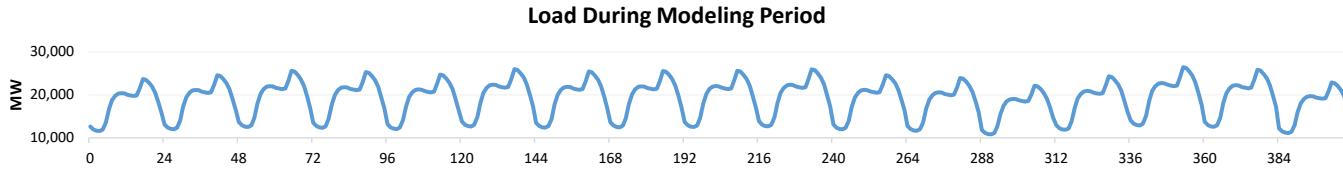
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	403
Total MWh	636,961
Avg. MW	1,561.2

SCR Deployment	
Total Hrs.	34
Total MWh	15,436
Avg. MW	37.8

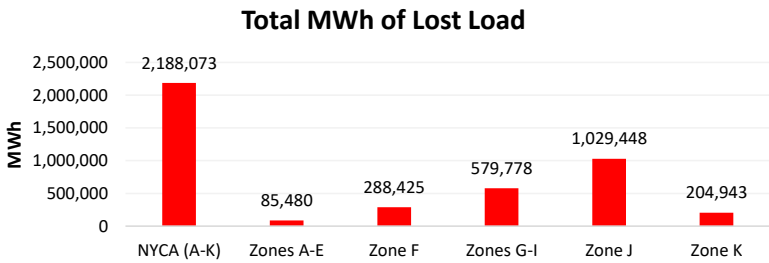
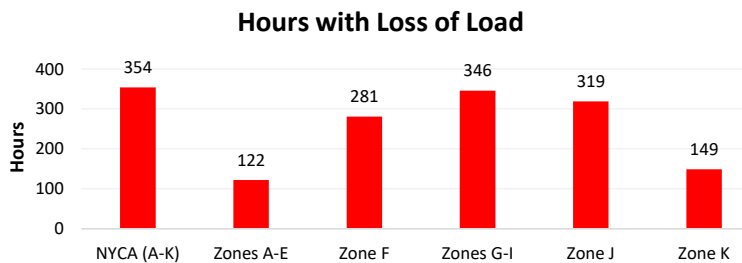
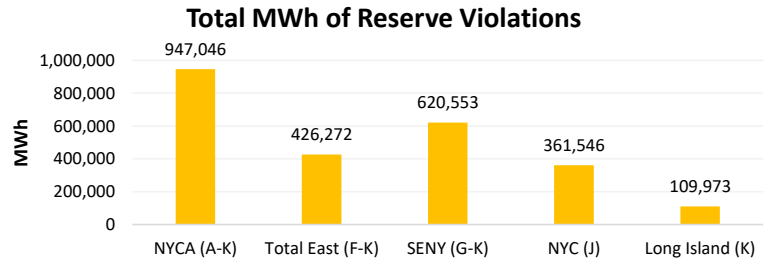
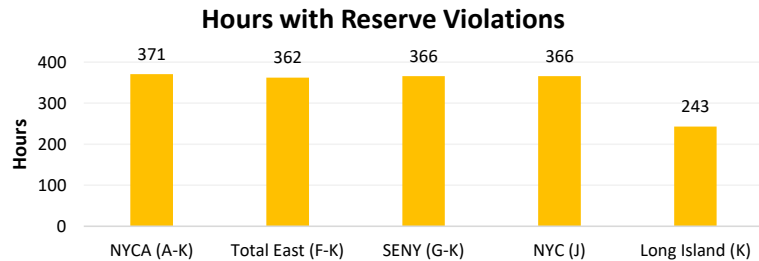
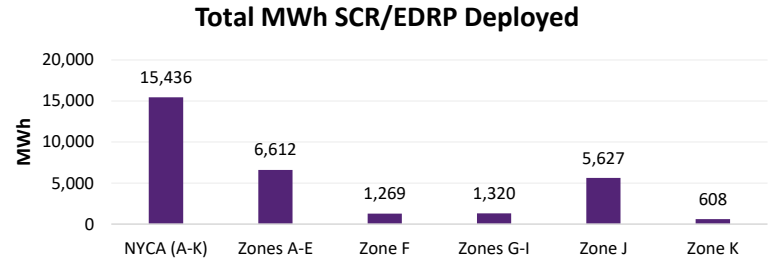
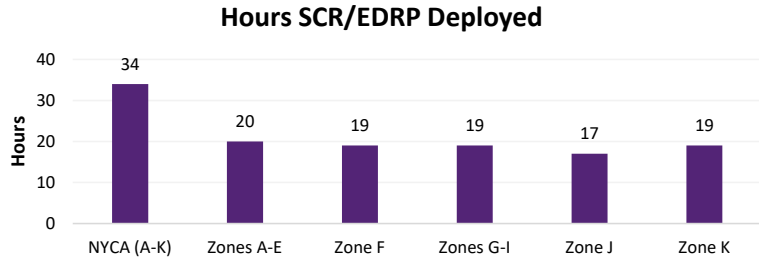
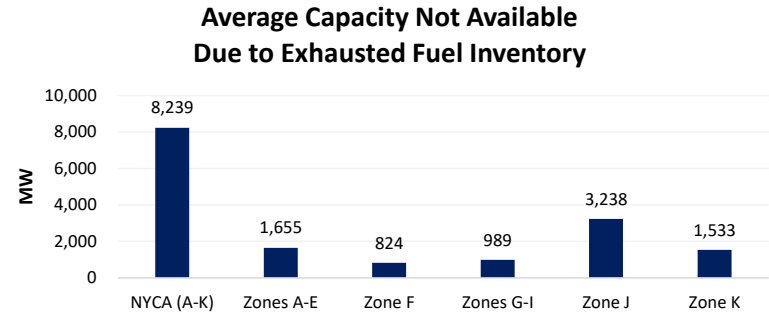
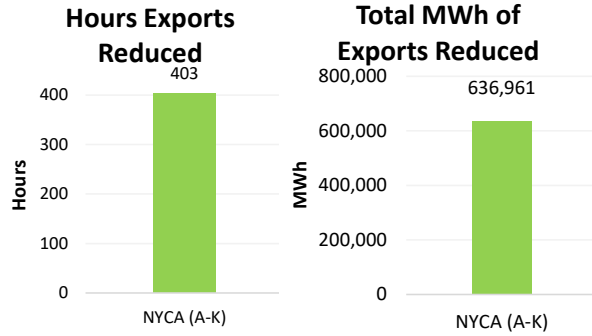
Reserve Violations	
Total Hrs.	371
Total MWh	947,046
Avg. MW	2,321.2
First Hour with Viol.	8
First Hour, Zone K	41

Loss of Load	
Total Hrs.	354
Total MWh	2,188,073
Avg. MW	5,362.9
First Hour with Losses	17
First Hour, Zone K	65

Full Period Results Summary

Case Name: Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

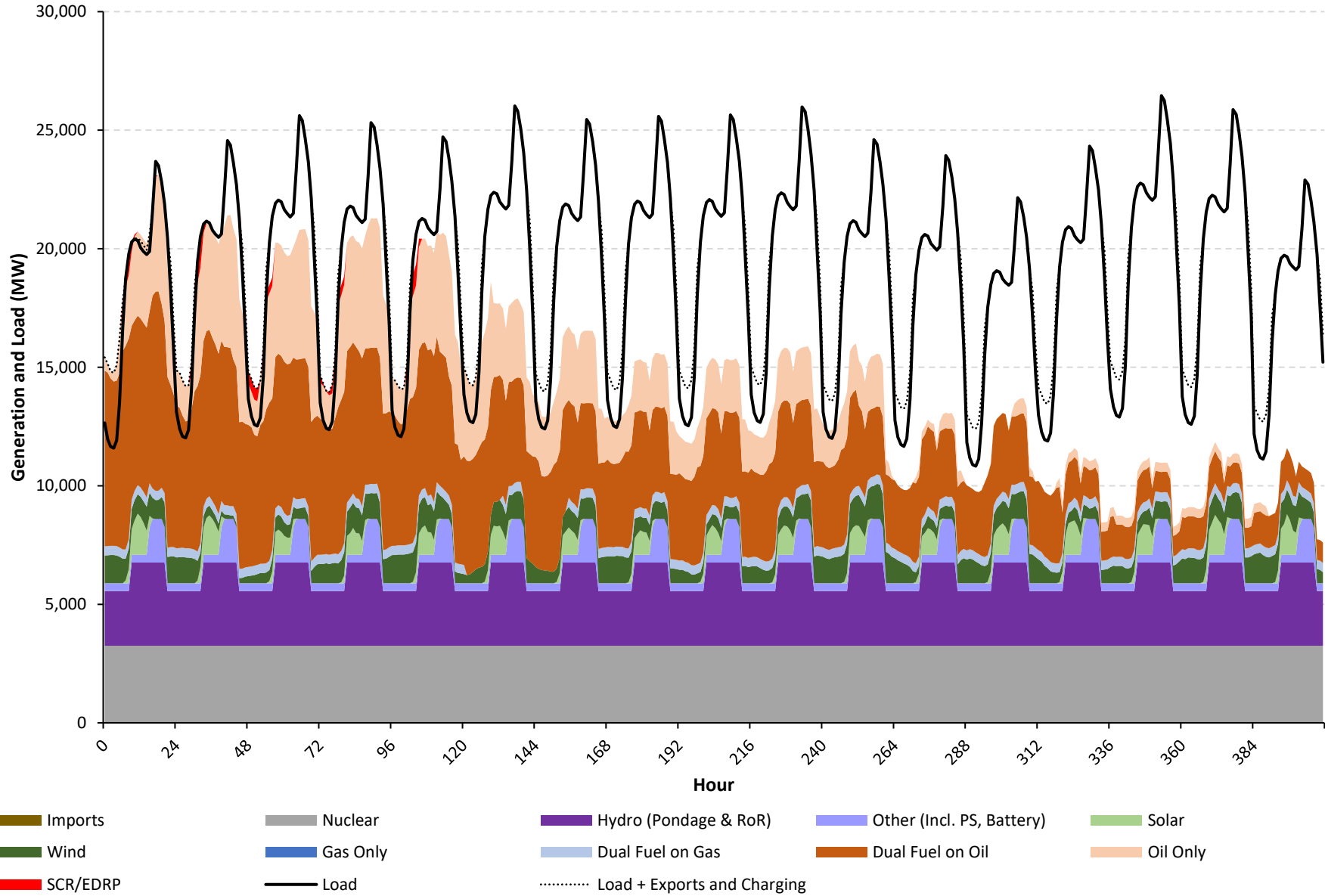
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



NYCA

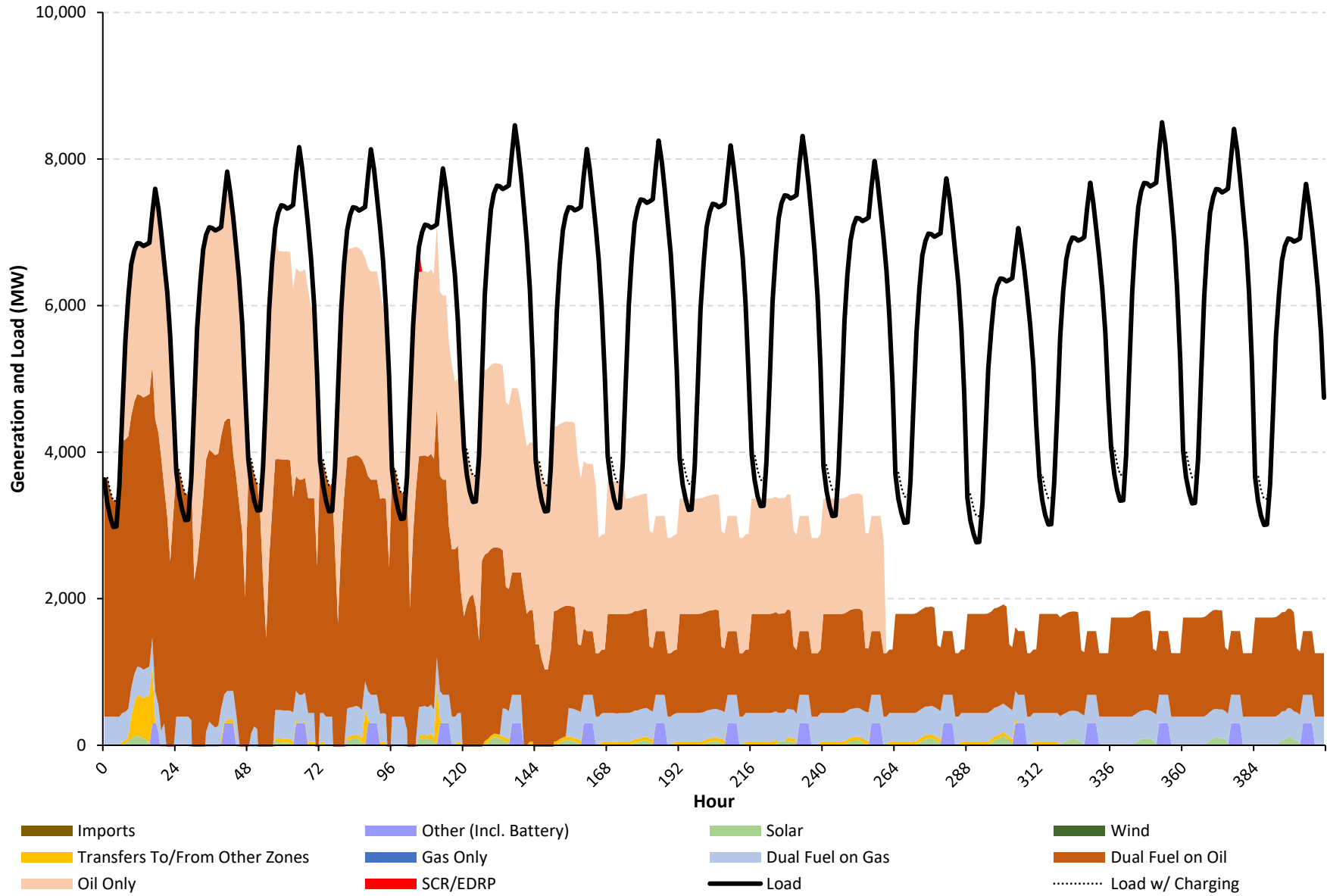
Hourly Generation (MWh) by Fuel Group

Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



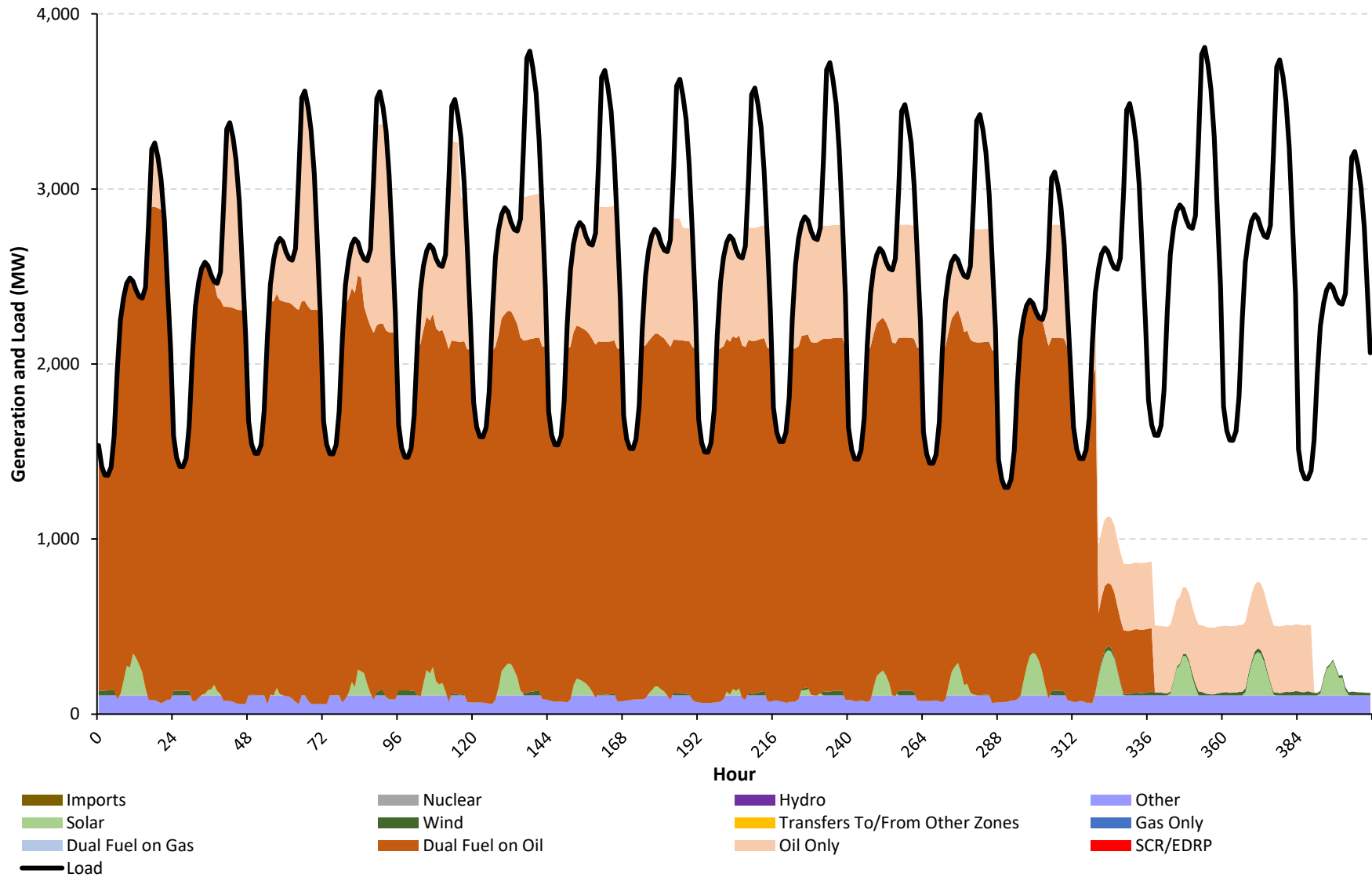
Zone J Hourly Generation (MW) by Fuel Group

Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

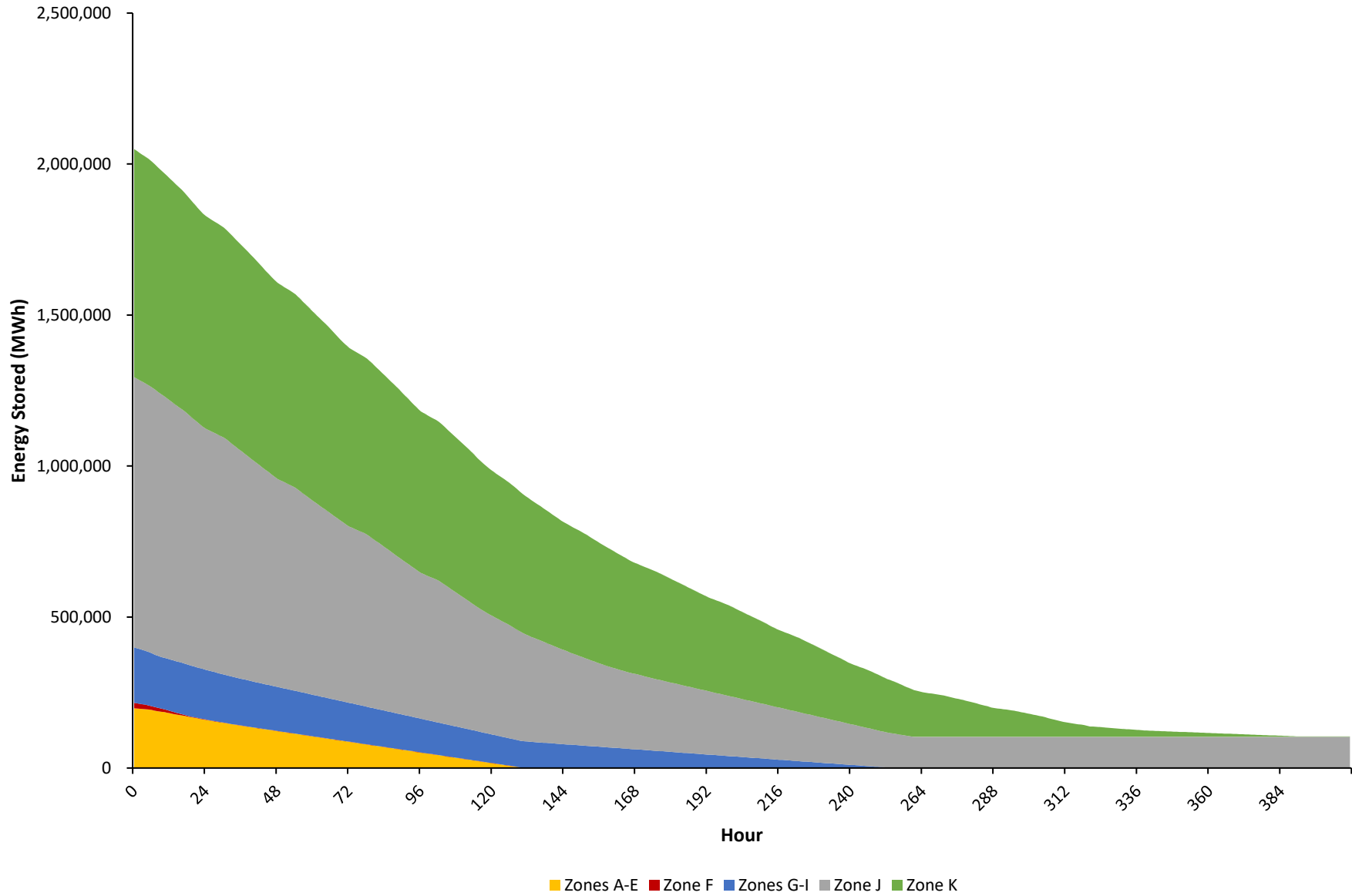


Zone K Hourly Generation (MW) by Fuel Group

Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

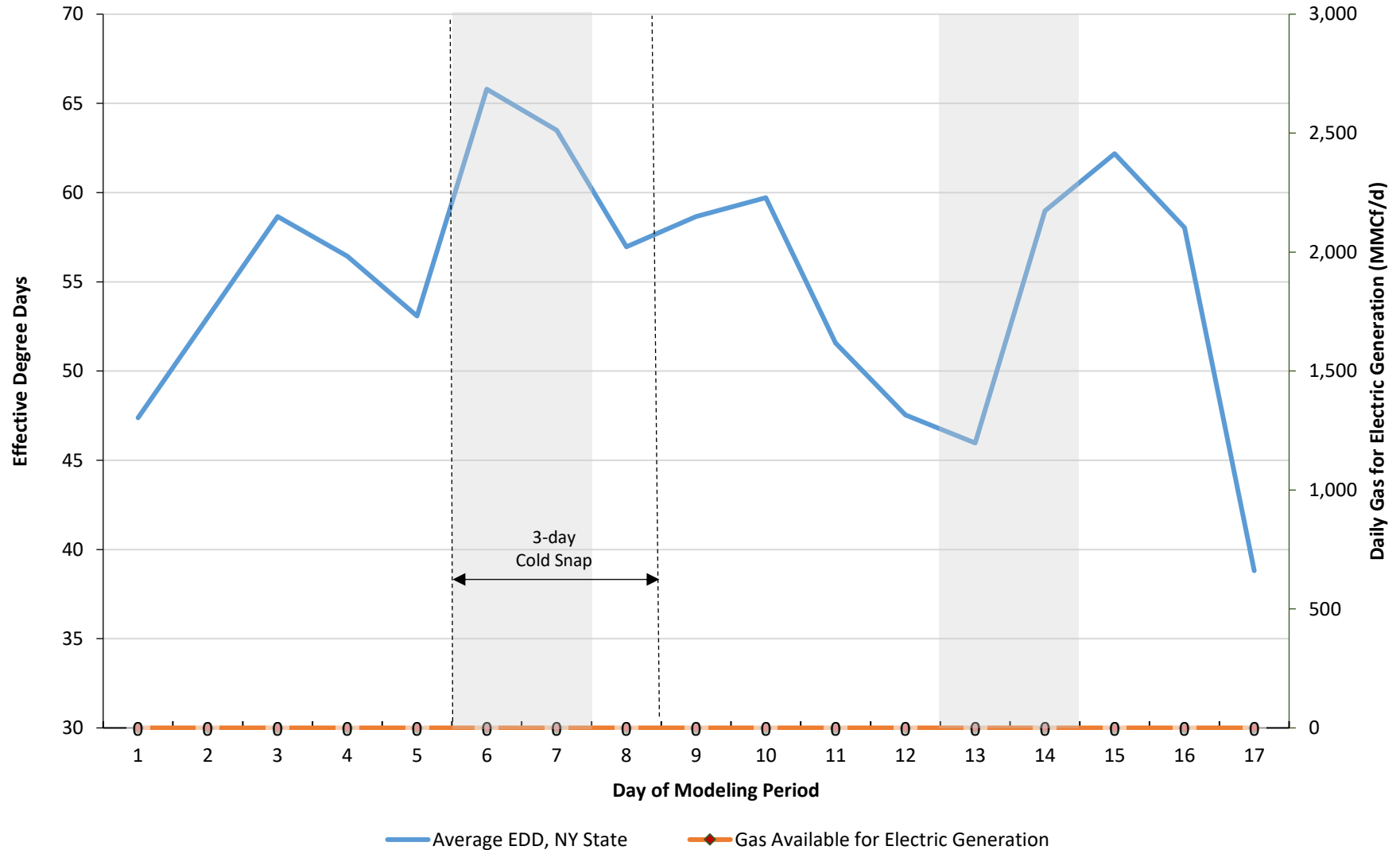


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

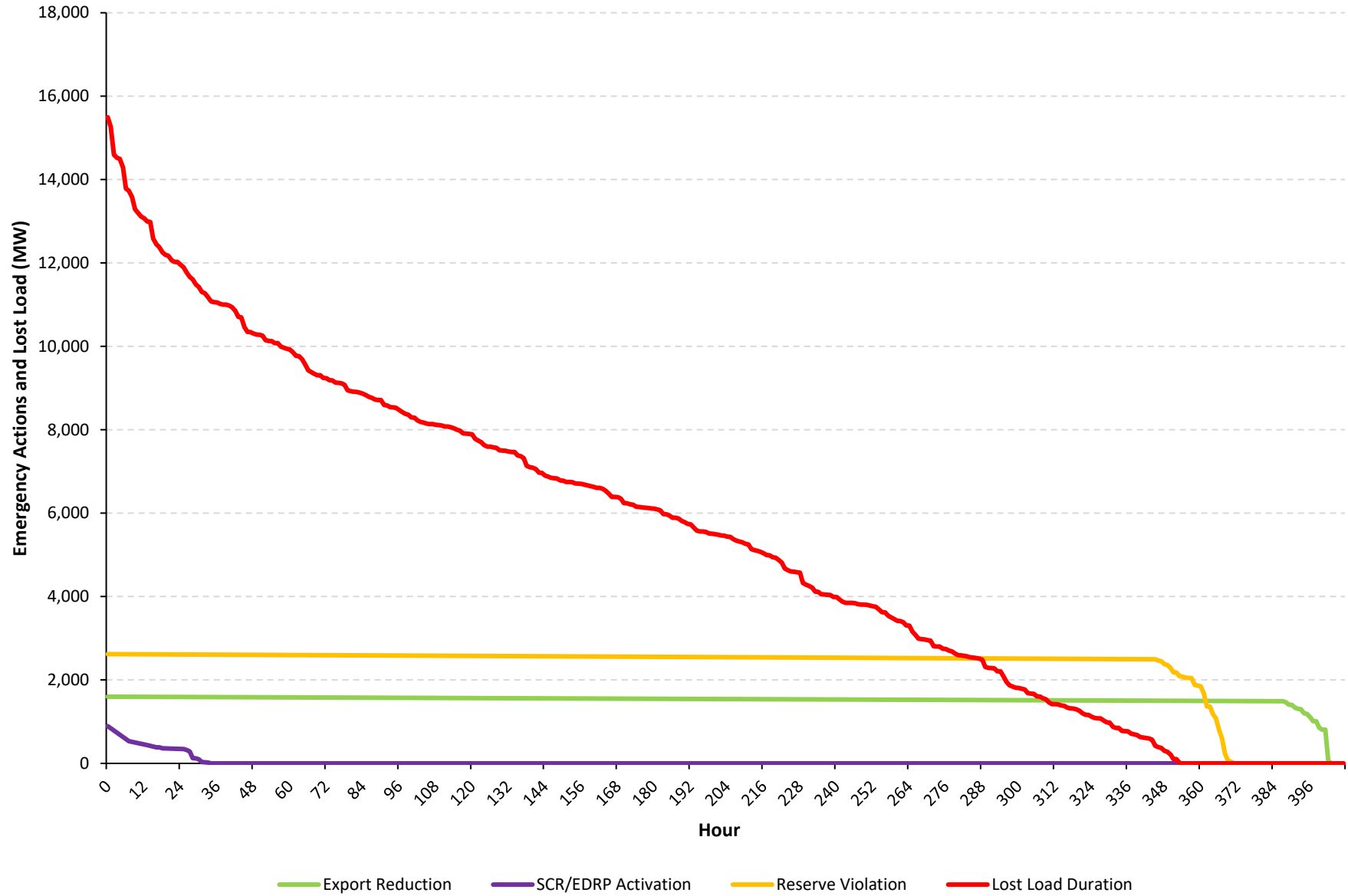
Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

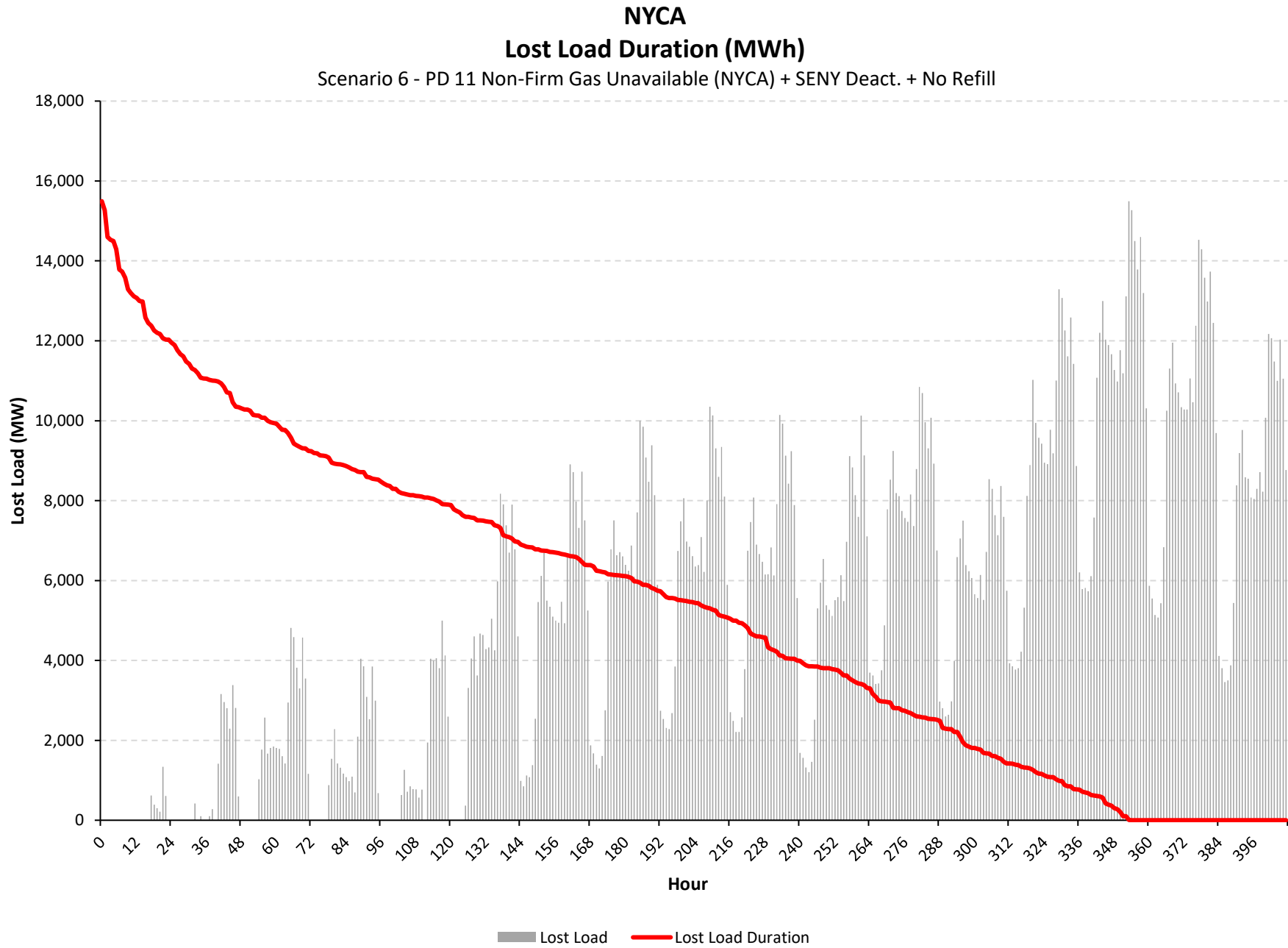


Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 6 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill





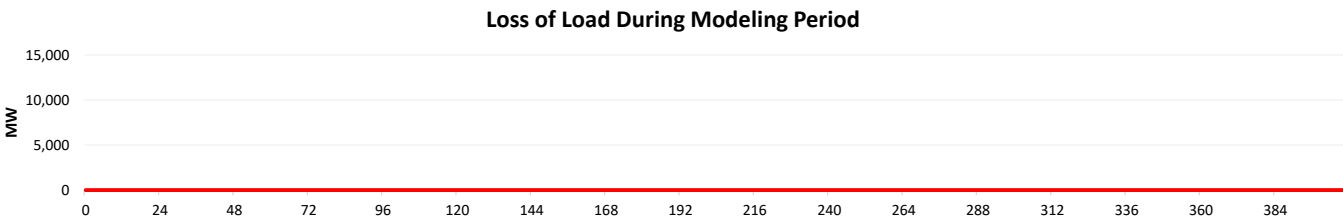
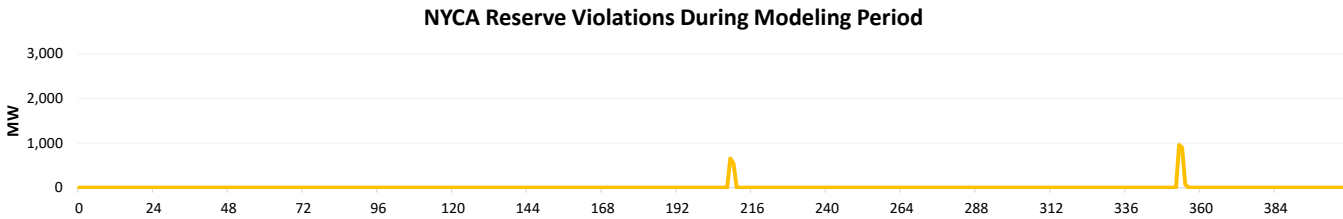
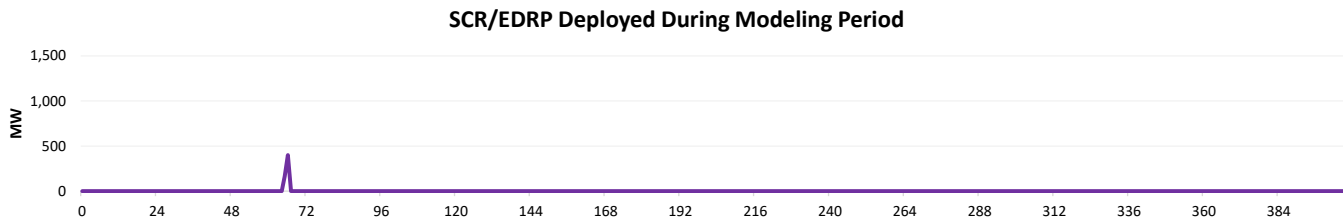
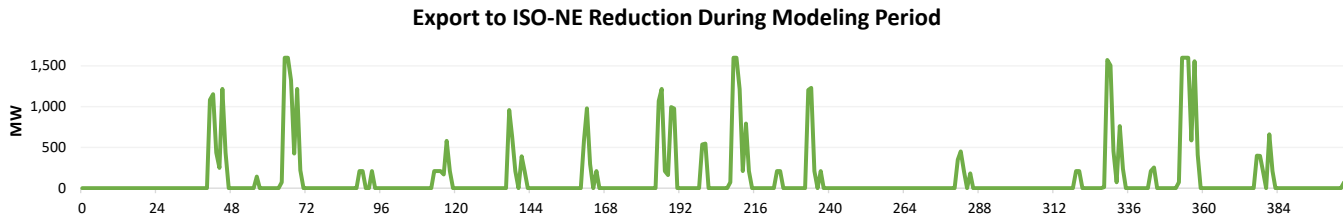
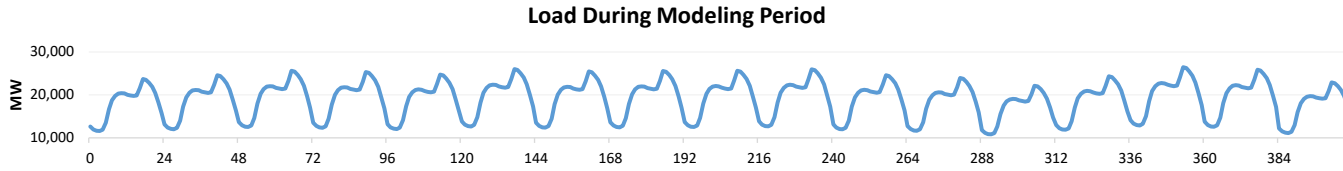
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 7 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	81
Total MWh	48,595
Avg. MW	119.1

SCR Deployment	
Total Hrs.	2
Total MWh	565
Avg. MW	1.4

Reserve Violations	
Total Hrs.	5
Total MWh	3,126
Avg. MW	7.7
First Hour with Viol.	209
First Hour, Zone K	

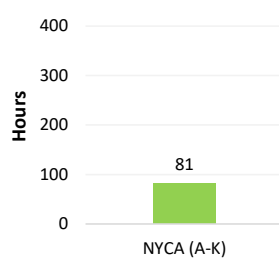
Loss of Load	
Total Hrs.	0
Total MWh	0
Avg. MW	0.0
First Hour with Losses	
First Hour, Zone K	

Full Period Results Summary

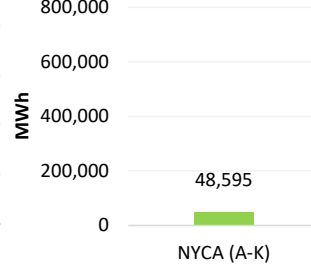
Case Name: Scenario 7 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

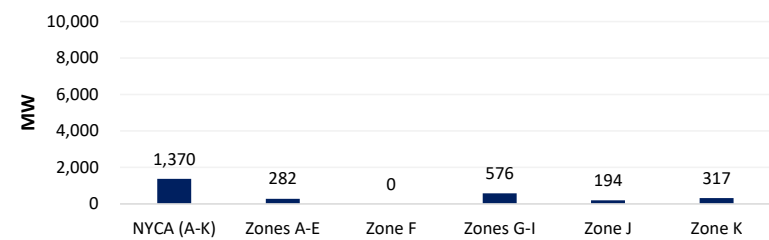
Hours Exports Reduced



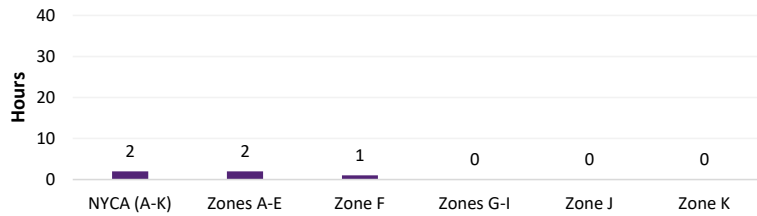
Total MWh of Exports Reduced



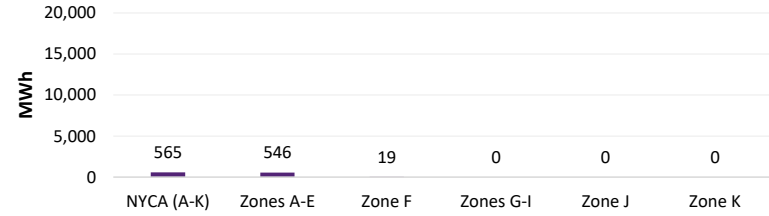
Average Capacity Not Available Due to Exhausted Fuel Inventory



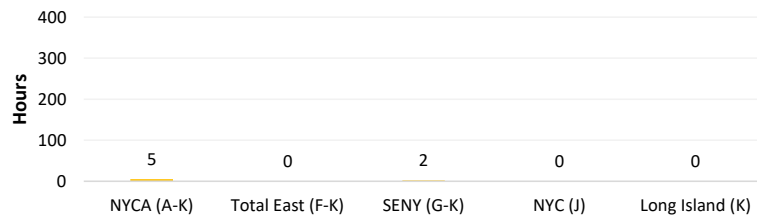
Hours SCR/EDRP Deployed



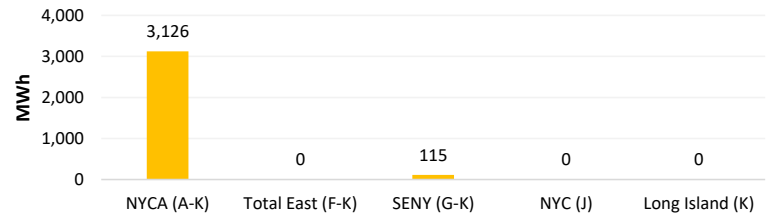
Total MWh SCR/EDRP Deployed



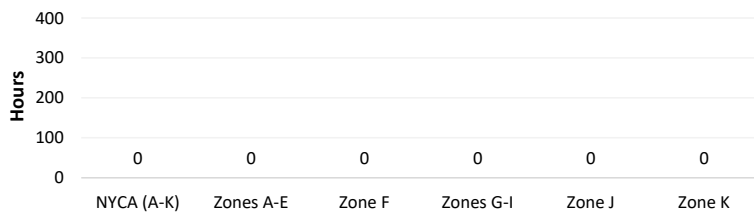
Hours with Reserve Violations



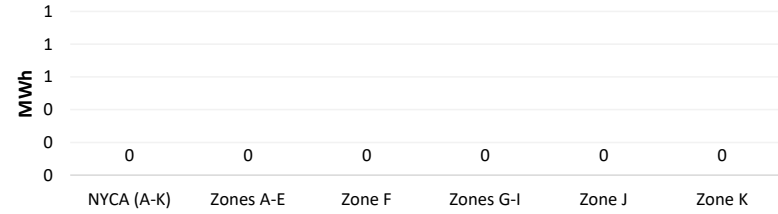
Total MWh of Reserve Violations



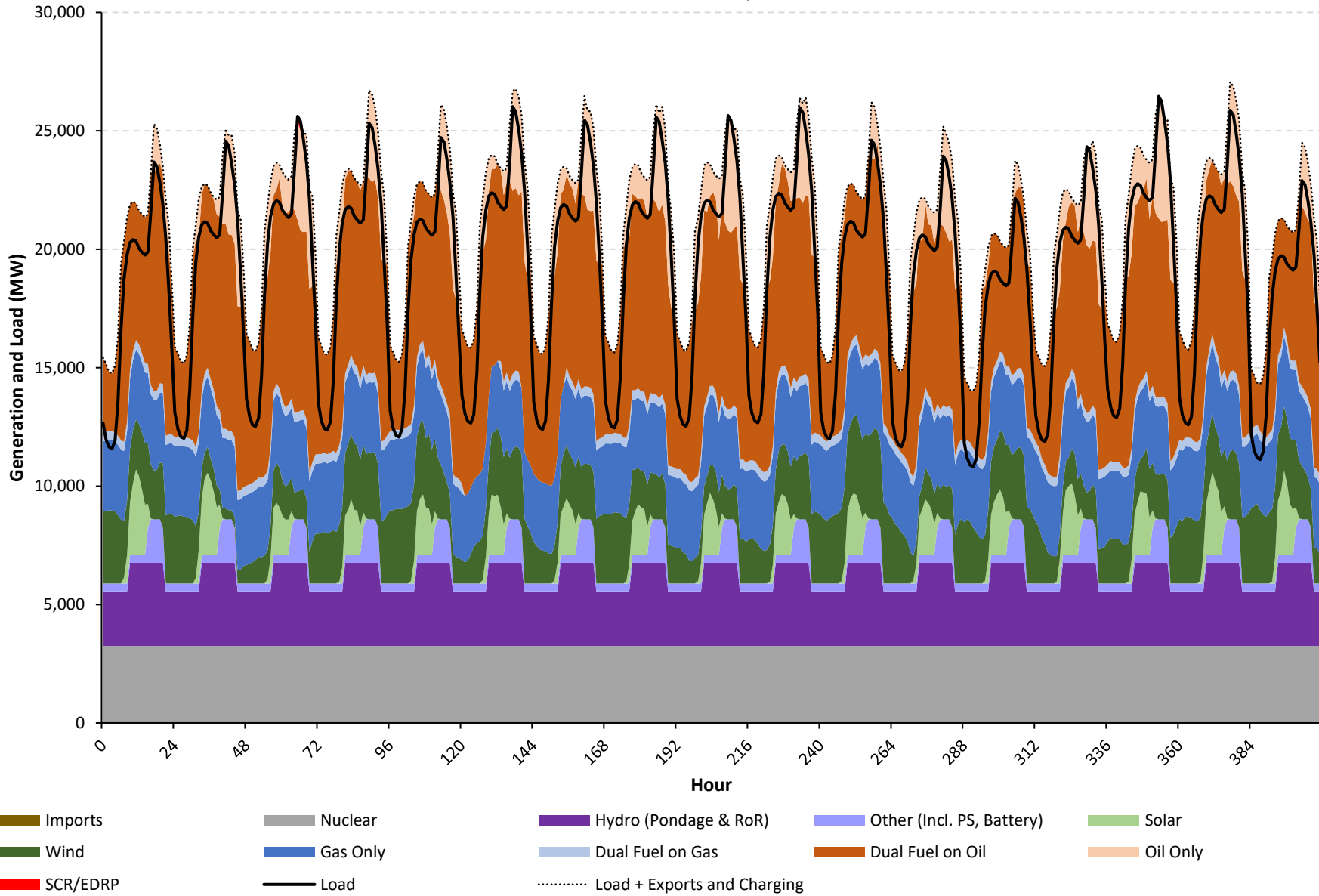
Hours with Loss of Load



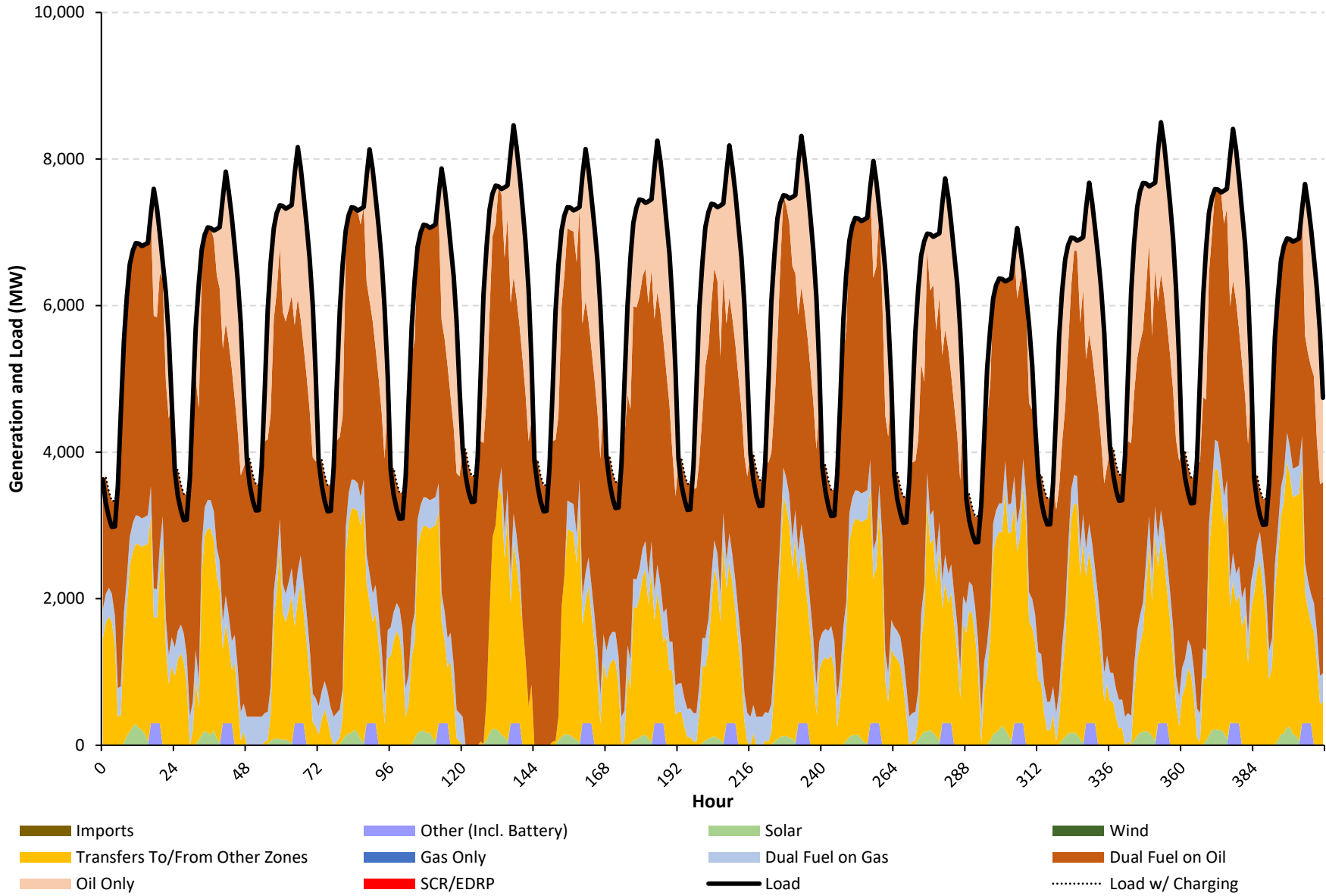
Total MWh of Lost Load



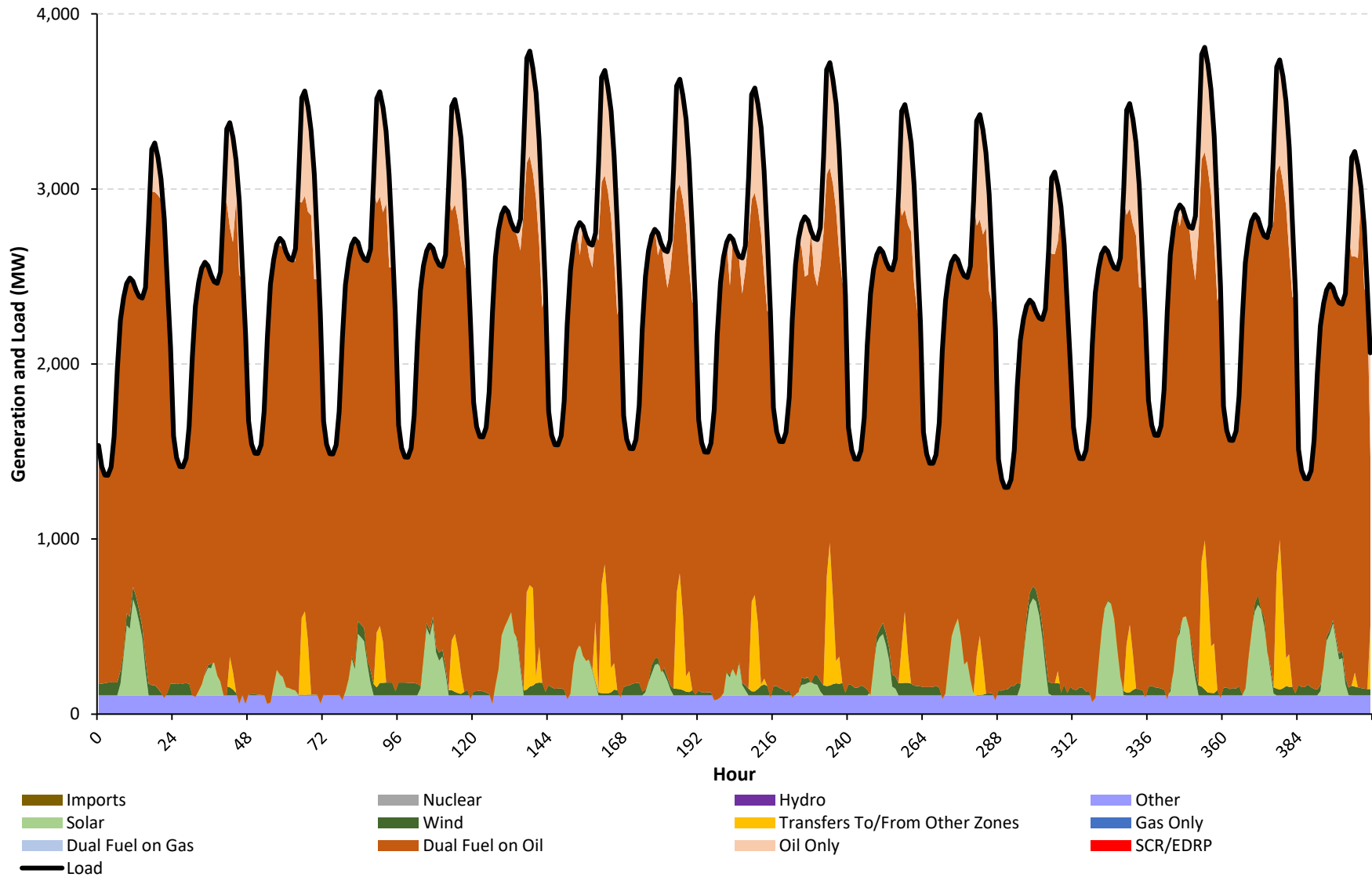
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 1 No Disruptions



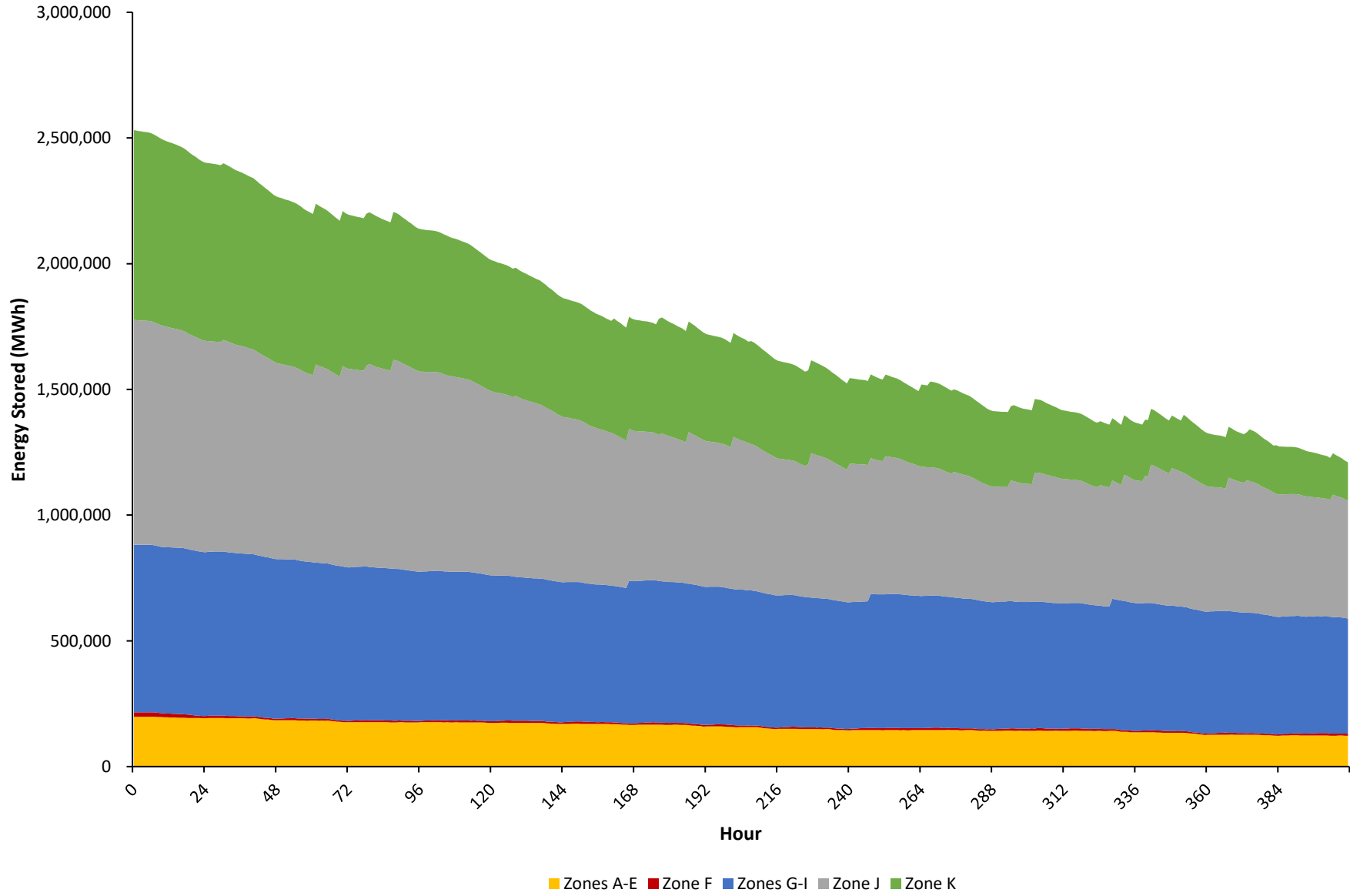
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 1 No Disruptions



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 1 No Disruptions

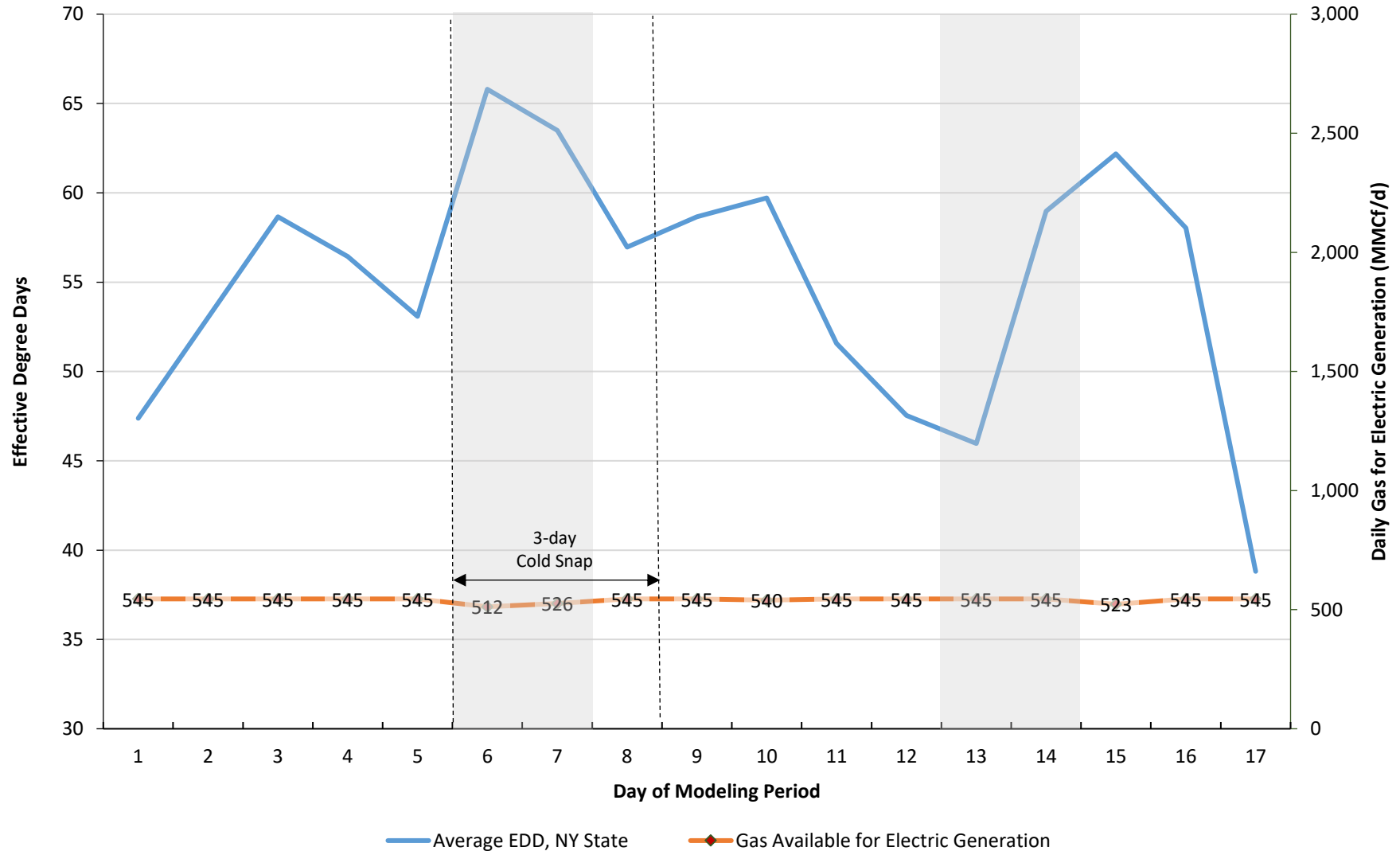


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 1 No Disruptions



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

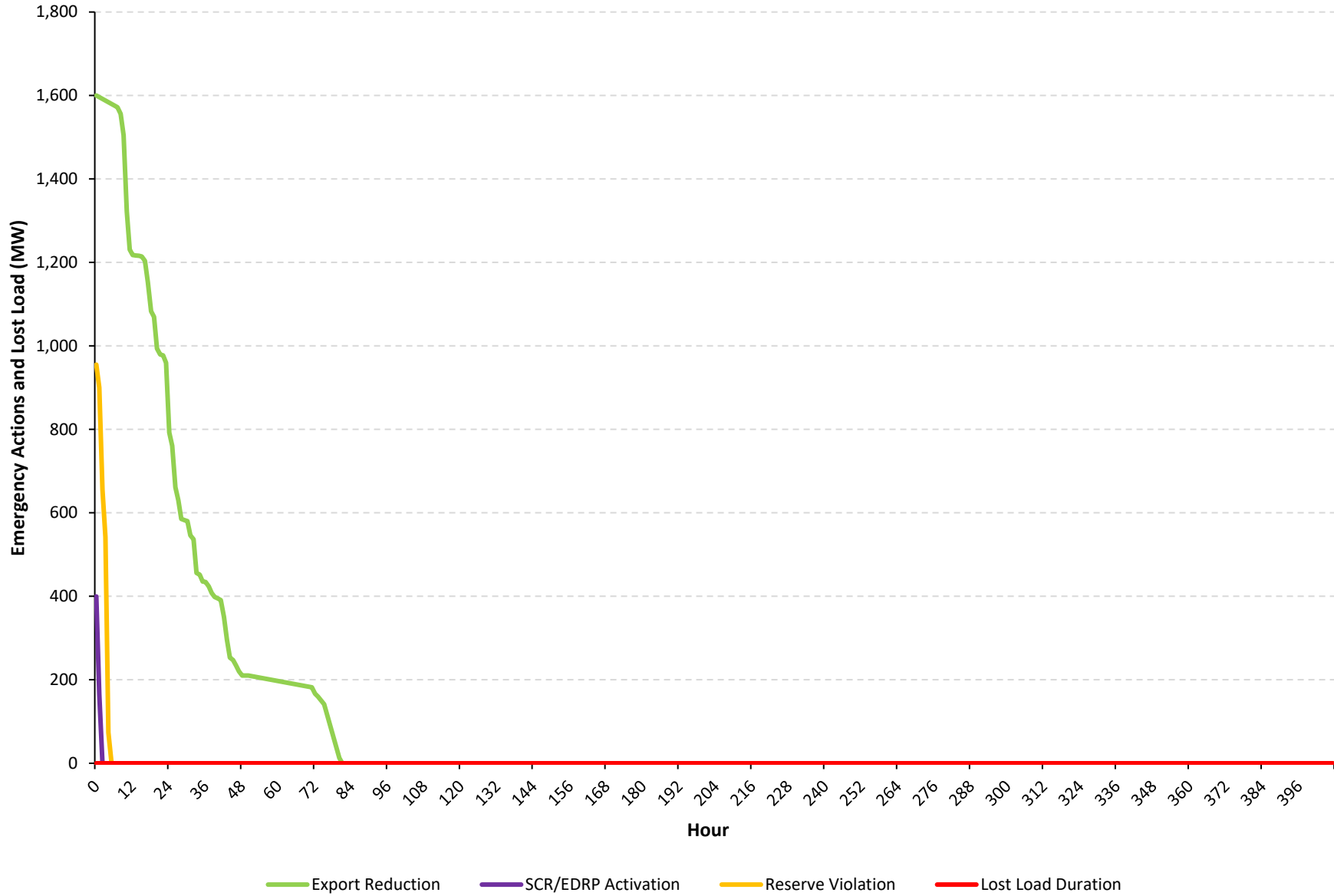
Scenario 7 - PD 1 No Disruptions



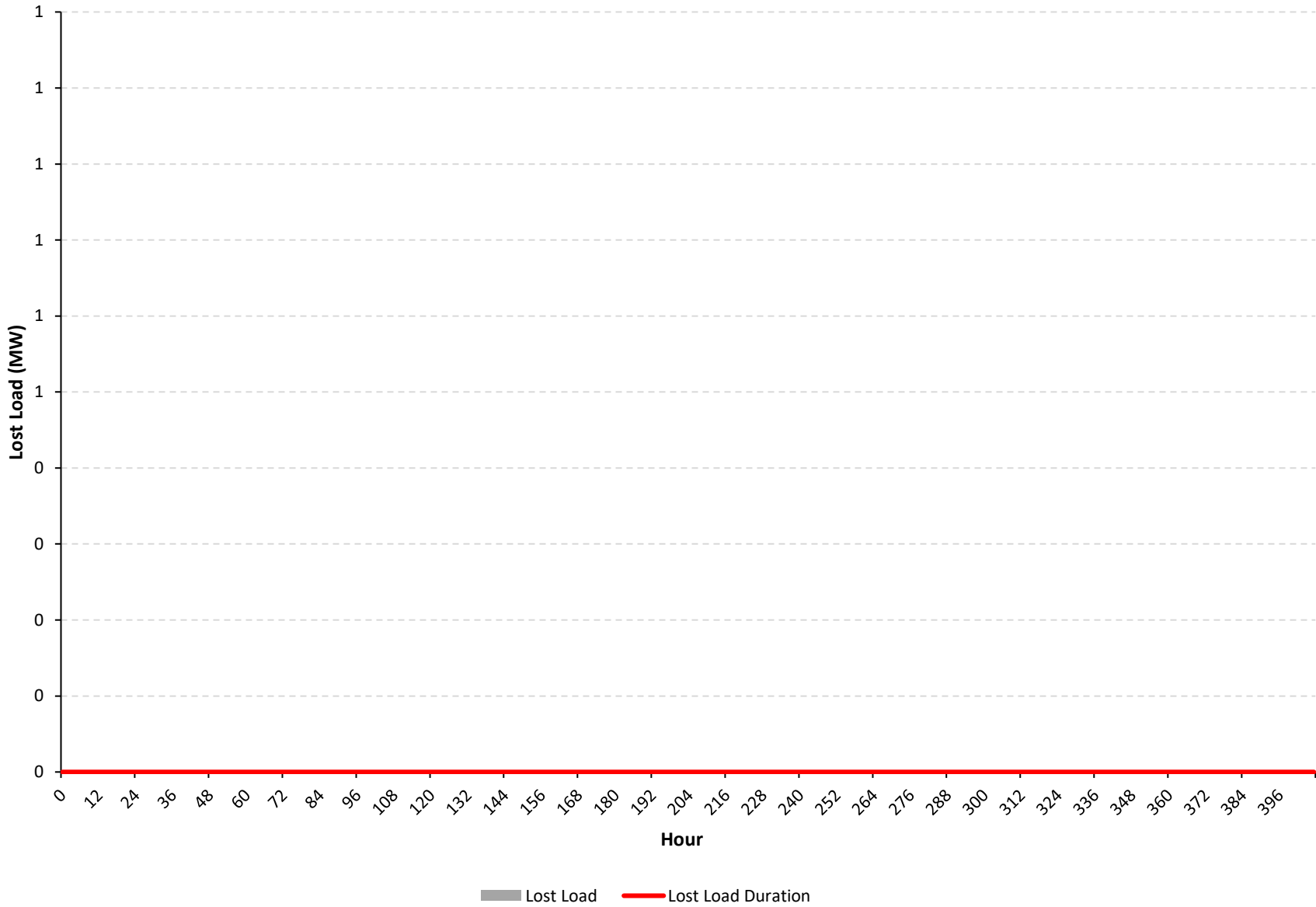
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 1 No Disruptions



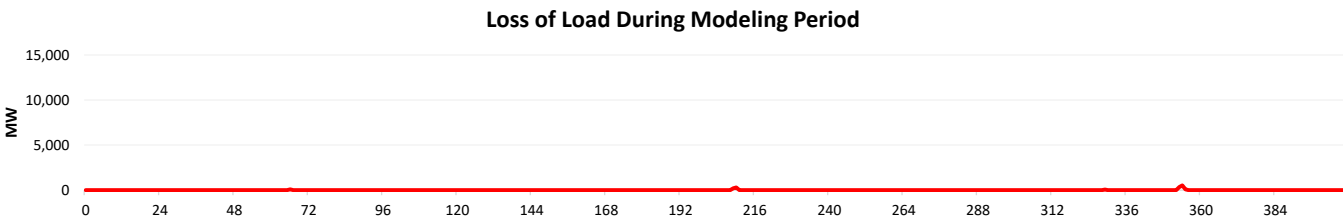
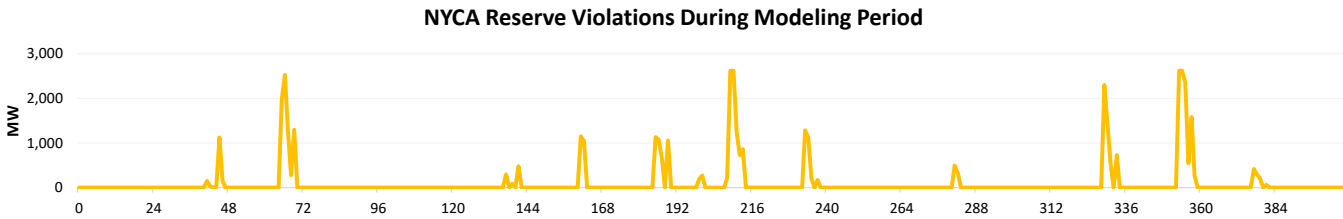
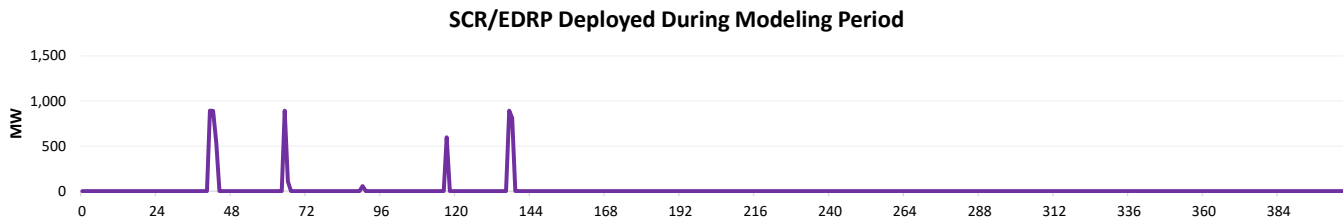
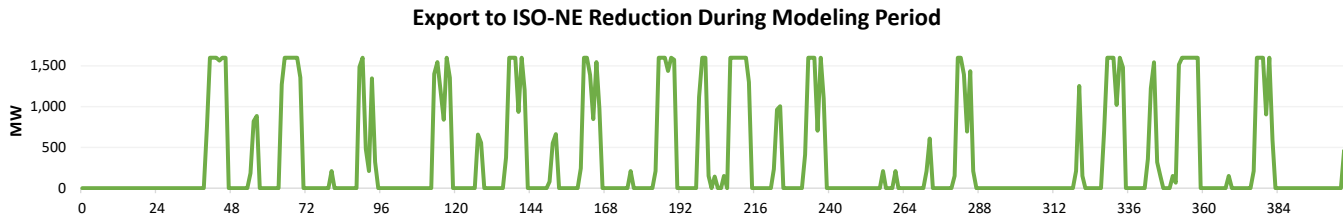
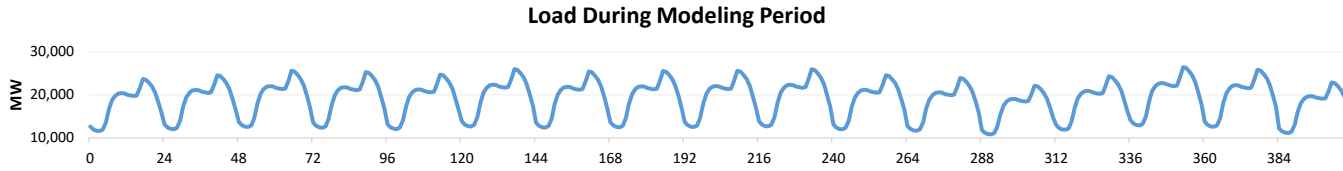
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 7 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	125
Total MWh	135,765
Avg. MW	332.8

SCR Deployment	
Total Hrs.	9
Total MWh	5,679
Avg. MW	13.9

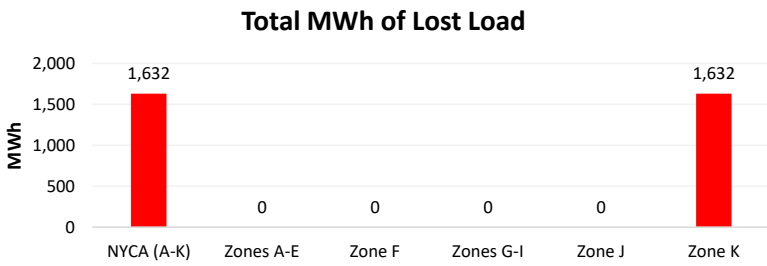
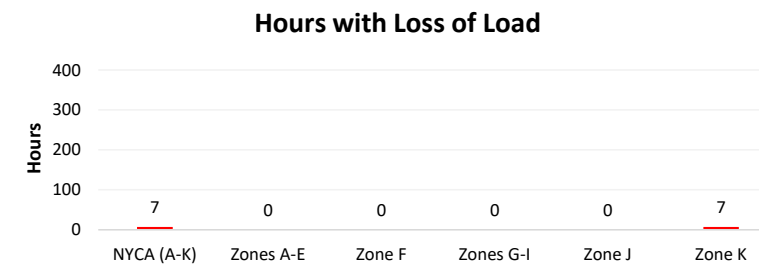
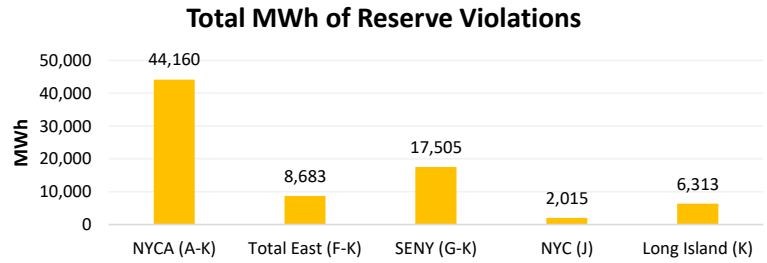
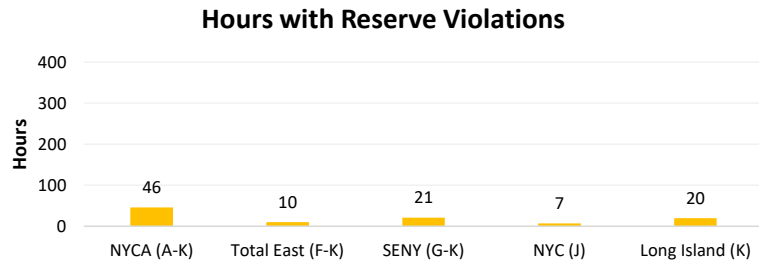
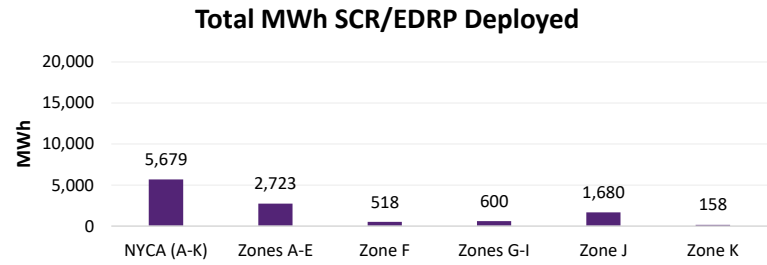
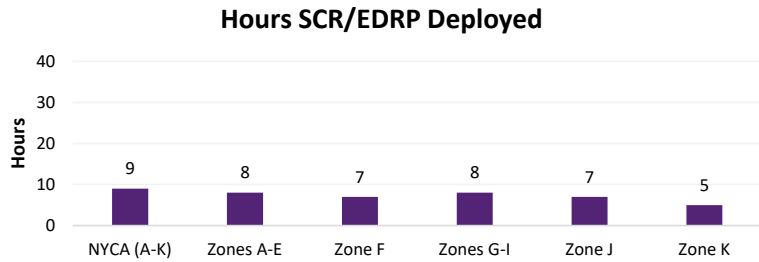
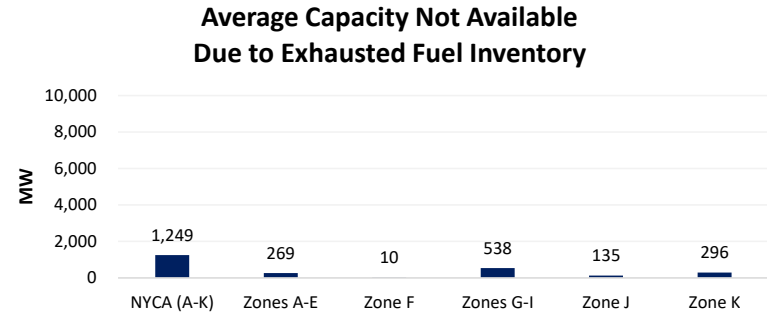
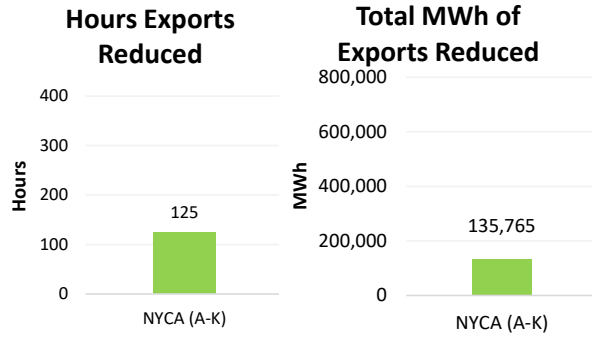
Reserve Violations	
Total Hrs.	46
Total MWh	44,160
Avg. MW	108.2
First Hour with Viol.	41
First Hour, Zone K	45

Loss of Load	
Total Hrs.	7
Total MWh	1,632
Avg. MW	4.0
First Hour with Losses	66
First Hour, Zone K	66

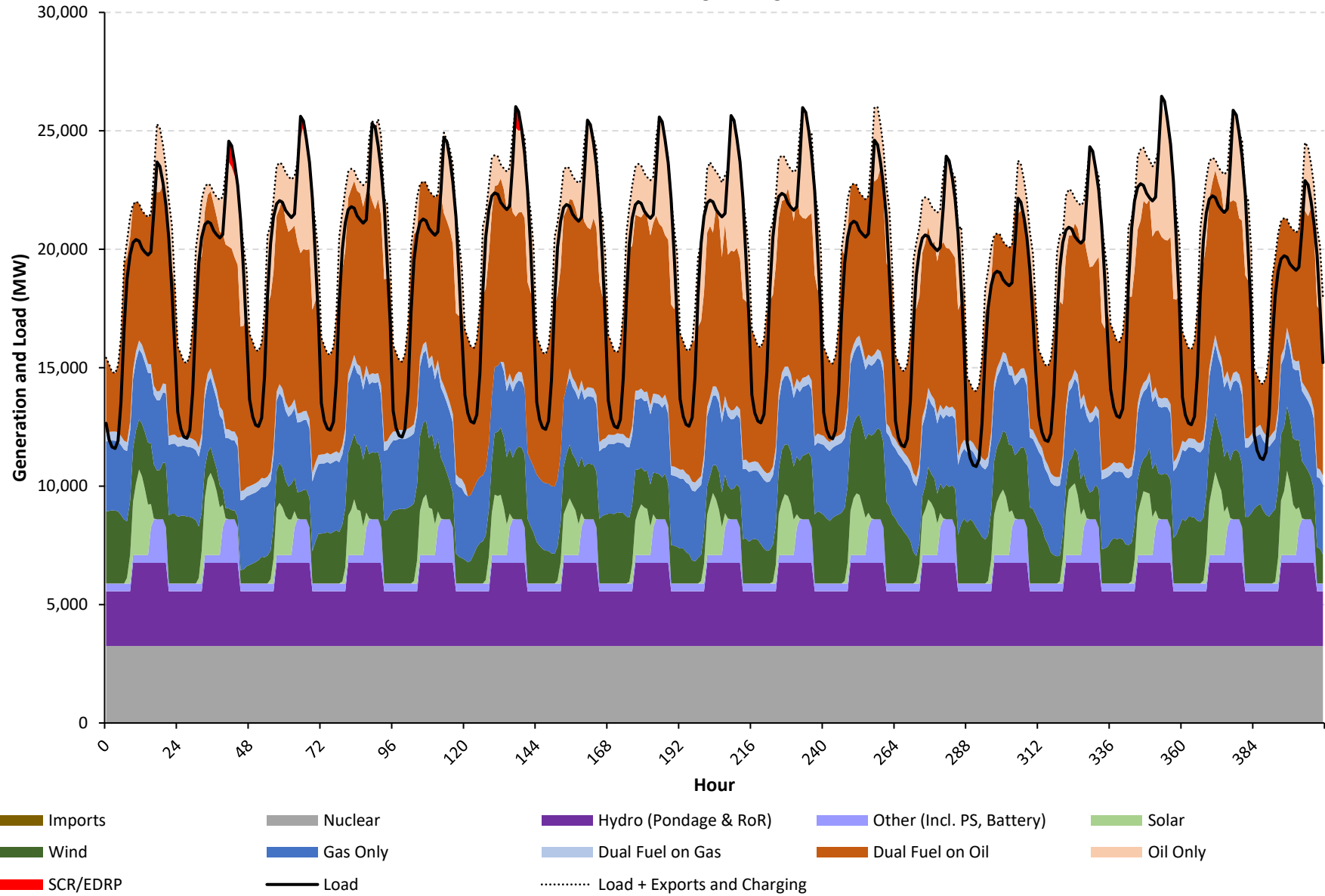
Full Period Results Summary

Case Name: Scenario 7 - PD 2 High Outage

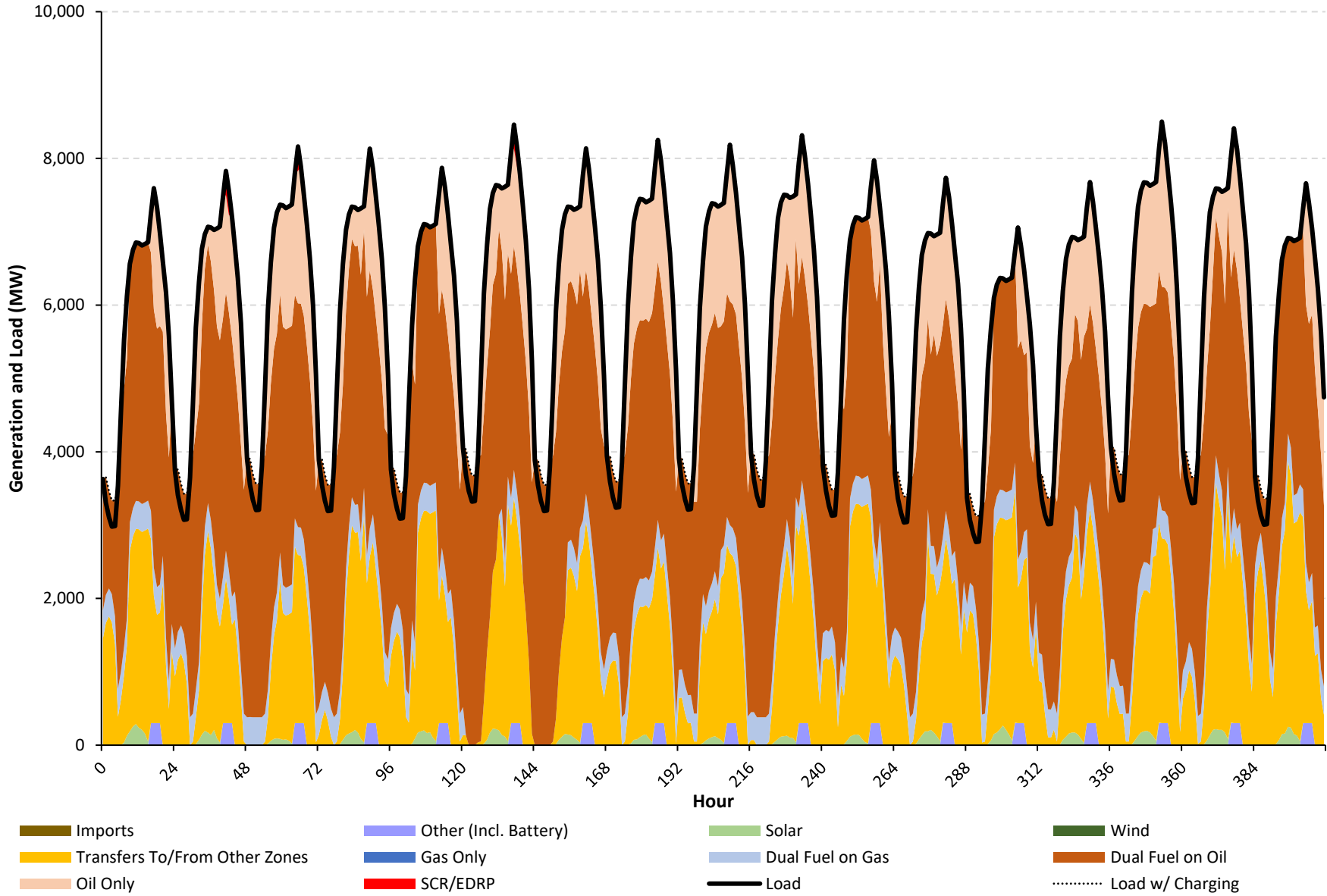
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



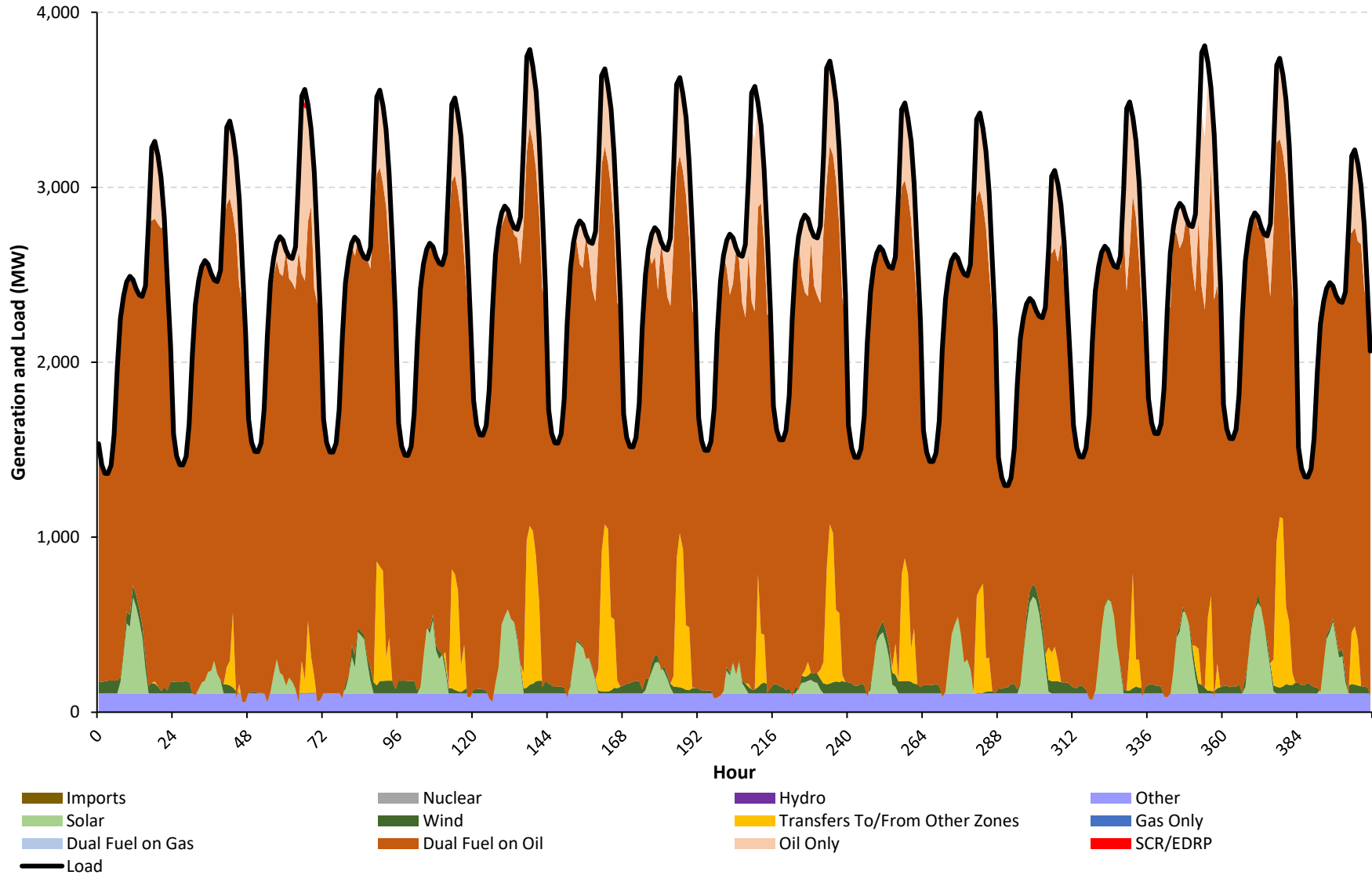
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 2 High Outage



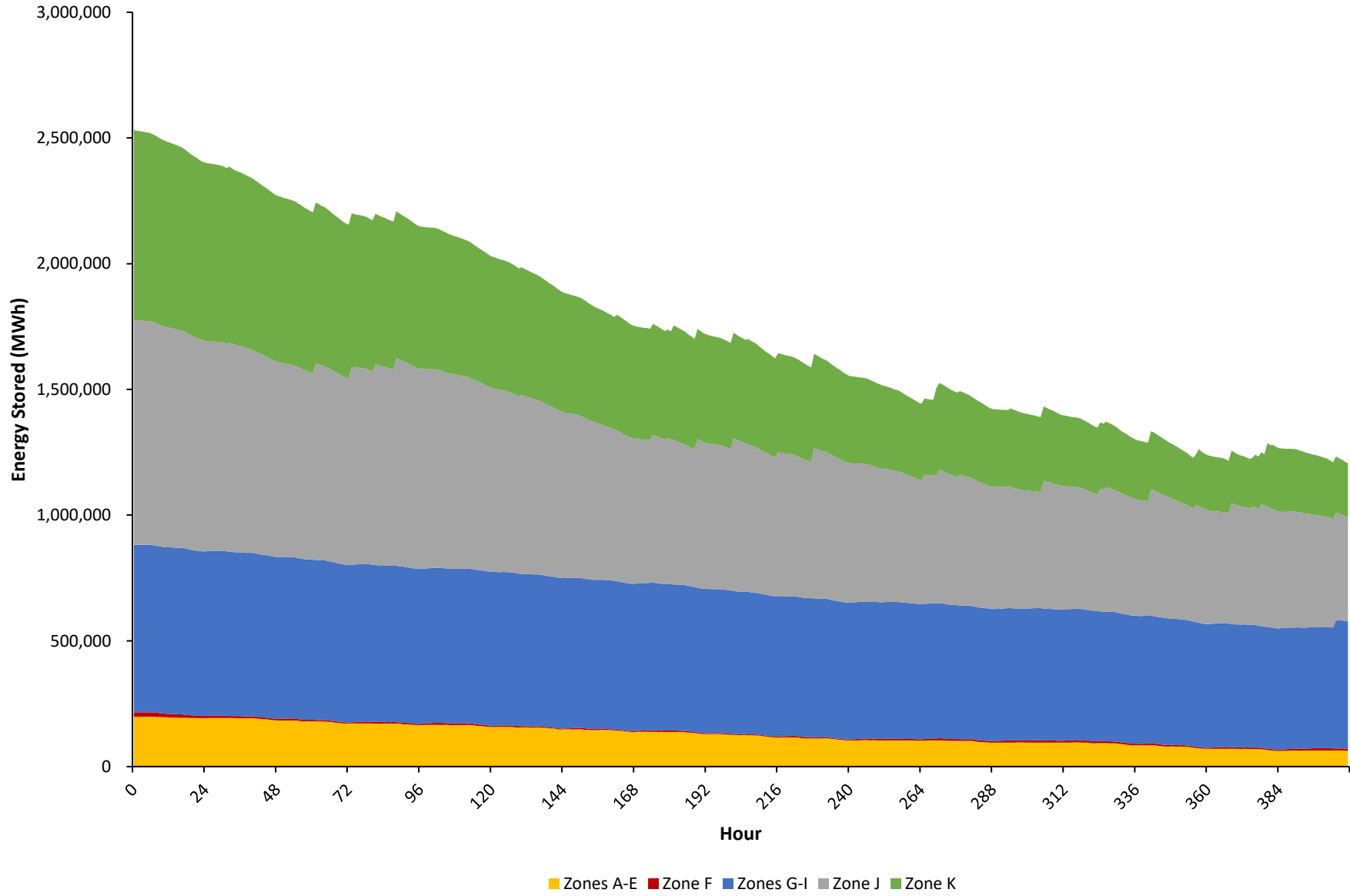
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 2 High Outage

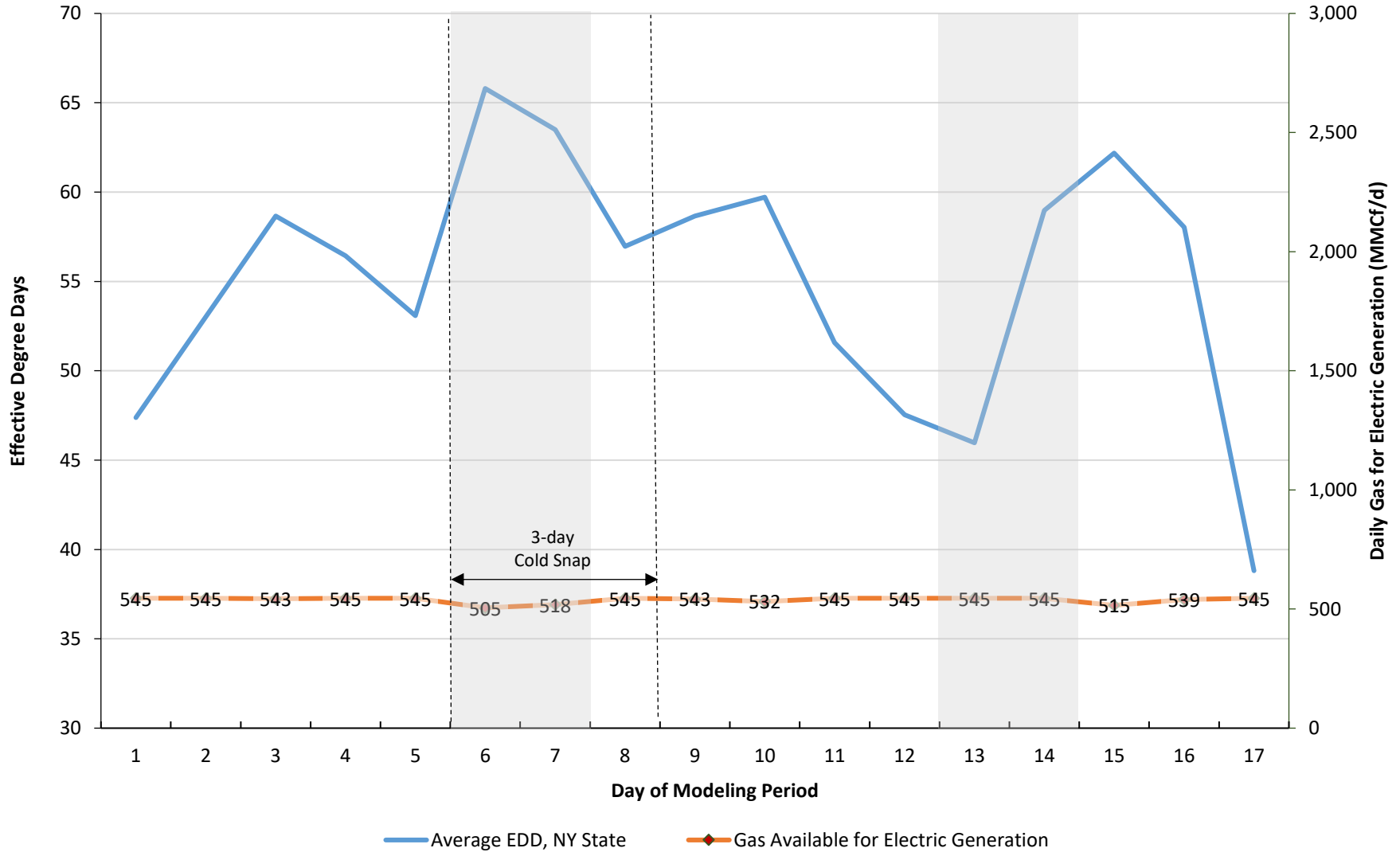


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

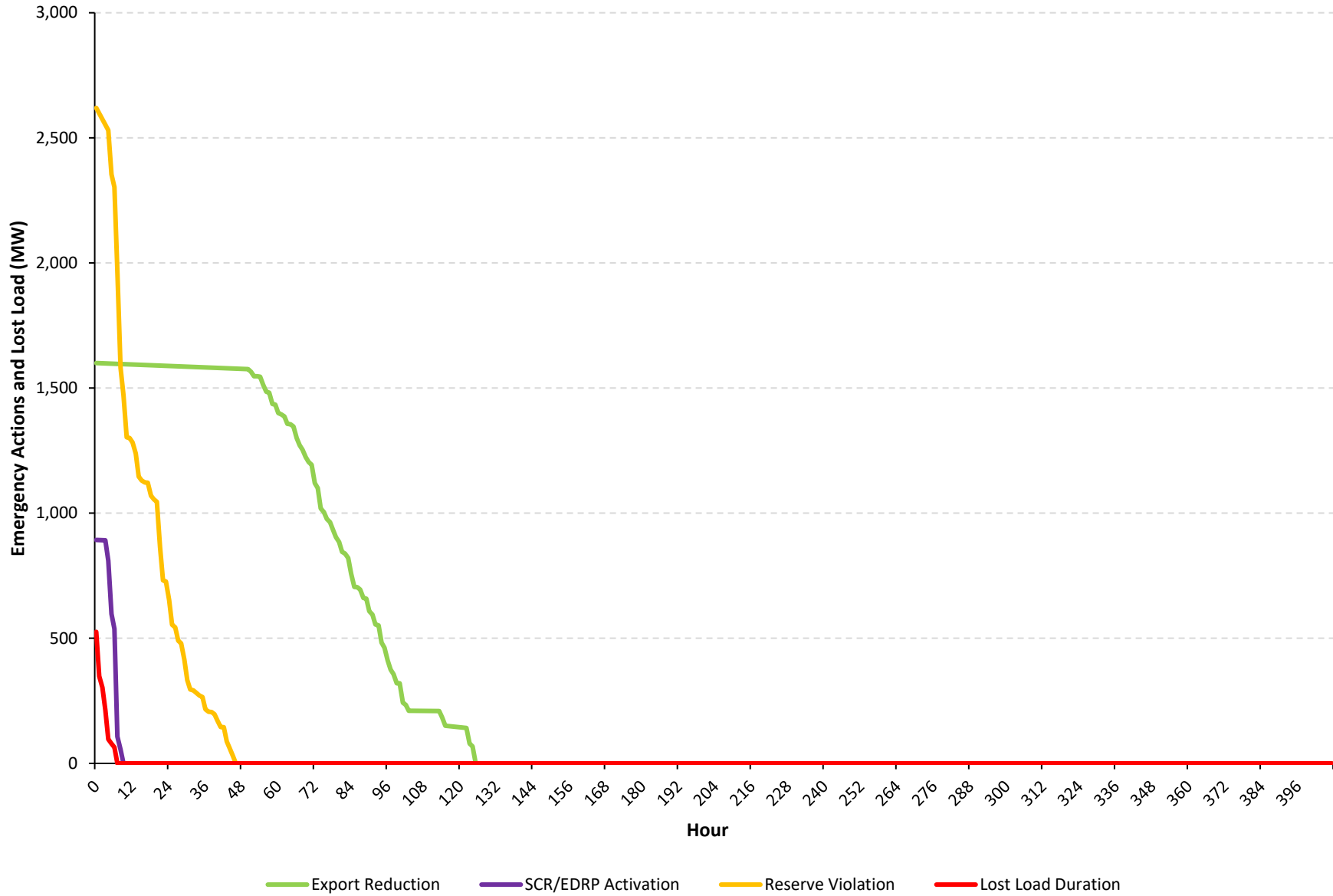
Scenario 7 - PD 2 High Outage



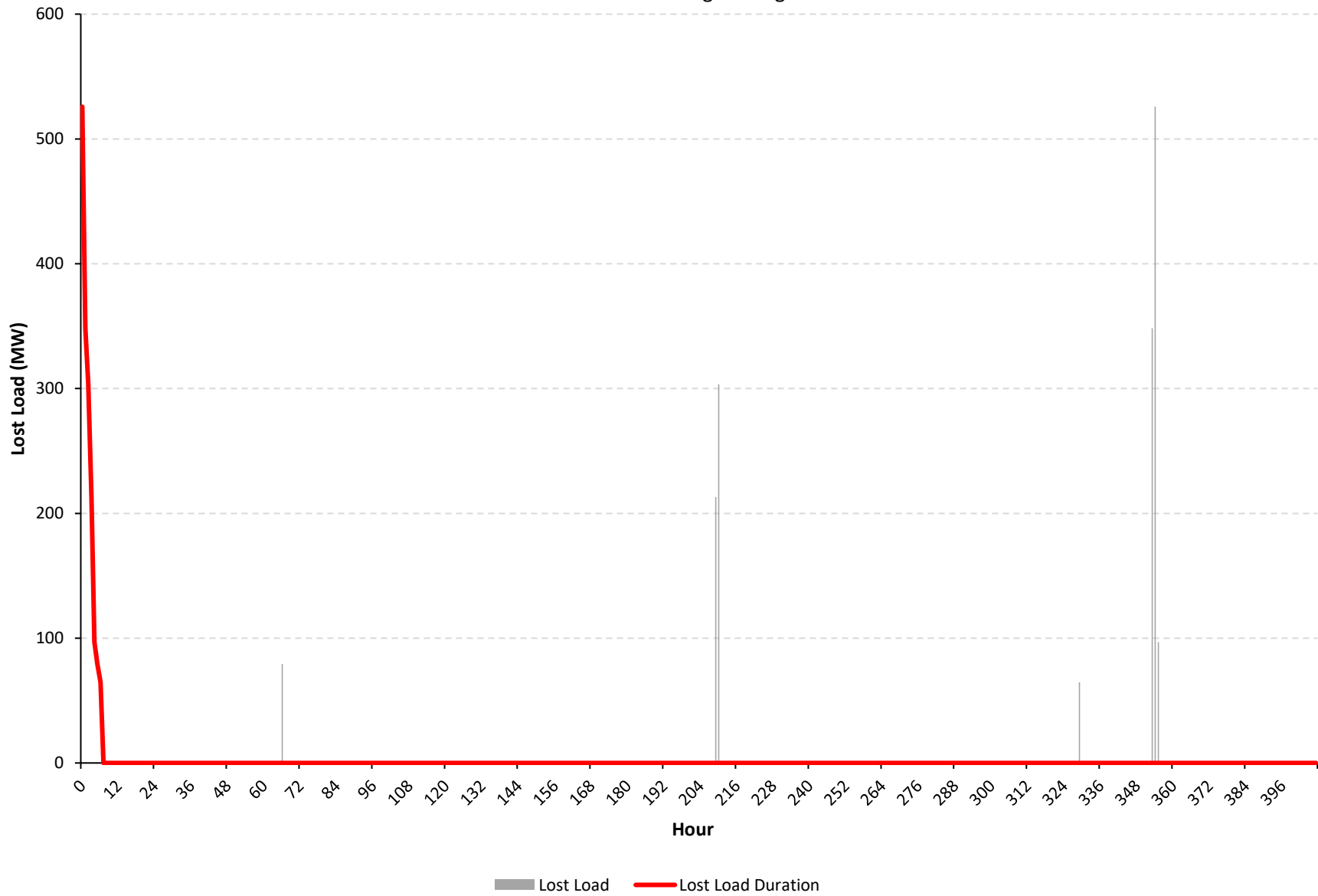
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 2 High Outage



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 2 High Outage

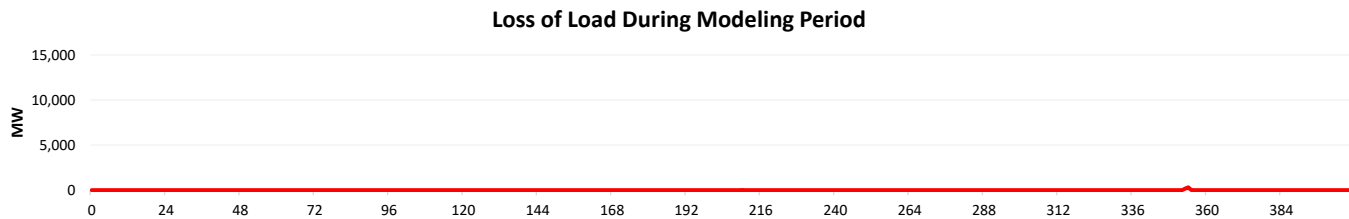
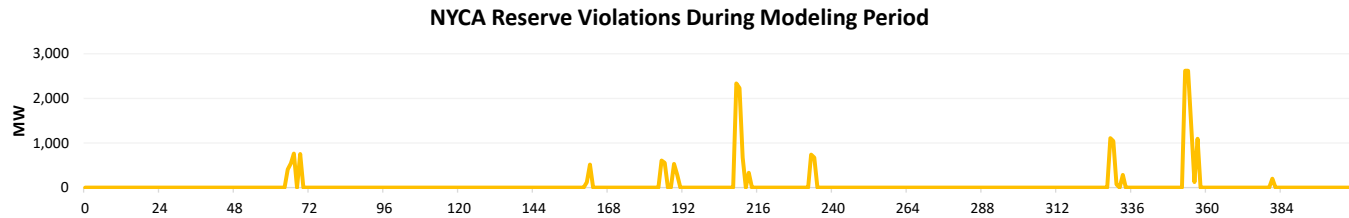
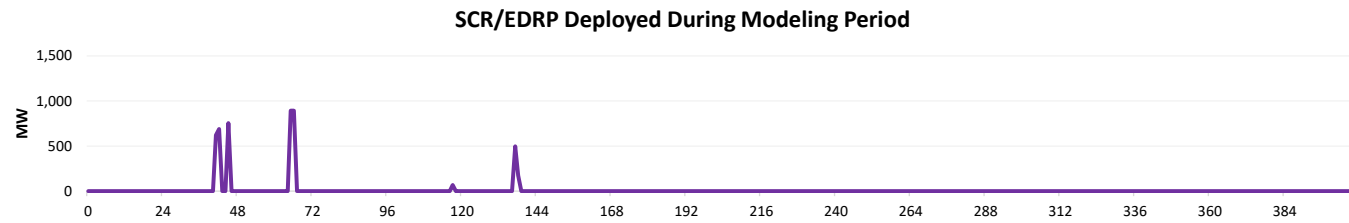
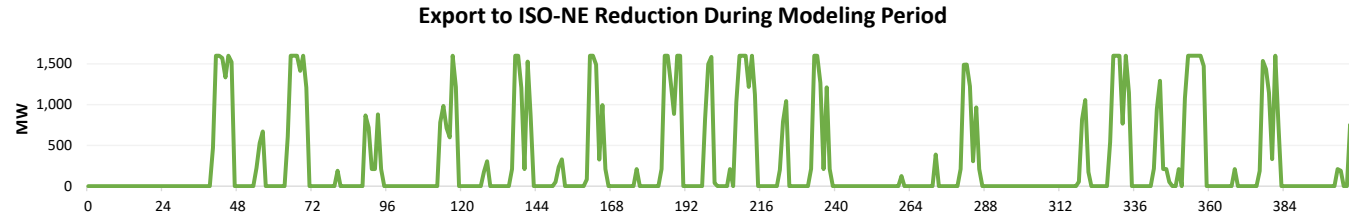
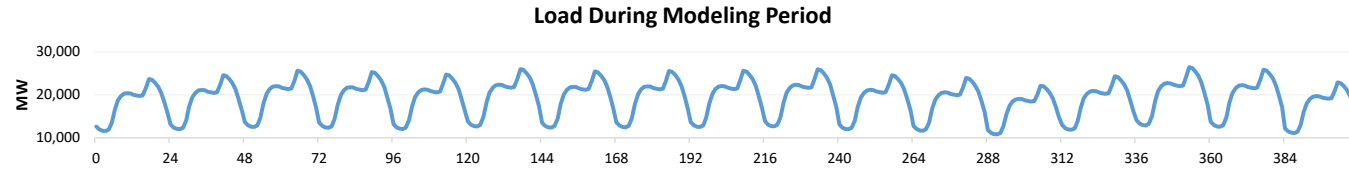


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 7 - PD 3 SENY Deactivation



Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	125
Total MWh	115,518
Avg. MW	283.1

SCR Deployment	
Total Hrs.	8
Total MWh	4,588
Avg. MW	11.2

Reserve Violations	
Total Hrs.	26
Total MWh	22,596
Avg. MW	55.4
First Hour with Viol.	65
First Hour, Zone K	65

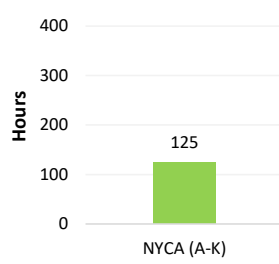
Loss of Load	
Total Hrs.	3
Total MWh	498
Avg. MW	1.2
First Hour with Losses	210
First Hour, Zone K	210

Full Period Results Summary

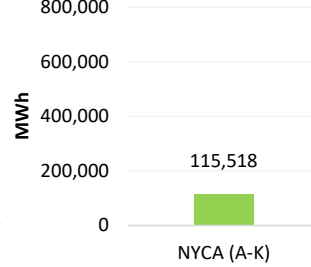
Case Name: Scenario 7 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW

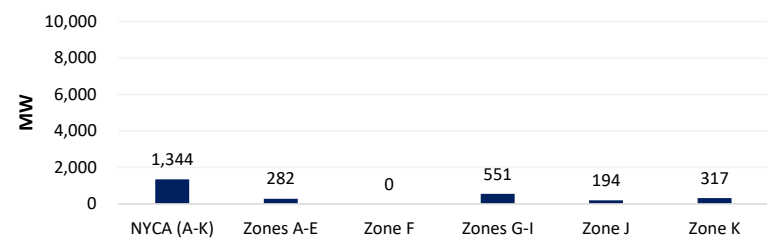
Hours Exports Reduced



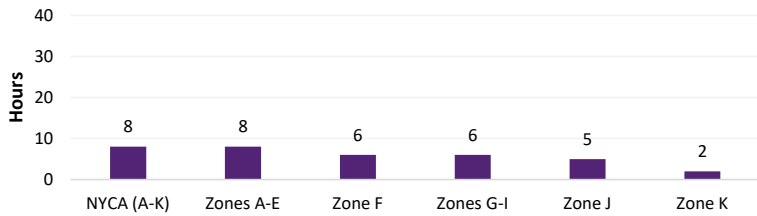
Total MWh of Exports Reduced



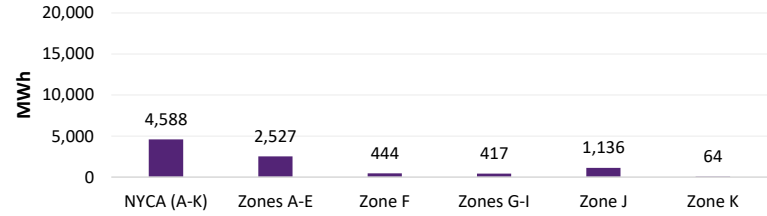
Average Capacity Not Available Due to Exhausted Fuel Inventory



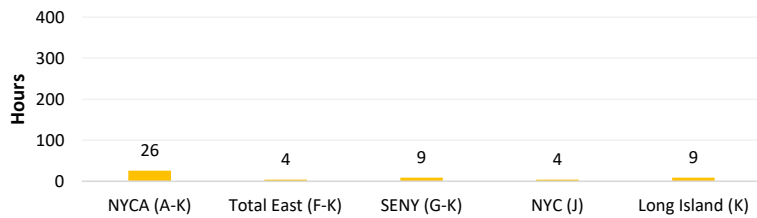
Hours SCR/EDRP Deployed



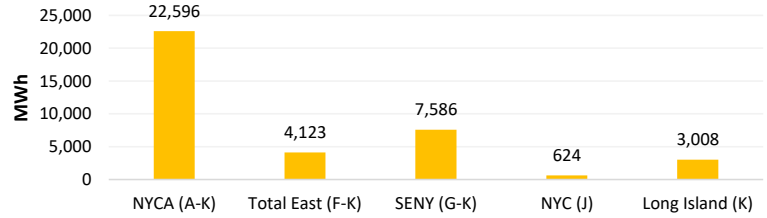
Total MWh SCR/EDRP Deployed



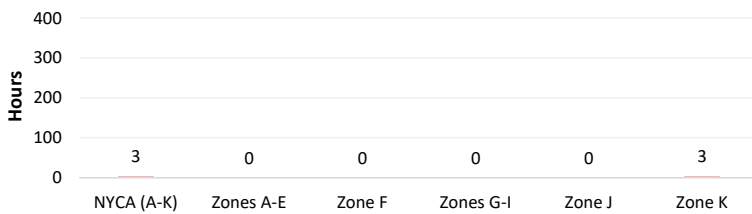
Hours with Reserve Violations



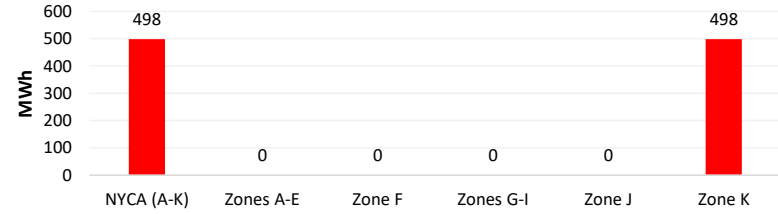
Total MWh of Reserve Violations



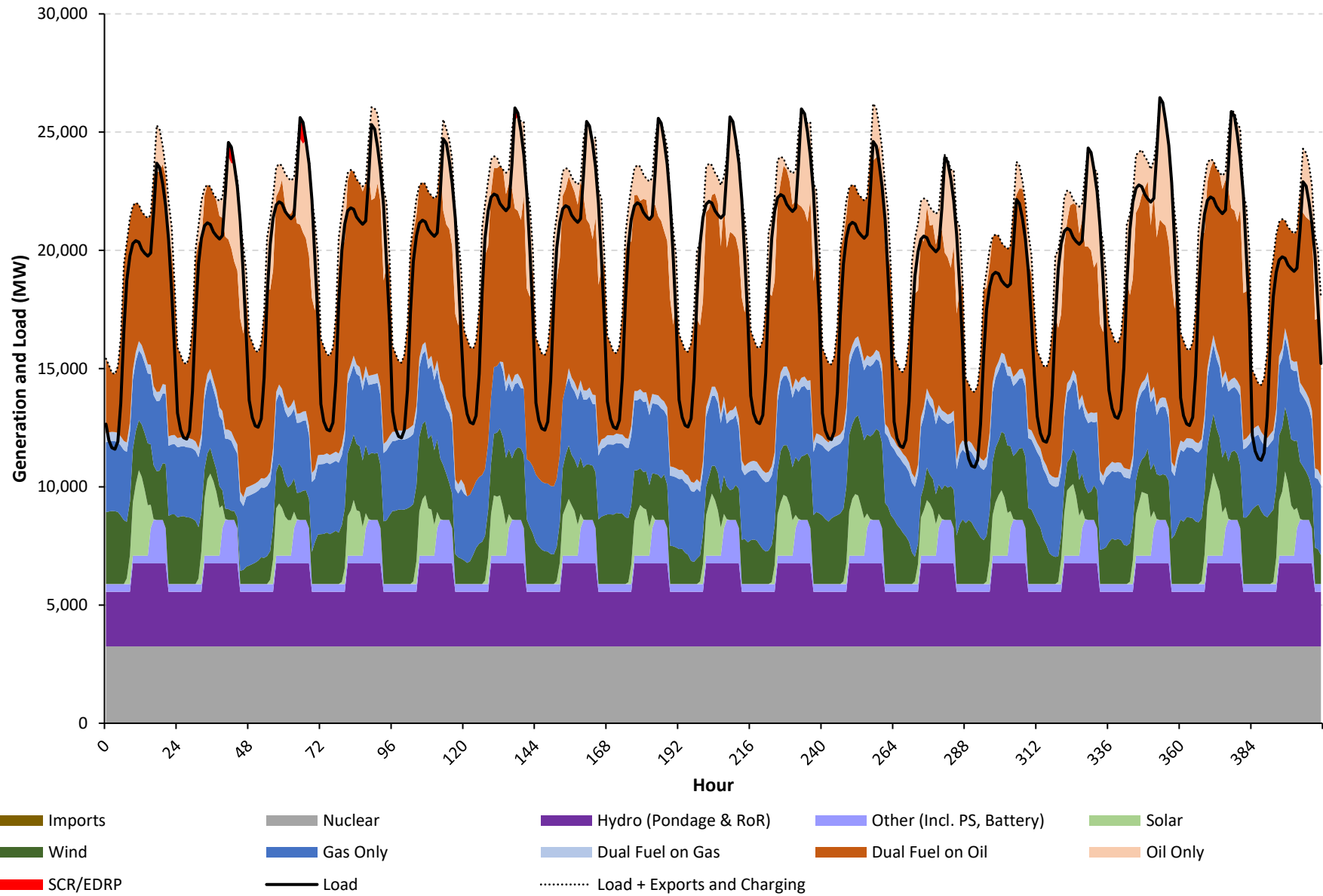
Hours with Loss of Load



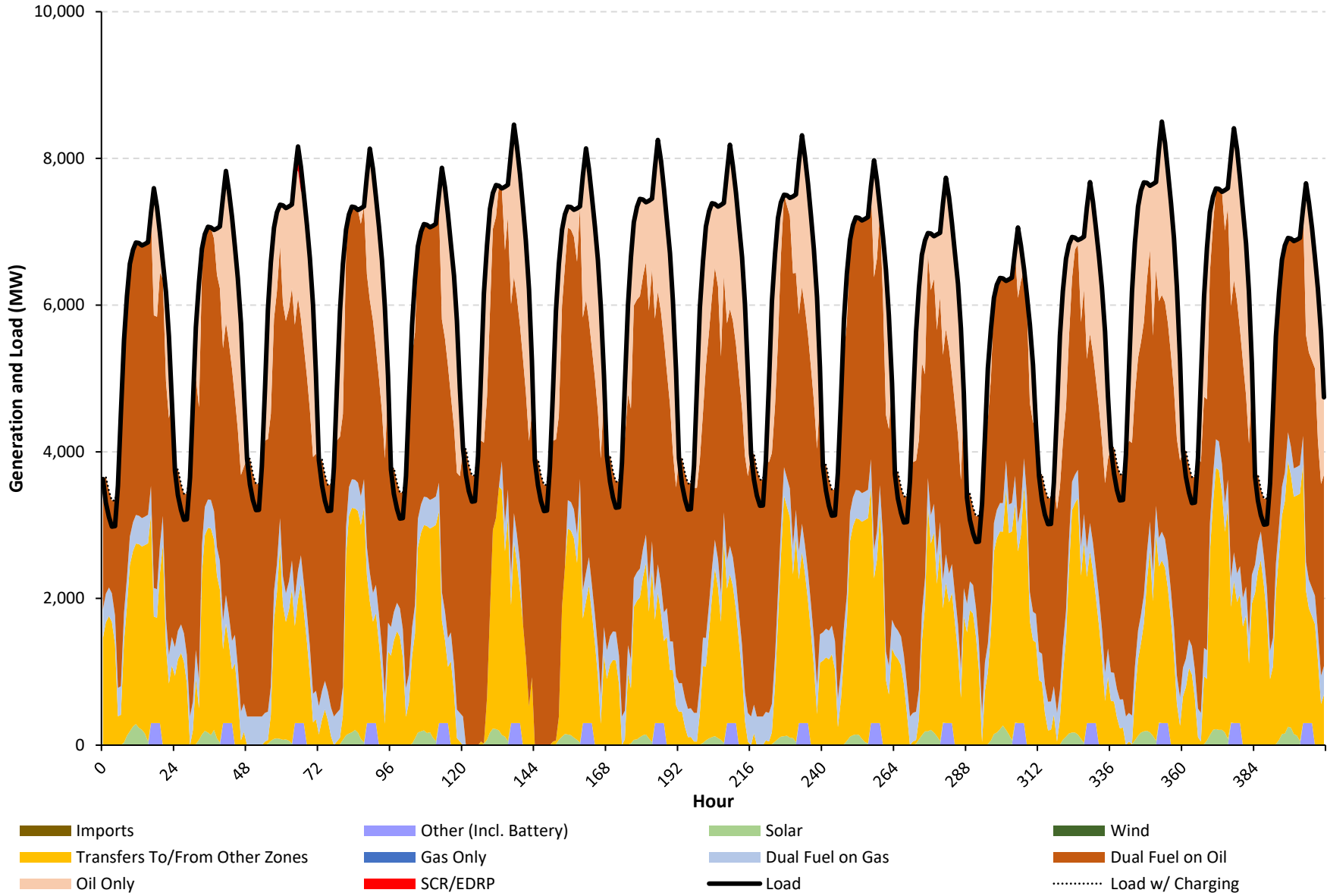
Total MWh of Lost Load



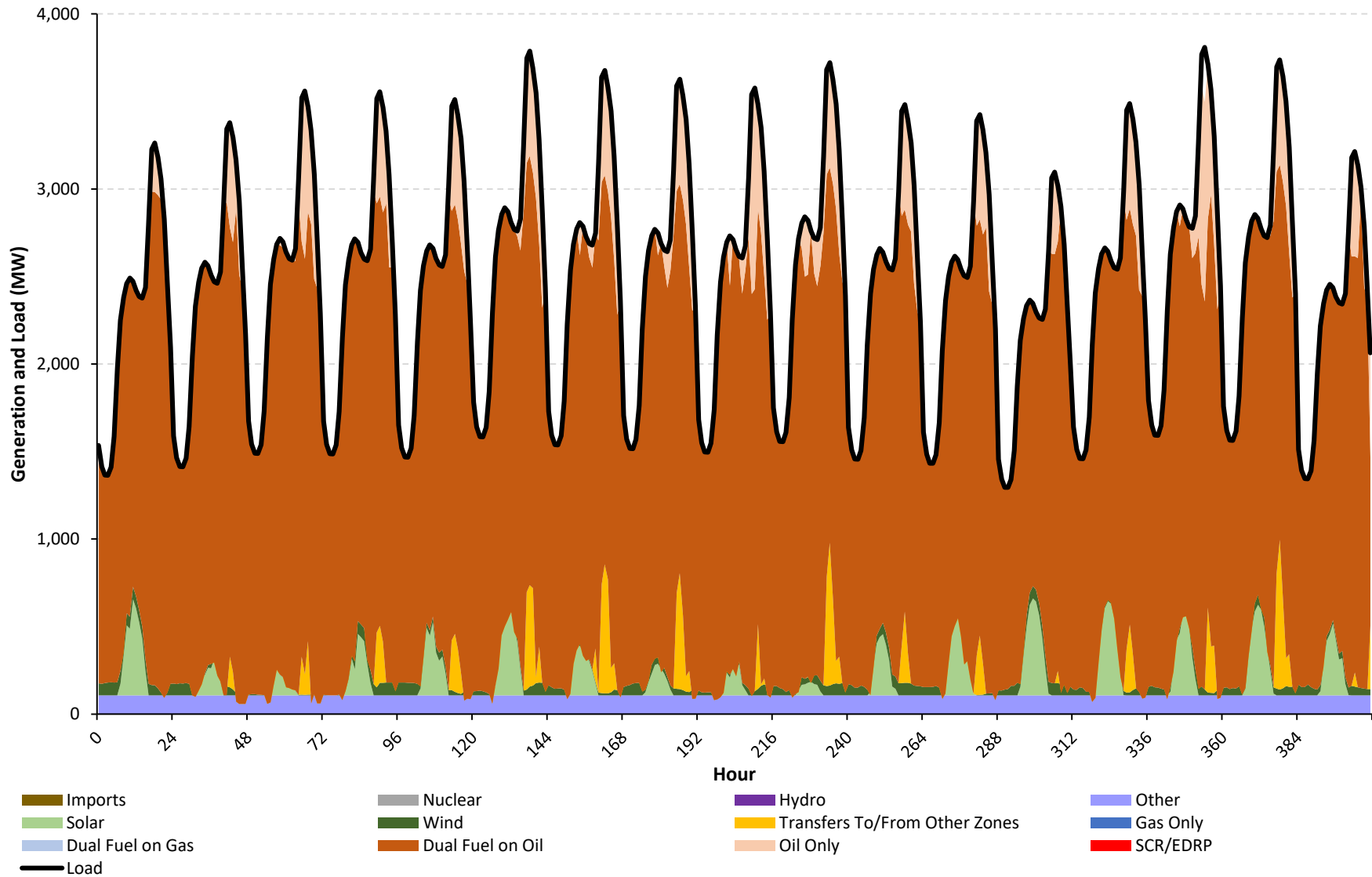
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 3 SENY Deactivation



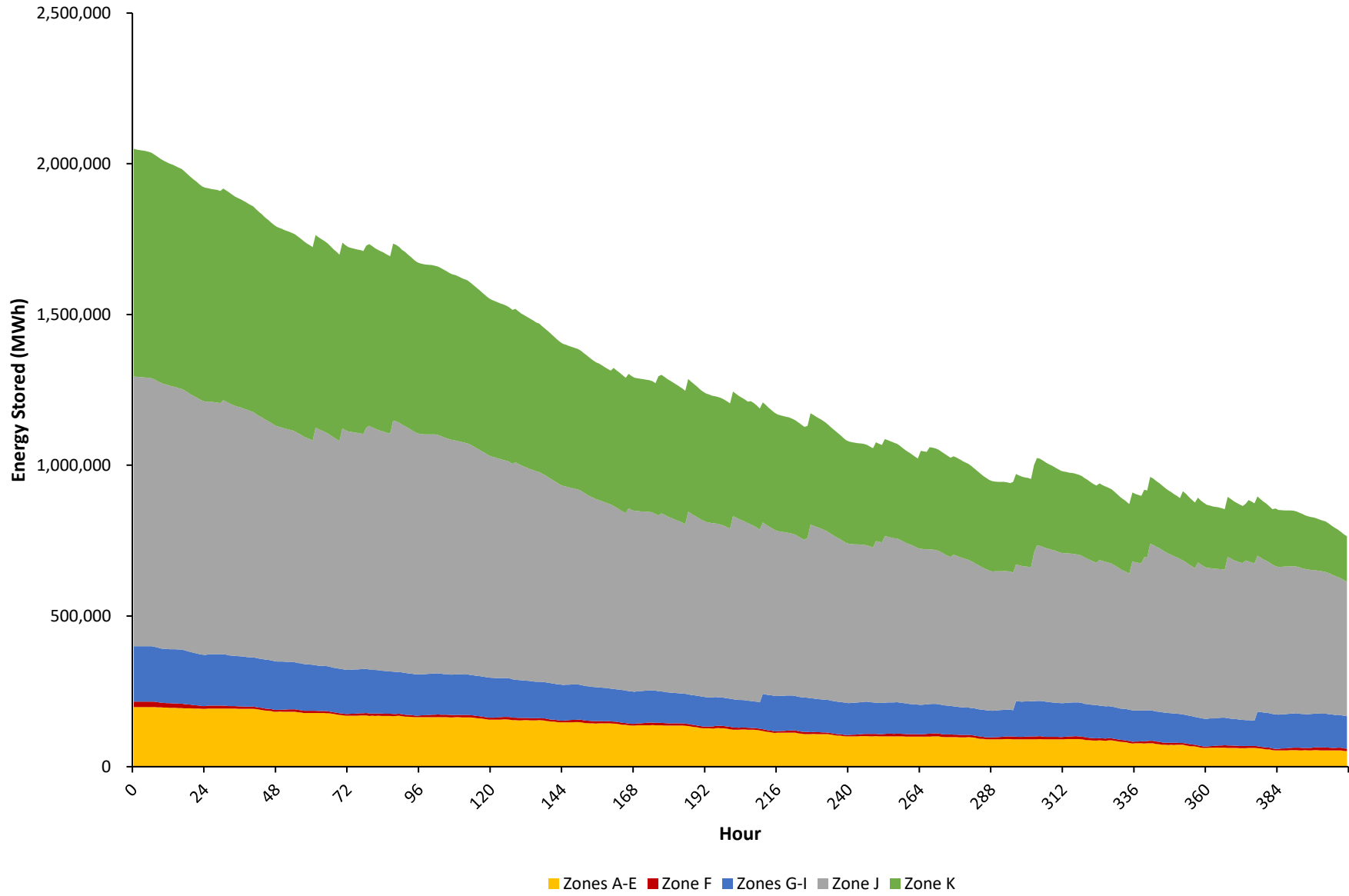
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 3 SENY Deactivation

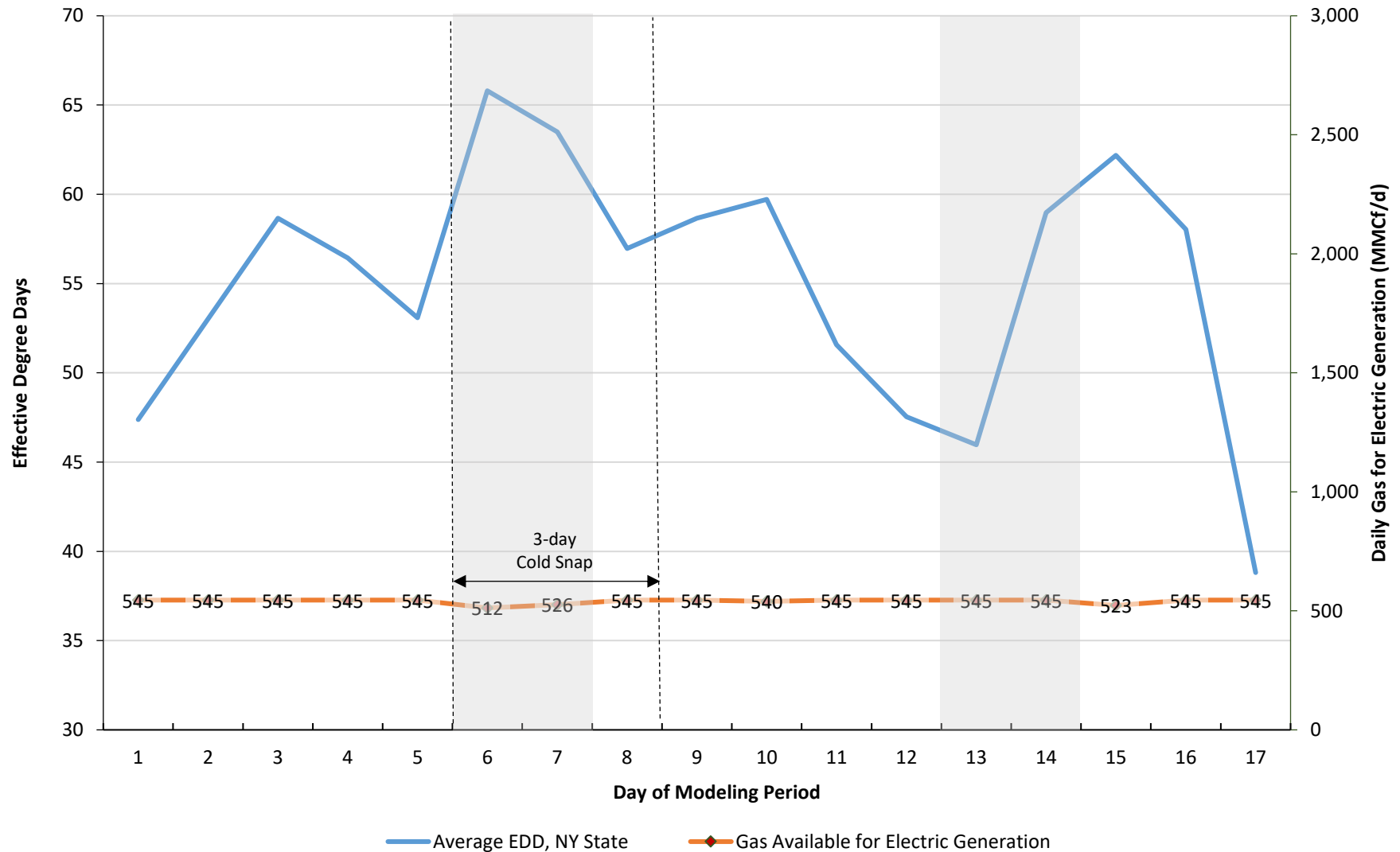


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

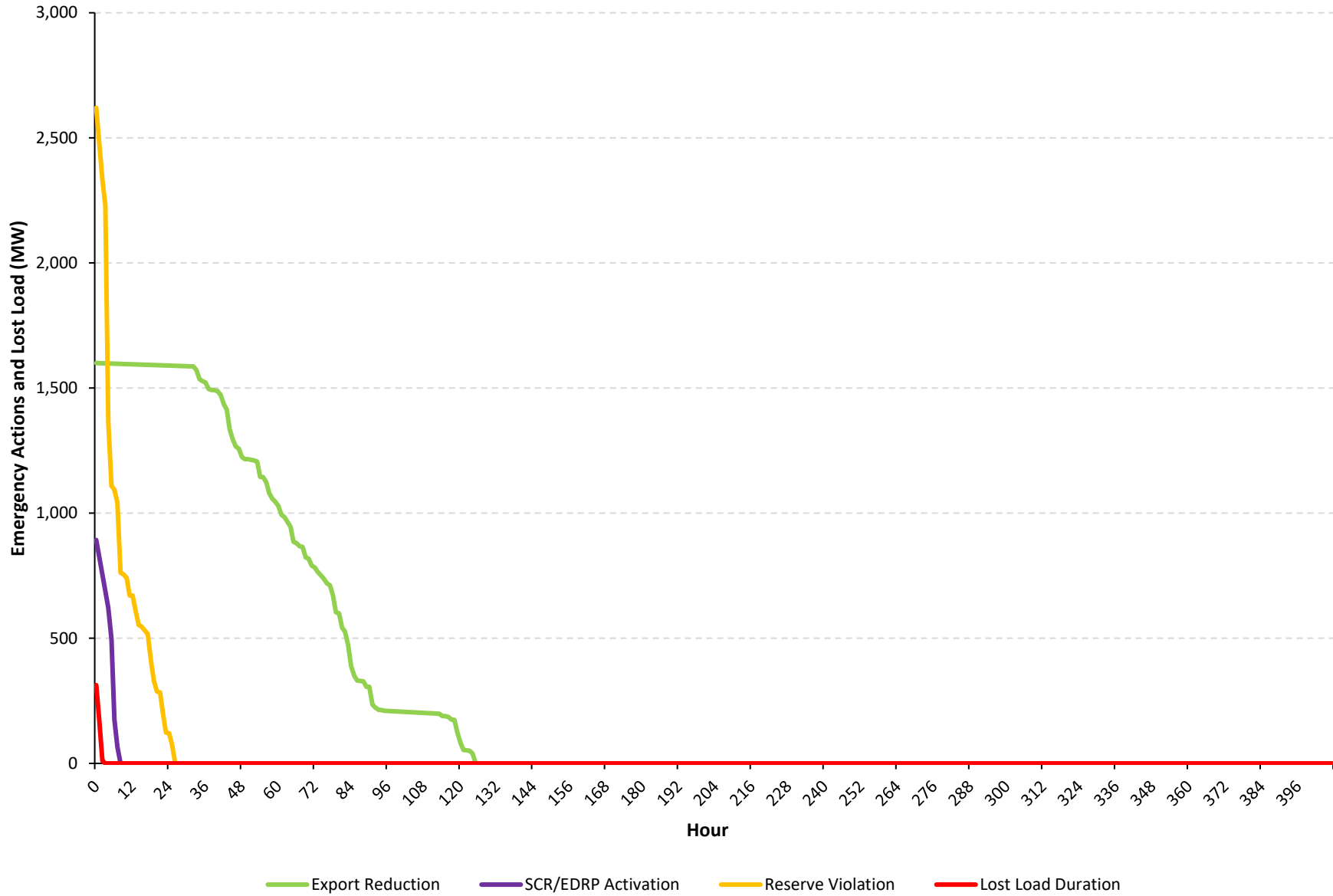
Scenario 7 - PD 3 SENY Deactivation



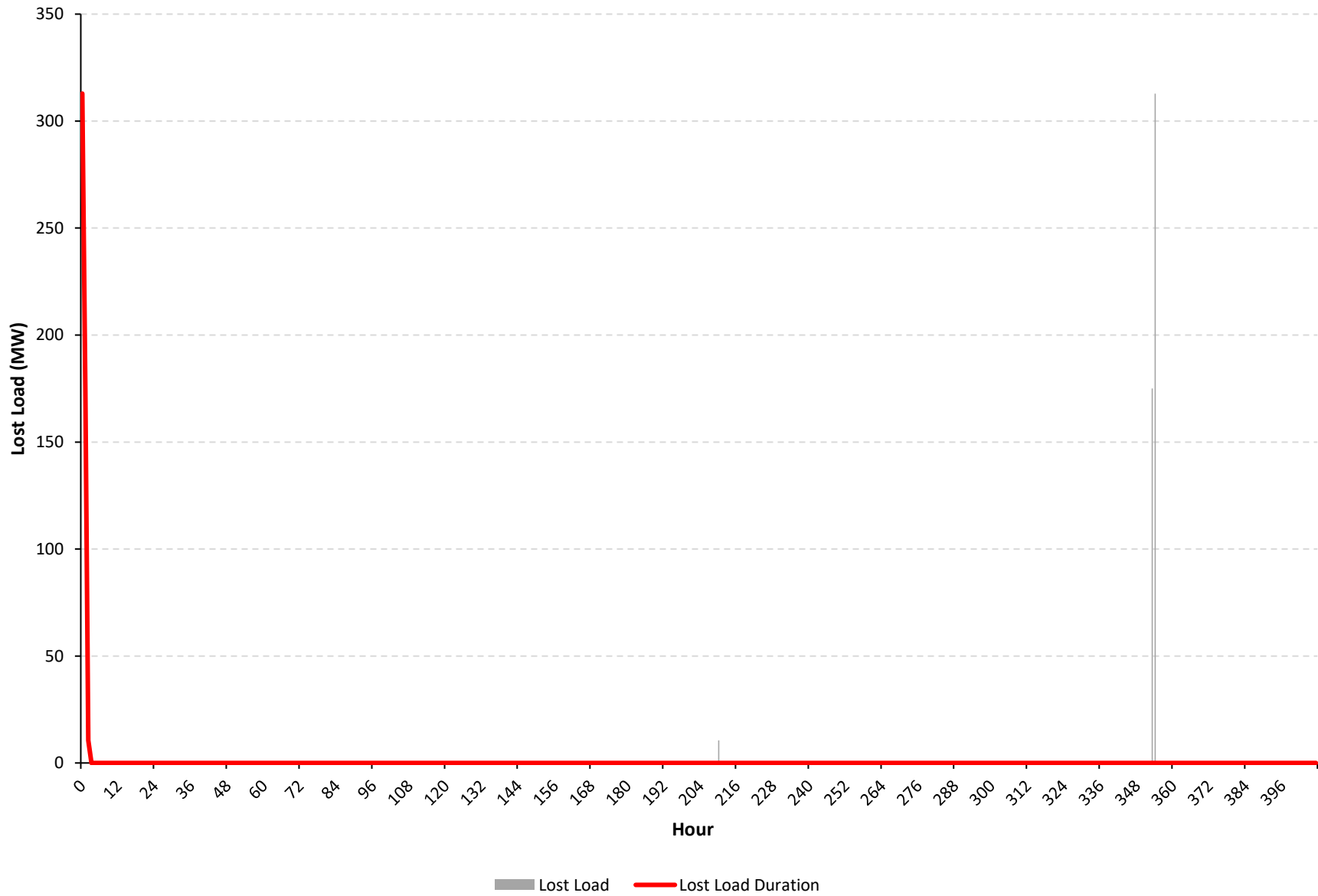
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 3 SENY Deactivation



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 3 SENY Deactivation

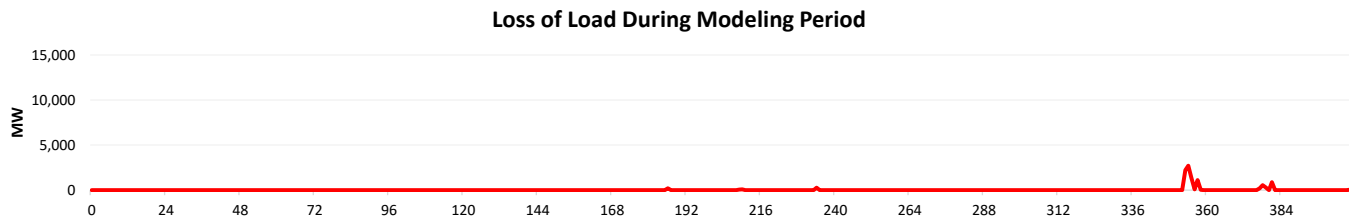
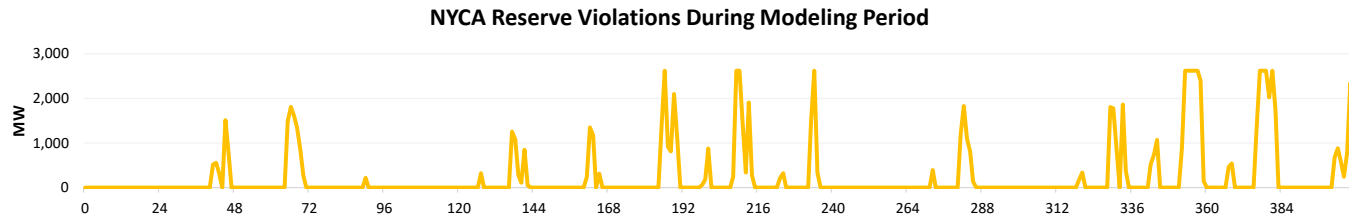
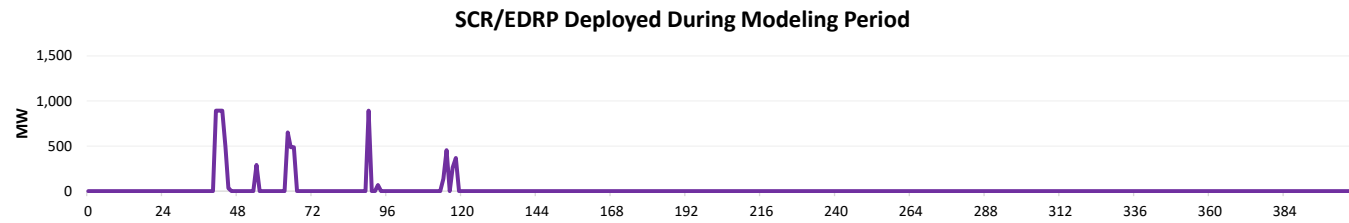
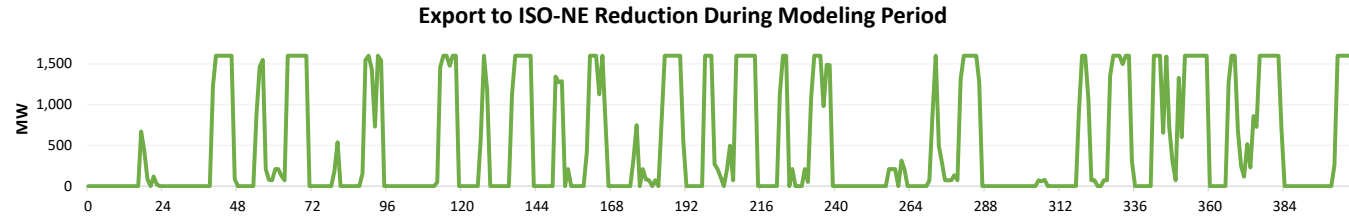
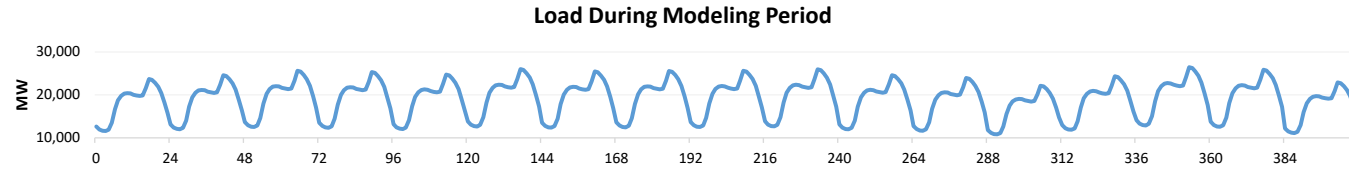


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 7 - PD 4 Nuclear Outage



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	195
Total MWh	204,573
Avg. MW	501.4

SCR Deployment	
Total Hrs.	15
Total MWh	7,304
Avg. MW	17.9

Reserve Violations	
Total Hrs.	83
Total MWh	96,429
Avg. MW	236.3
First Hour with Viol.	41
First Hour, Zone K	42

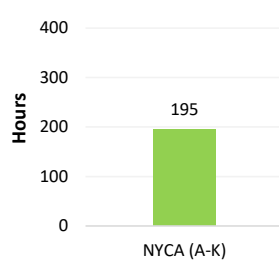
Loss of Load	
Total Hrs.	15
Total MWh	10,041
Avg. MW	24.6
First Hour with Losses	186
First Hour, Zone K	186

Full Period Results Summary

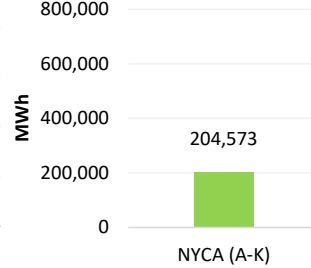
Case Name: Scenario 7 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

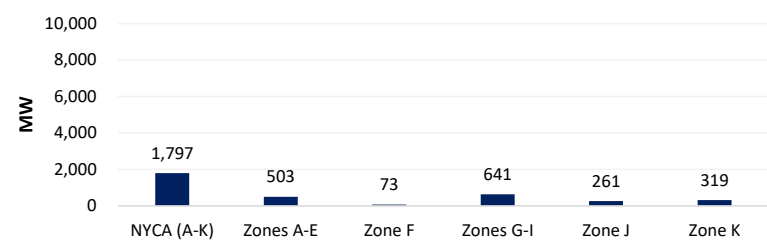
Hours Exports Reduced



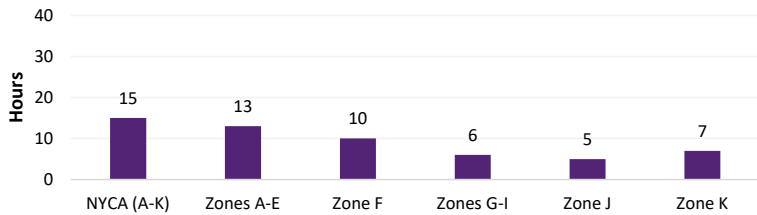
Total MWh of Exports Reduced



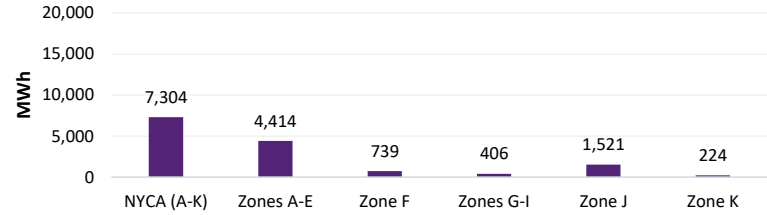
Average Capacity Not Available Due to Exhausted Fuel Inventory



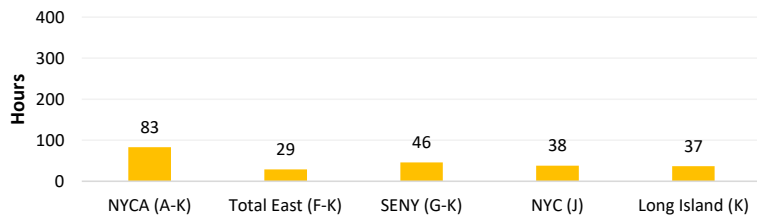
Hours SCR/EDRP Deployed



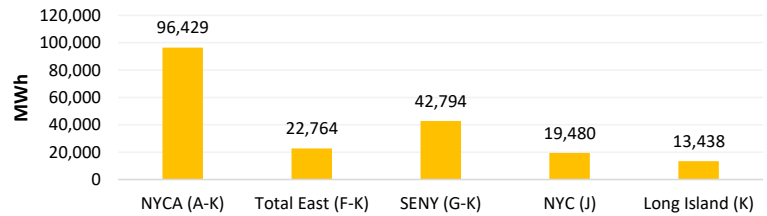
Total MWh SCR/EDRP Deployed



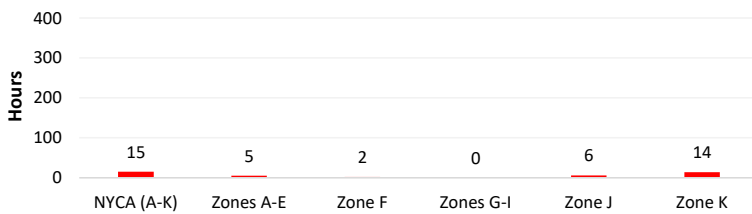
Hours with Reserve Violations



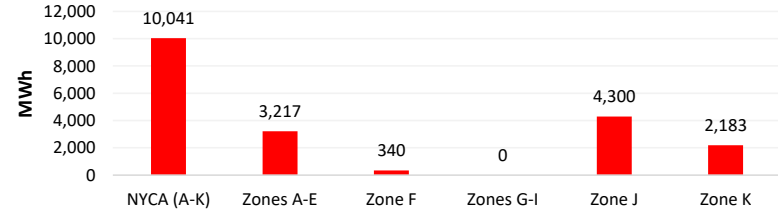
Total MWh of Reserve Violations



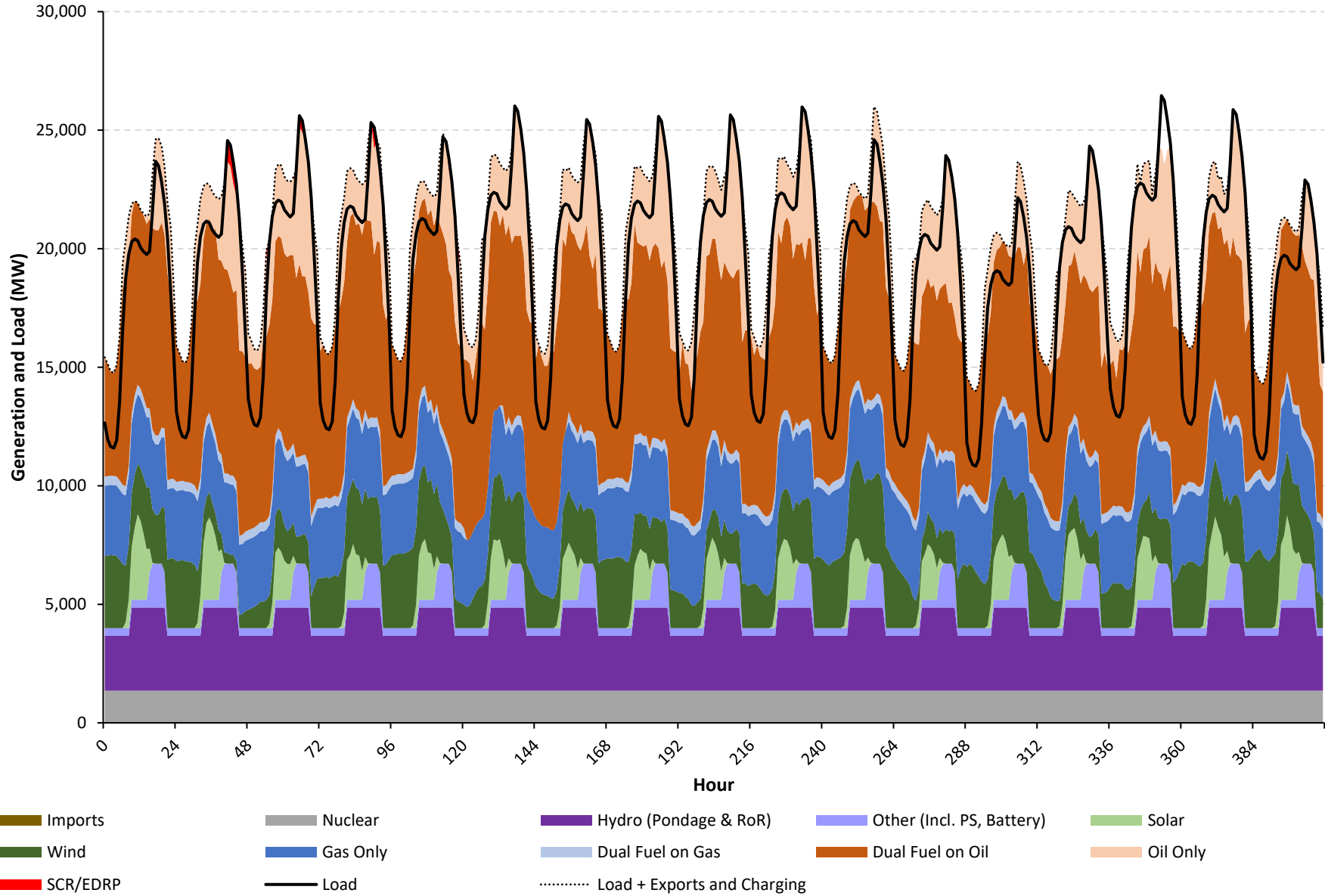
Hours with Loss of Load



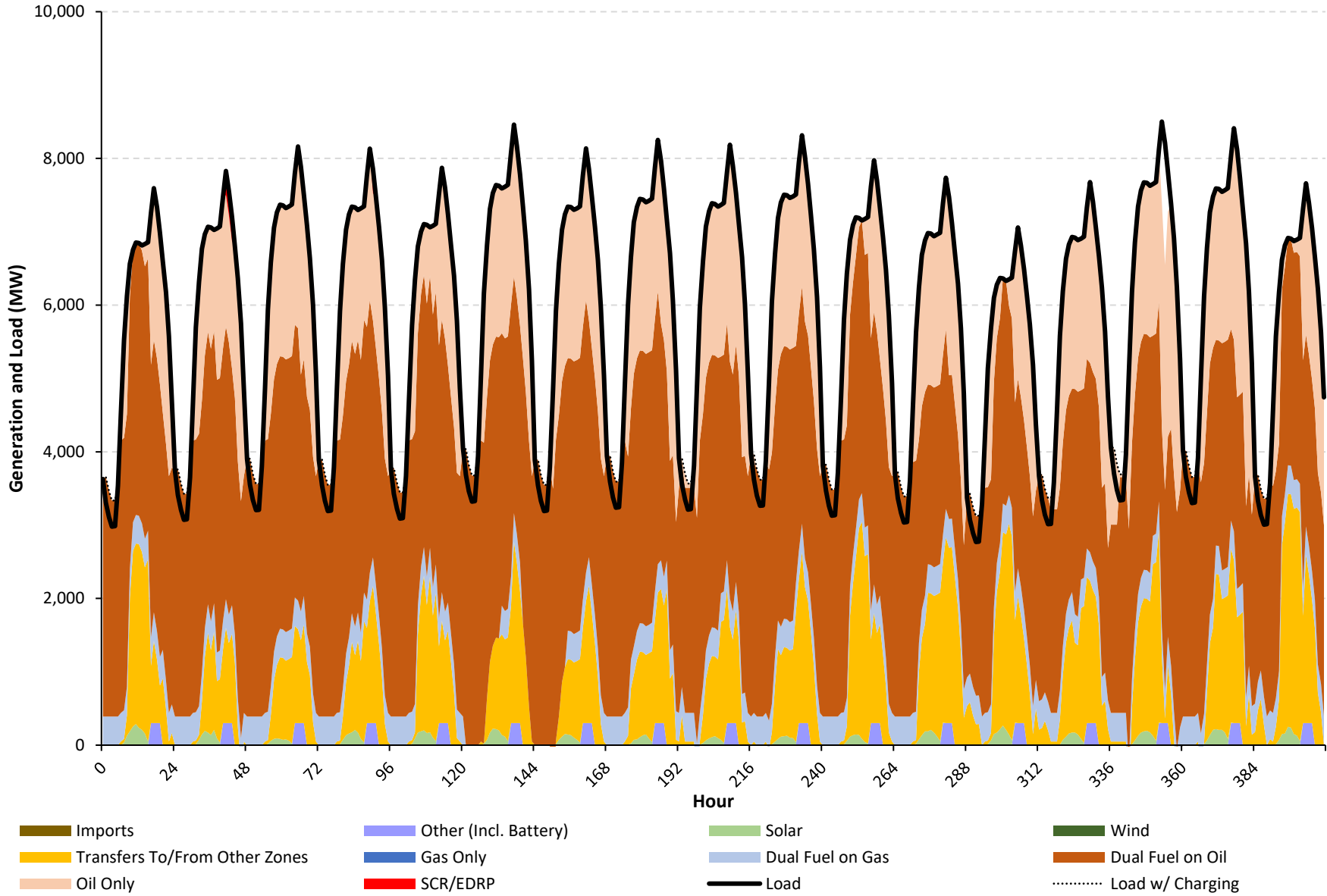
Total MWh of Lost Load



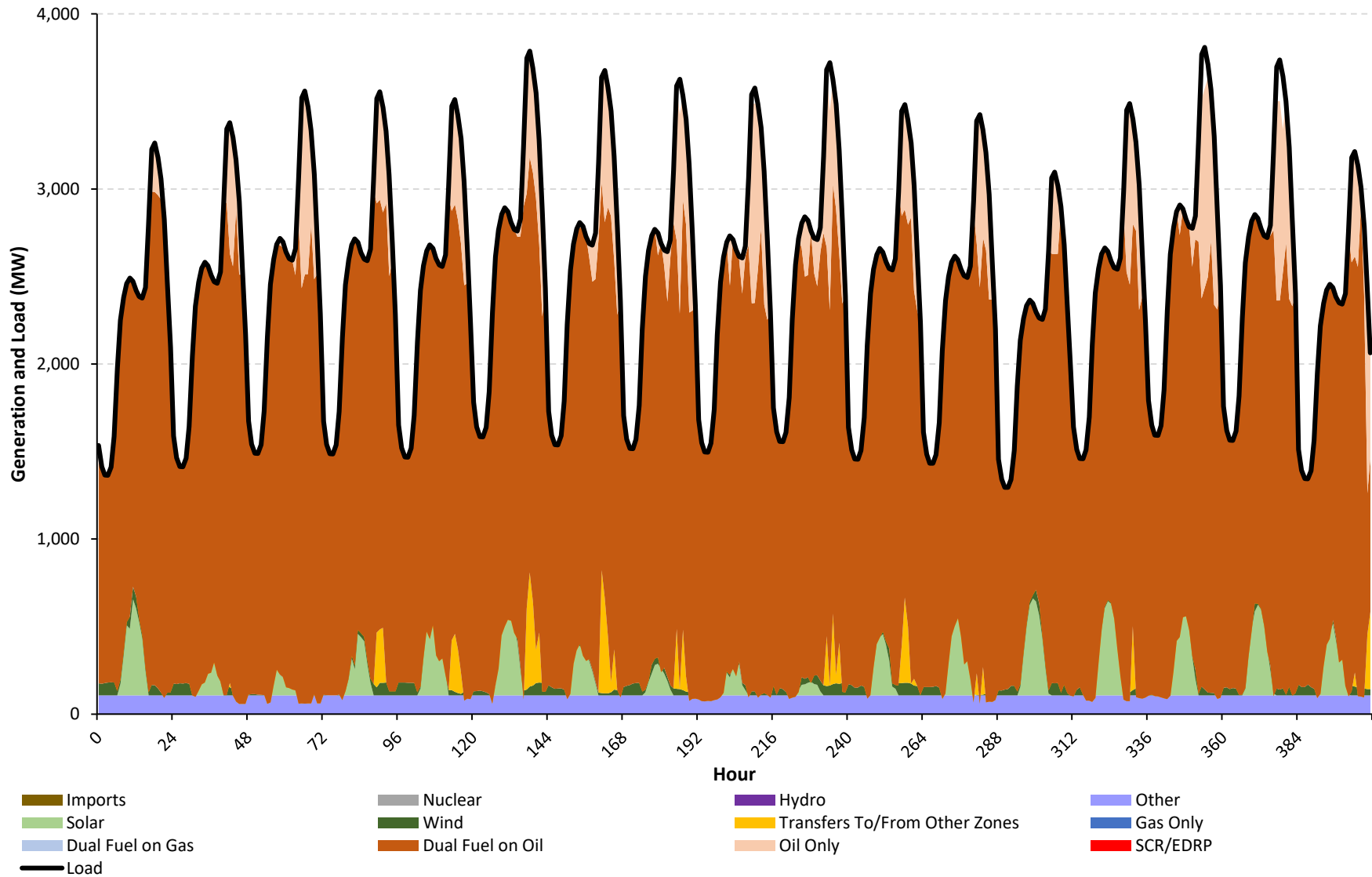
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 4 Nuclear Outage



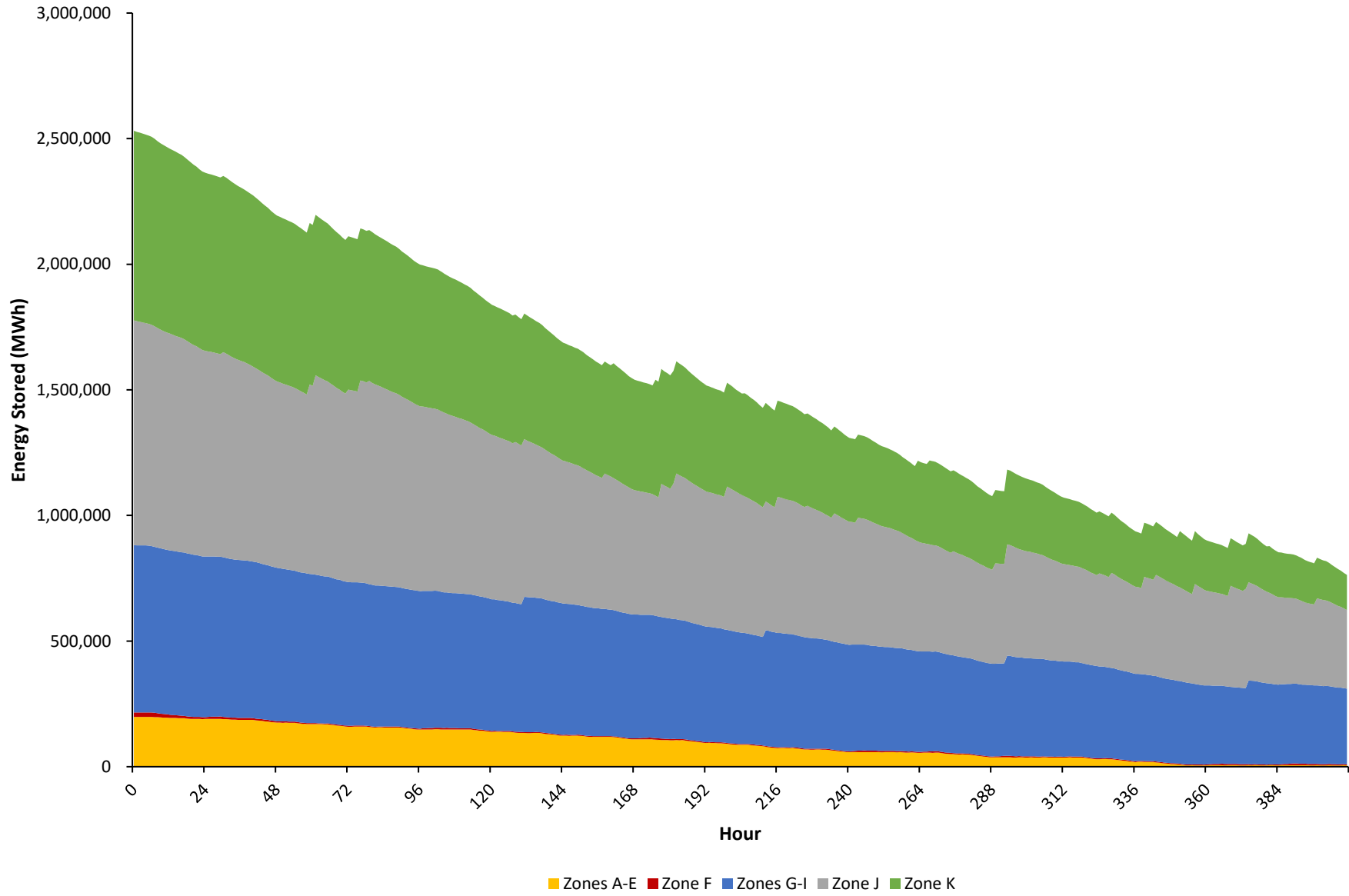
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 4 Nuclear Outage



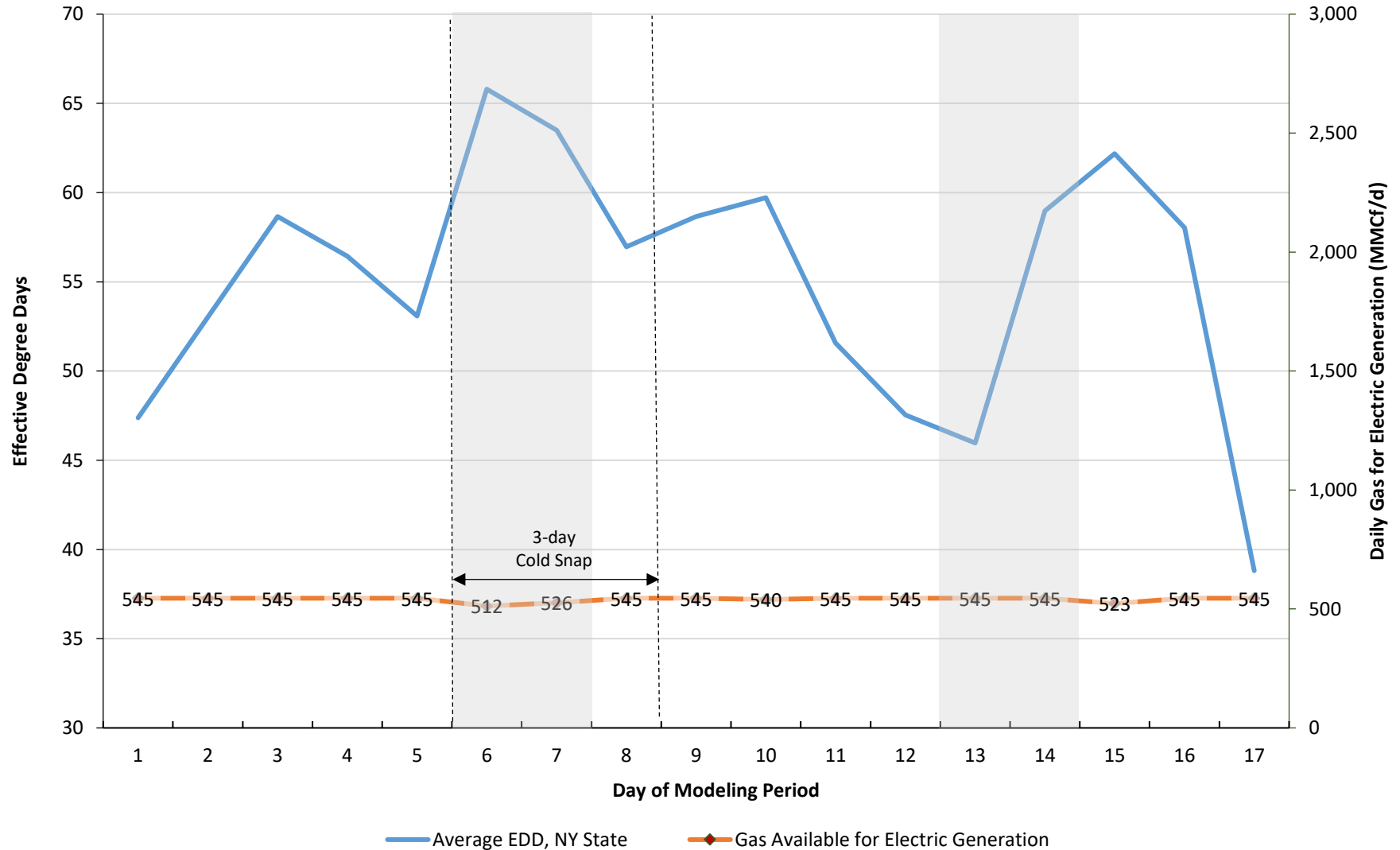
Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 4 Nuclear Outage



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 4 Nuclear Outage



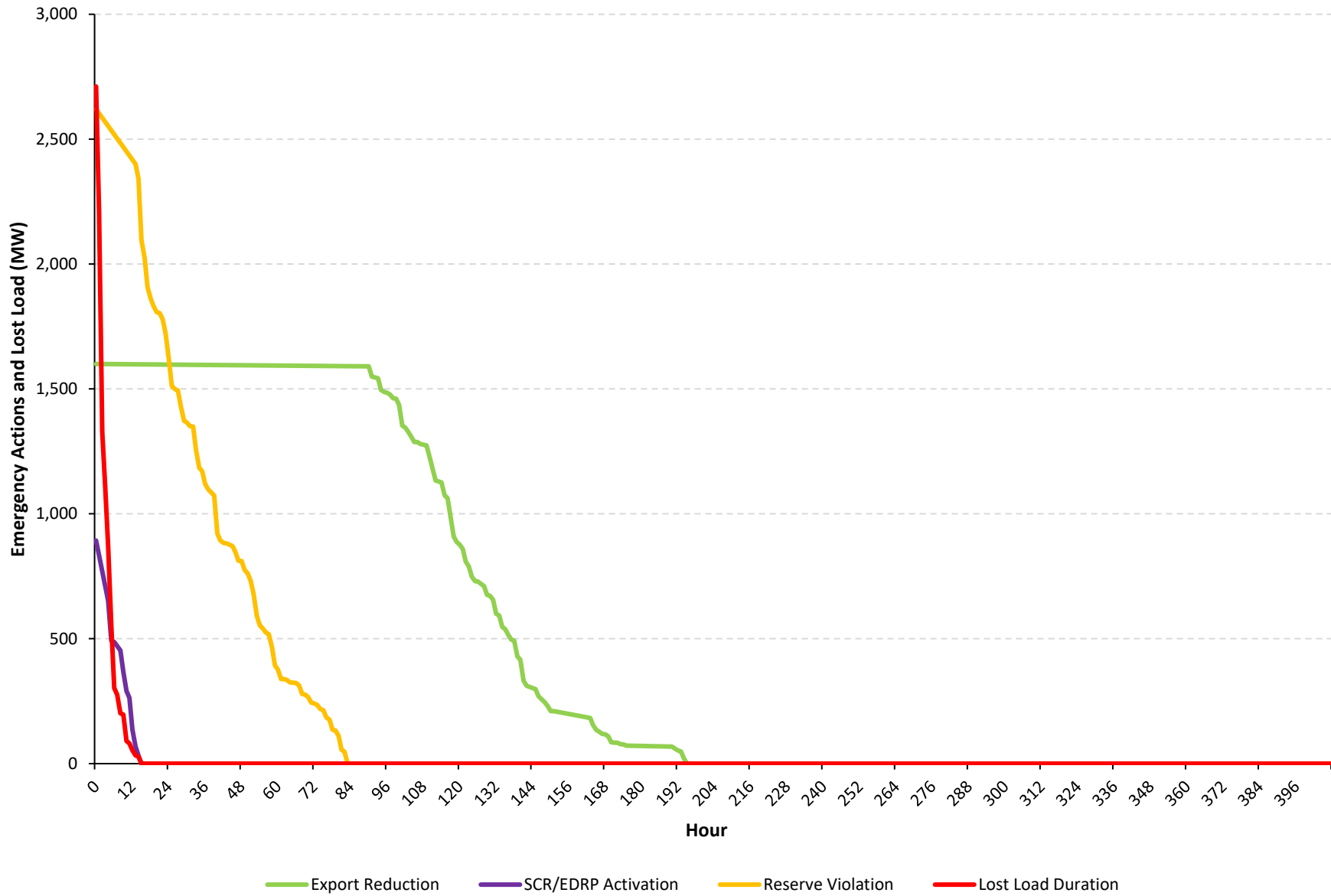
NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period Scenario 7 - PD 4 Nuclear Outage



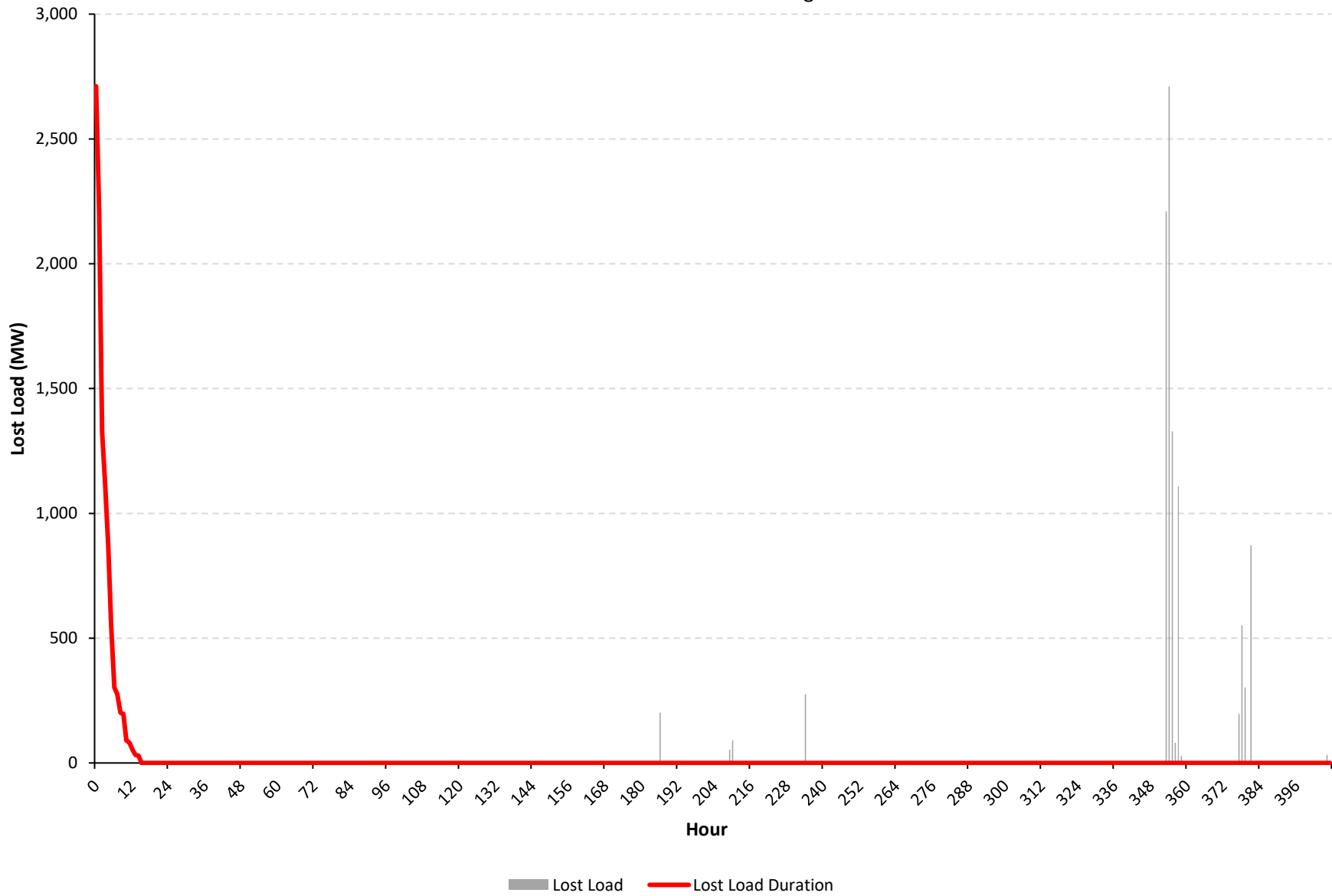
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 4 Nuclear Outage



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 4 Nuclear Outage



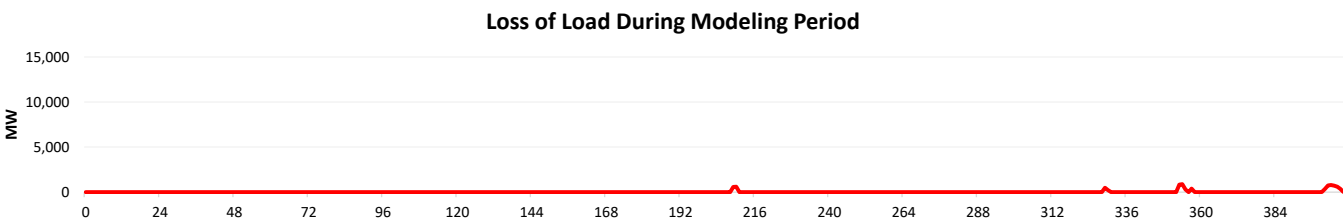
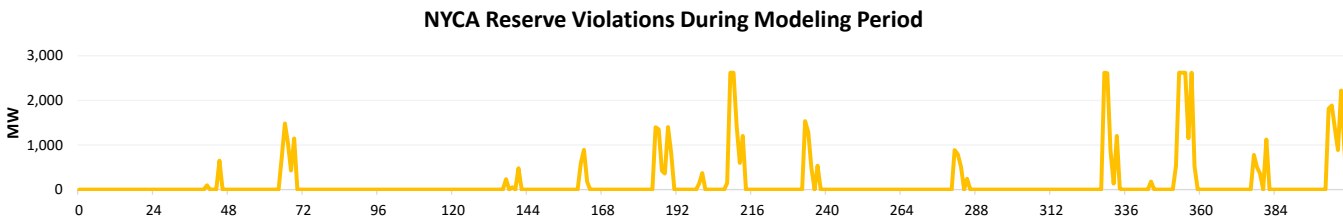
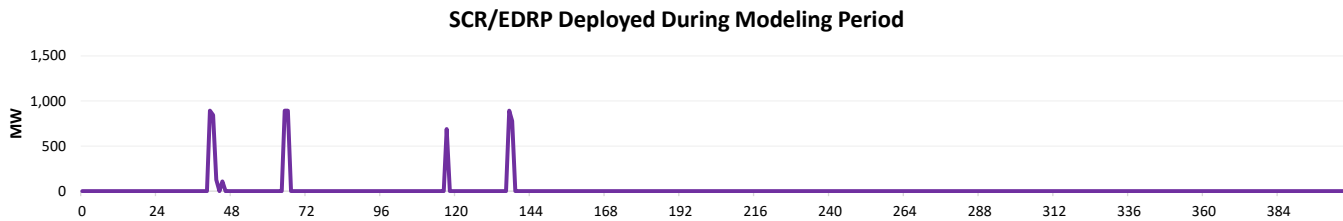
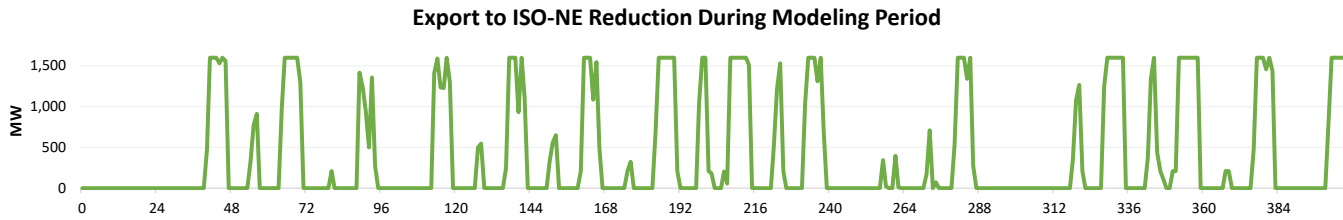
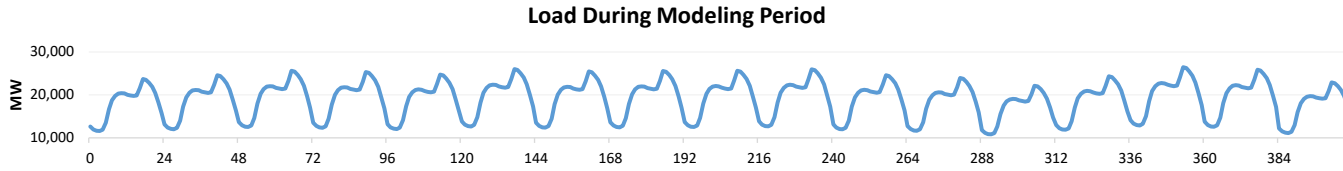
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 7 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	140
Total MWh	156,198
Avg. MW	382.8

SCR Deployment	
Total Hrs.	9
Total MWh	6,114
Avg. MW	15.0

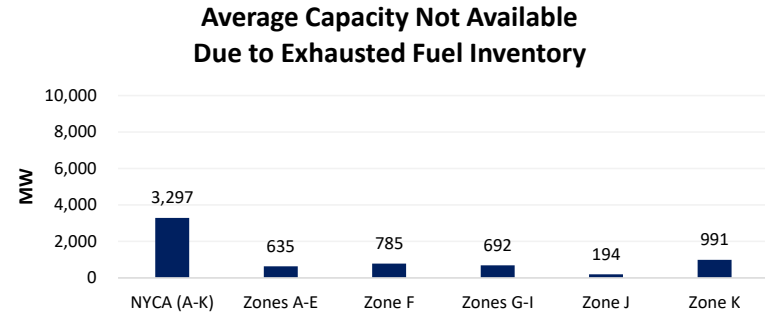
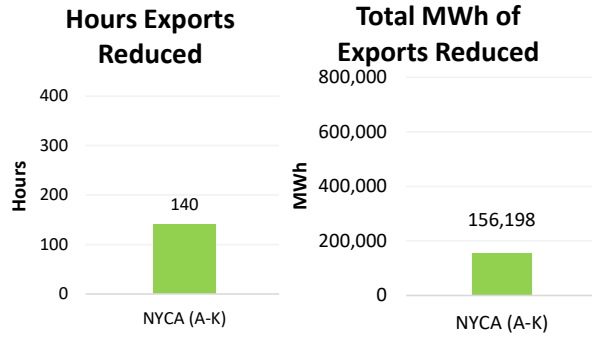
Reserve Violations	
Total Hrs.	59
Total MWh	61,343
Avg. MW	150.4
First Hour with Viol.	41
First Hour, Zone K	65

Loss of Load	
Total Hrs.	15
Total MWh	7,881
Avg. MW	19.3
First Hour with Losses	209
First Hour, Zone K	209

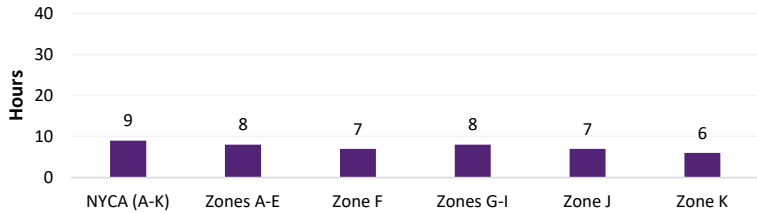
Full Period Results Summary

Case Name: Scenario 7 - PD 5 No Truck Refill

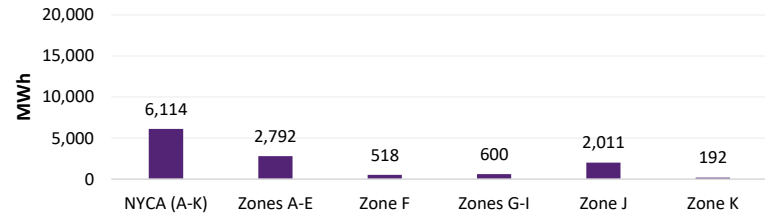
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



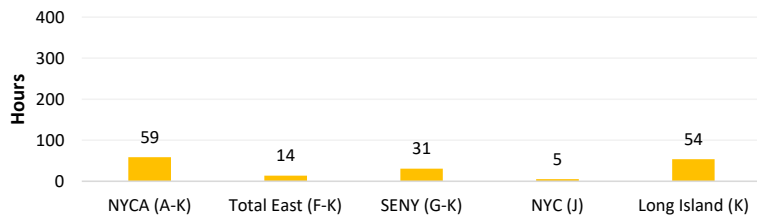
Hours SCR/EDRP Deployed



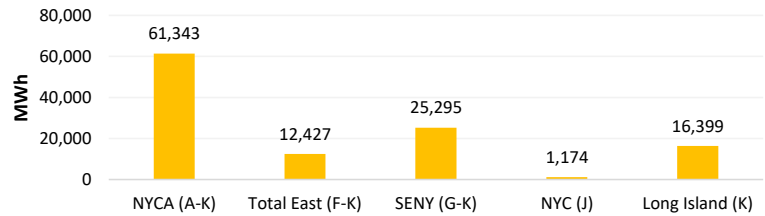
Total MWh SCR/EDRP Deployed



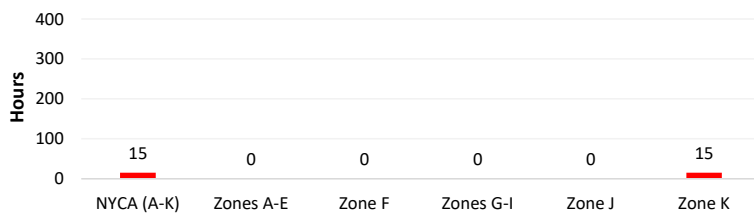
Hours with Reserve Violations



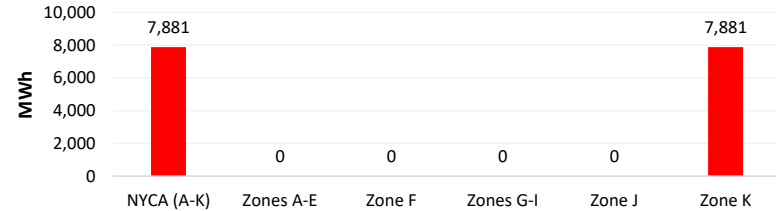
Total MWh of Reserve Violations



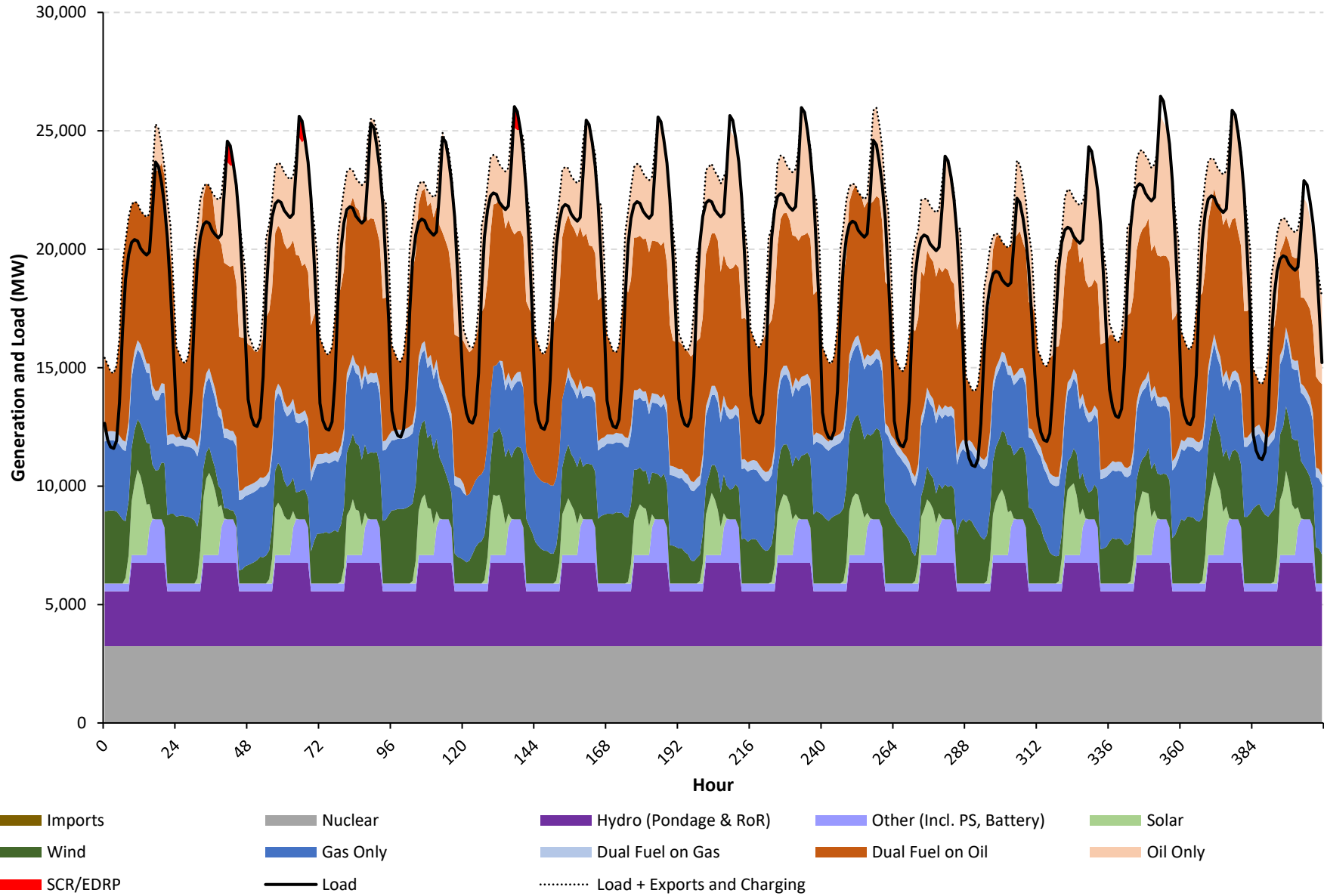
Hours with Loss of Load



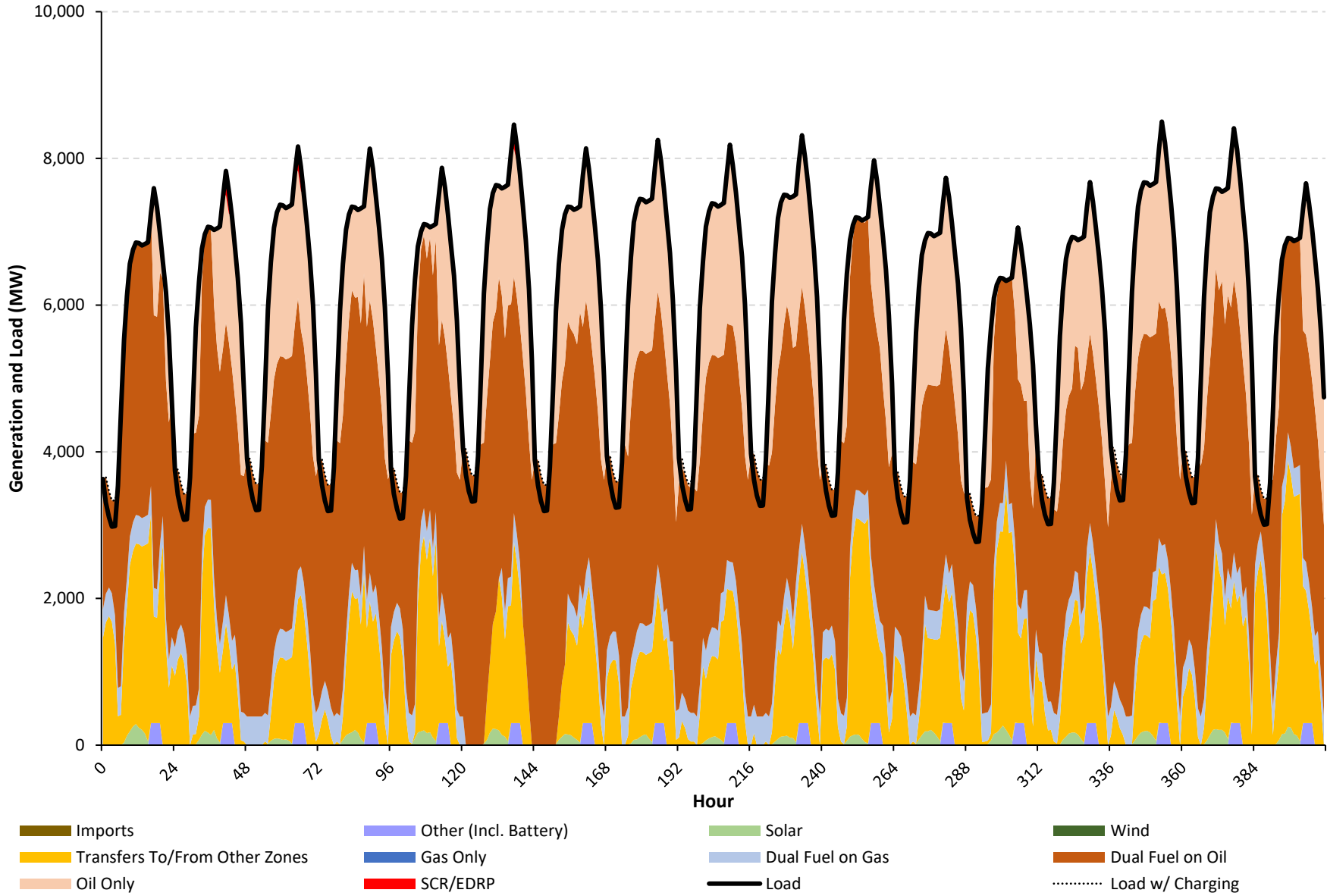
Total MWh of Lost Load



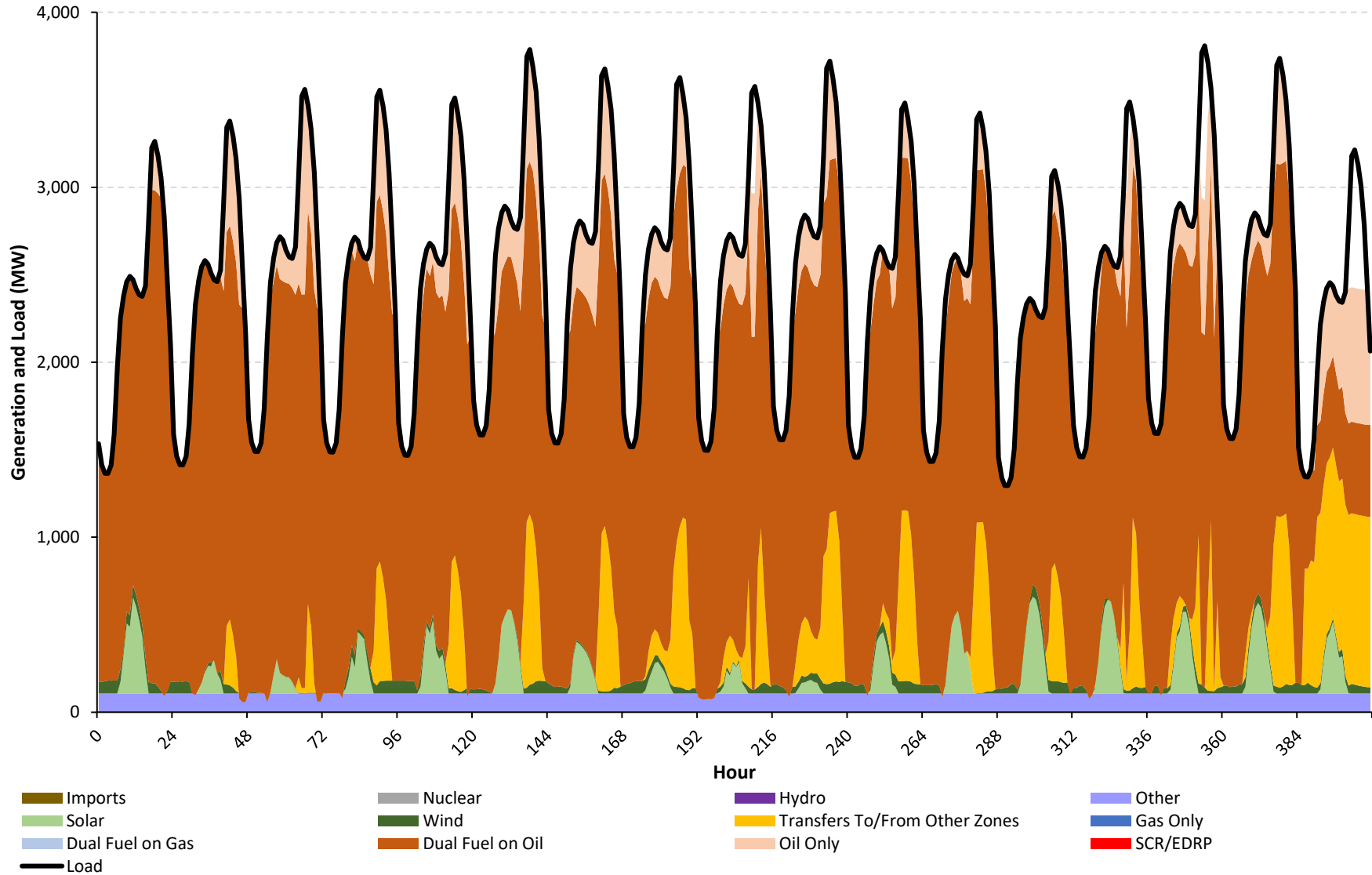
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 5 No Truck Refill



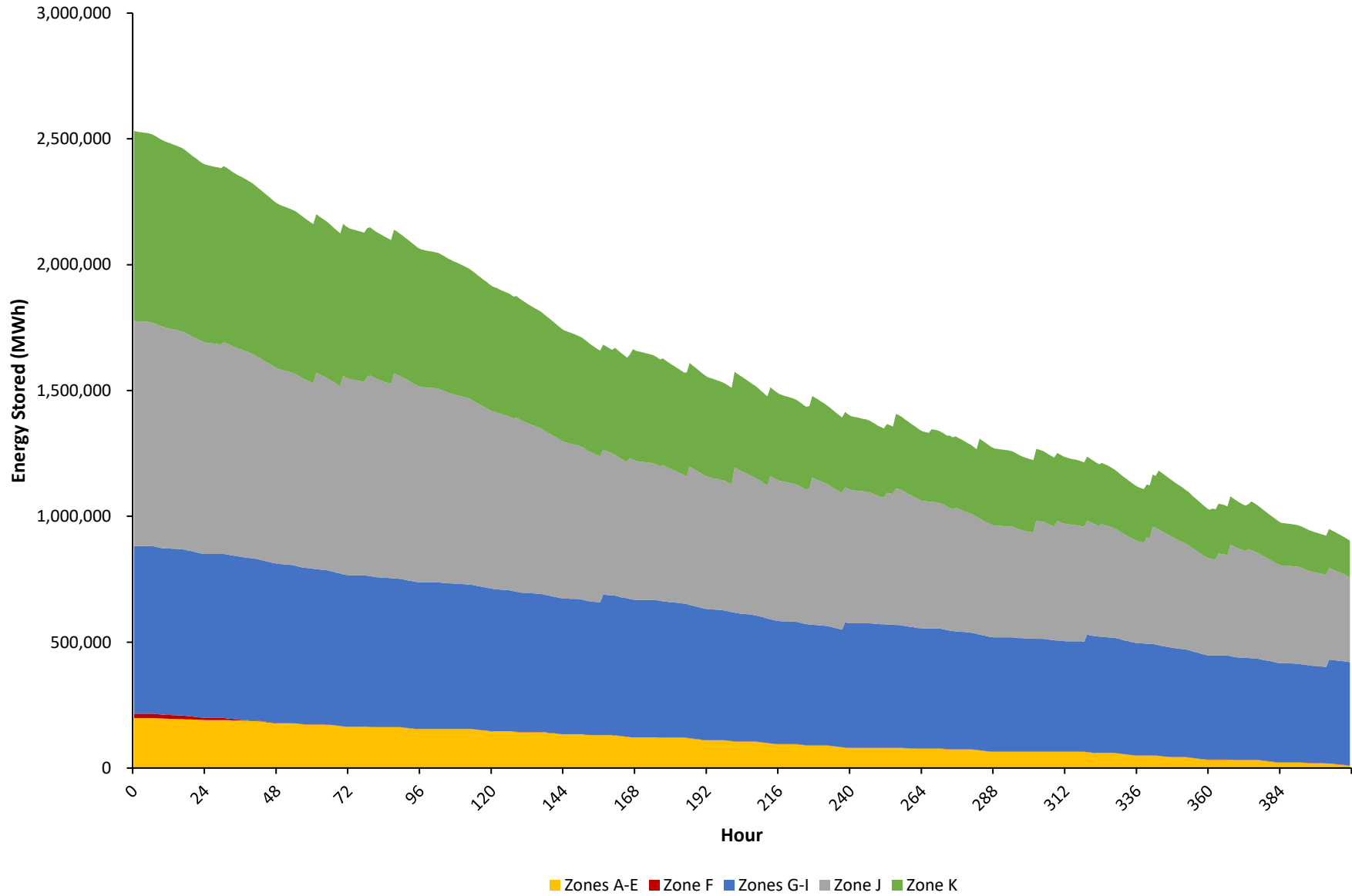
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 5 No Truck Refill

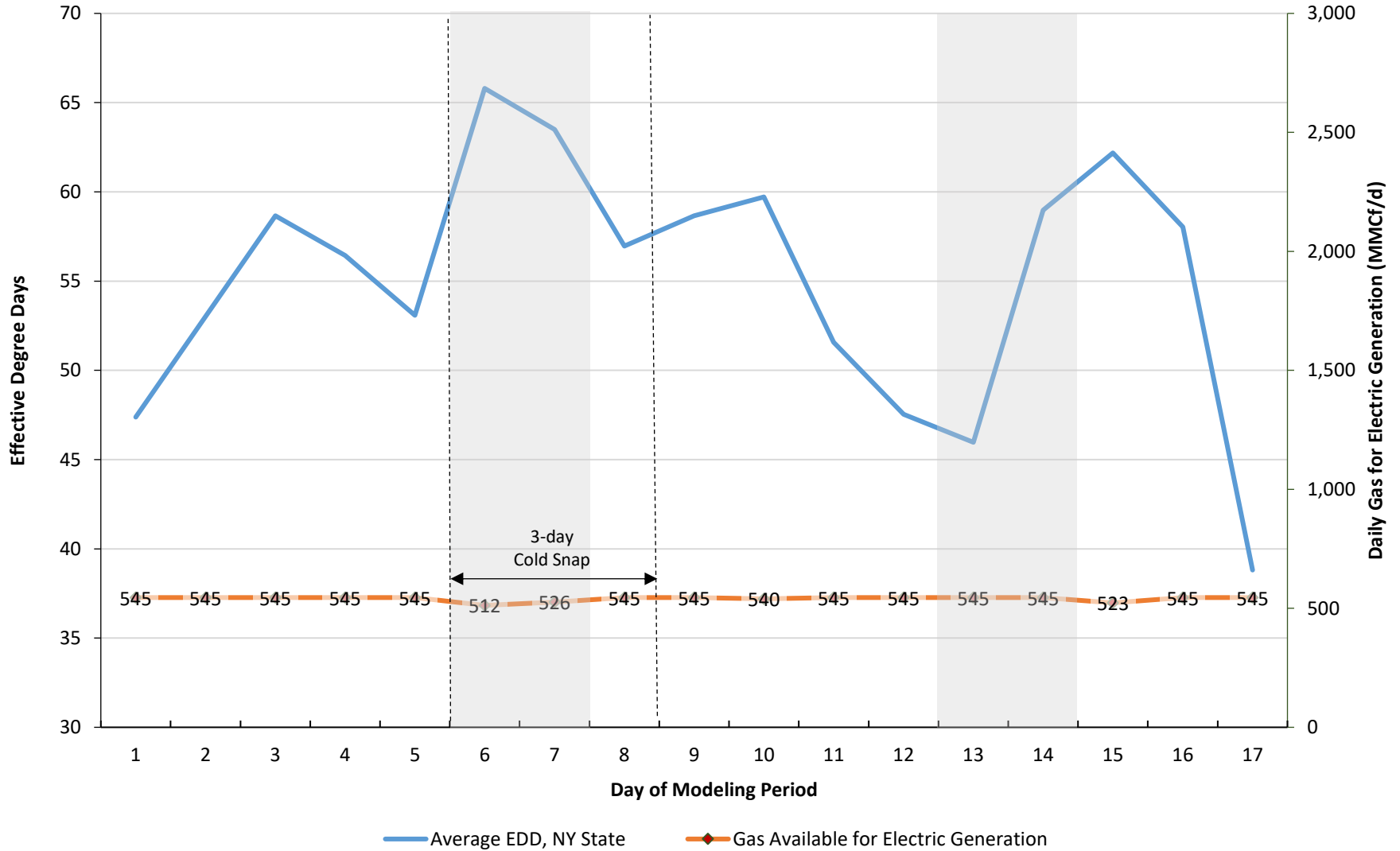


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

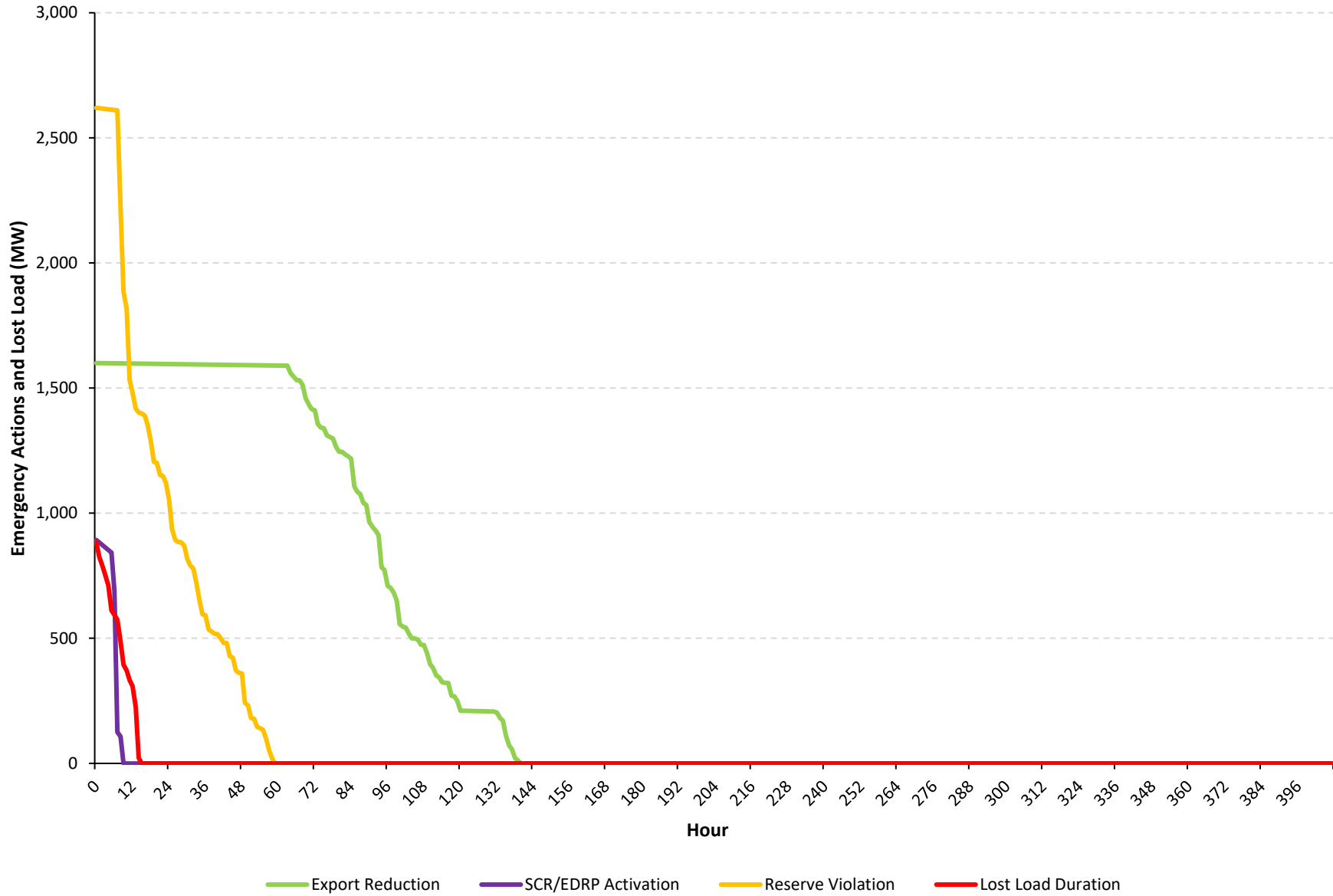
Scenario 7 - PD 5 No Truck Refill



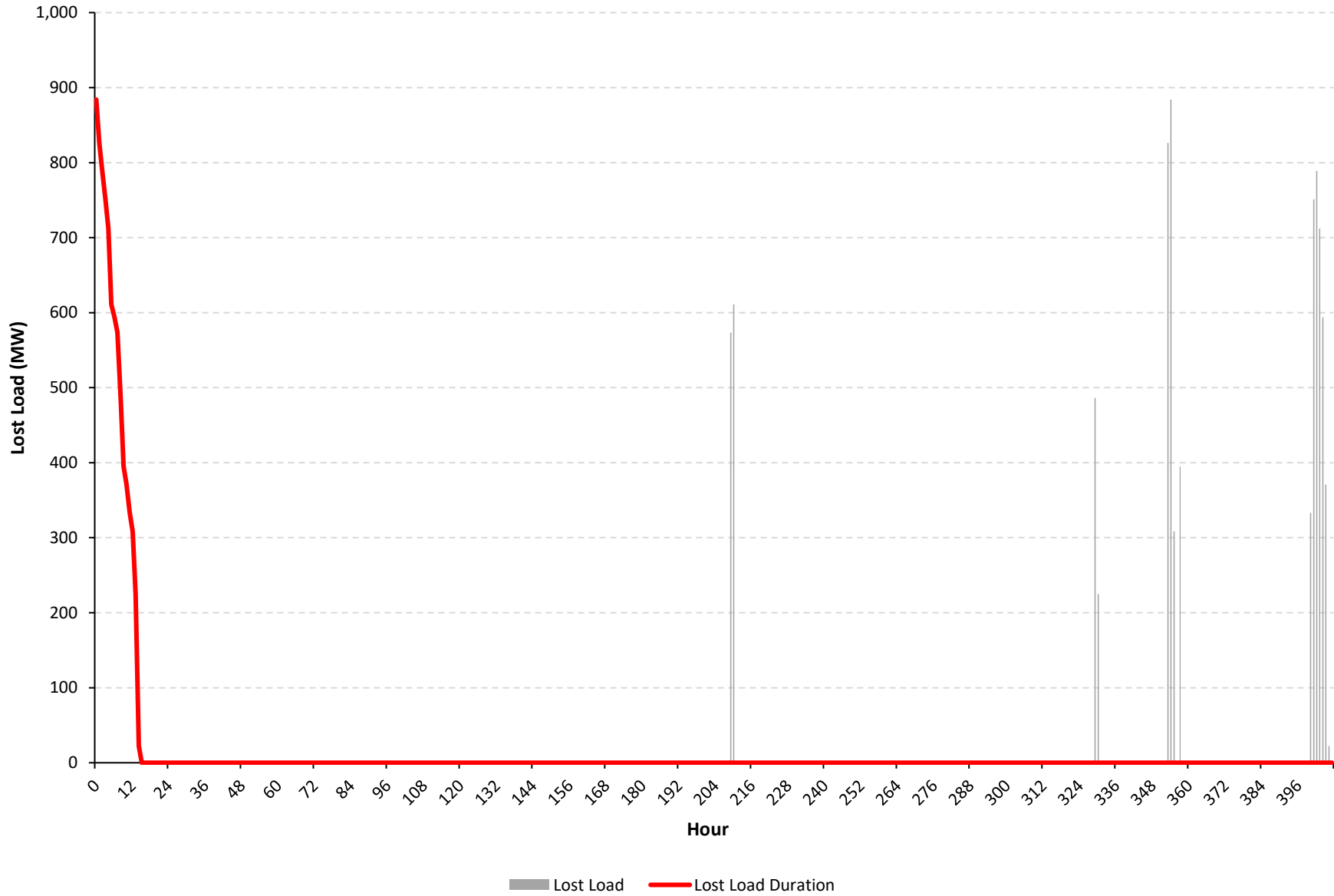
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 5 No Truck Refill



NYCA Lost Load Duration (MWh) Scenario 7 - PD 5 No Truck Refill



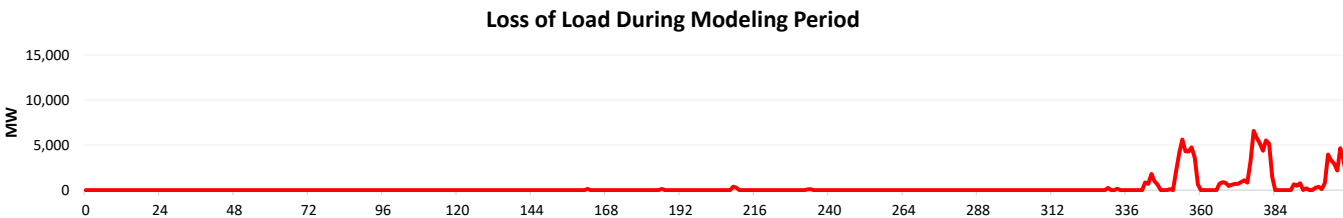
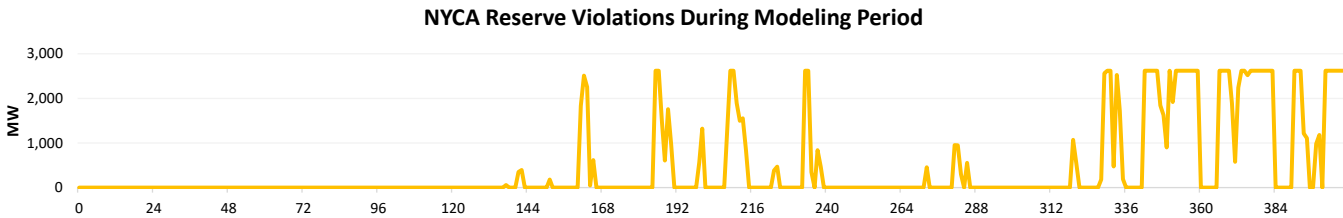
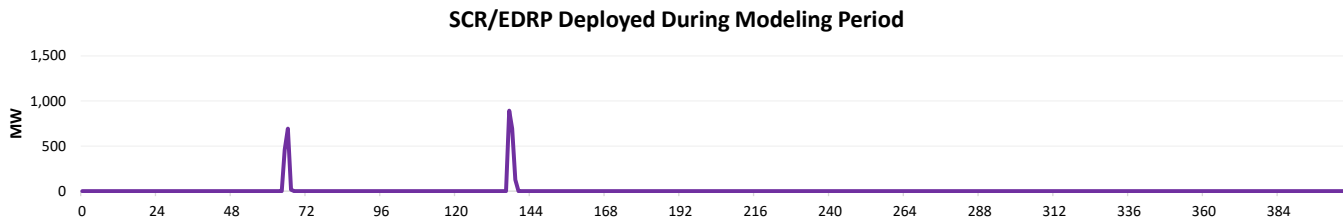
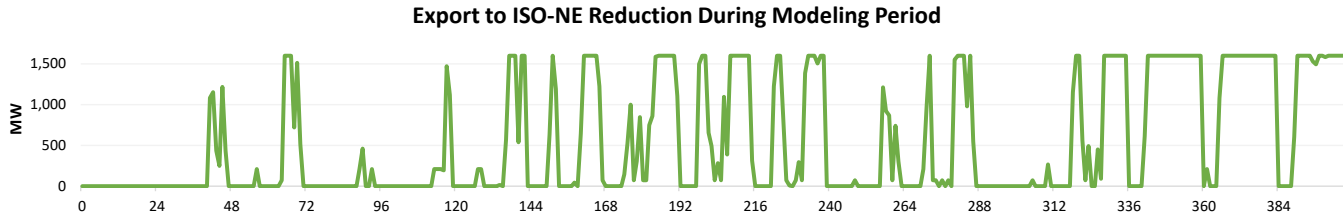
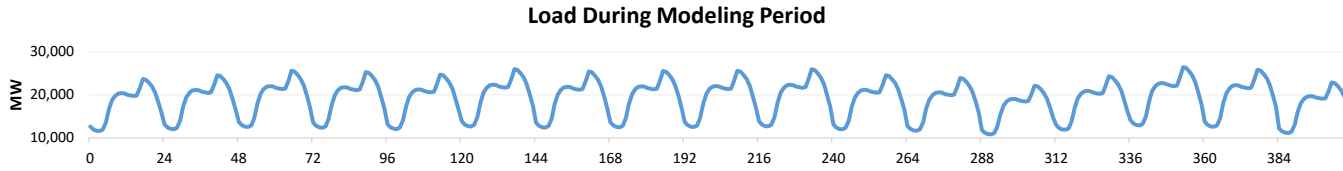
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 7 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	194
Total MWh	217,104
Avg. MW	532.1

SCR Deployment	
Total Hrs.	6
Total MWh	2,885
Avg. MW	7.1

Reserve Violations	
Total Hrs.	97
Total MWh	178,122
Avg. MW	436.6
First Hour with Viol.	137
First Hour, Zone K	161

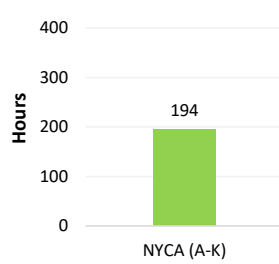
Loss of Load	
Total Hrs.	58
Total MWh	106,263
Avg. MW	260.4
First Hour with Losses	162
First Hour, Zone K	162

Full Period Results Summary

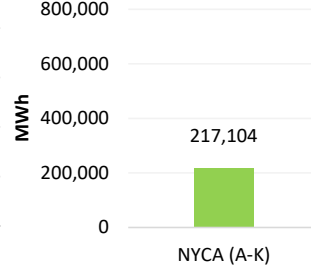
Case Name: Scenario 7 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

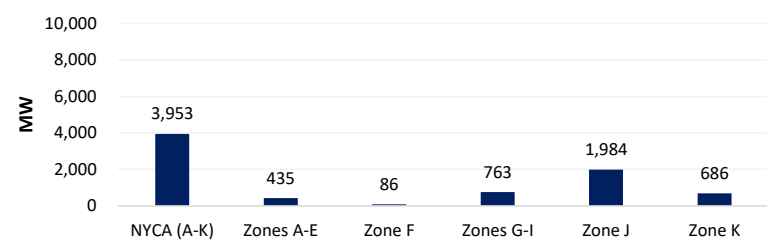
Hours Exports Reduced



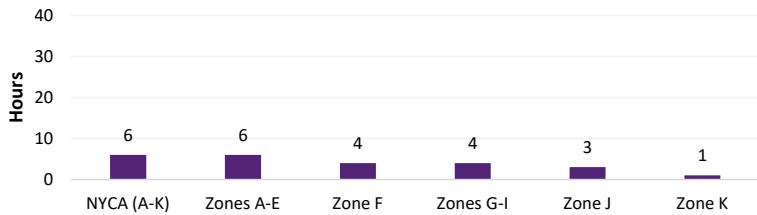
Total MWh of Exports Reduced



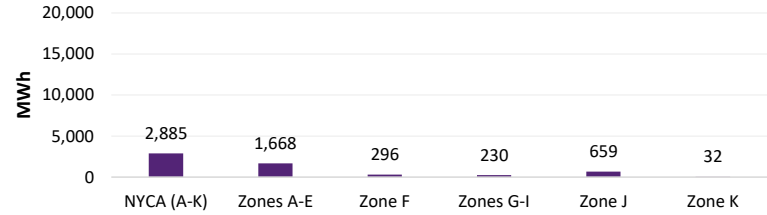
Average Capacity Not Available Due to Exhausted Fuel Inventory



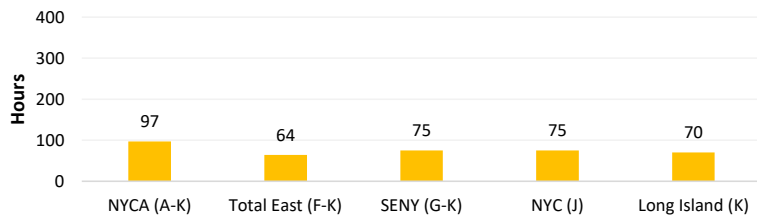
Hours SCR/EDRP Deployed



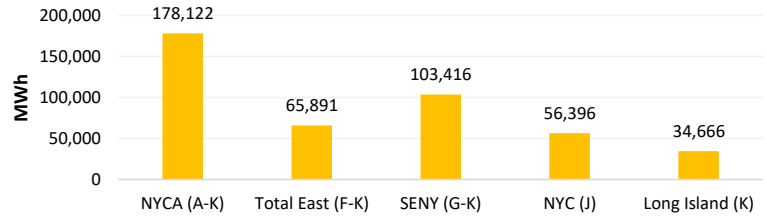
Total MWh SCR/EDRP Deployed



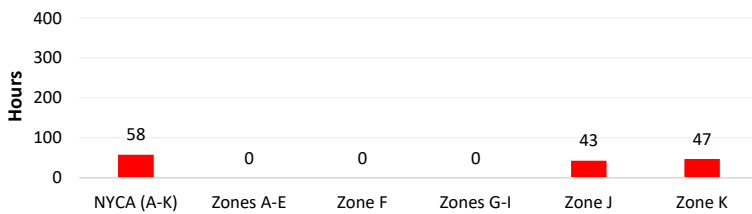
Hours with Reserve Violations



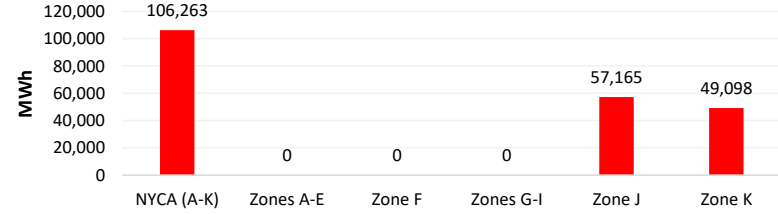
Total MWh of Reserve Violations



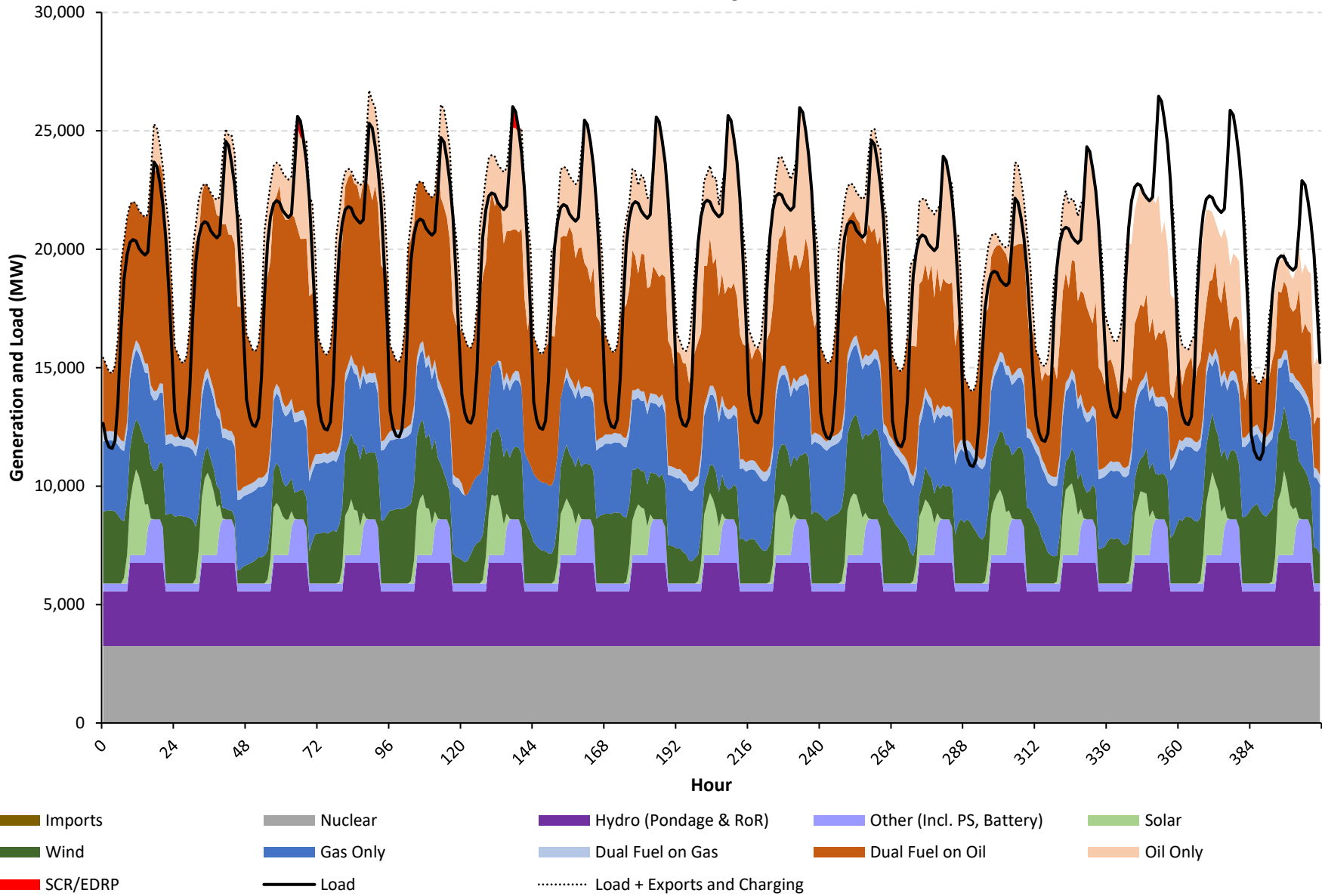
Hours with Loss of Load



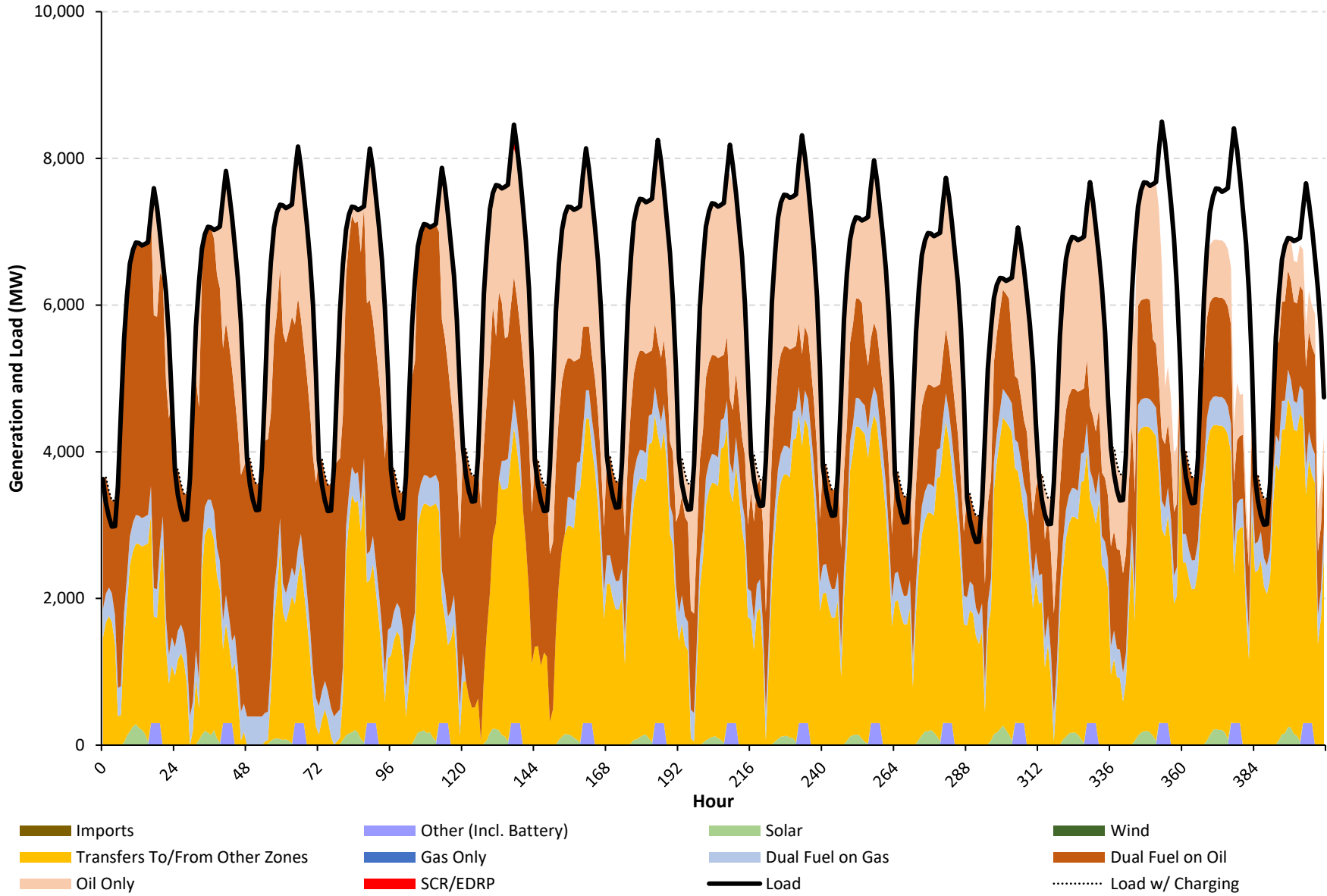
Total MWh of Lost Load



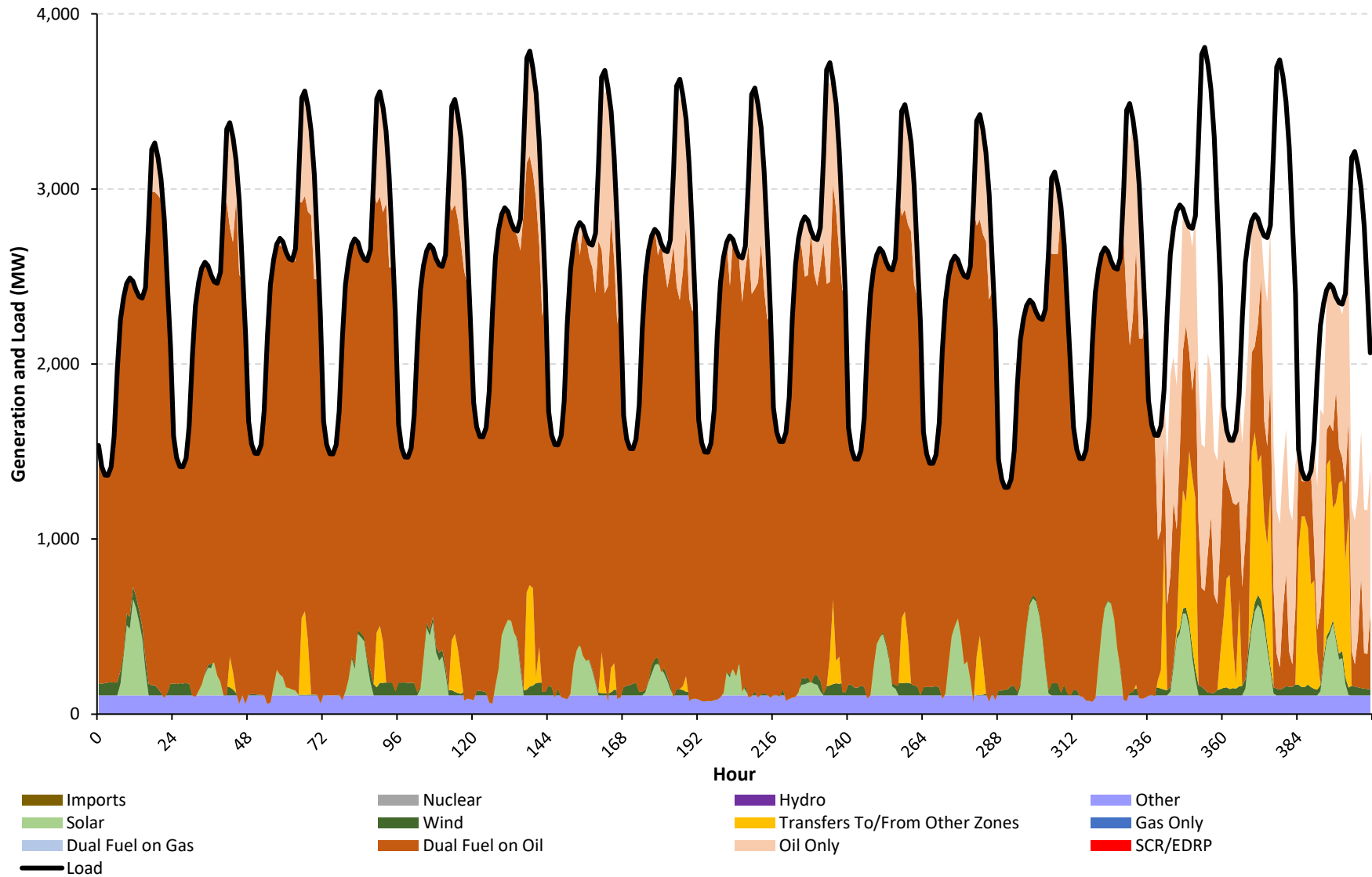
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 6 No Barge Refill



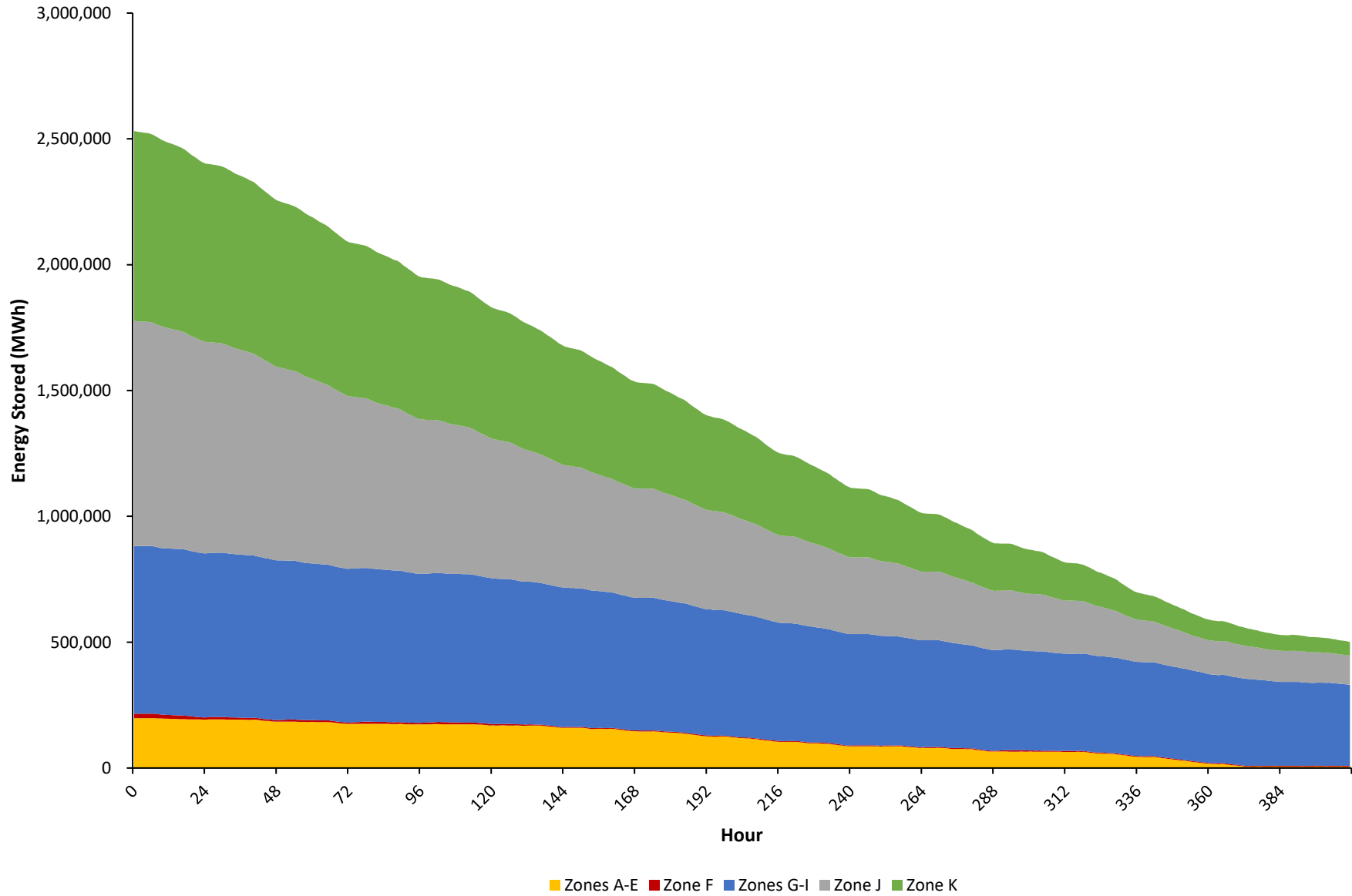
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 6 No Barge Refill

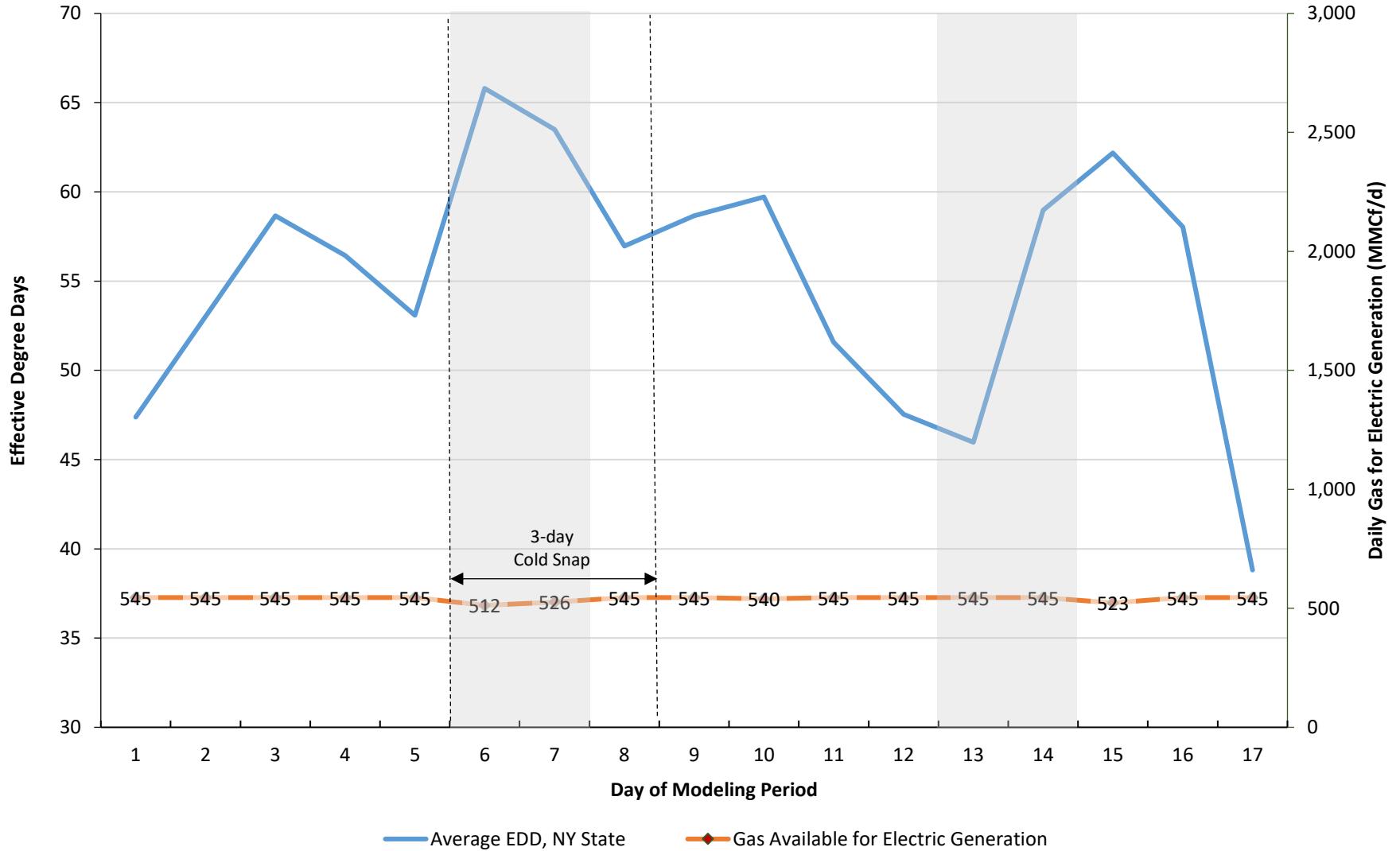


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

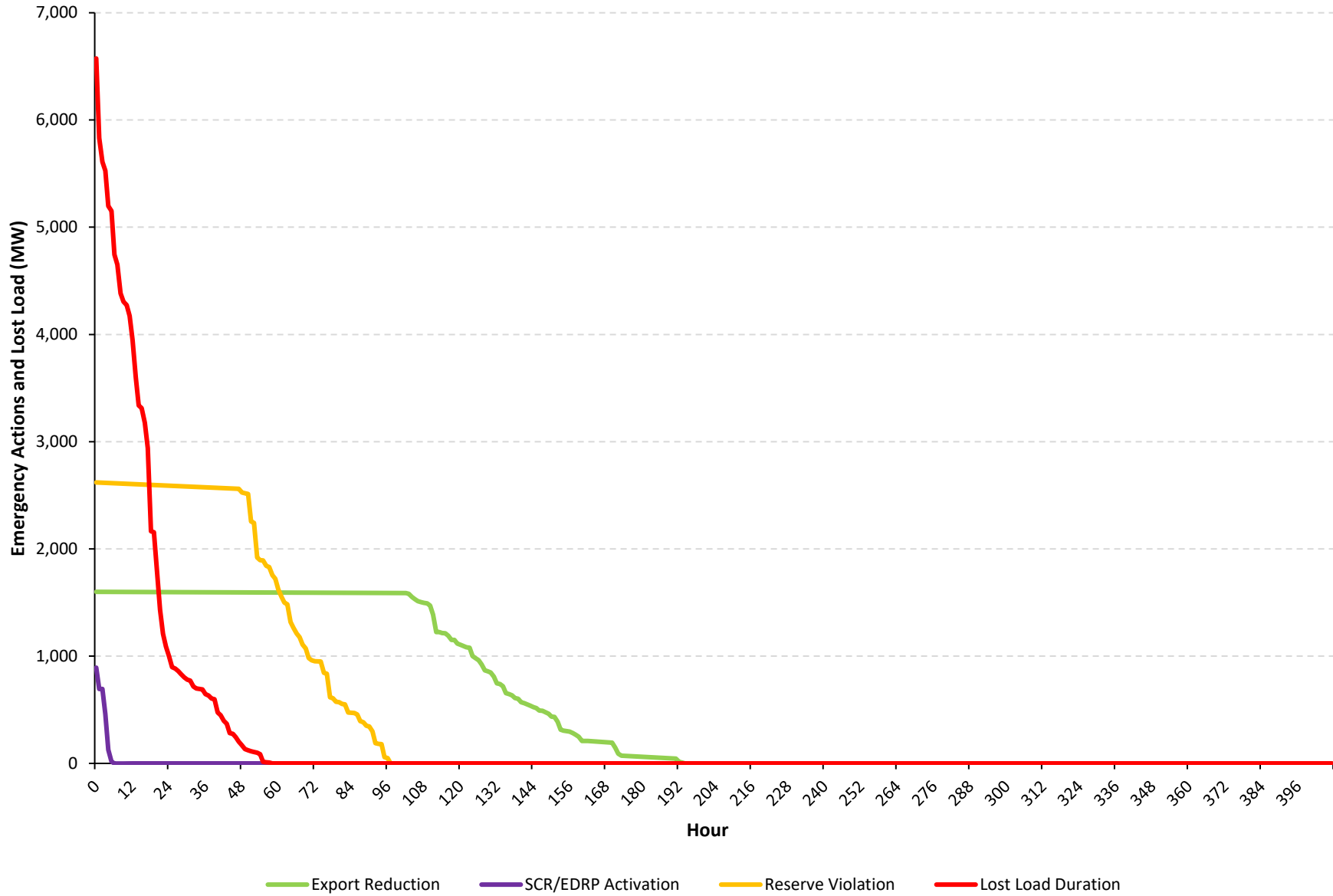
Scenario 7 - PD 6 No Barge Refill



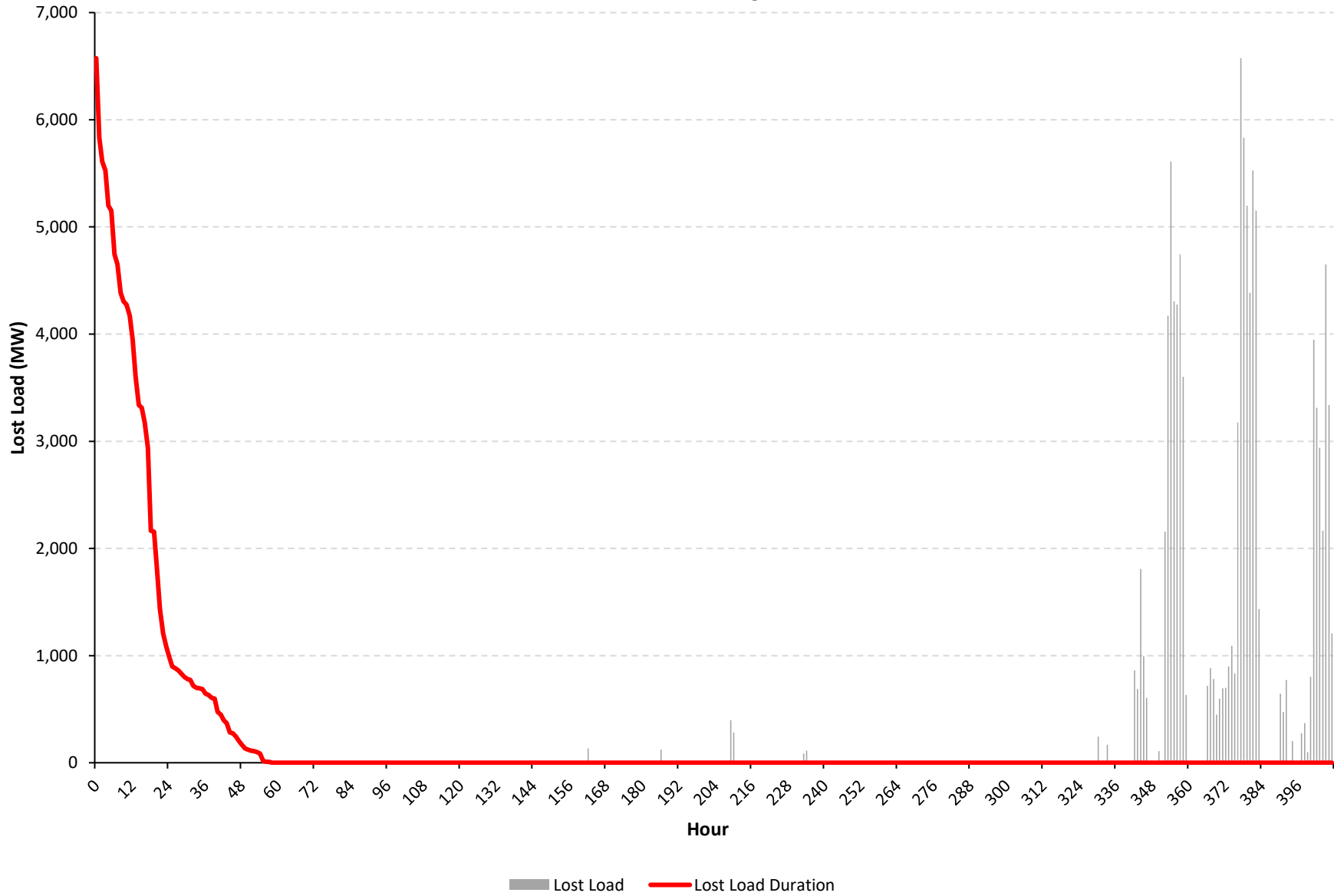
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 6 No Barge Refill



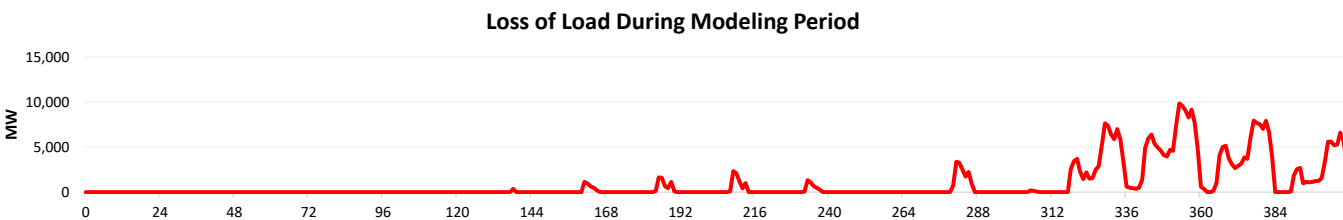
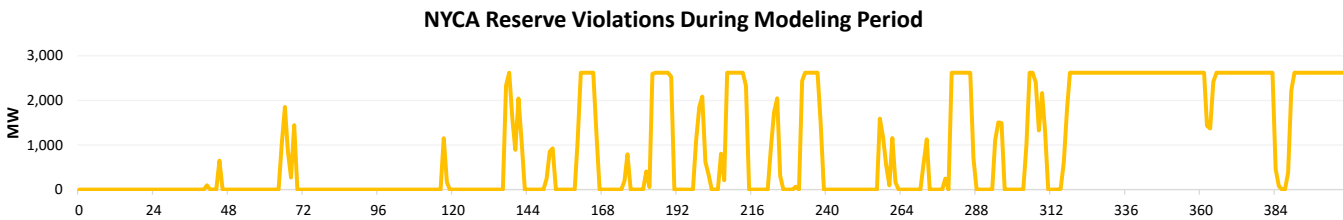
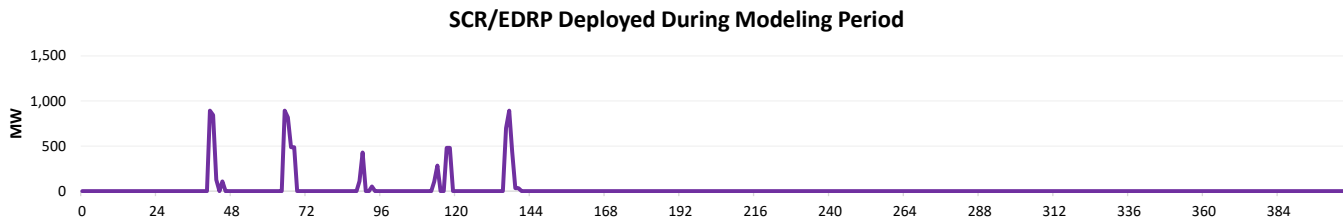
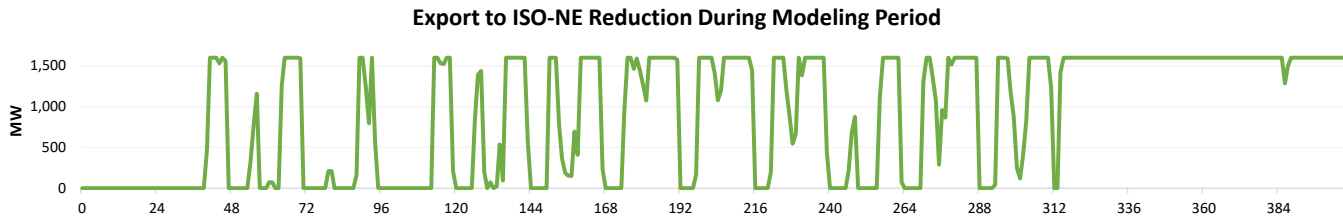
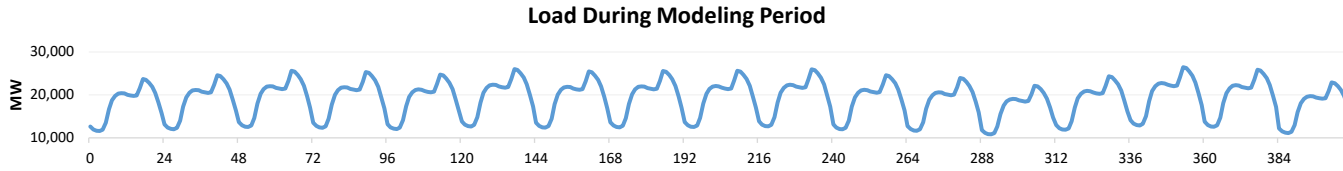
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 7 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	268
Total MWh	365,172
Avg. MW	895.0

SCR Deployment	
Total Hrs.	20
Total MWh	8,684
Avg. MW	21.3

Reserve Violations	
Total Hrs.	180
Total MWh	368,678
Avg. MW	903.6
First Hour with Viol.	41
First Hour, Zone K	65

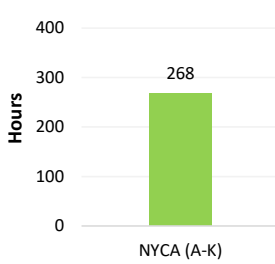
Loss of Load	
Total Hrs.	118
Total MWh	377,445
Avg. MW	925.1
First Hour with Losses	138
First Hour, Zone K	138

Full Period Results Summary

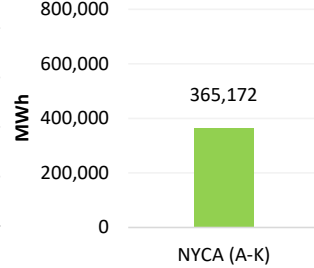
Case Name: Scenario 7 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

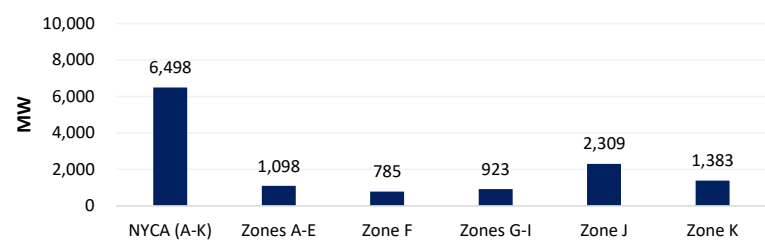
Hours Exports Reduced



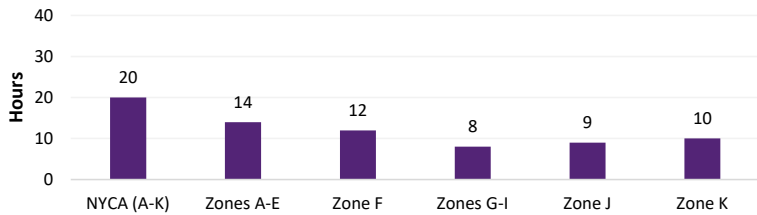
Total MWh of Exports Reduced



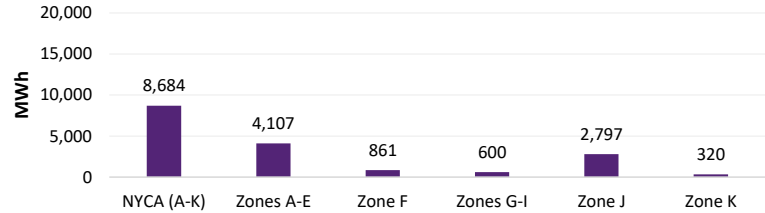
Average Capacity Not Available Due to Exhausted Fuel Inventory



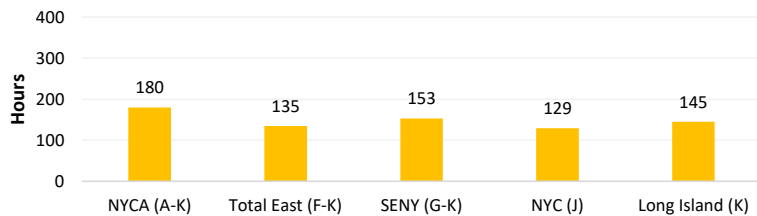
Hours SCR/EDRP Deployed



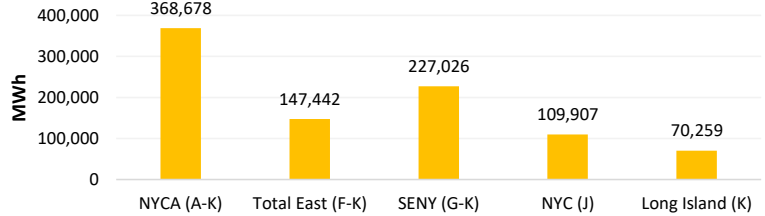
Total MWh SCR/EDRP Deployed



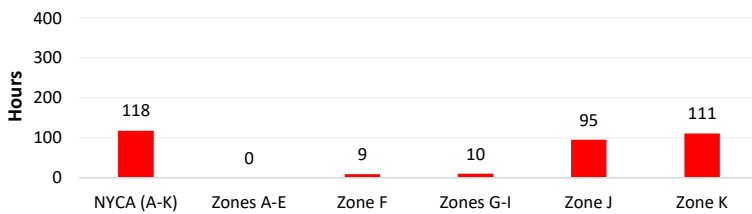
Hours with Reserve Violations



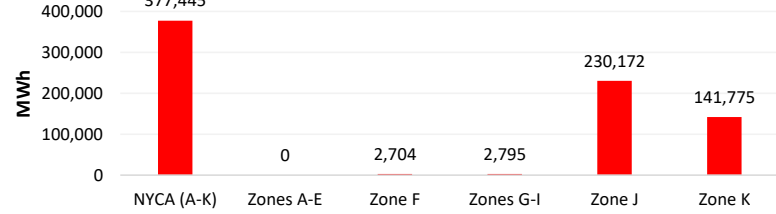
Total MWh of Reserve Violations



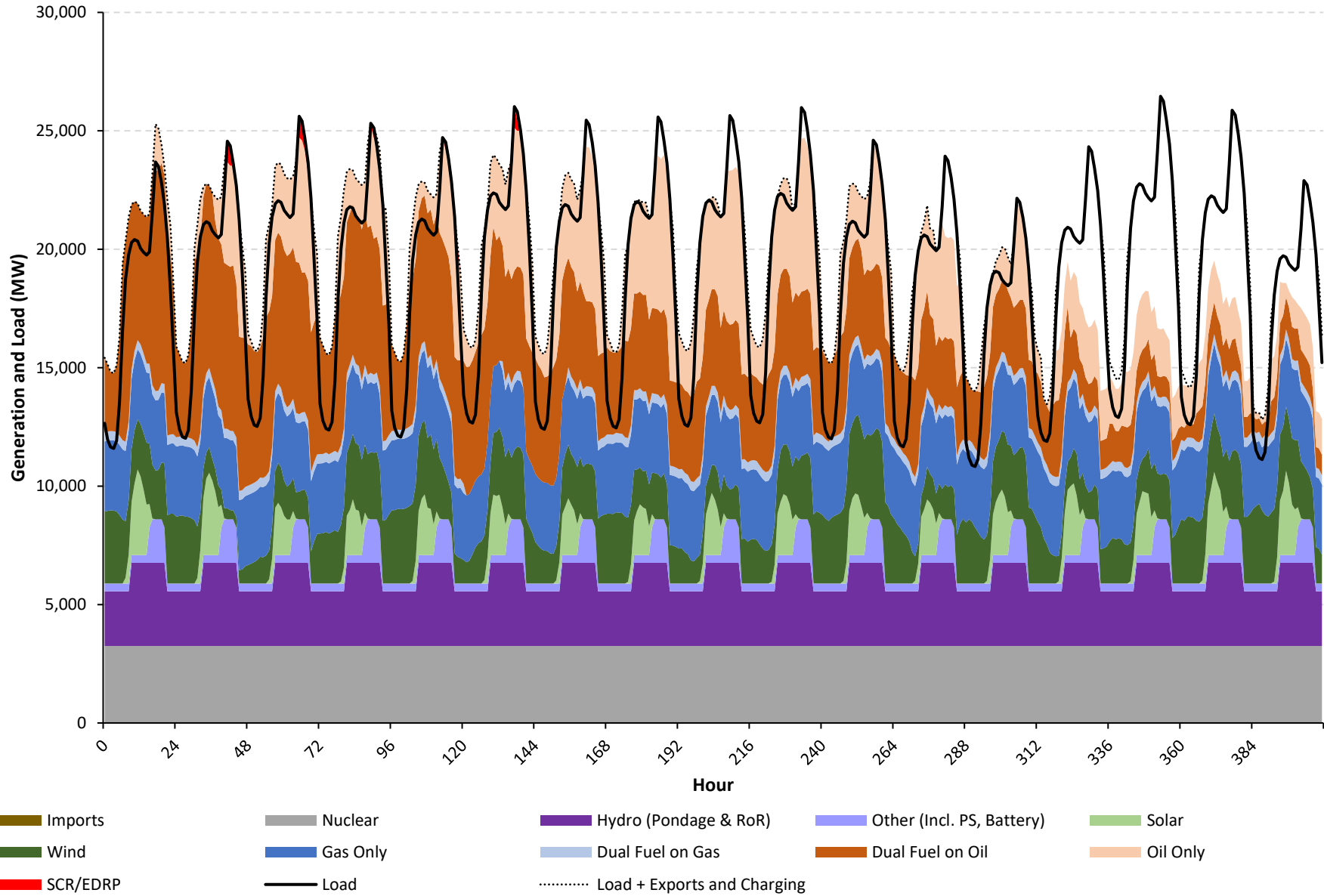
Hours with Loss of Load



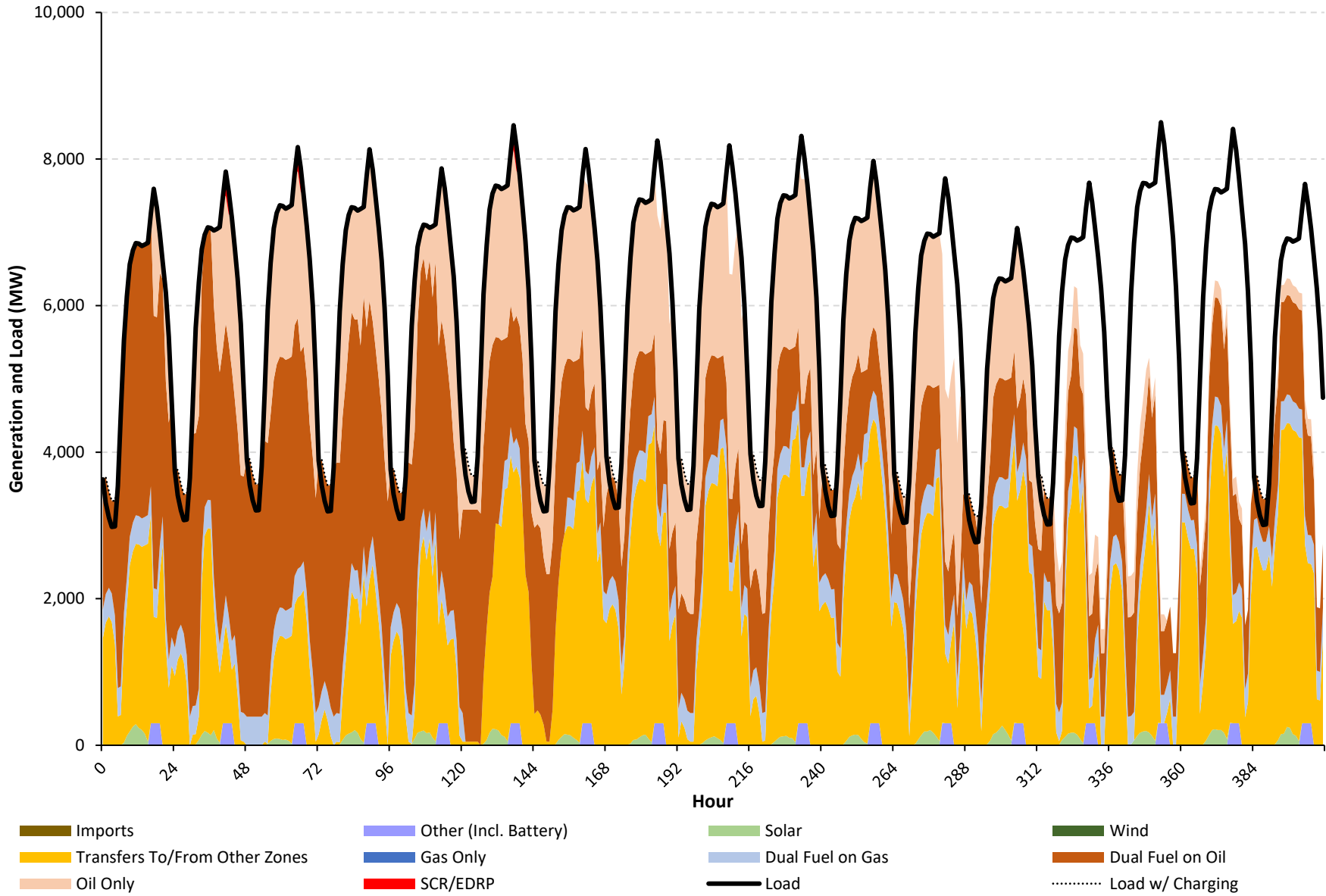
Total MWh of Lost Load



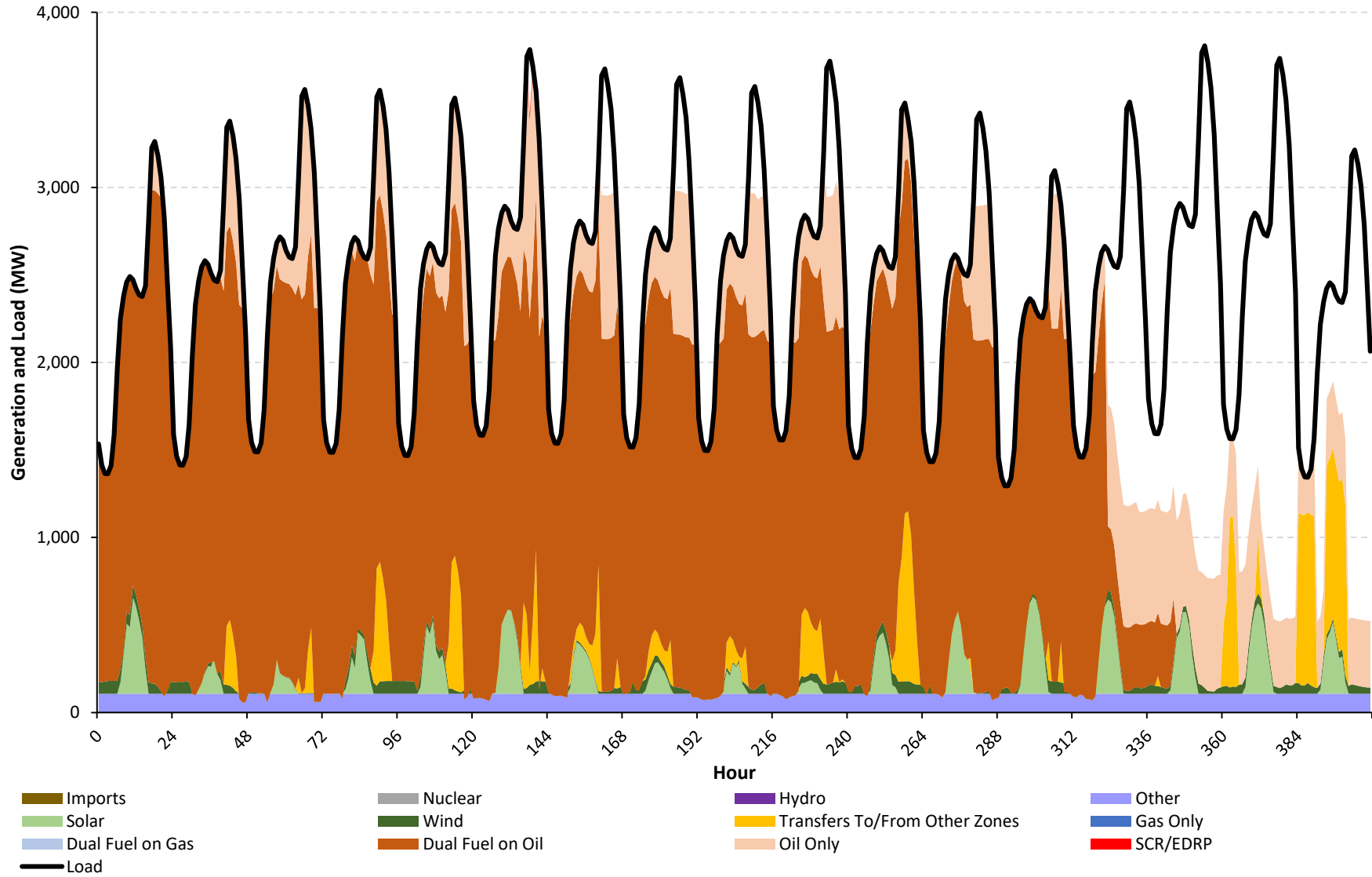
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 7 No Refill



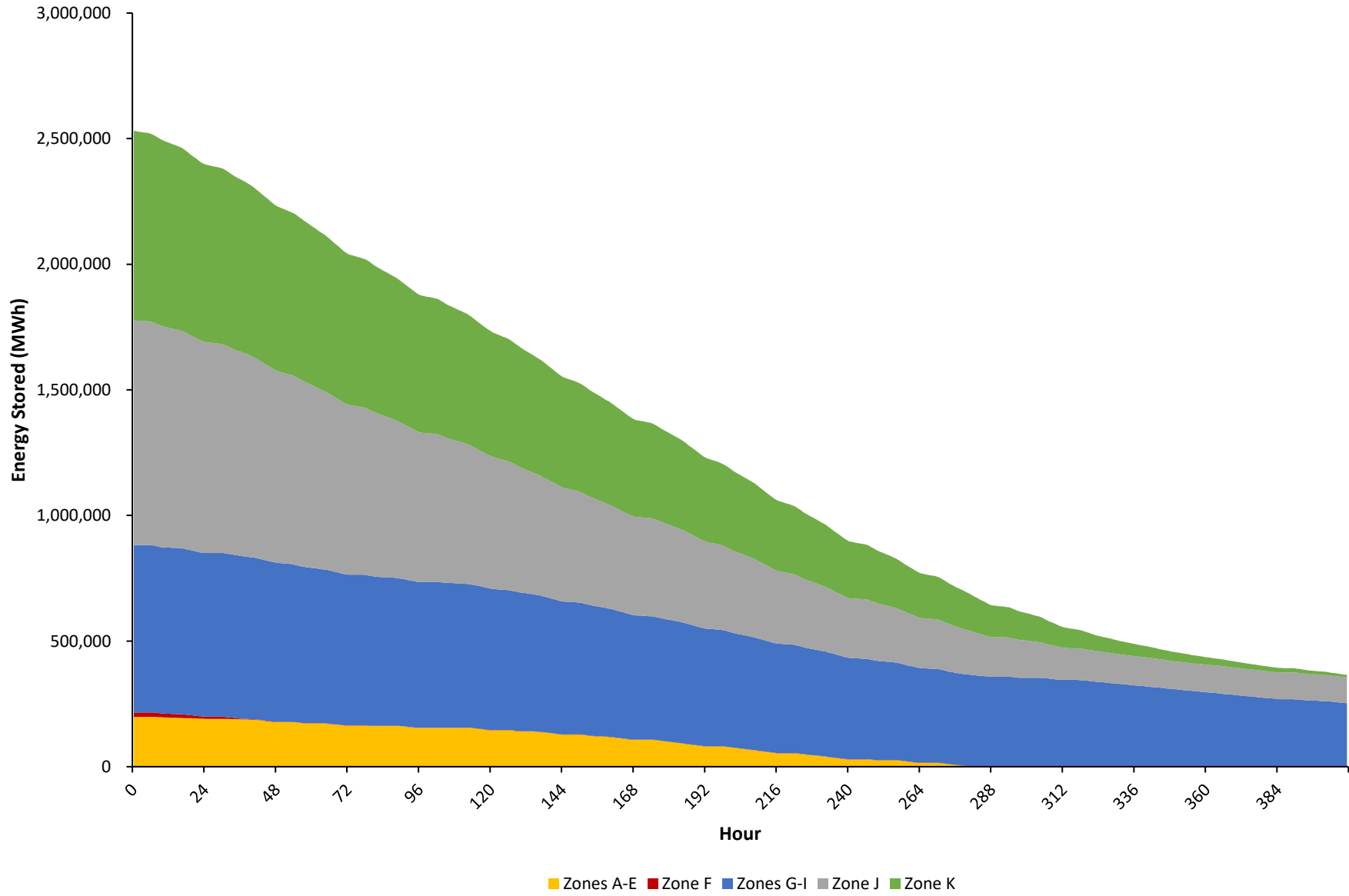
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 7 No Refill

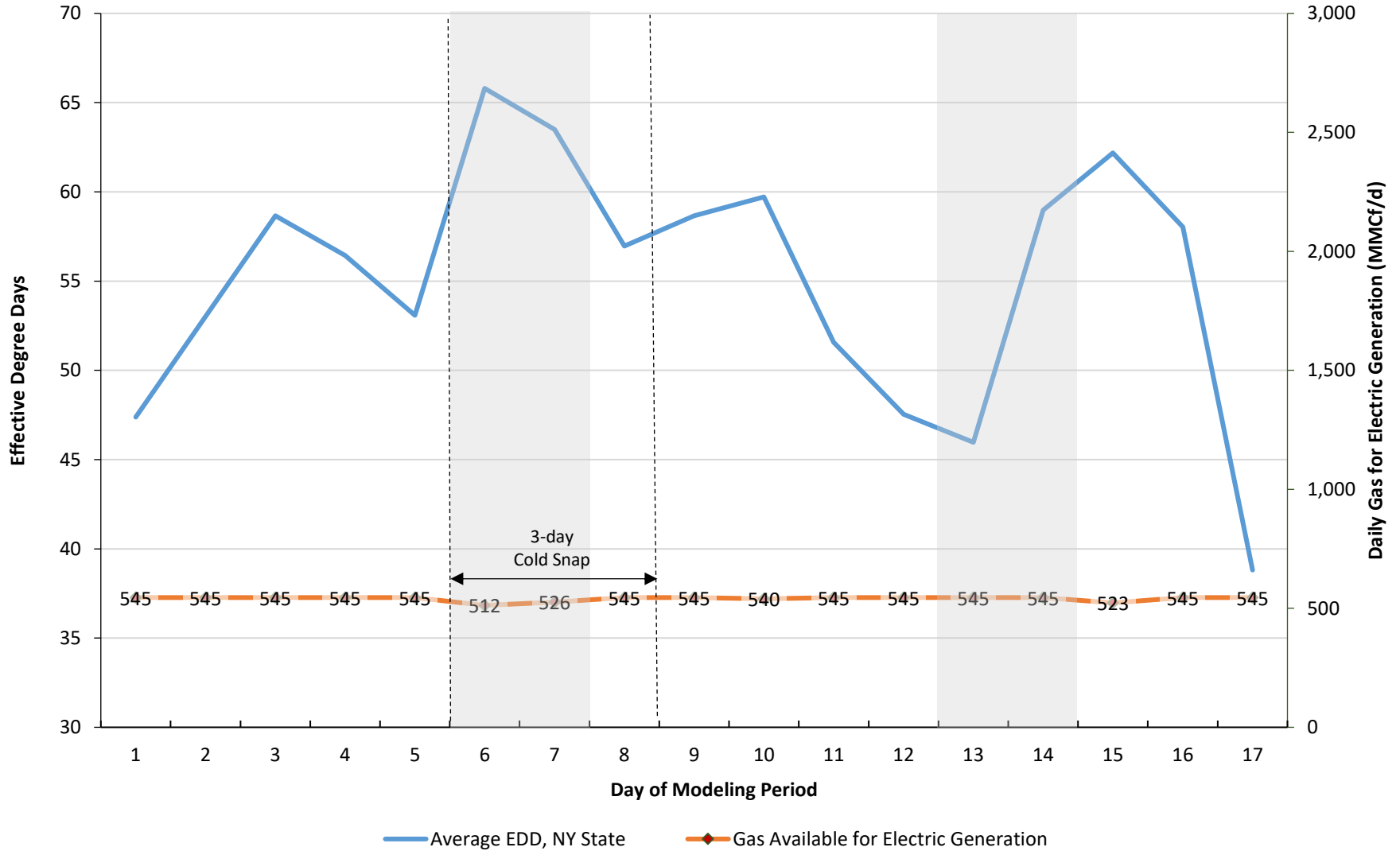


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

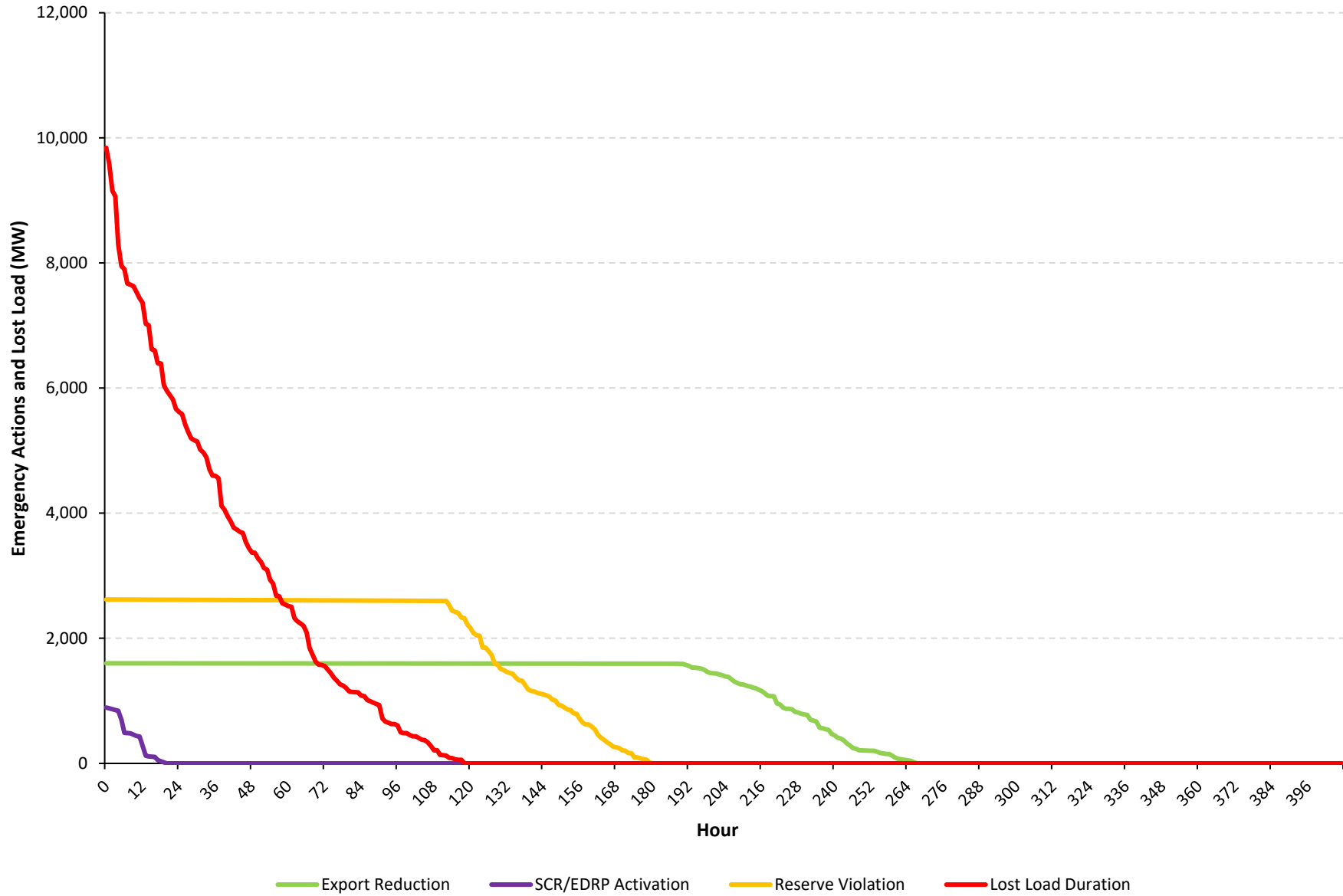
Scenario 7 - PD 7 No Refill



Notes:

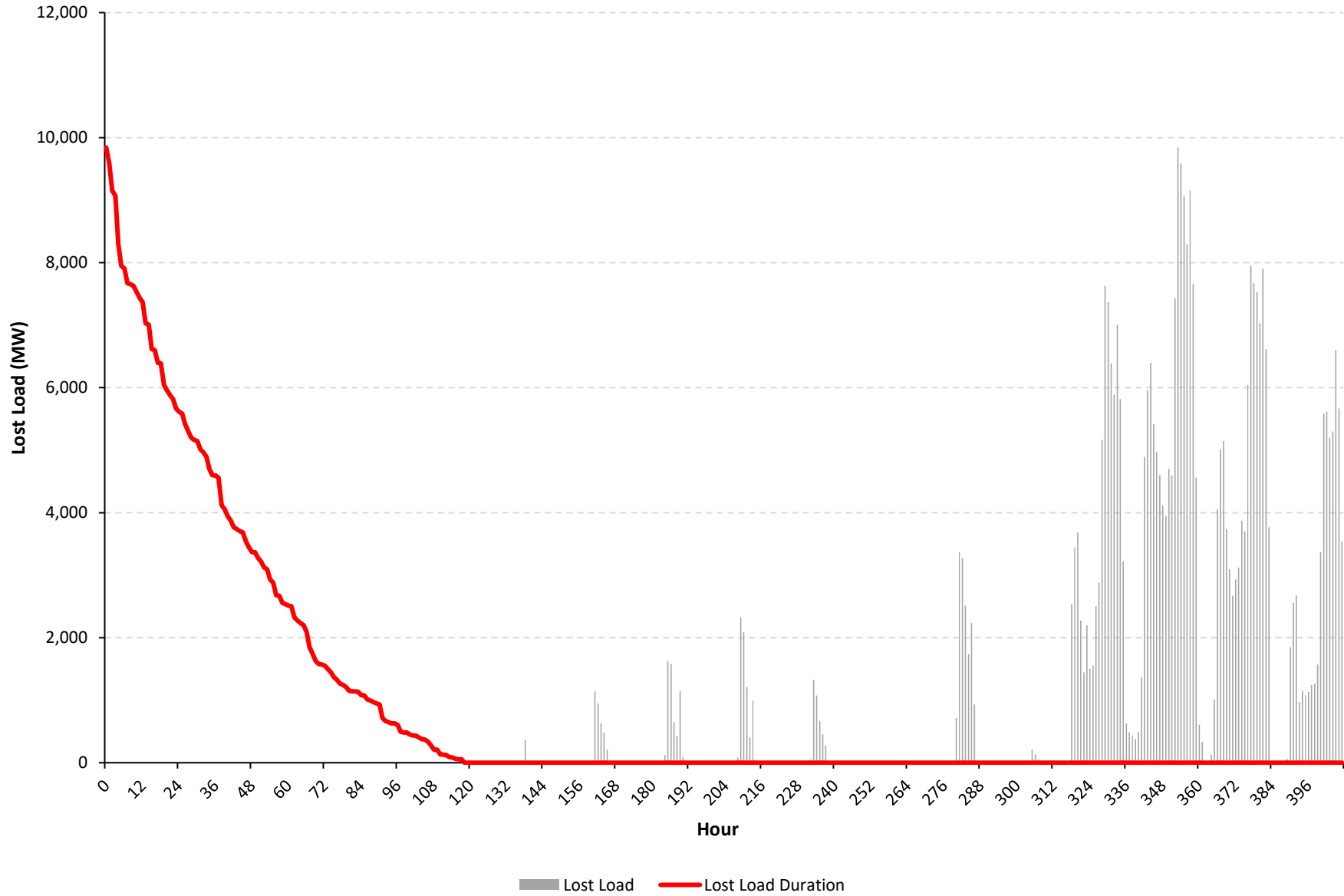
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 7 - PD 7 No Refill



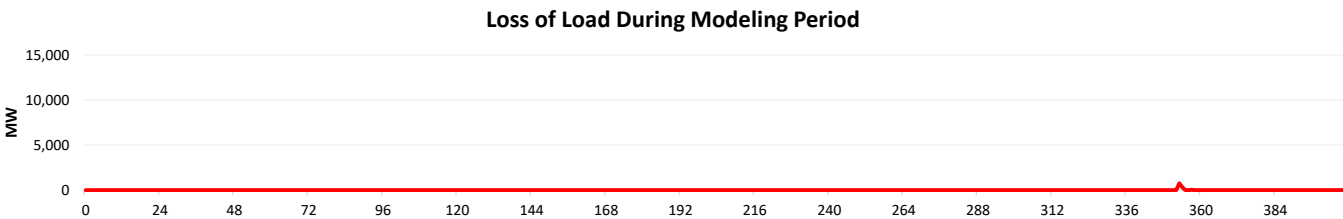
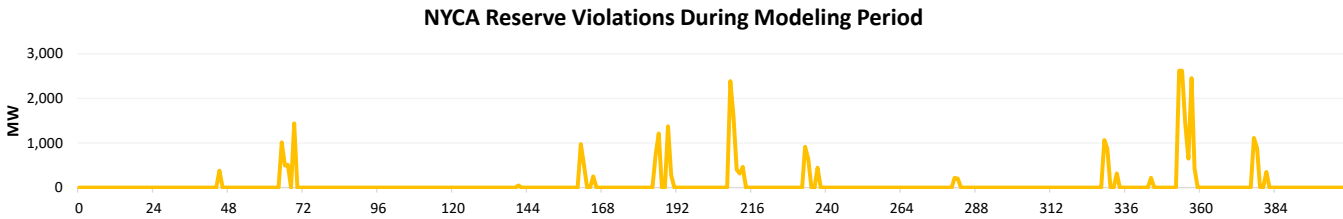
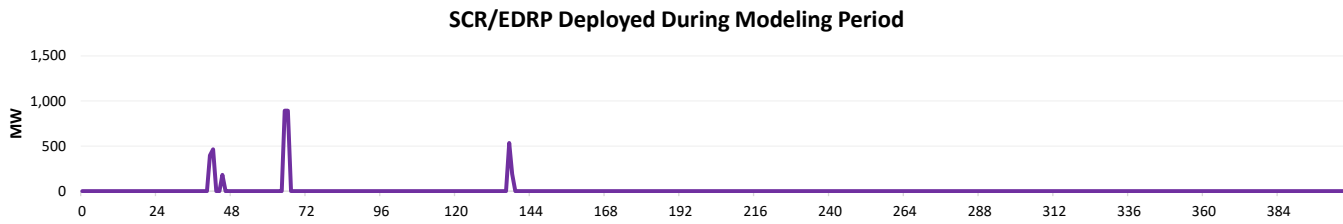
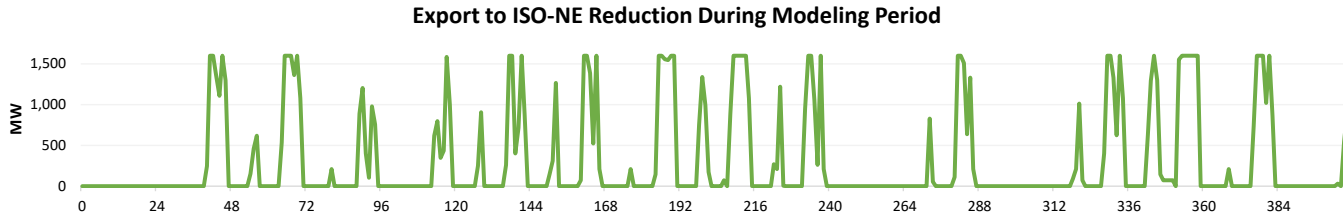
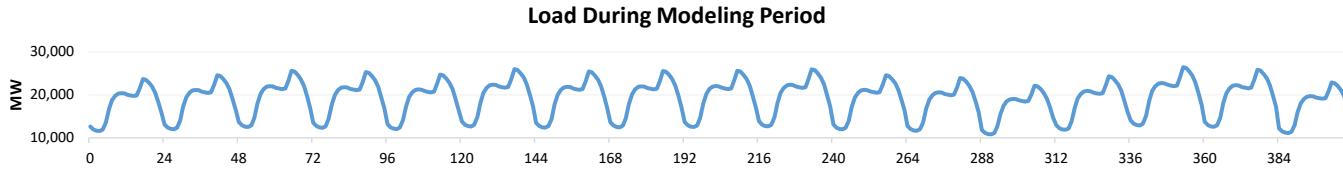
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	127
Total MWh	122,446
Avg. MW	300.1

SCR Deployment	
Total Hrs.	7
Total MWh	3,549
Avg. MW	8.7

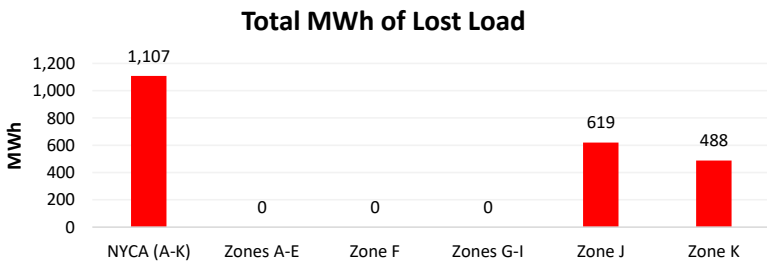
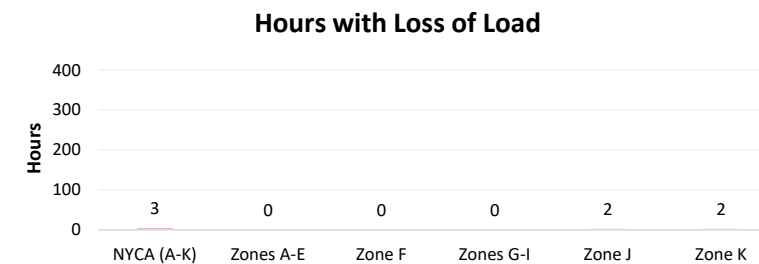
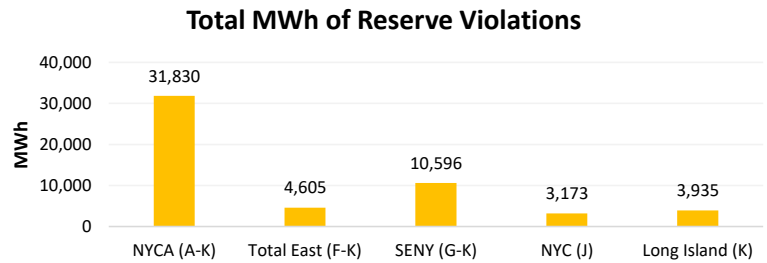
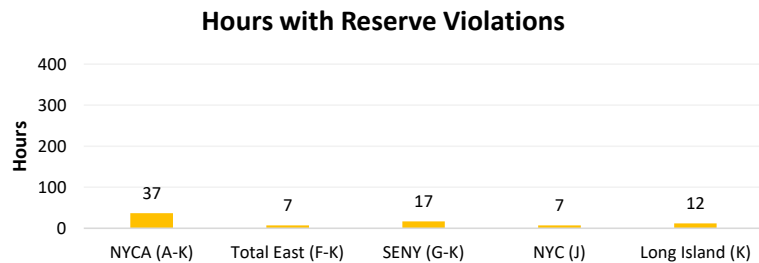
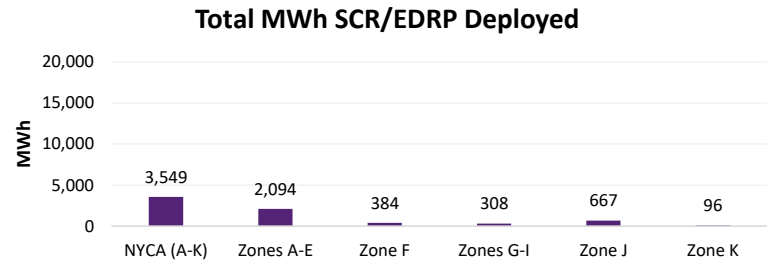
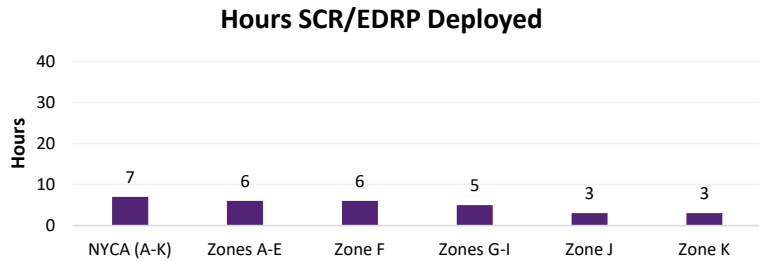
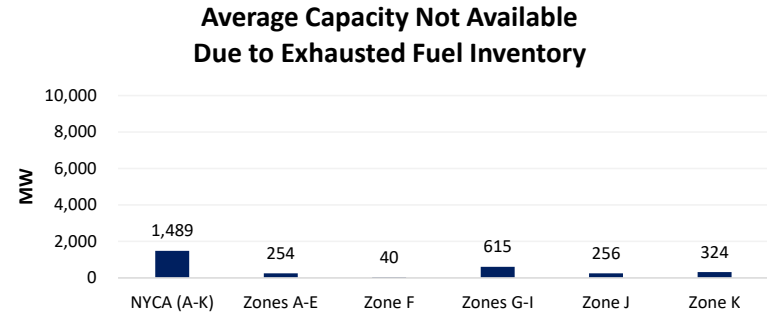
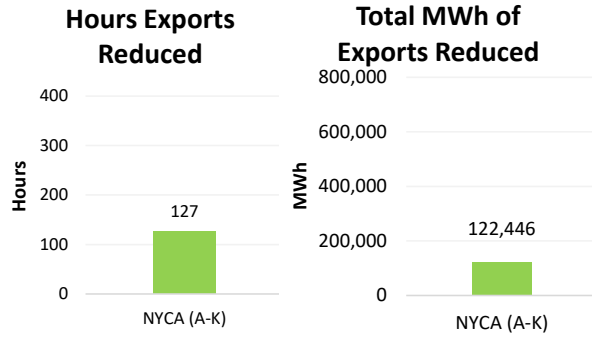
Reserve Violations	
Total Hrs.	37
Total MWh	31,830
Avg. MW	78.0
First Hour with Viol.	45
First Hour, Zone K	65

Loss of Load	
Total Hrs.	3
Total MWh	1,107
Avg. MW	2.7
First Hour with Losses	353
First Hour, Zone K	353

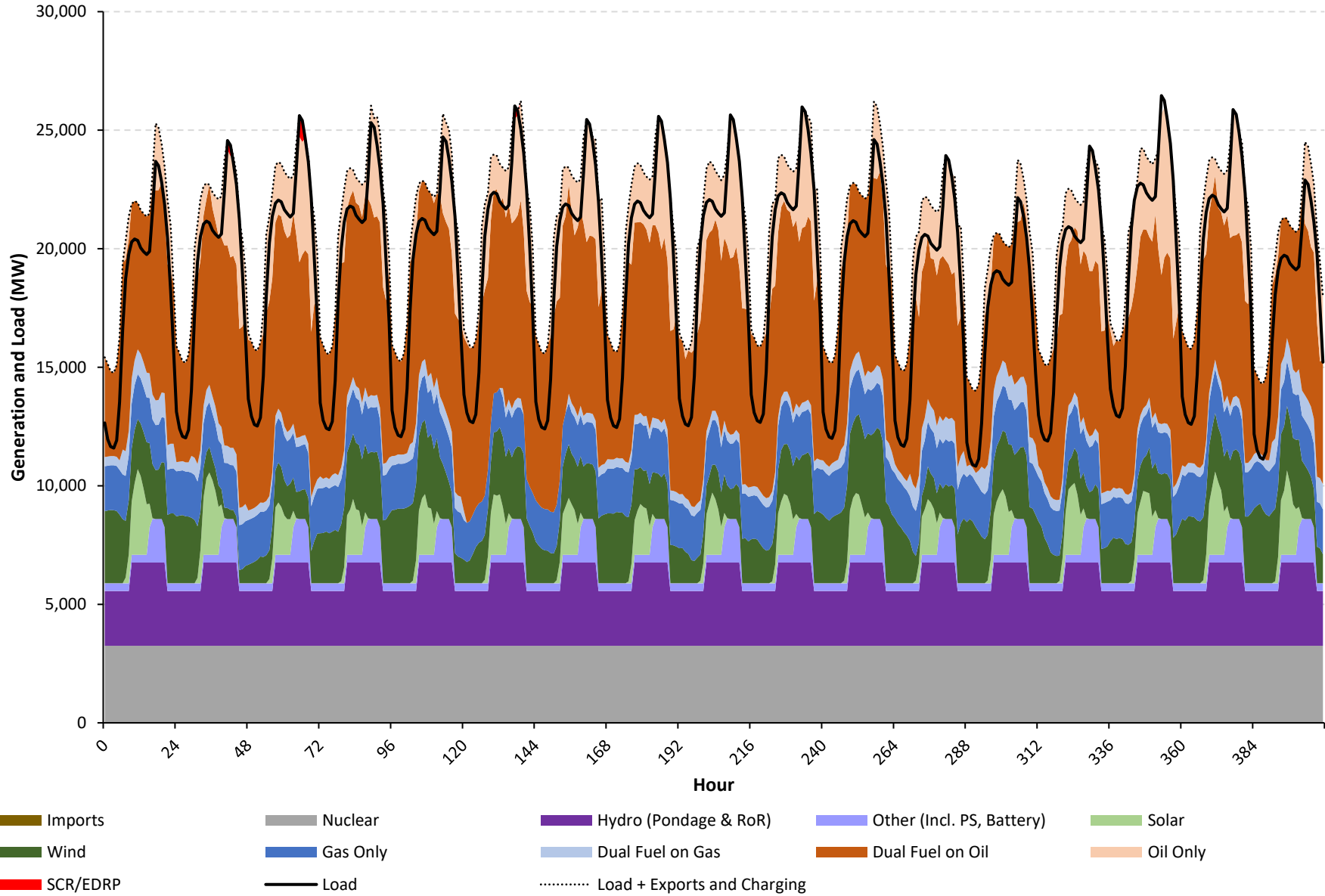
Full Period Results Summary

Case Name: Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



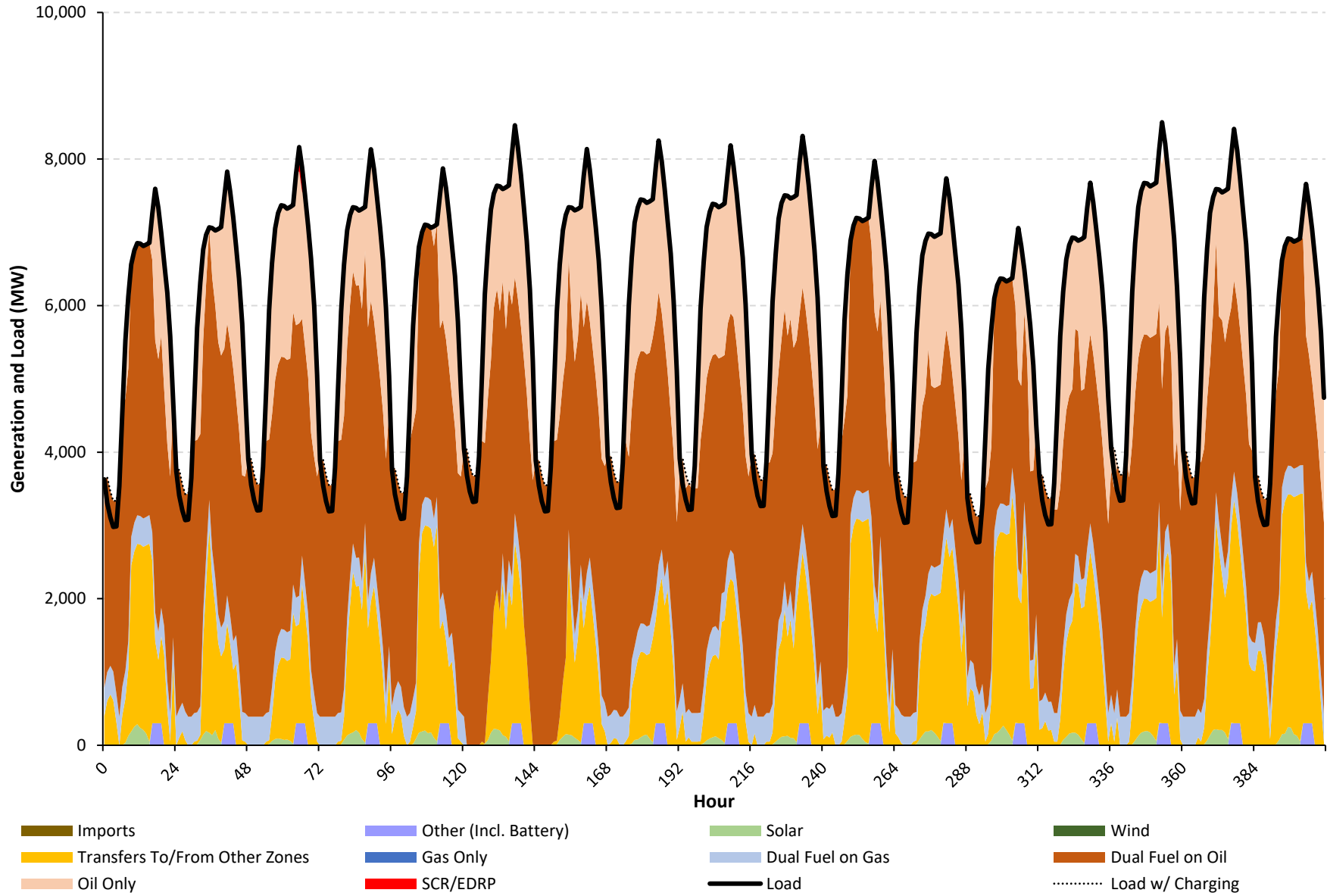
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)



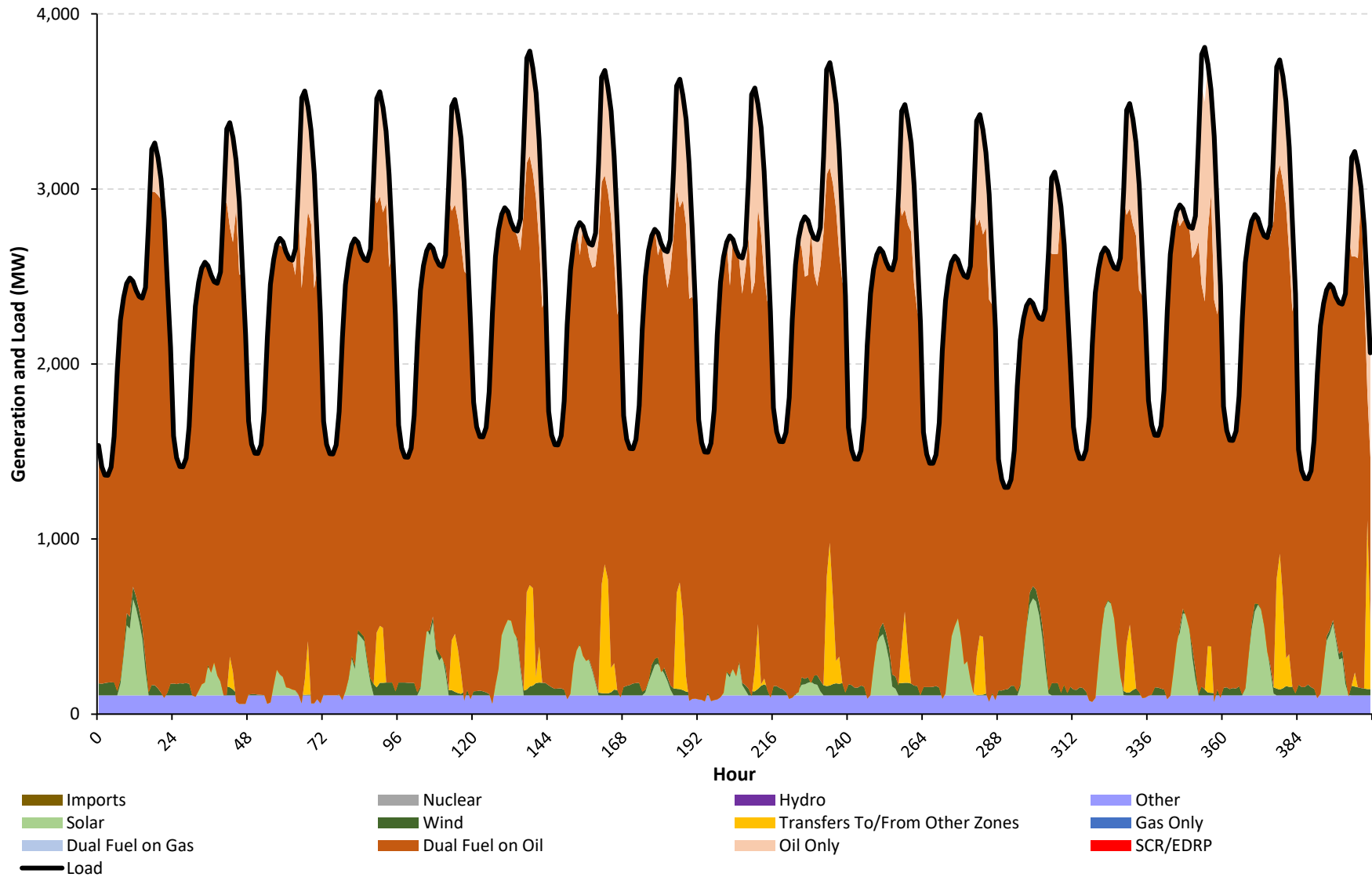
Zone J

Hourly Generation (MW) by Fuel Group

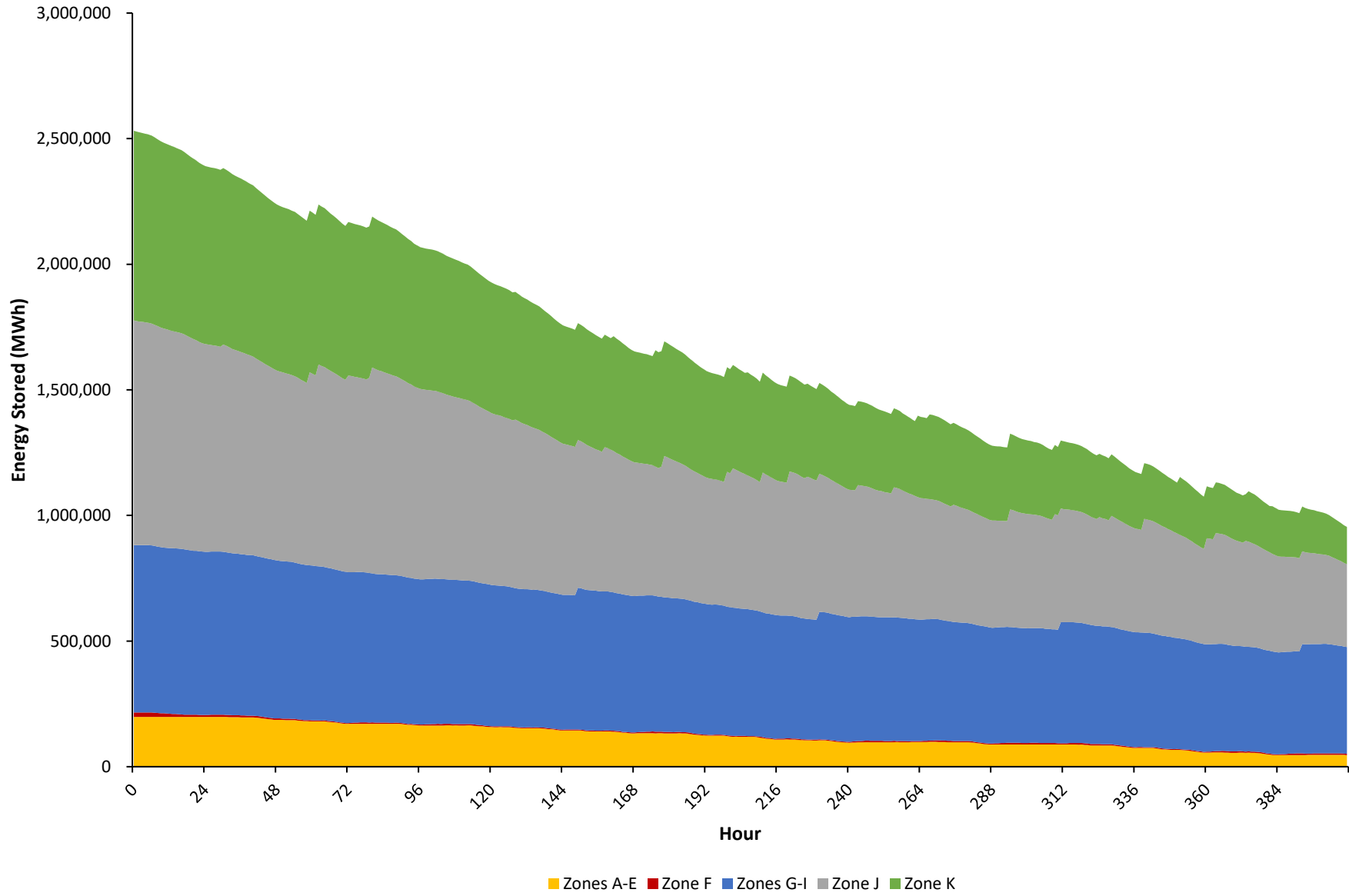
Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)

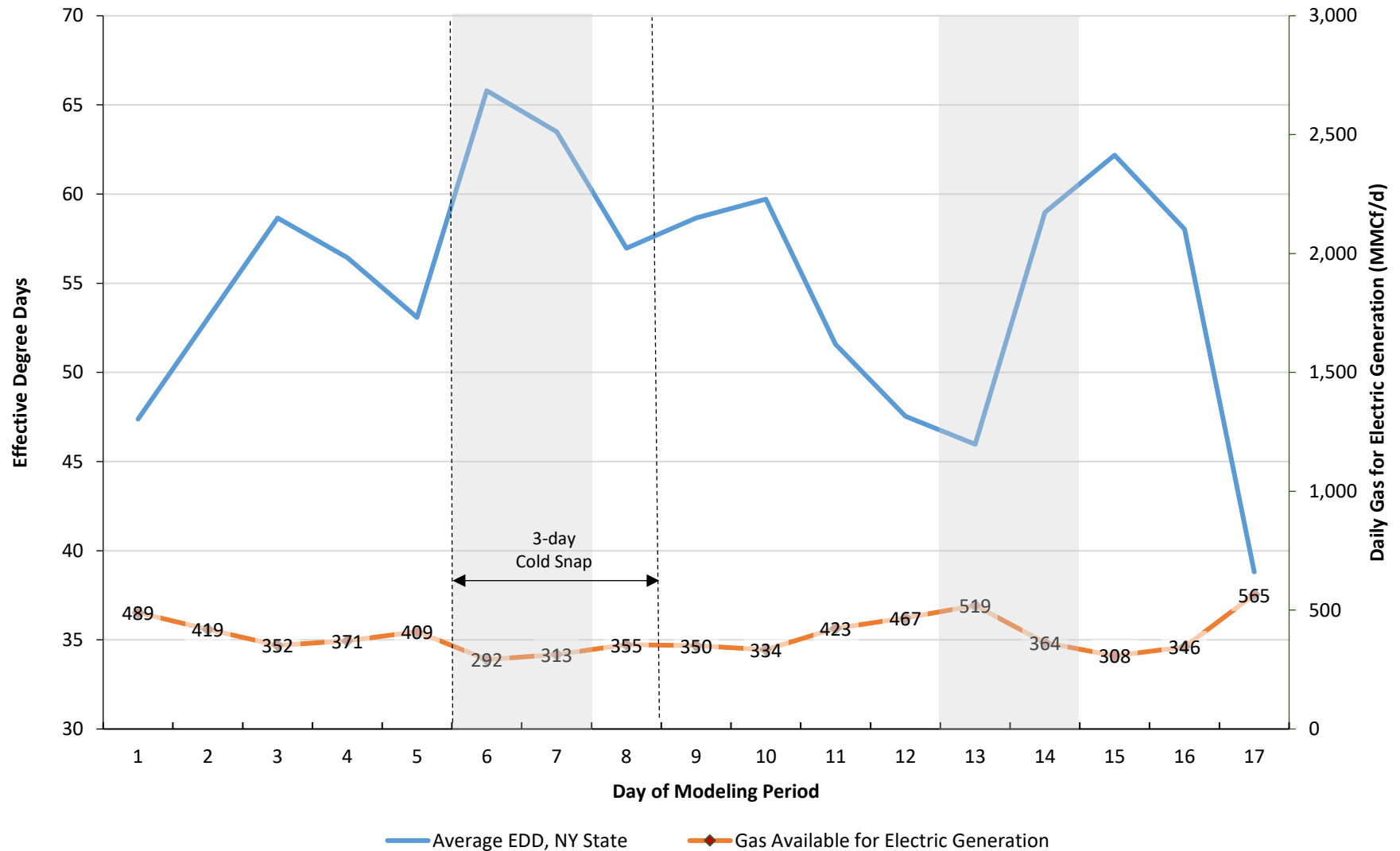


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

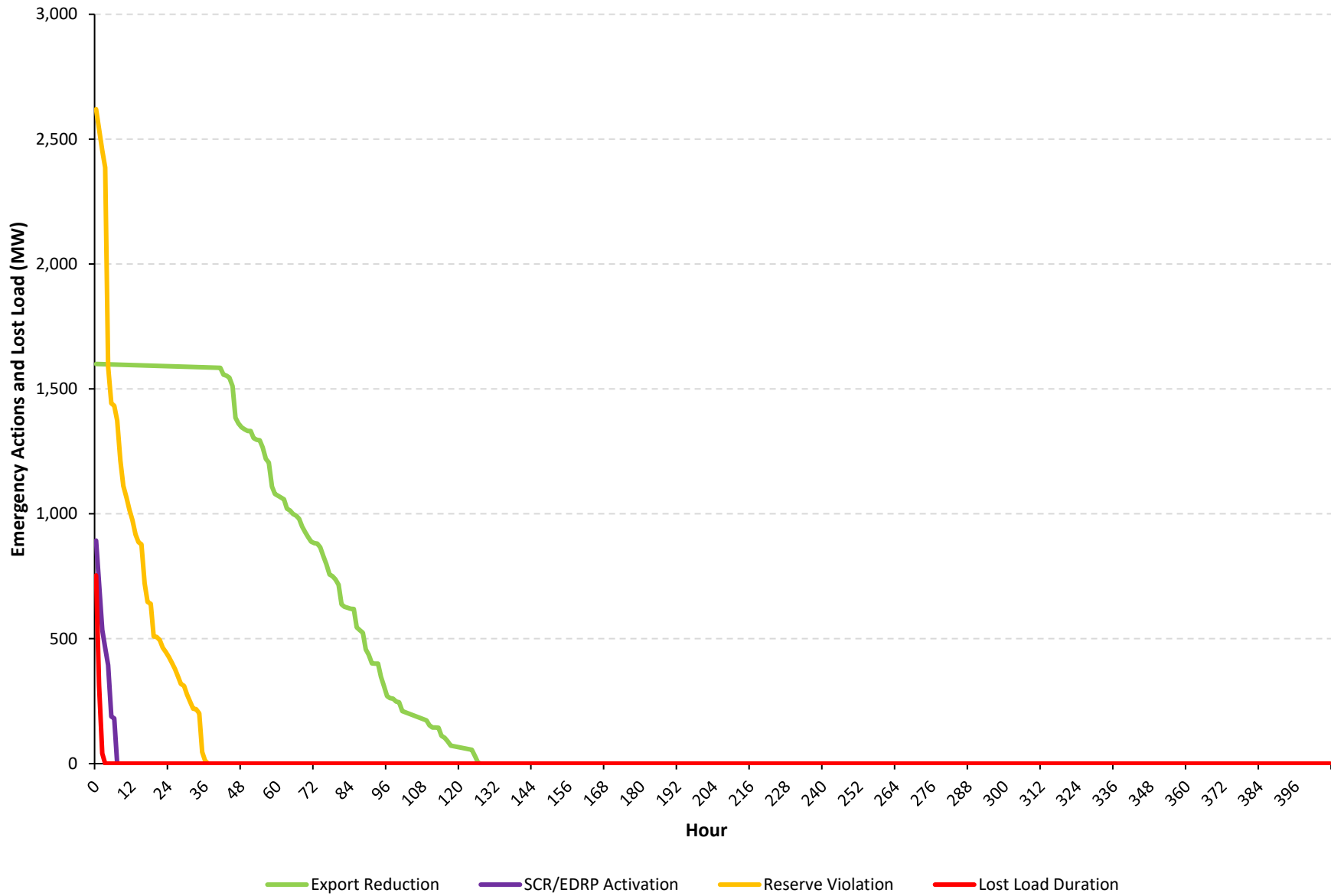
Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)



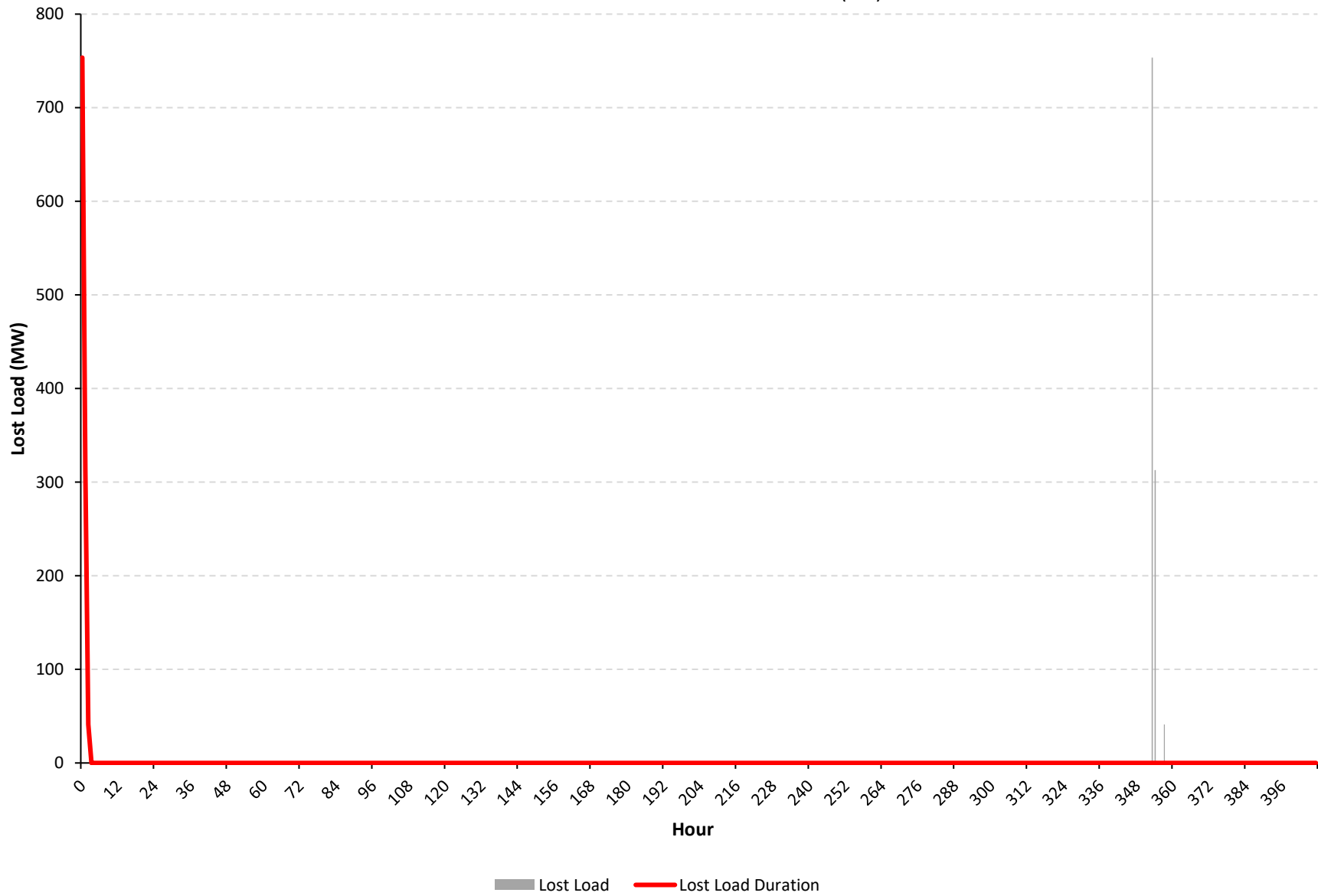
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 8 Non-Firm Gas Unavailable (F-K)

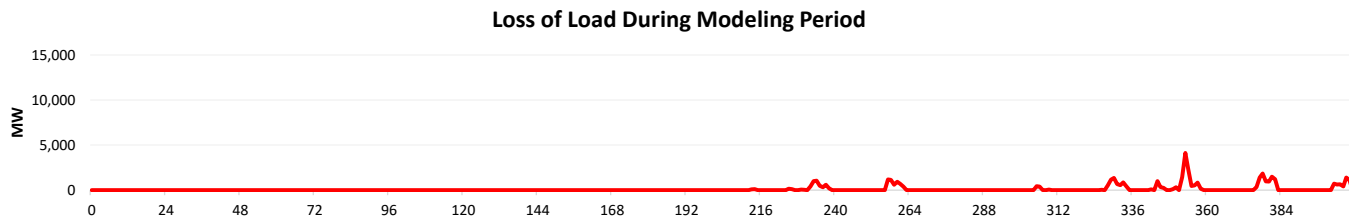
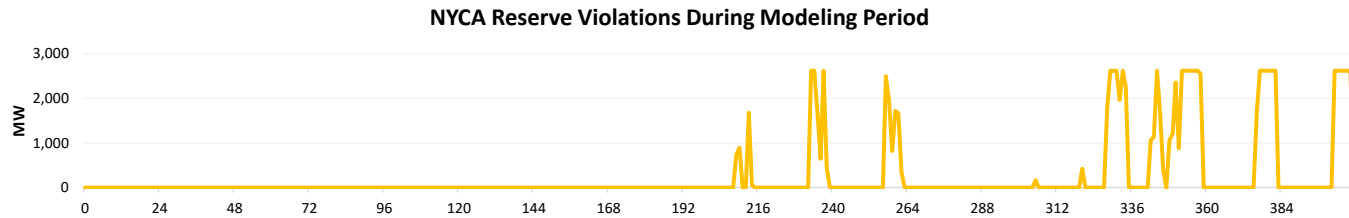
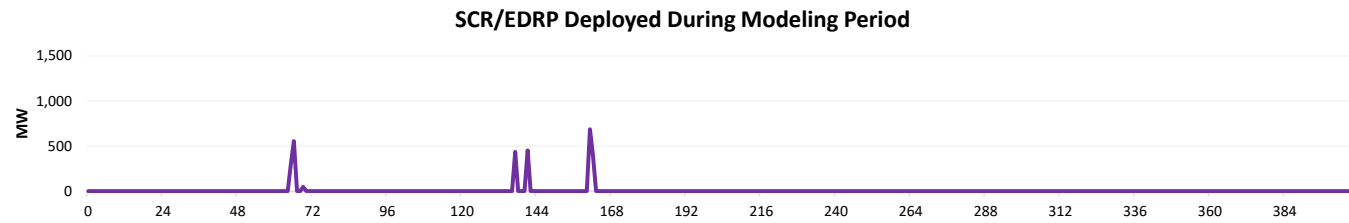
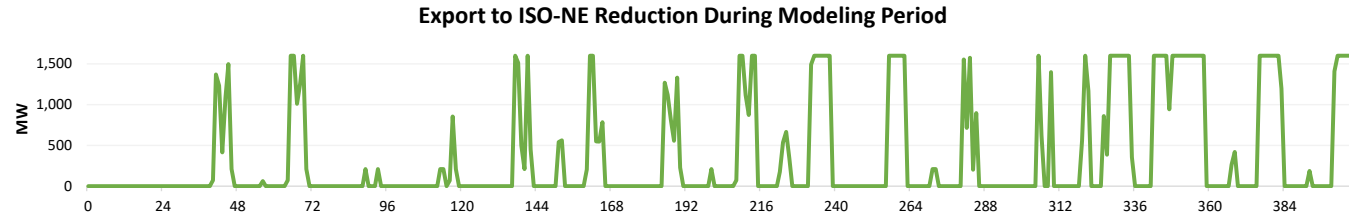
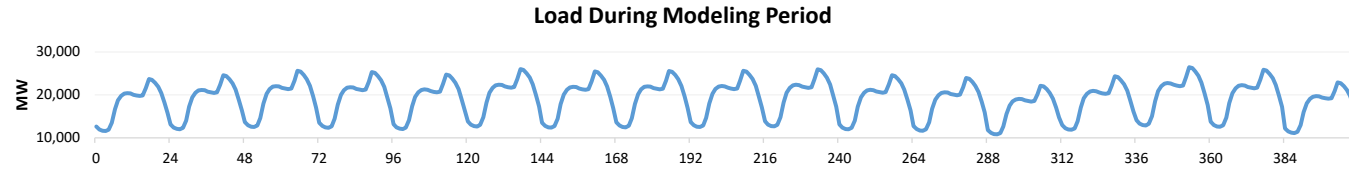


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 7 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	126
Total MWh	141,450
Avg. MW	346.7

SCR Deployment	
Total Hrs.	7
Total MWh	2,864
Avg. MW	7.0

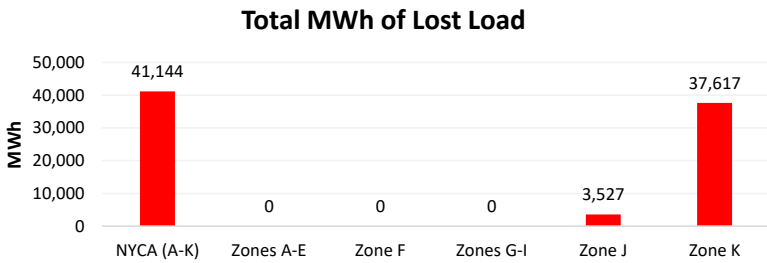
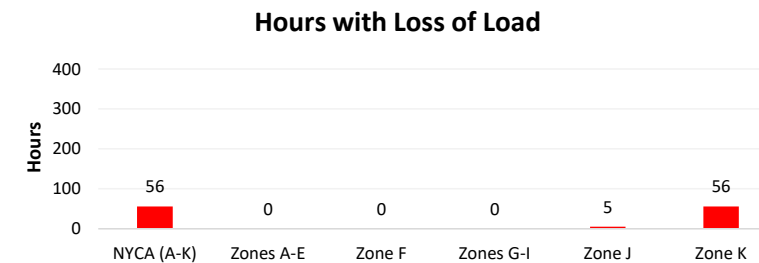
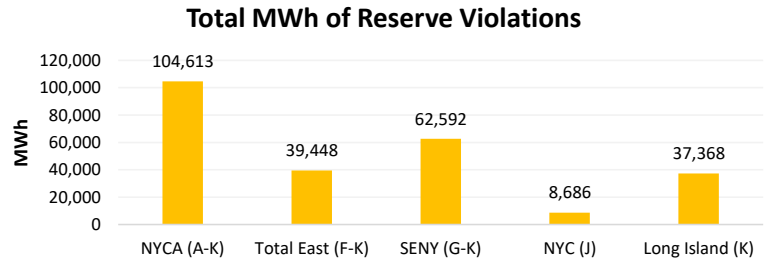
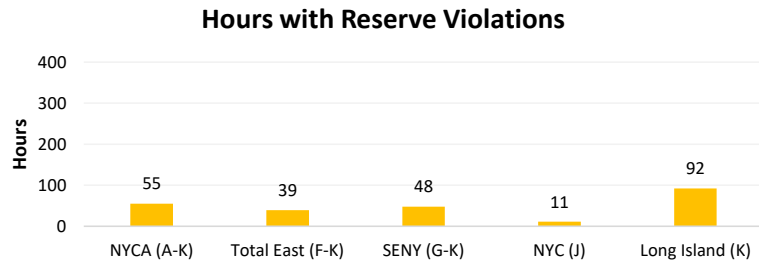
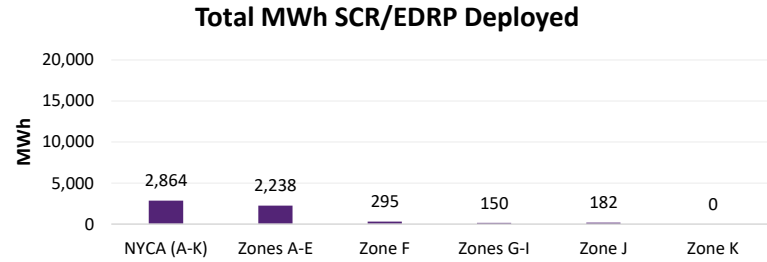
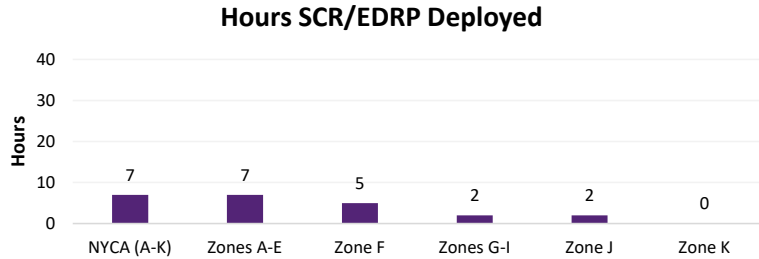
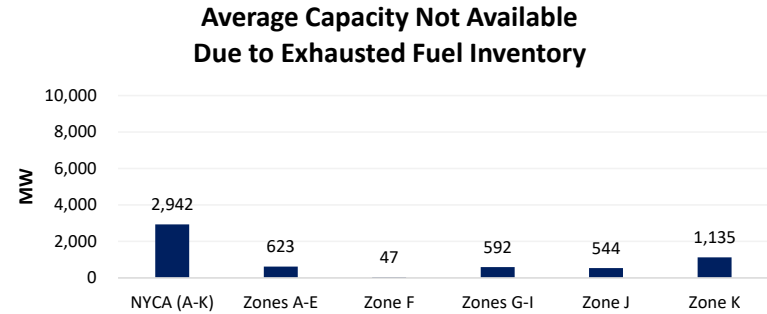
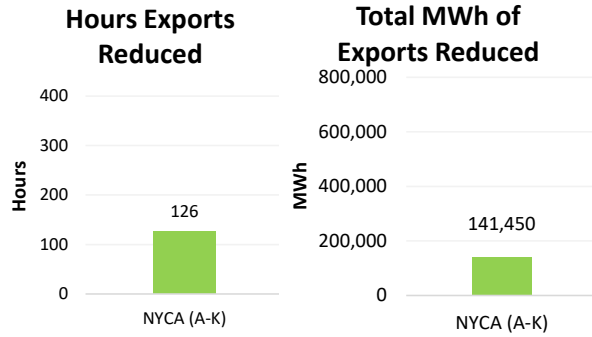
Reserve Violations	
Total Hrs.	55
Total MWh	104,613
Avg. MW	256.4
First Hour with Viol.	209
First Hour, Zone K	213

Loss of Load	
Total Hrs.	56
Total MWh	41,144
Avg. MW	100.8
First Hour with Losses	213
First Hour, Zone K	213

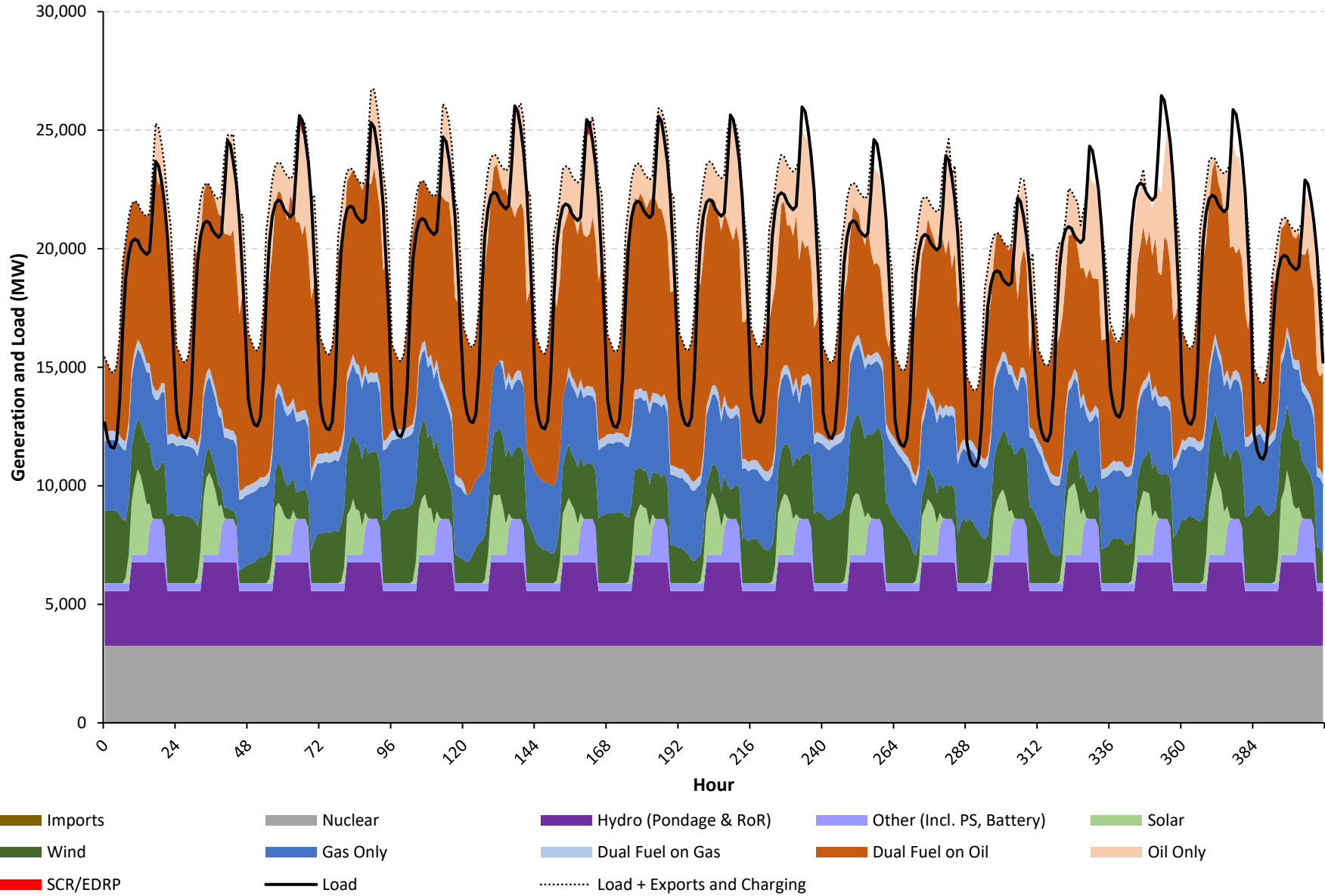
Full Period Results Summary

Case Name: Scenario 7 - PD 9 Low Fuel Inventory

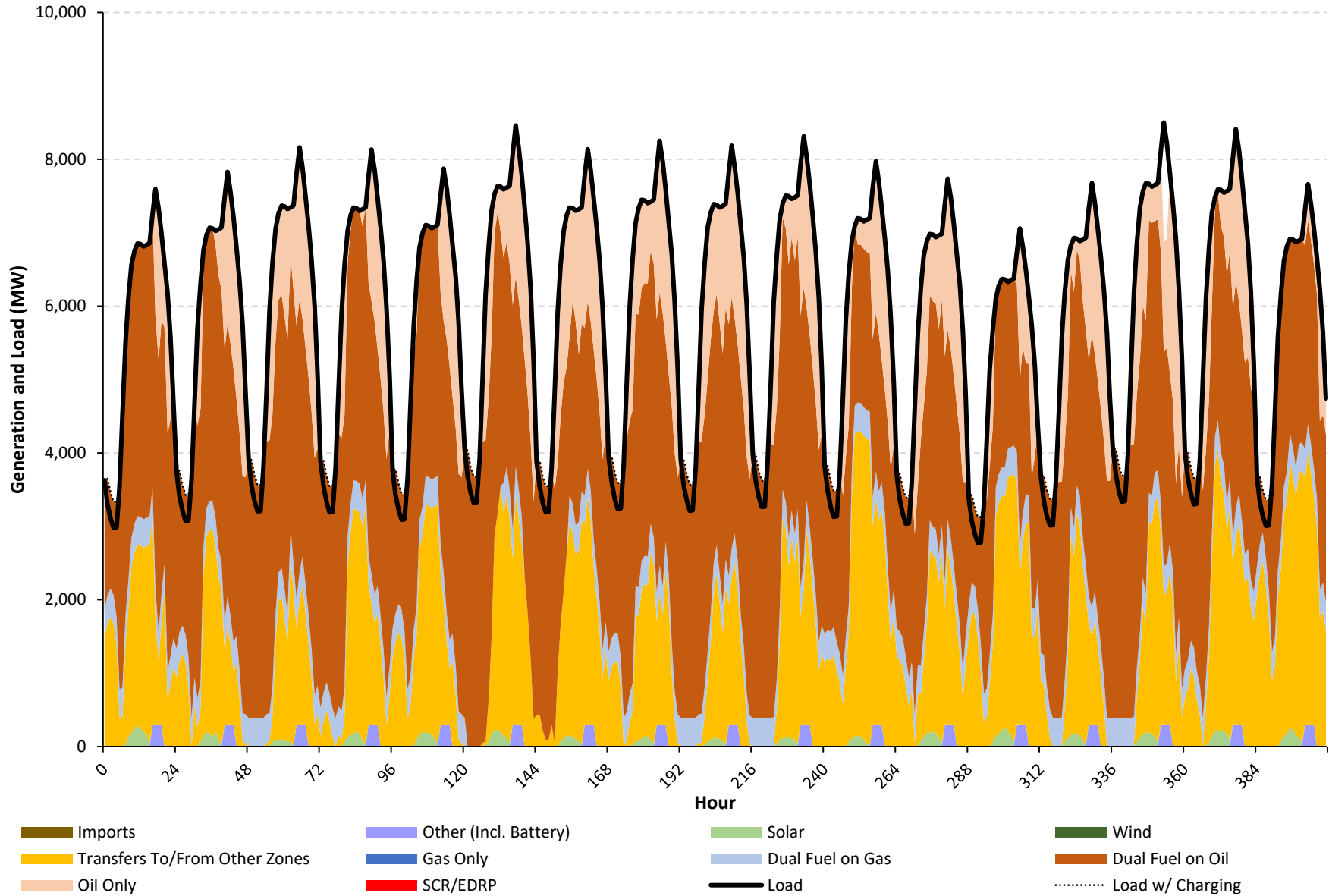
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



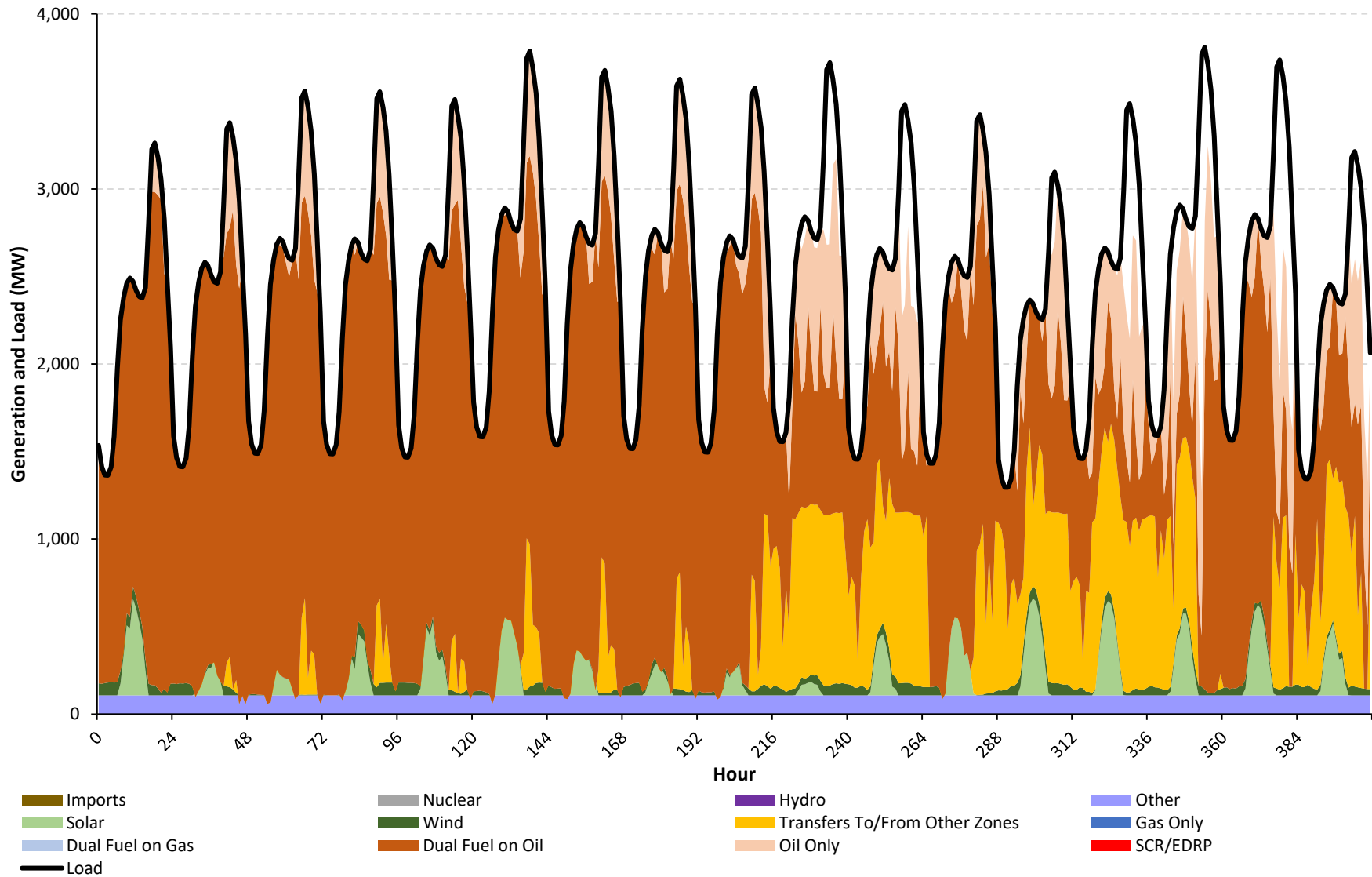
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 9 Low Fuel Inventory



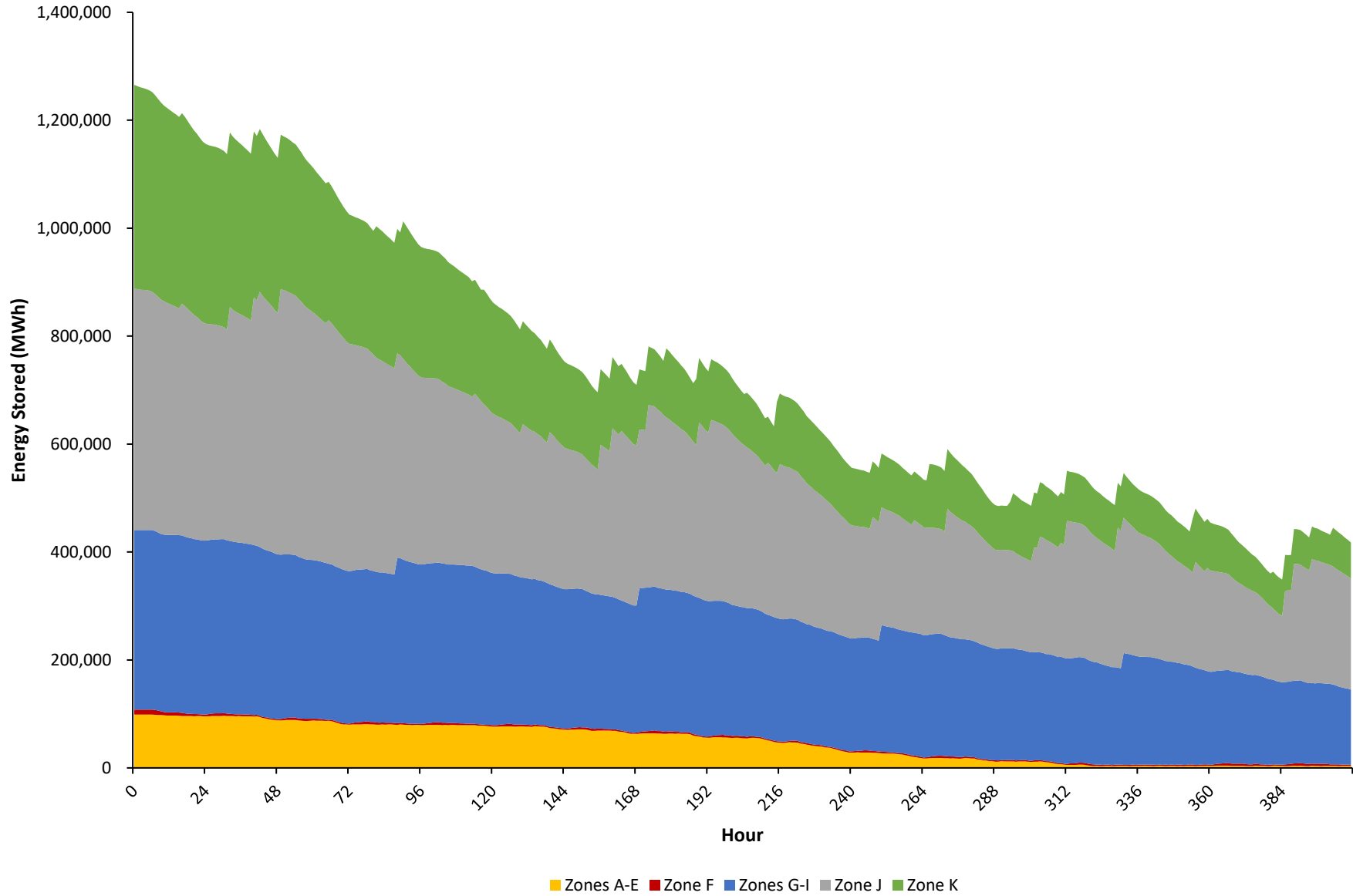
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 9 Low Fuel Inventory



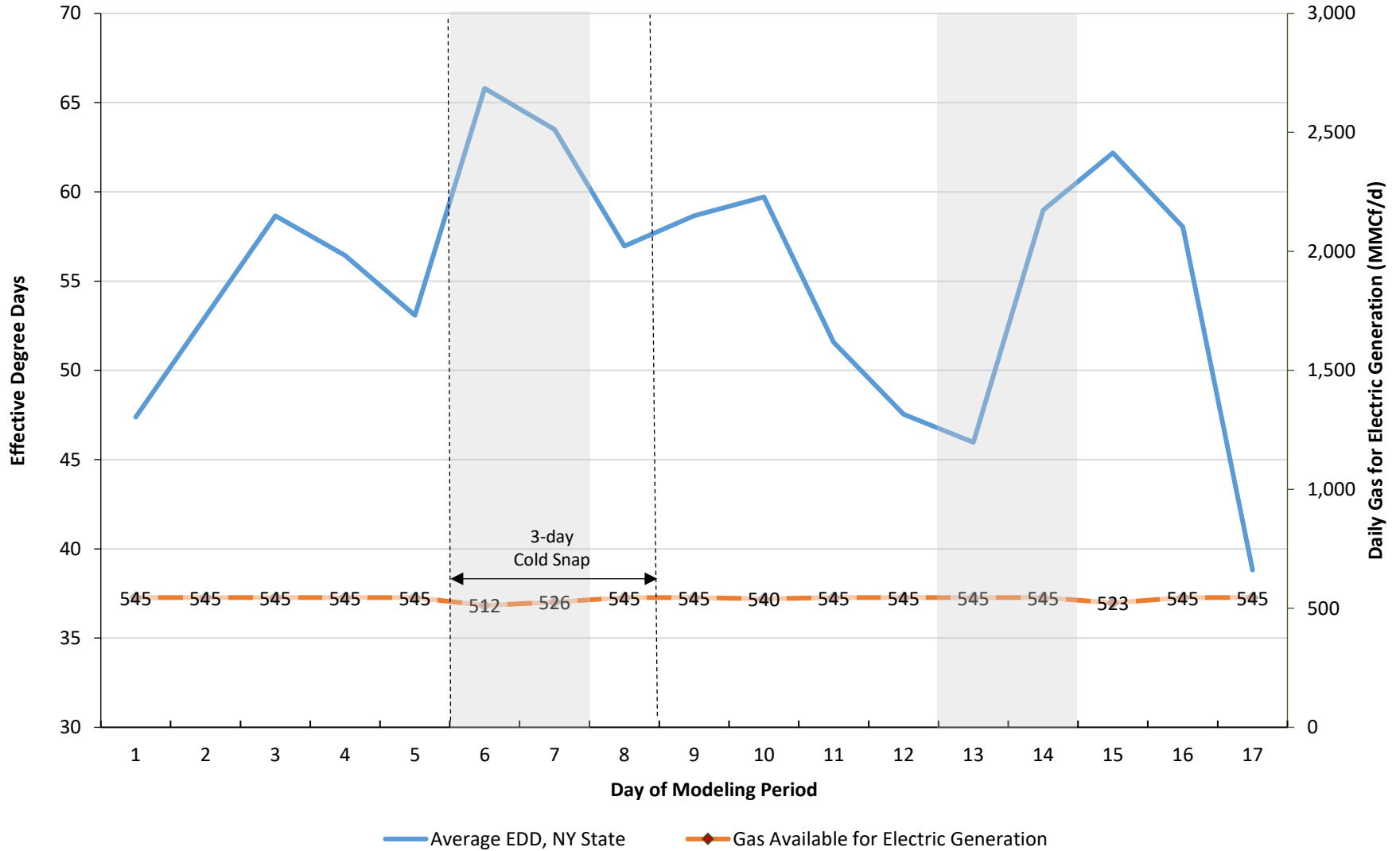
Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 9 Low Fuel Inventory



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 9 Low Fuel Inventory



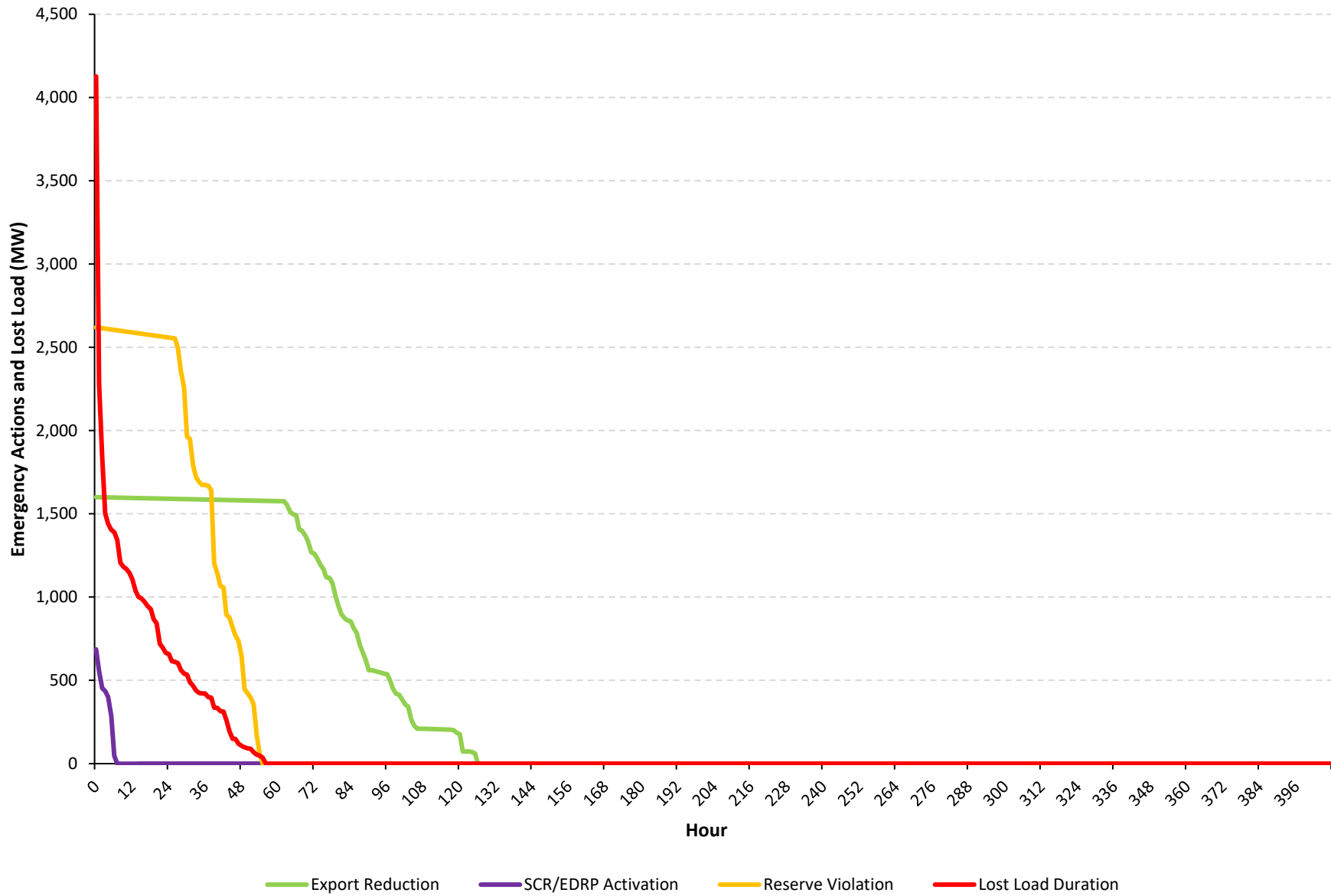
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 7 - PD 9 Low Fuel Inventory



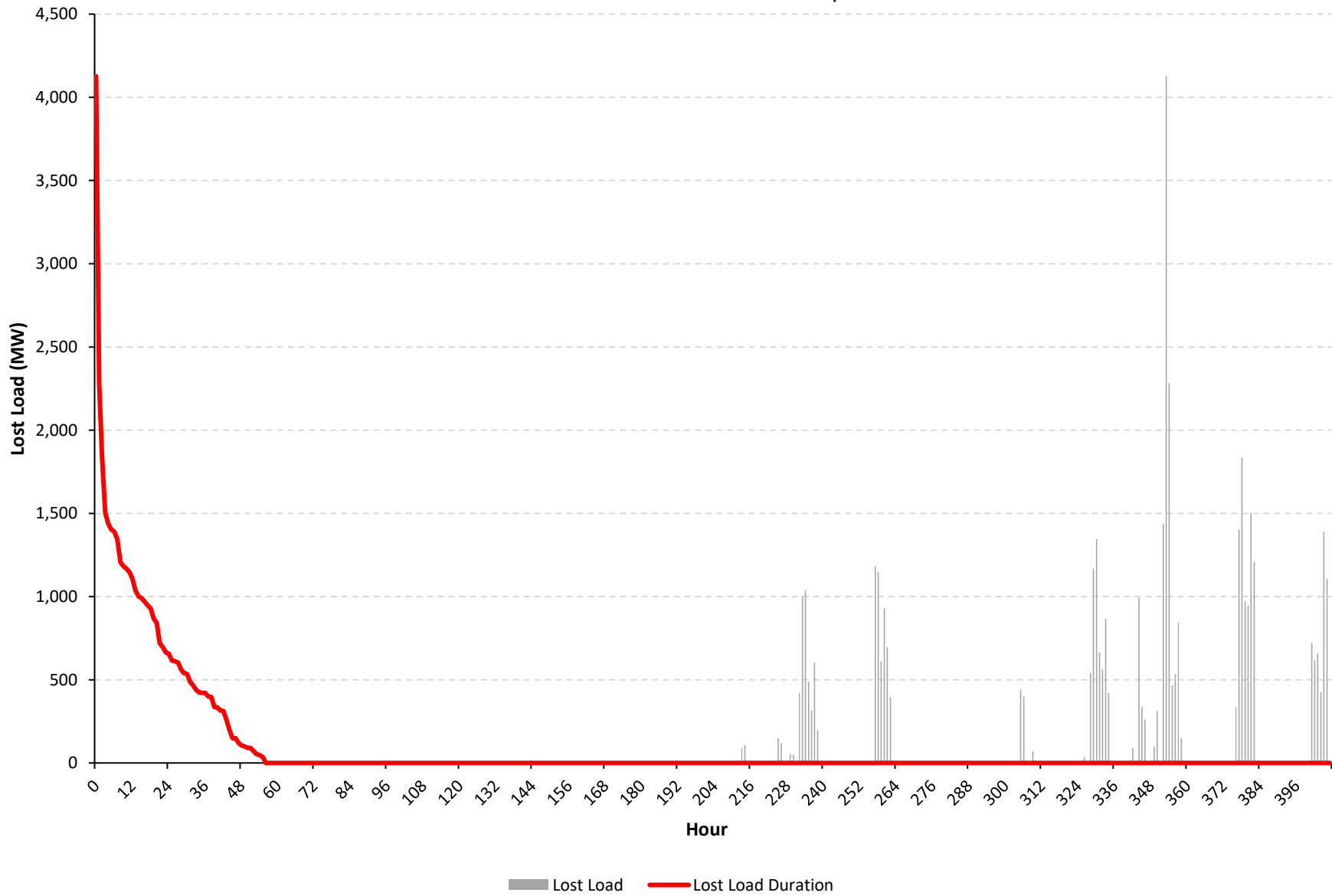
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 9 Low Fuel Inventory



NYCA
Lost Load Duration (MWh)
Scenario 7 - PD 9 Low Fuel Inventory

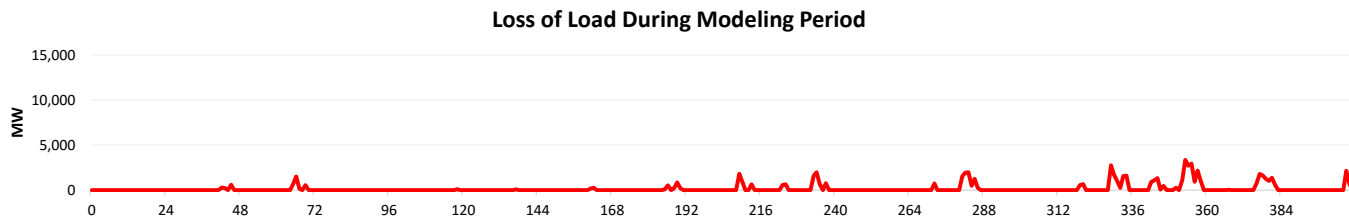
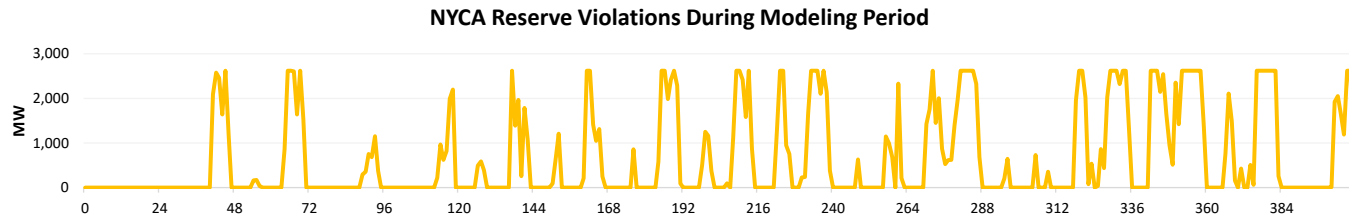
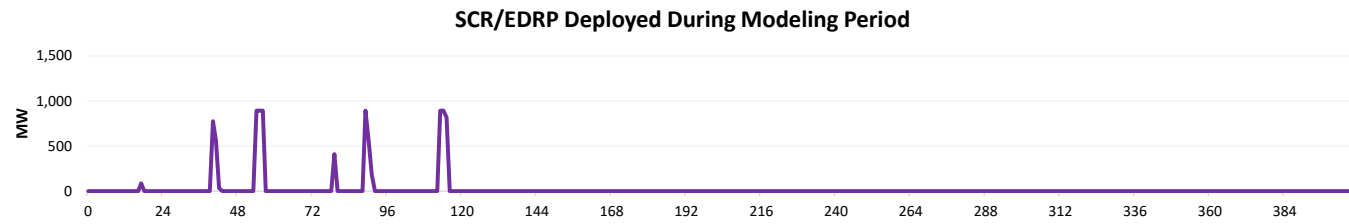
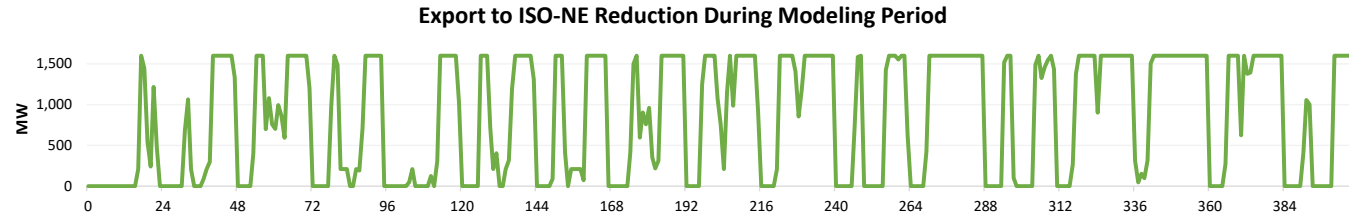
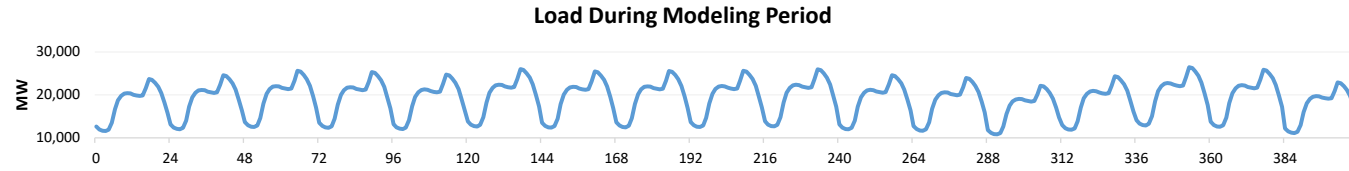


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	270
Total MWh	344,518
Avg. MW	844.4

SCR Deployment	
Total Hrs.	14
Total MWh	8,784
Avg. MW	21.5

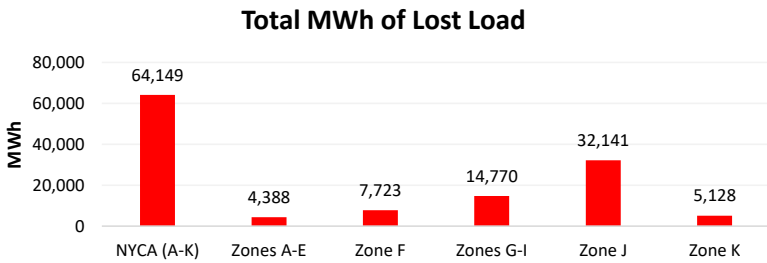
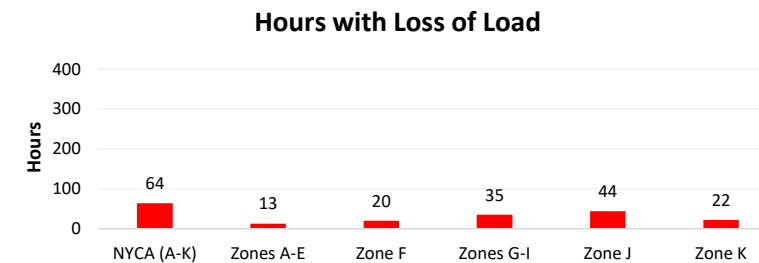
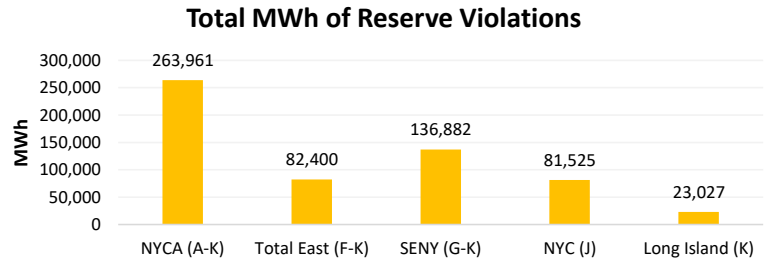
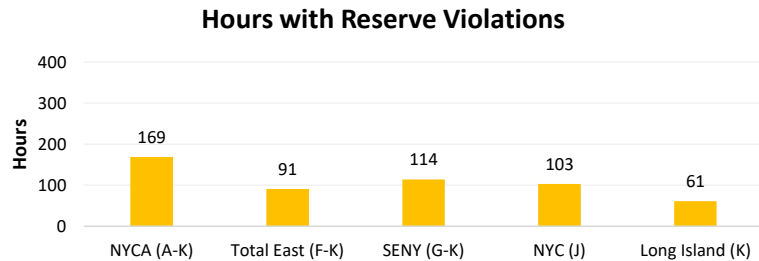
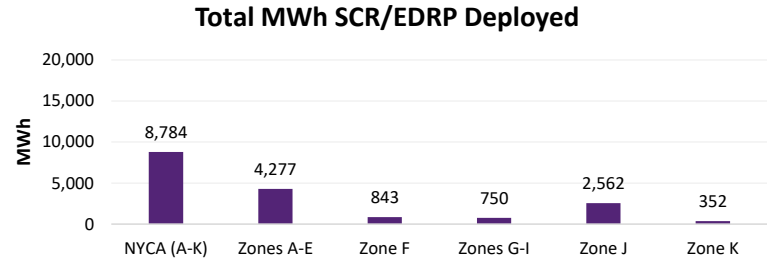
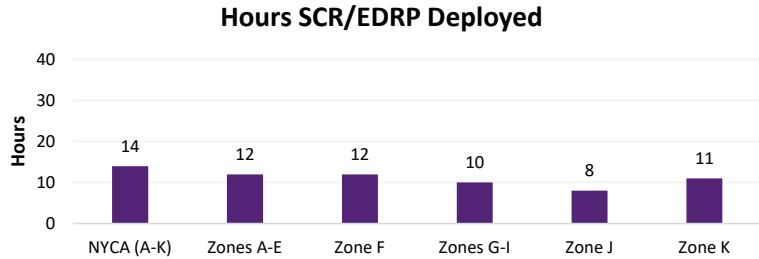
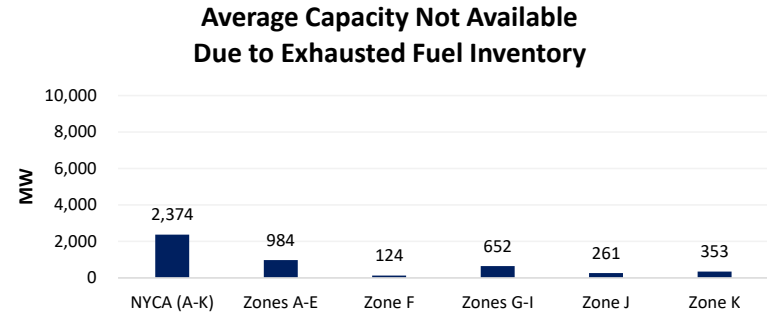
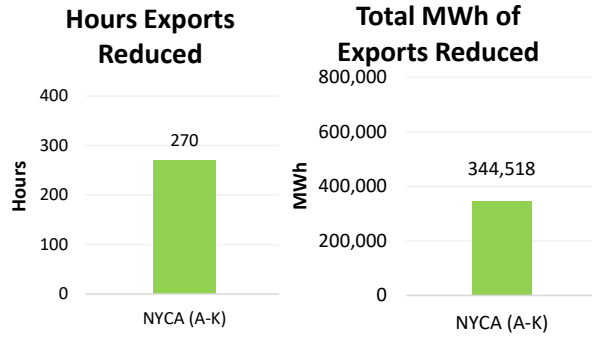
Reserve Violations	
Total Hrs.	169
Total MWh	263,961
Avg. MW	647.0
First Hour with Viol.	41
First Hour, Zone K	42

Loss of Load	
Total Hrs.	64
Total MWh	64,149
Avg. MW	157.2
First Hour with Losses	41
First Hour, Zone K	137

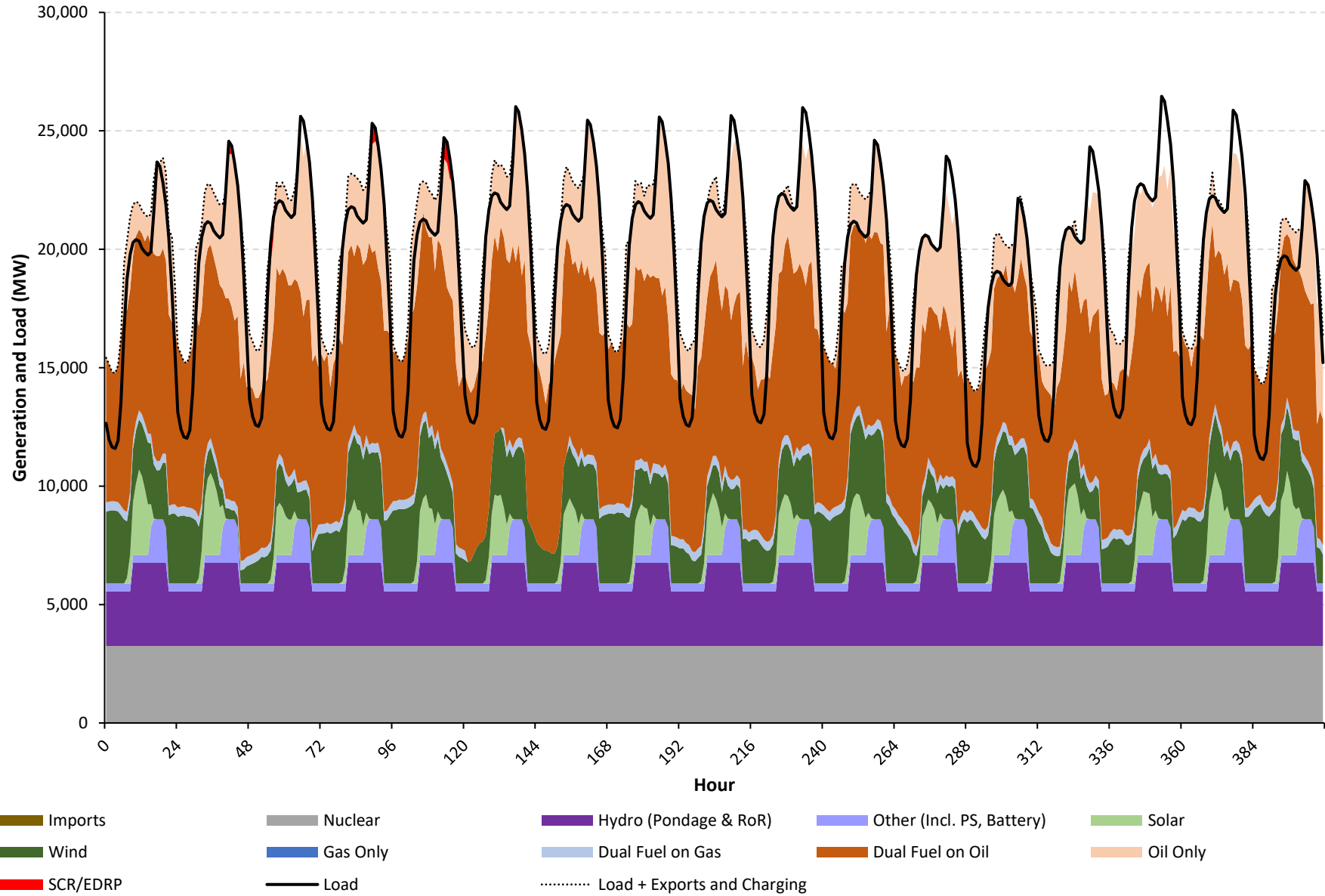
Full Period Results Summary

Case Name: Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)

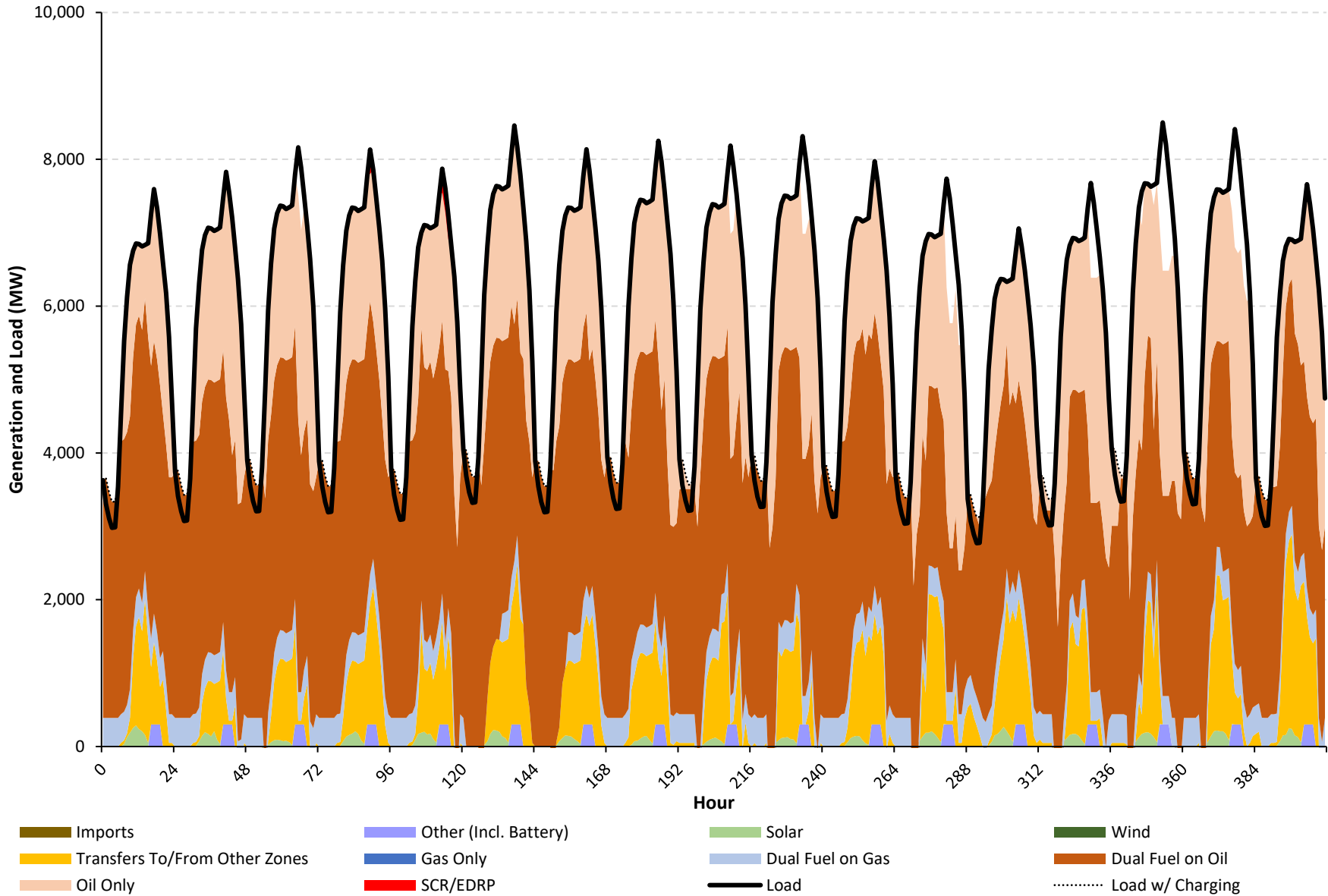
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



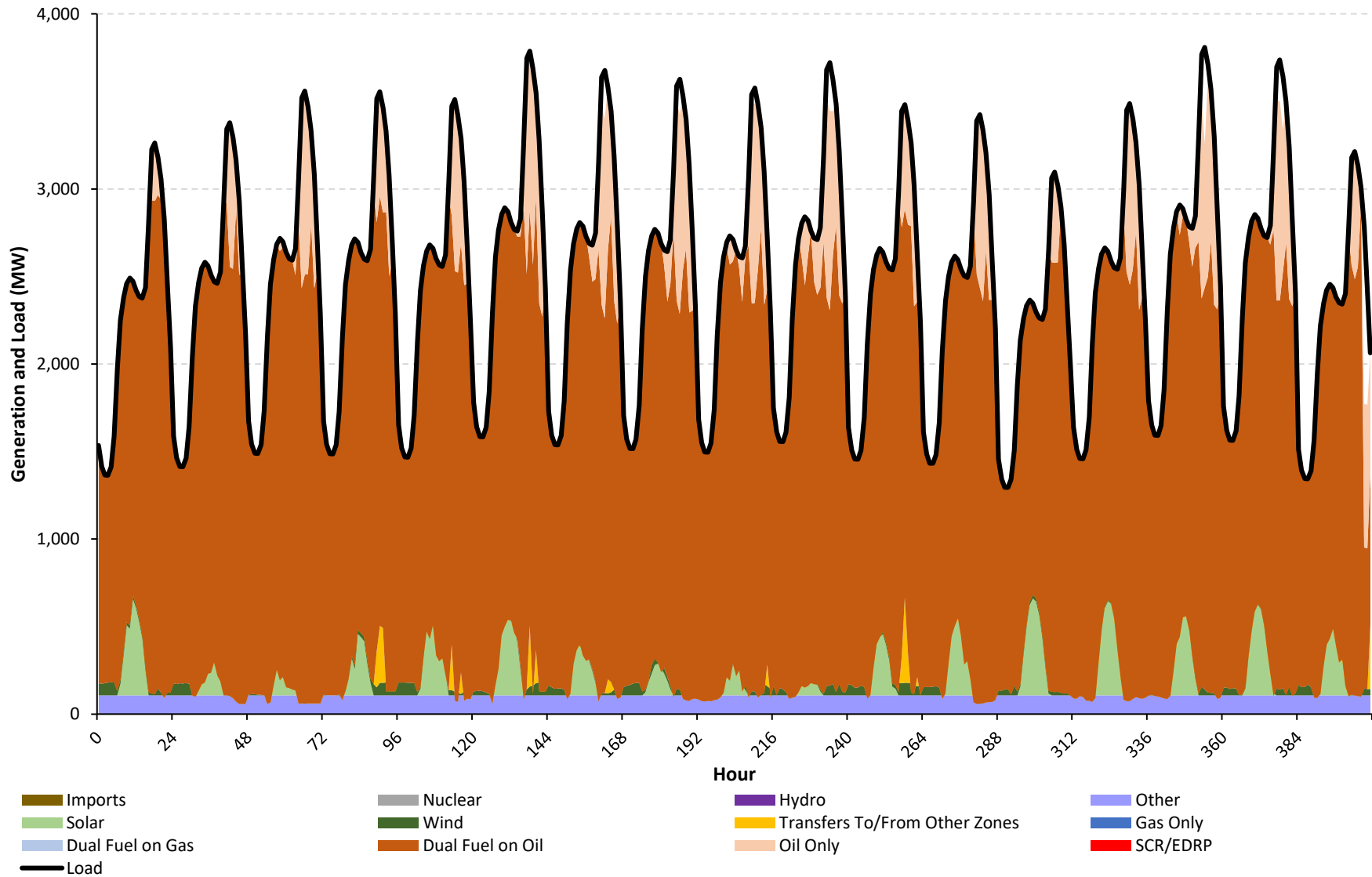
NYCA Hourly Generation (MWh) by Fuel Group Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



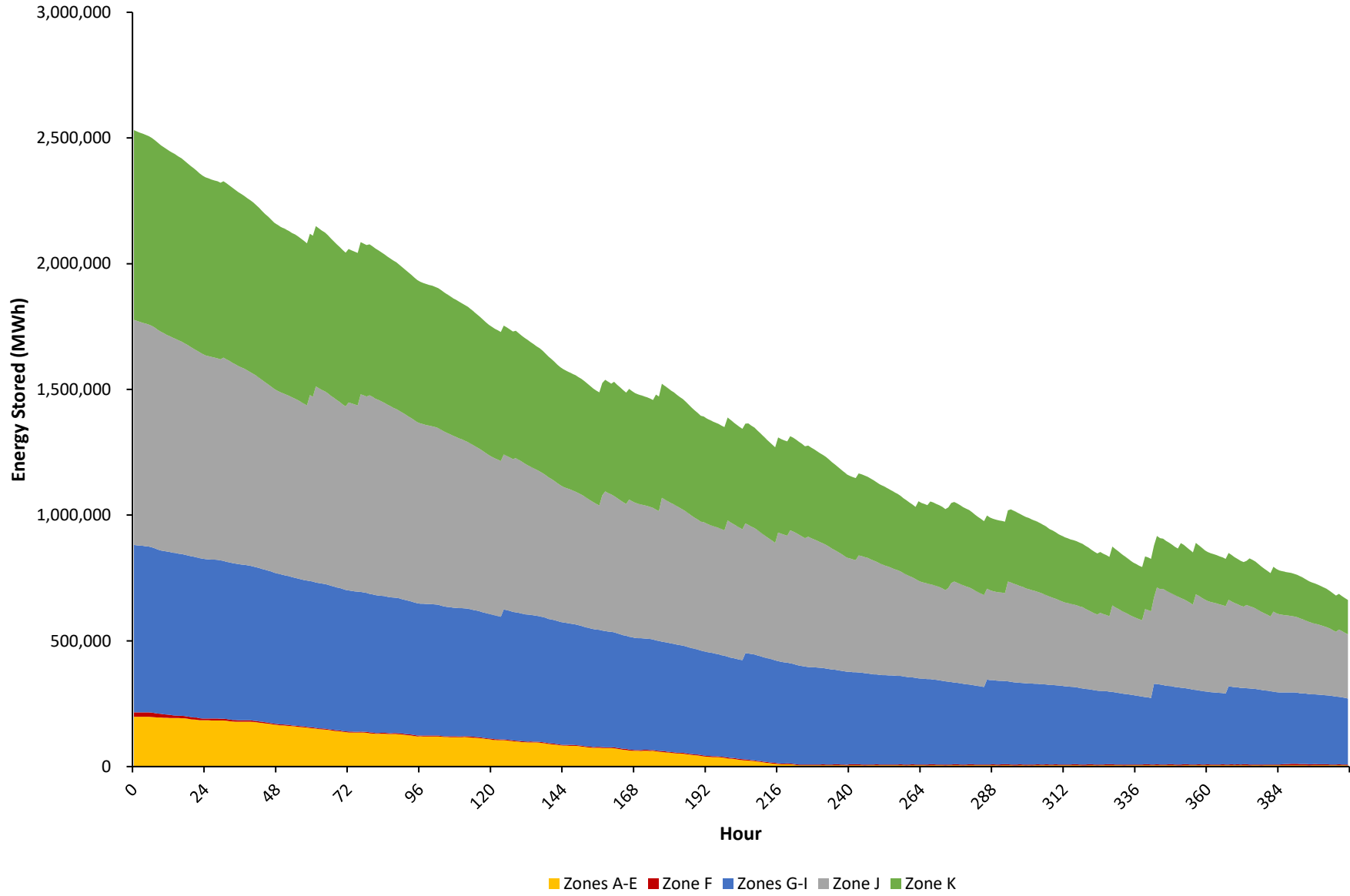
Zone J Hourly Generation (MW) by Fuel Group Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)

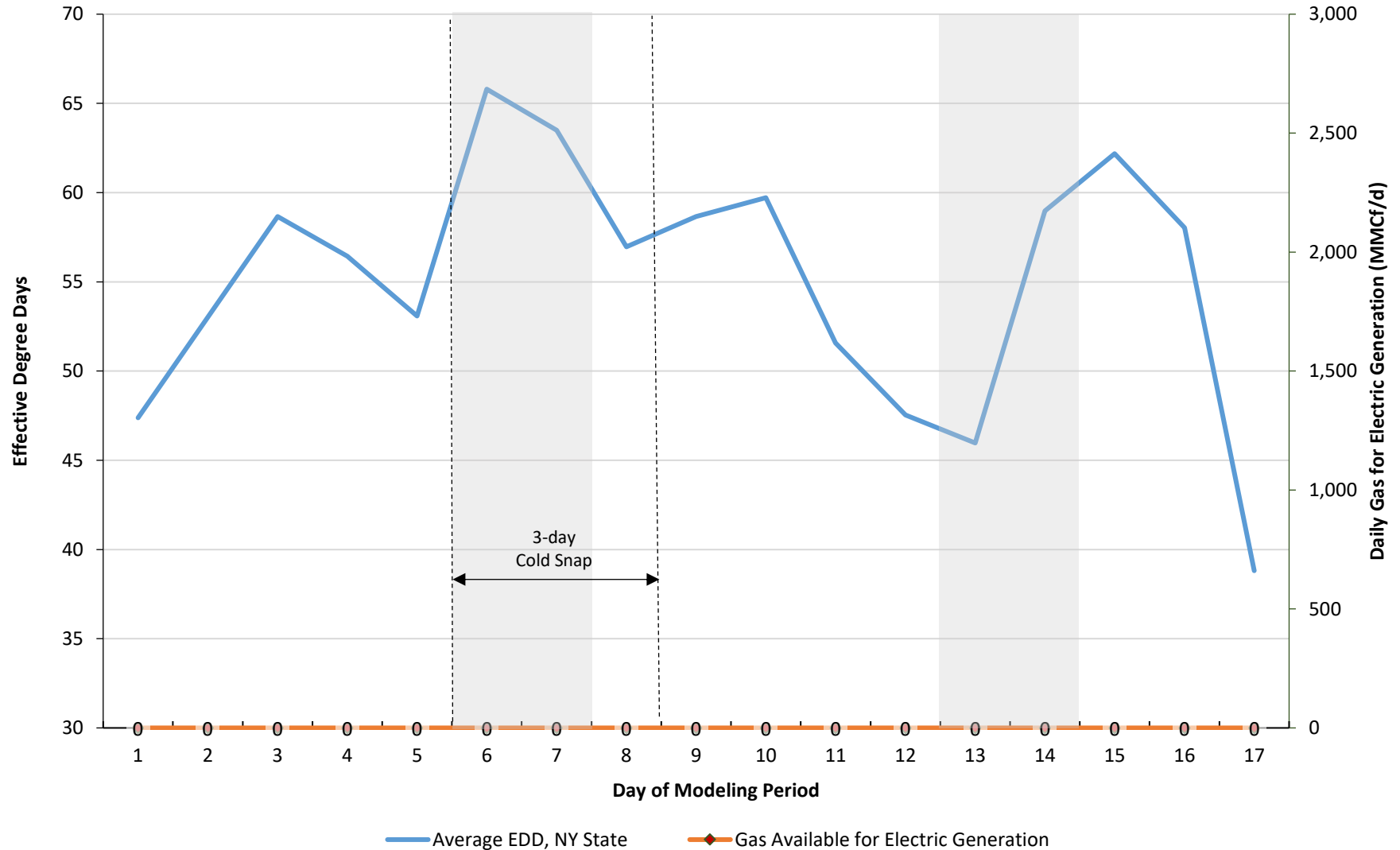


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

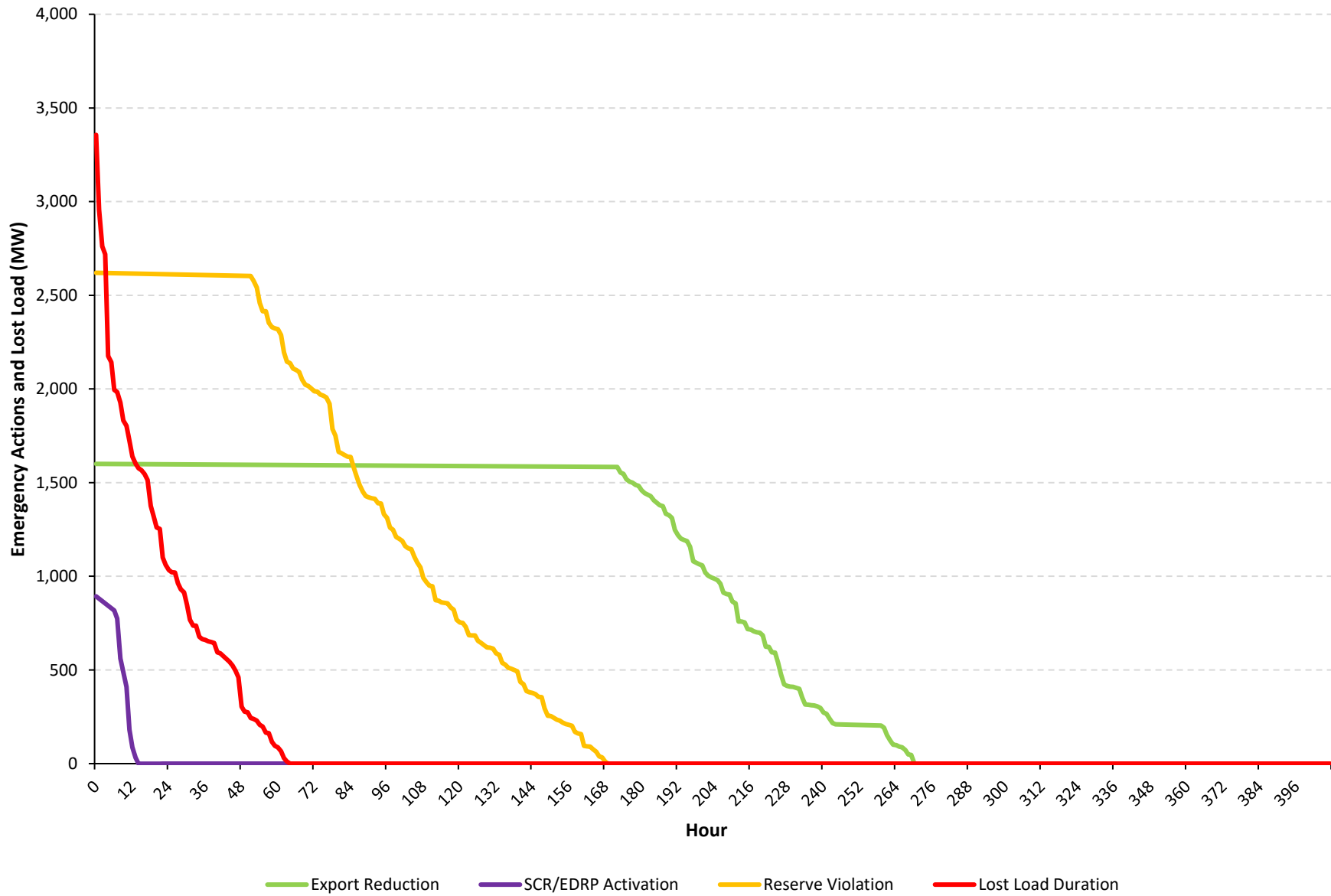
Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



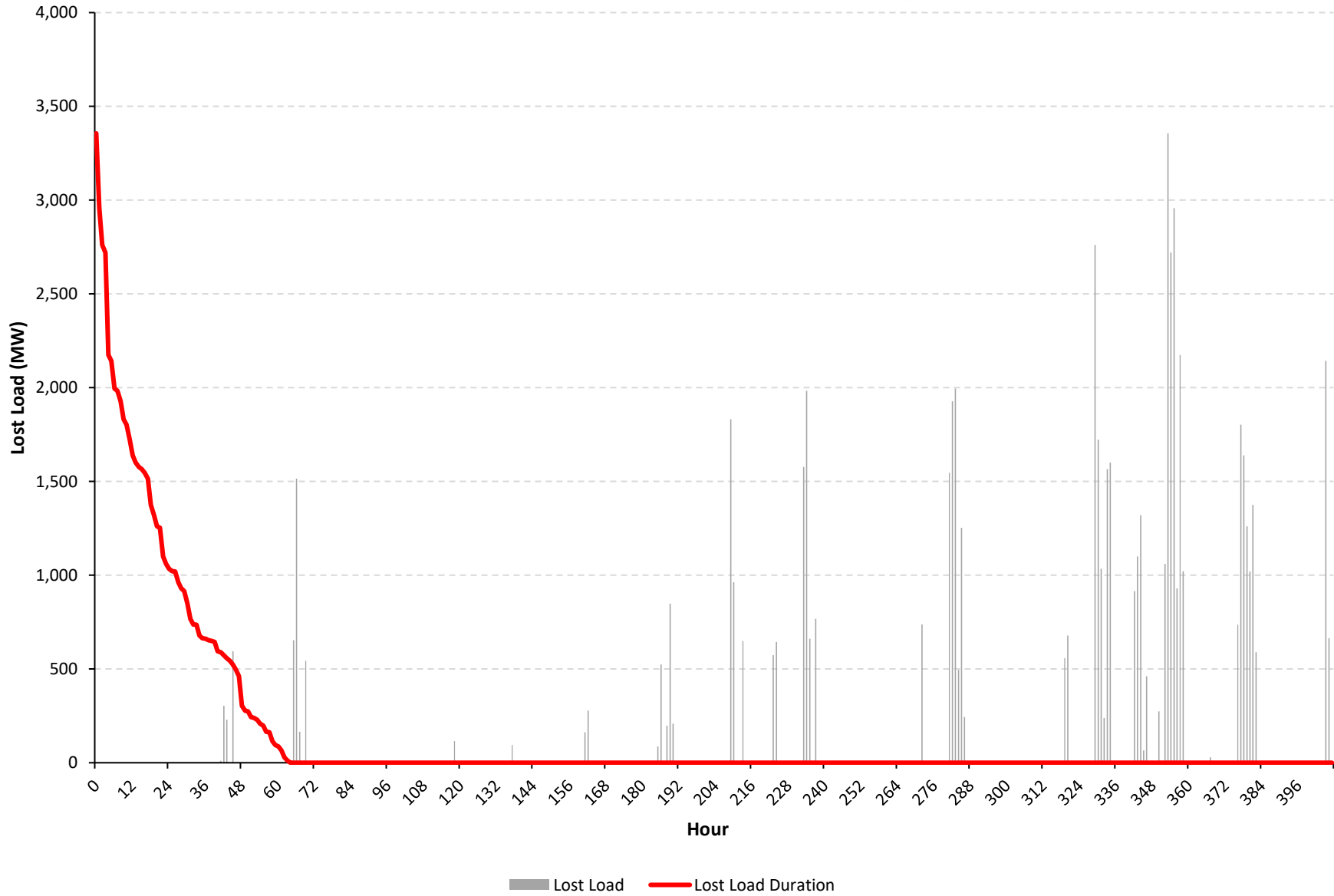
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Lost Load Duration (MWh) Scenario 7 - PD 10 Non-Firm Gas Unavailable (NYCA)



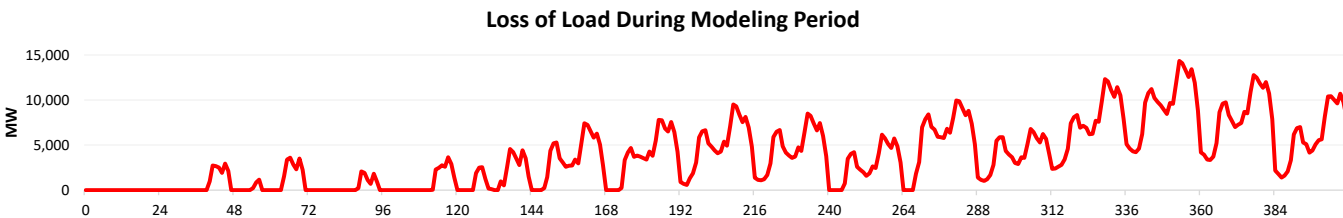
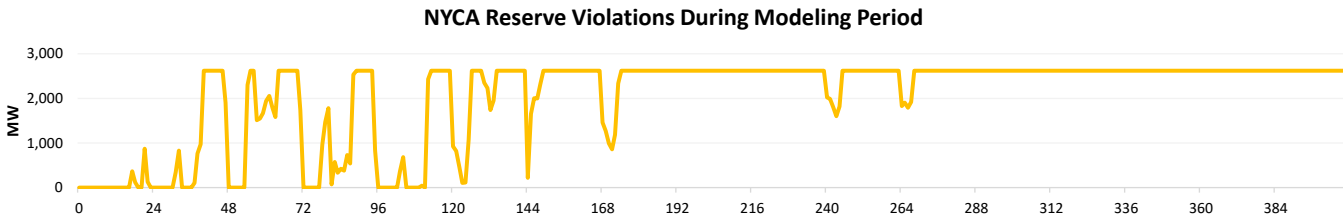
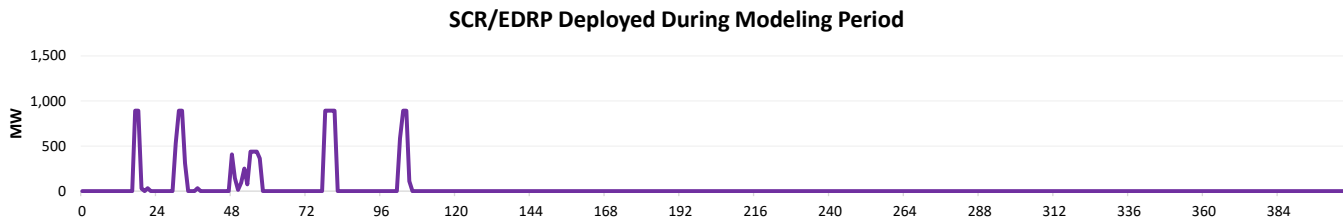
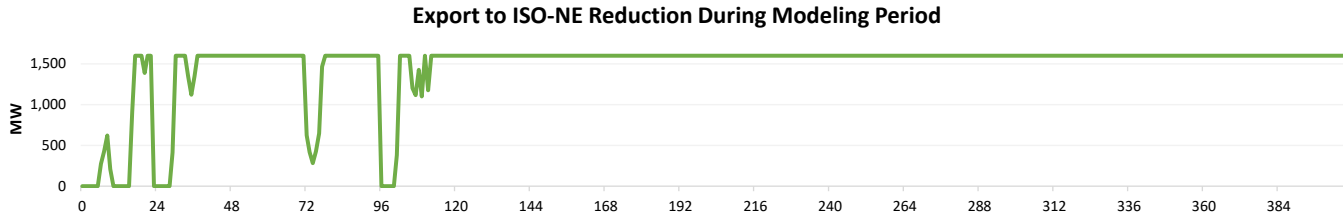
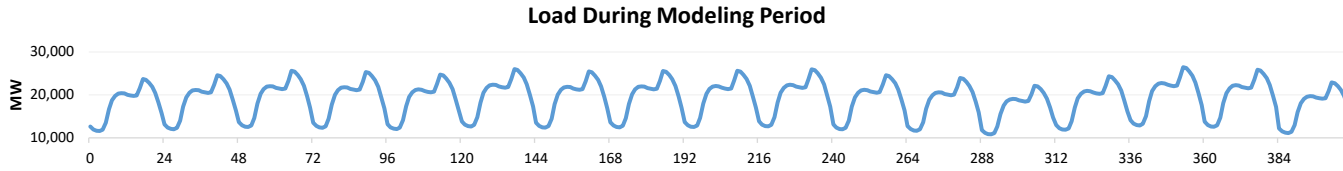
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	385
Total MWh	599,126
Avg. MW	1,468.4

SCR Deployment	
Total Hrs.	27
Total MWh	13,215
Avg. MW	32.4

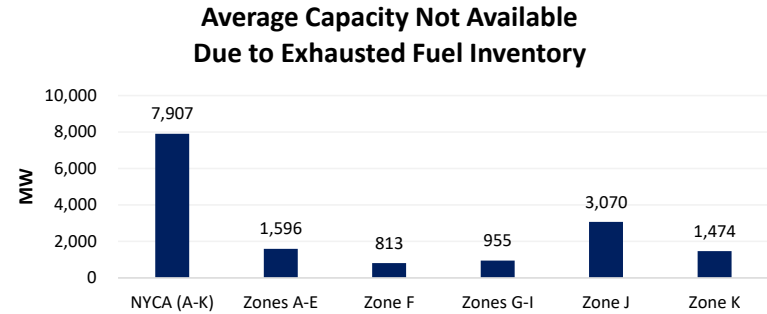
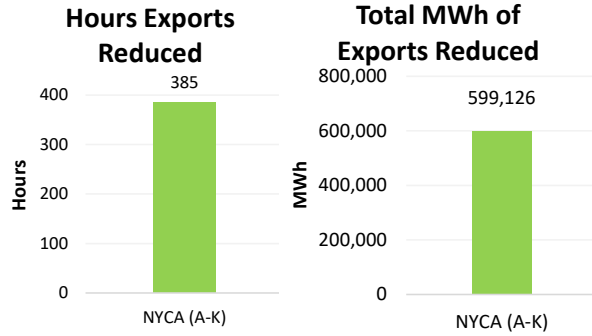
Reserve Violations	
Total Hrs.	352
Total MWh	833,335
Avg. MW	2,042.5
First Hour with Viol.	17
First Hour, Zone K	41

Loss of Load	
Total Hrs.	294
Total MWh	1,559,710
Avg. MW	3,822.8
First Hour with Losses	40
First Hour, Zone K	65

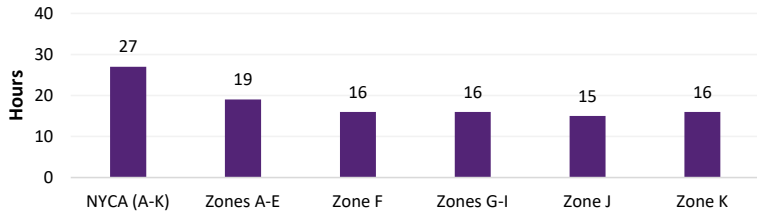
Full Period Results Summary

Case Name: Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

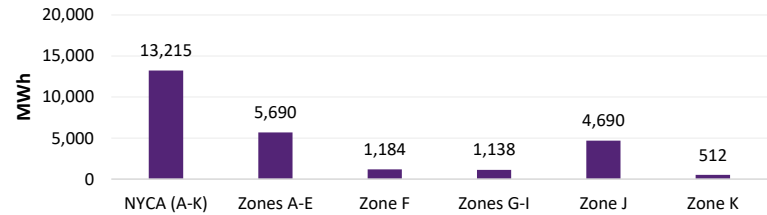
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	SRS
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



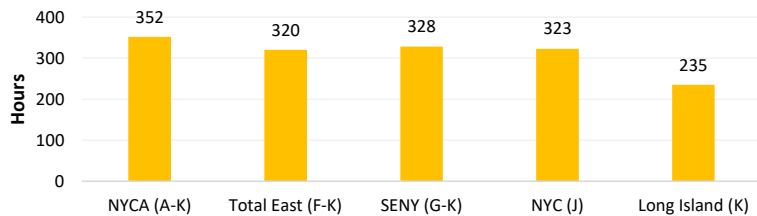
Hours SCR/EDRP Deployed



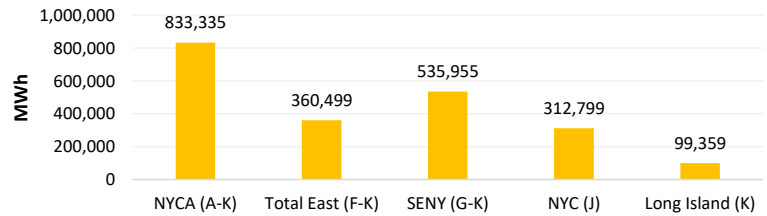
Total MWh SCR/EDRP Deployed



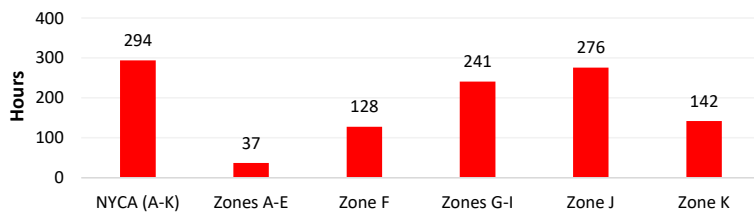
Hours with Reserve Violations



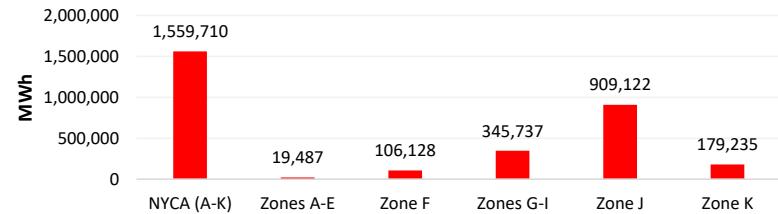
Total MWh of Reserve Violations



Hours with Loss of Load



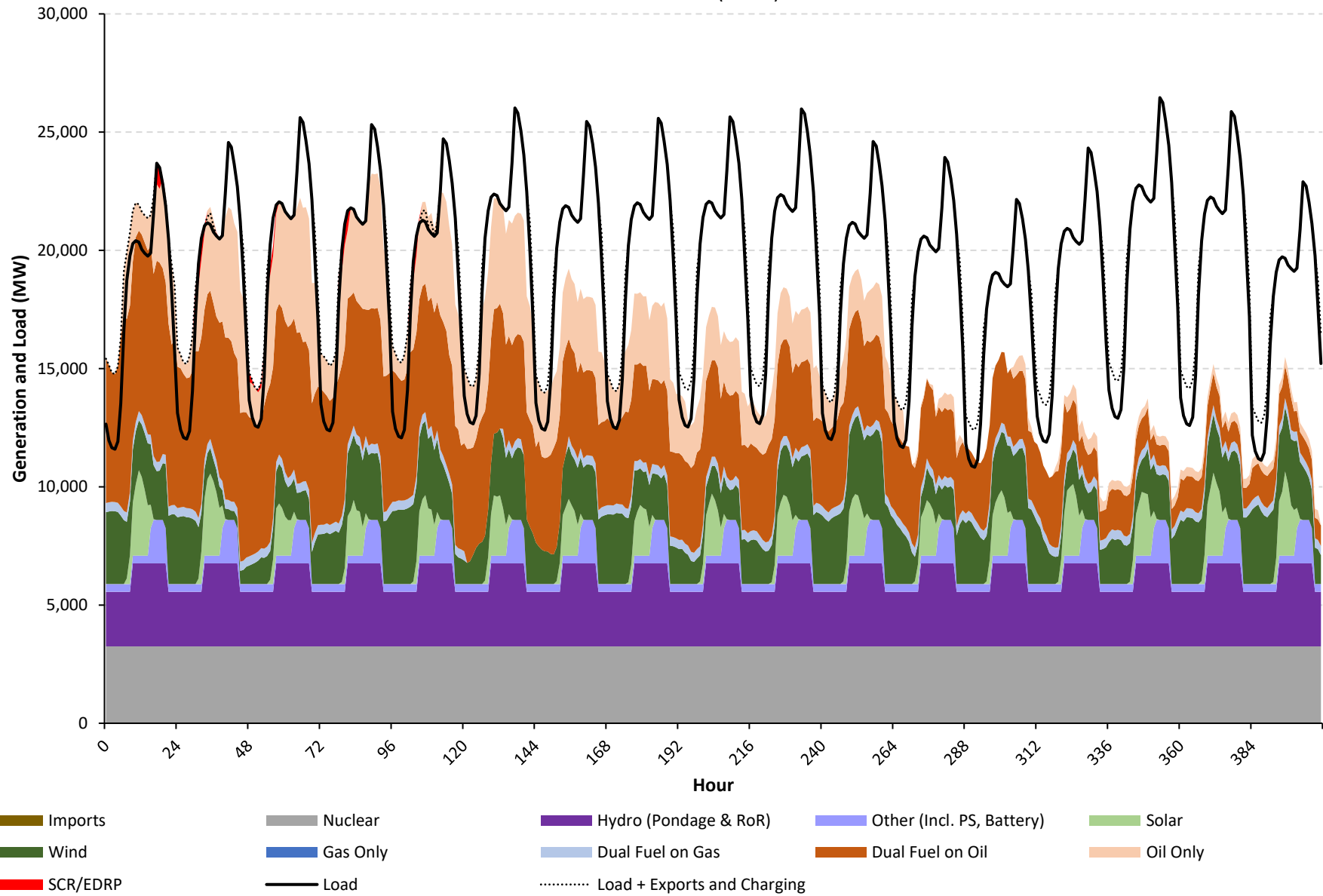
Total MWh of Lost Load



NYCA

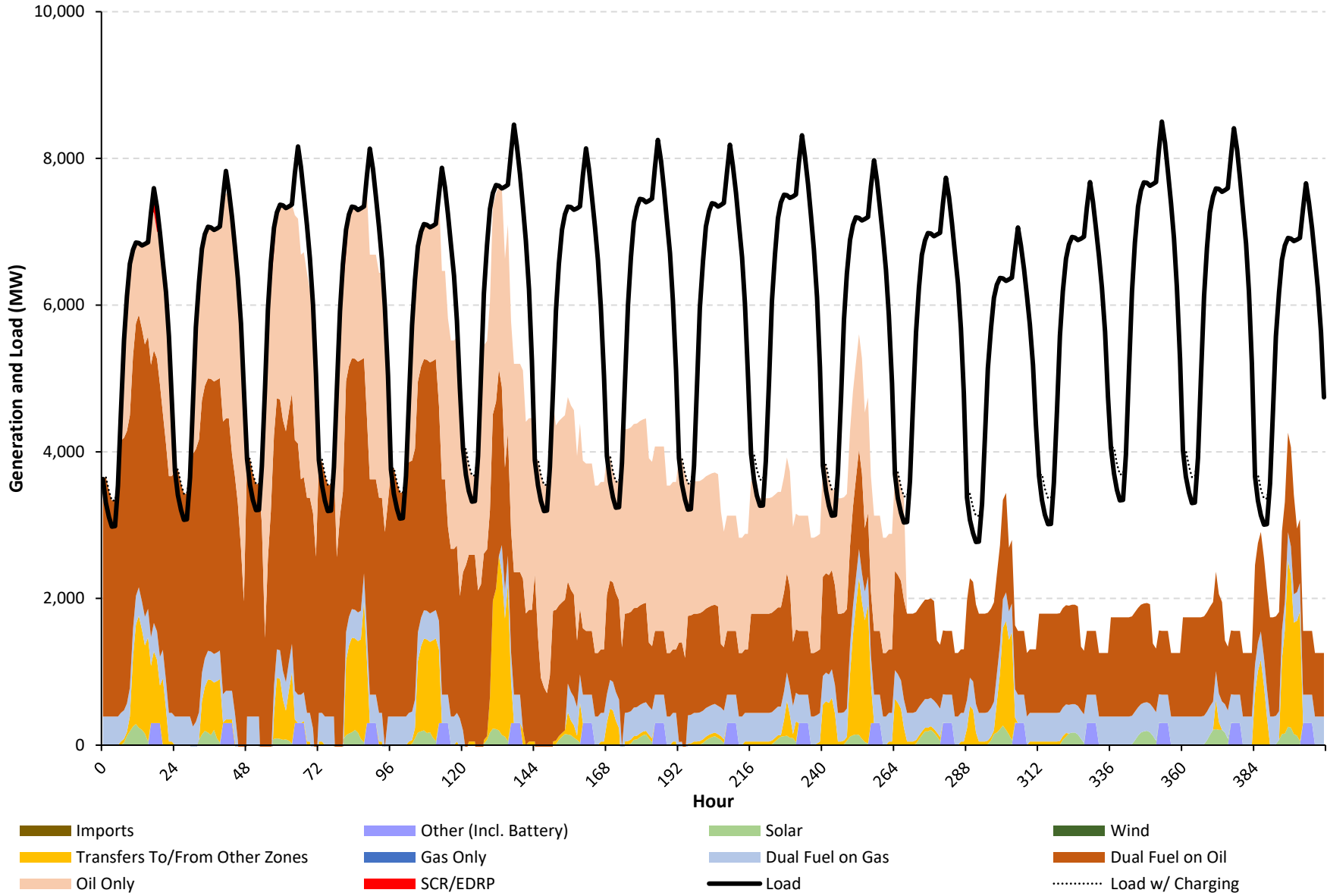
Hourly Generation (MWh) by Fuel Group

Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



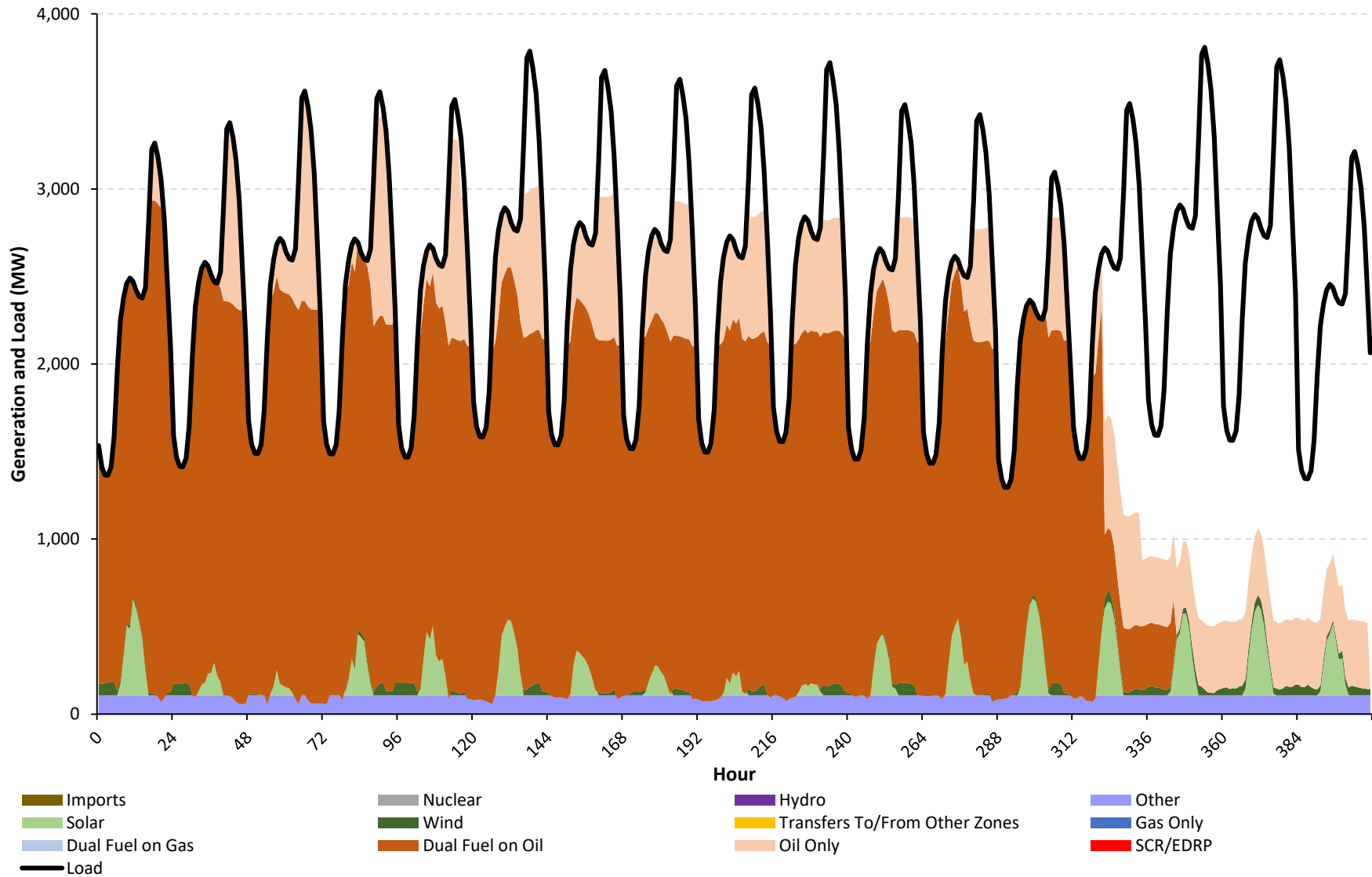
Zone J Hourly Generation (MW) by Fuel Group

Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

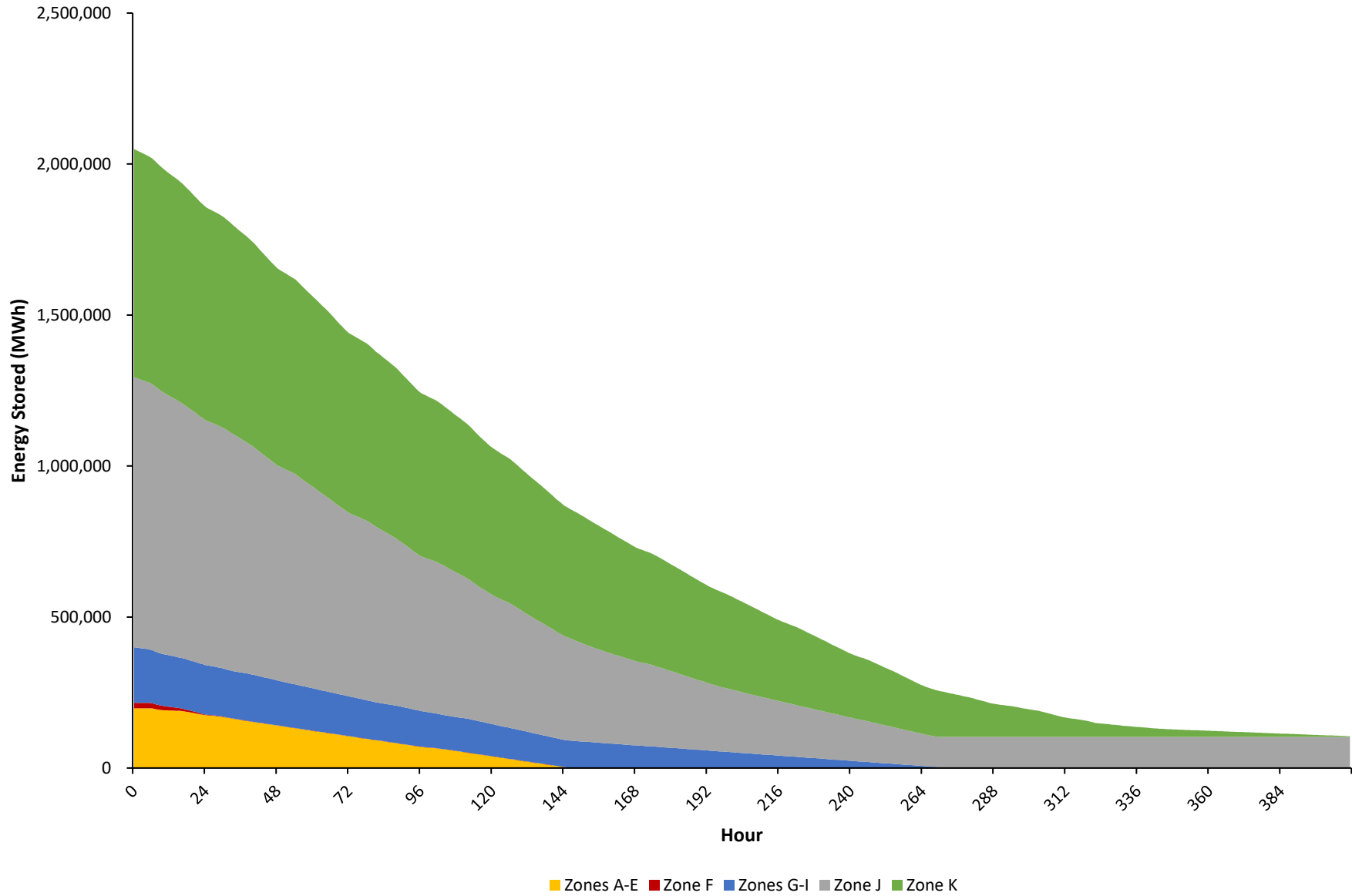


Zone K Hourly Generation (MW) by Fuel Group

Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

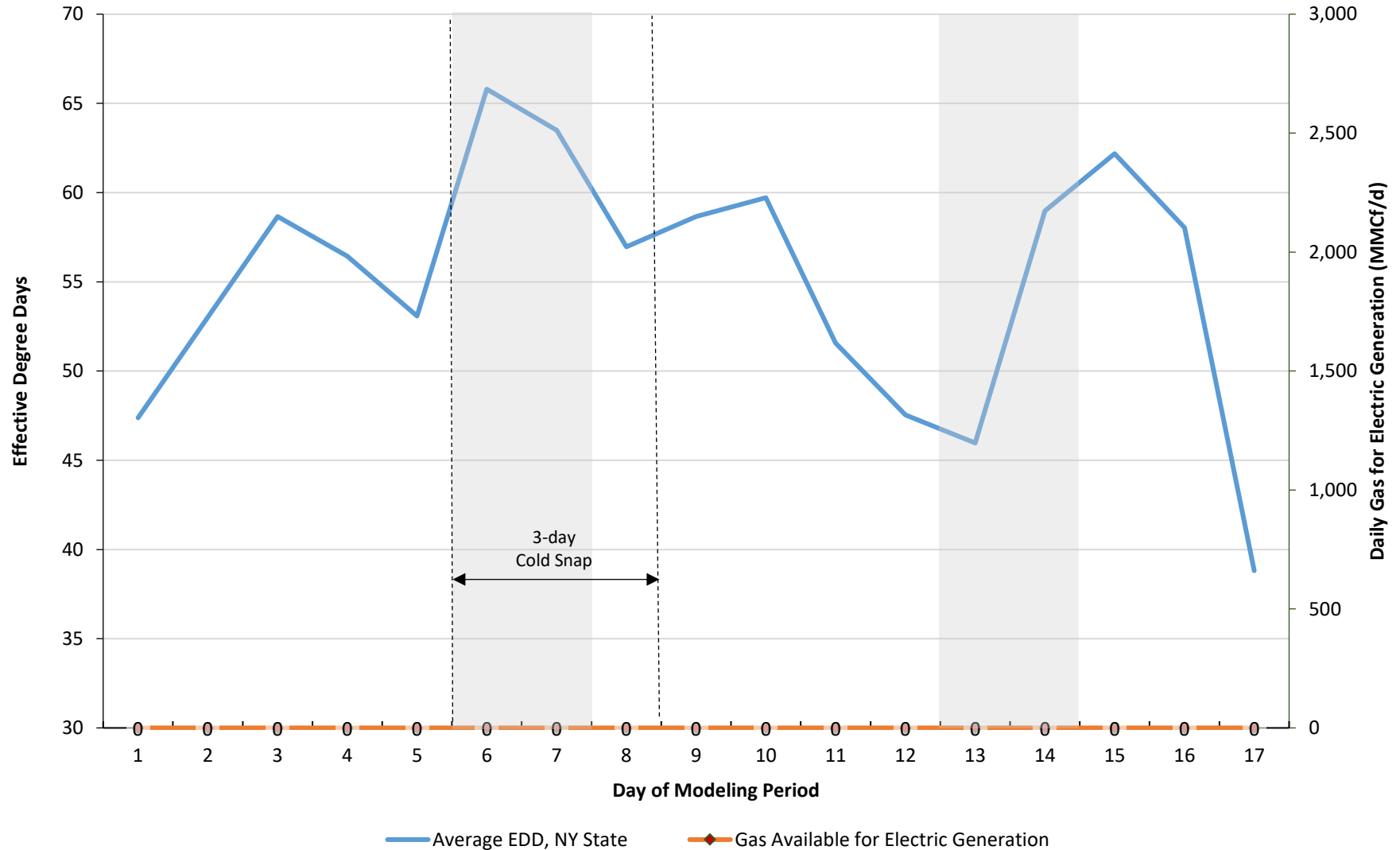


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

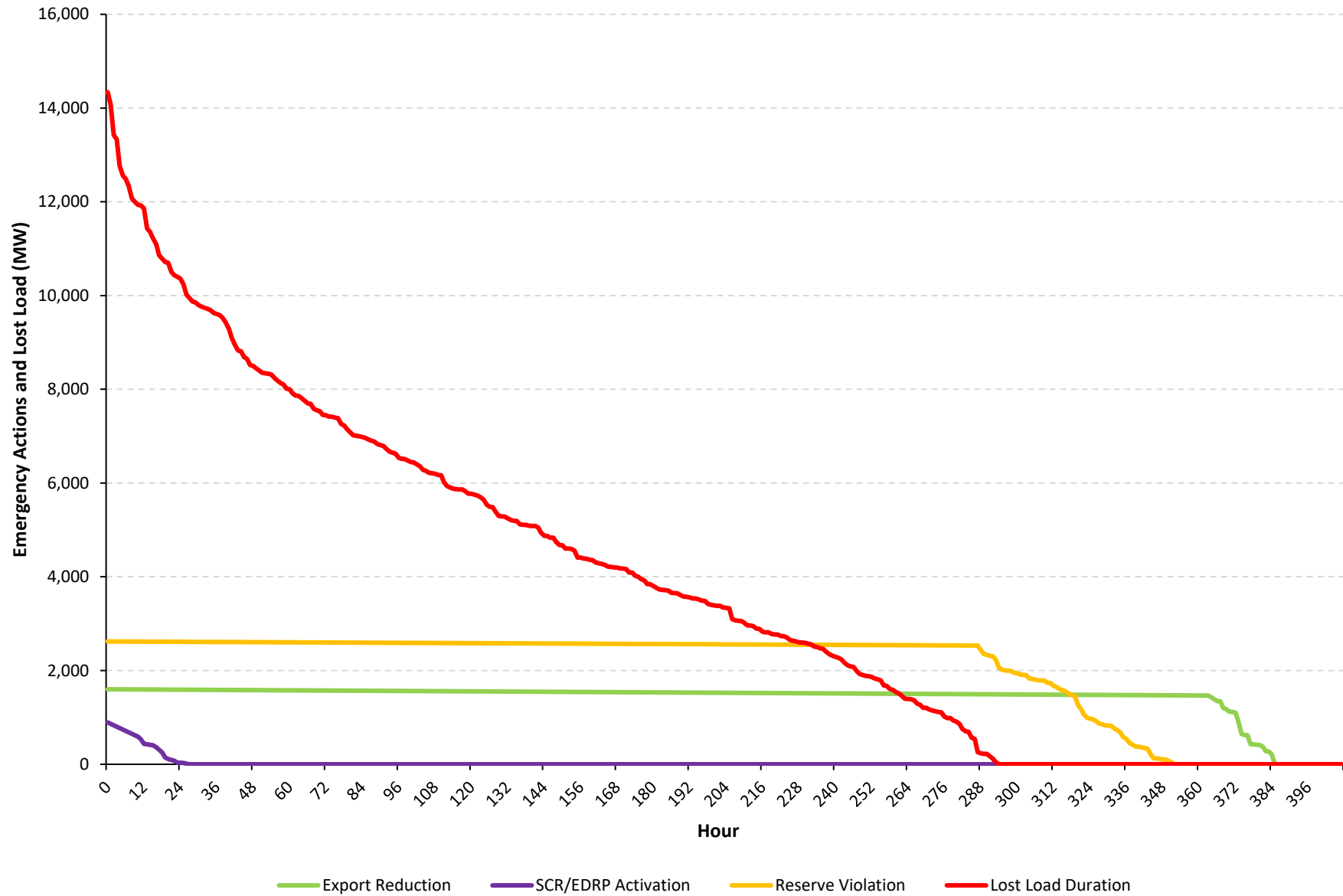
Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



Notes:

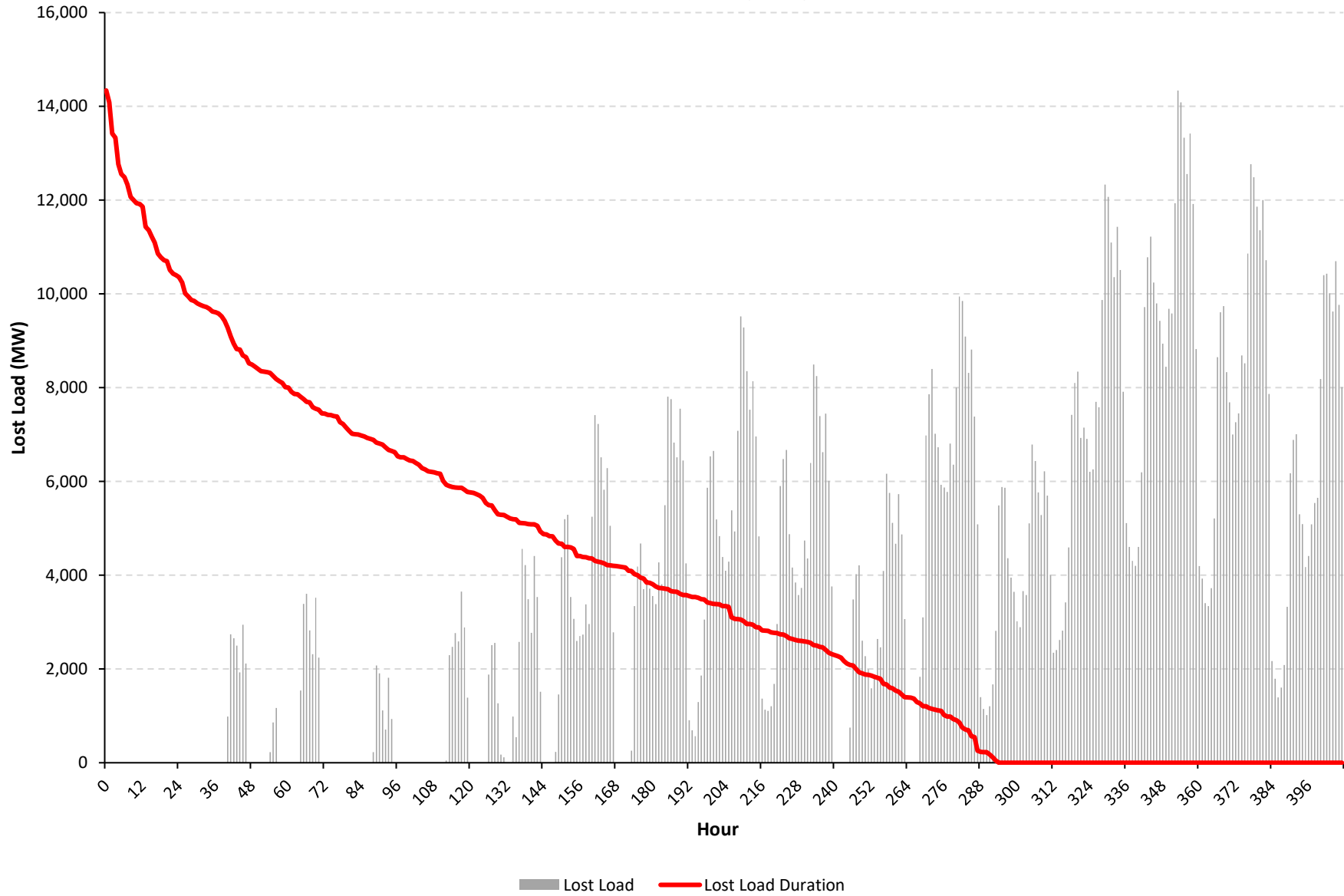
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Lost Load Duration (MWh)

Scenario 7 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

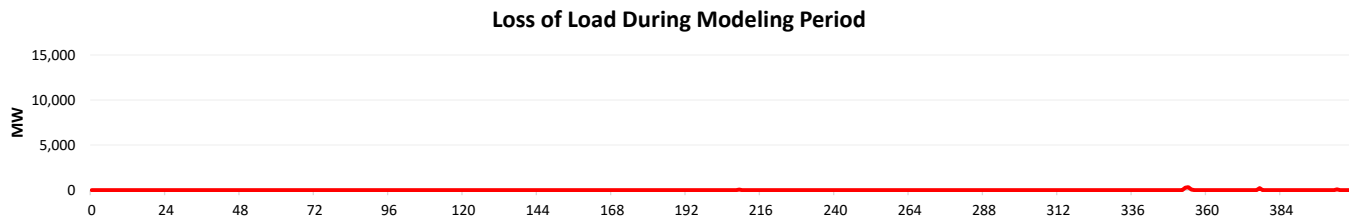
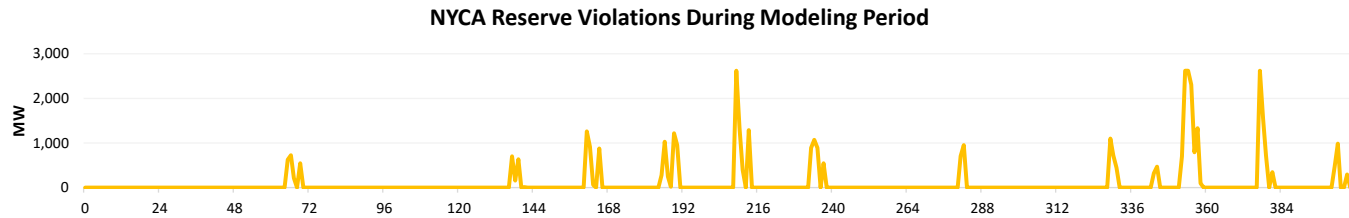
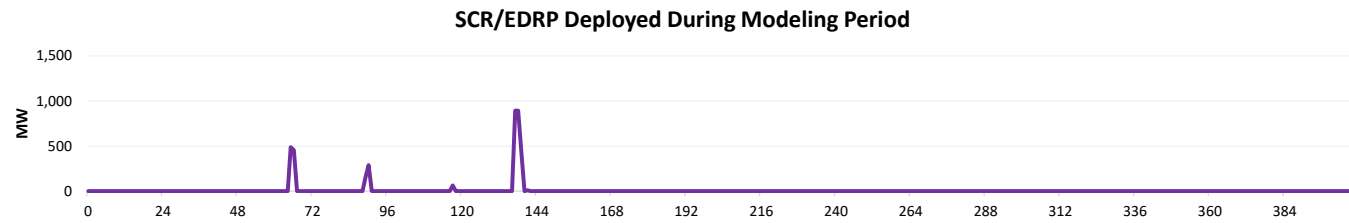
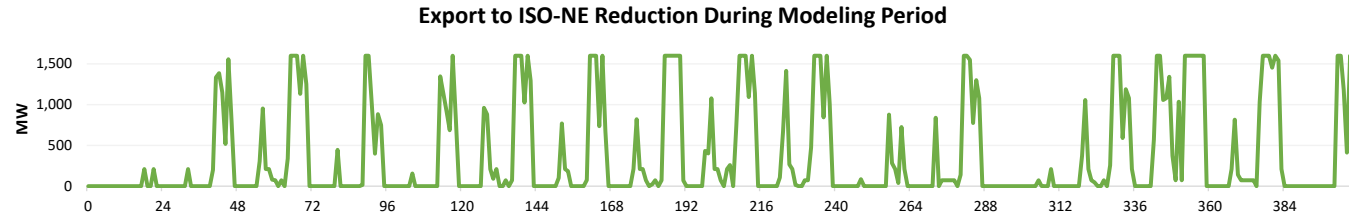
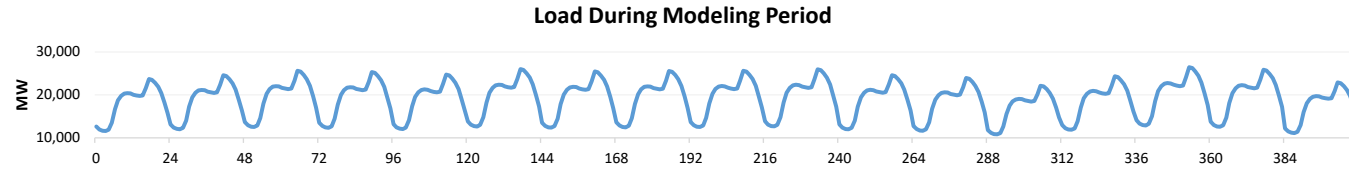


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 1 No Disruptions

Hourly Results Summary

Case Name: Scenario 8 - PD 1 No Disruptions



Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	184
Total MWh	149,228
Avg. MW	365.8

SCR Deployment	
Total Hrs.	9
Total MWh	3,675
Avg. MW	9.0

Reserve Violations	
Total Hrs.	47
Total MWh	41,656
Avg. MW	102.1
First Hour with Viol.	65
First Hour, Zone K	66

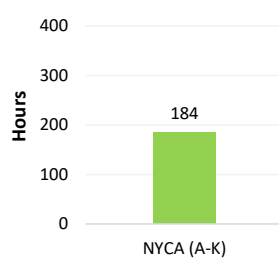
Loss of Load	
Total Hrs.	6
Total MWh	1,064
Avg. MW	2.6
First Hour with Losses	209
First Hour, Zone K	209

Full Period Results Summary

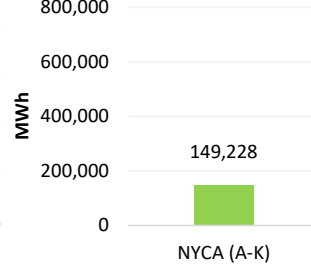
Case Name: Scenario 8 - PD 1 No Disruptions

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

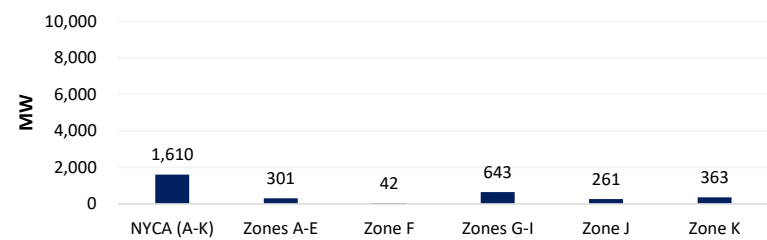
Hours Exports Reduced



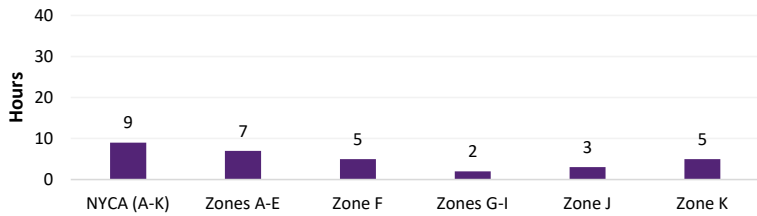
Total MWh of Exports Reduced



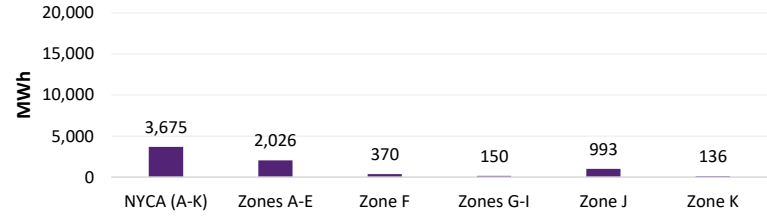
Average Capacity Not Available Due to Exhausted Fuel Inventory



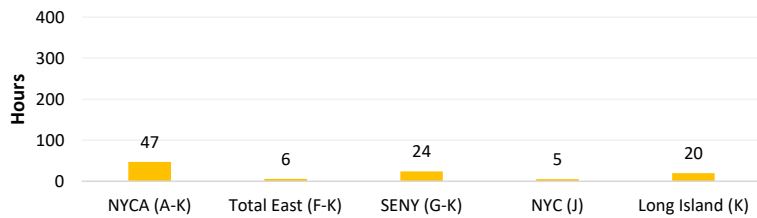
Hours SCR/EDRP Deployed



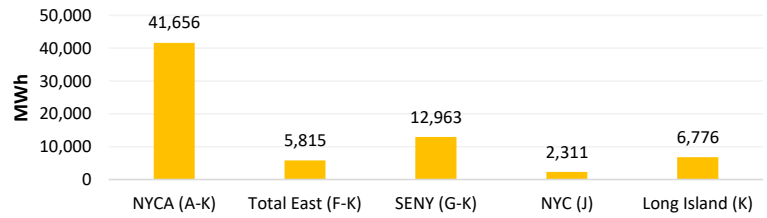
Total MWh SCR/EDRP Deployed



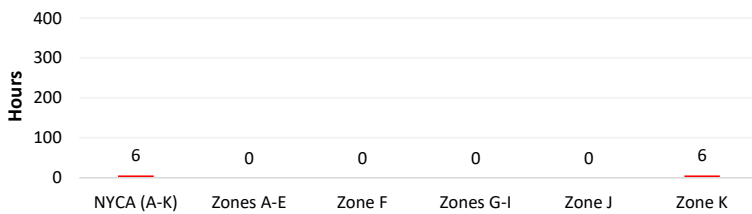
Hours with Reserve Violations



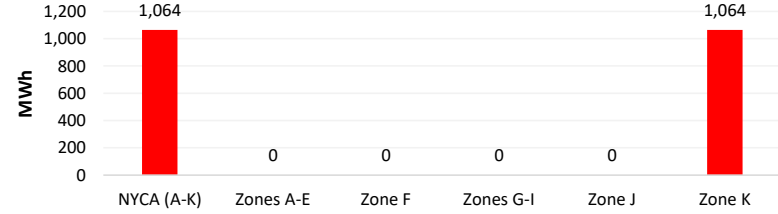
Total MWh of Reserve Violations



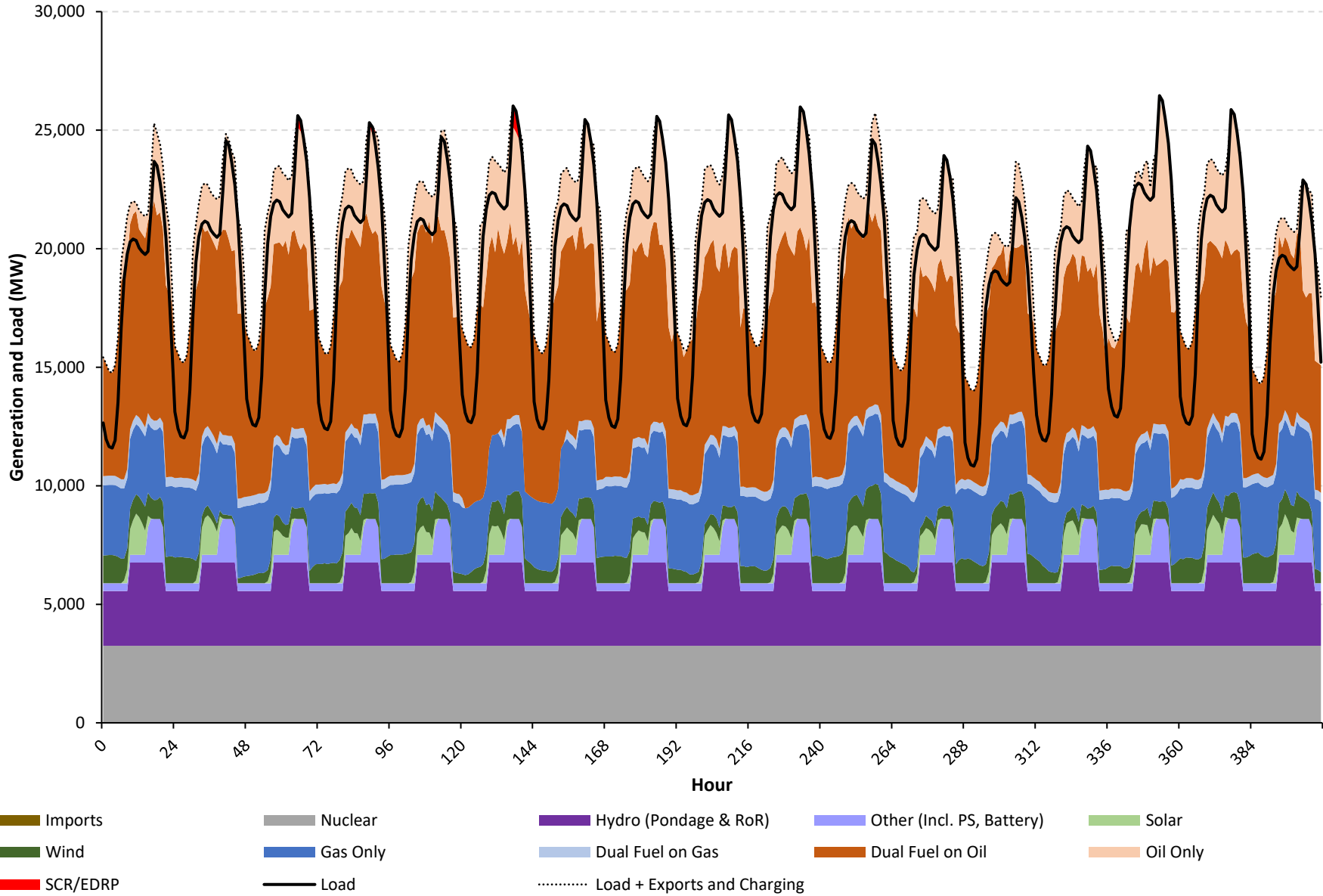
Hours with Loss of Load



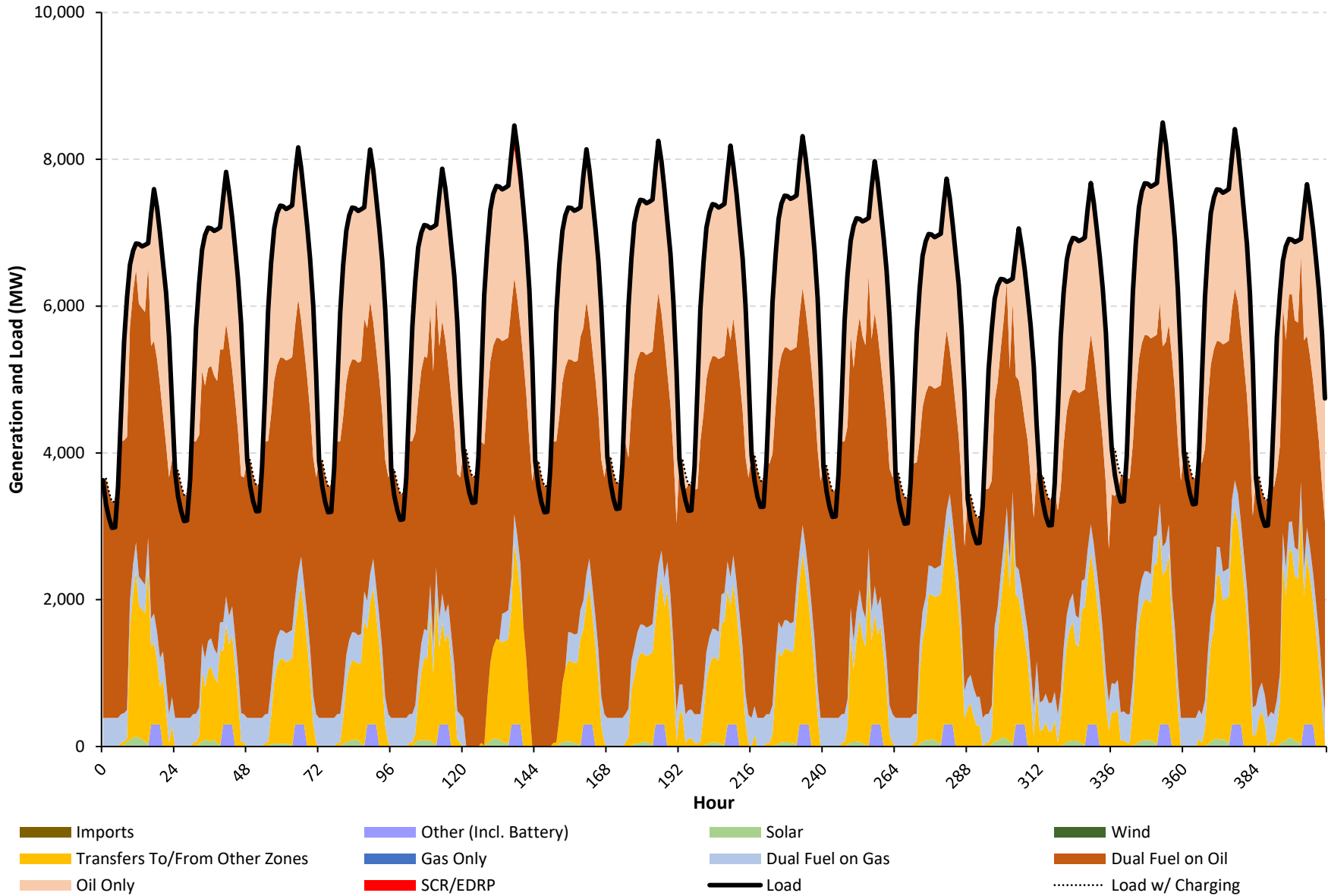
Total MWh of Lost Load



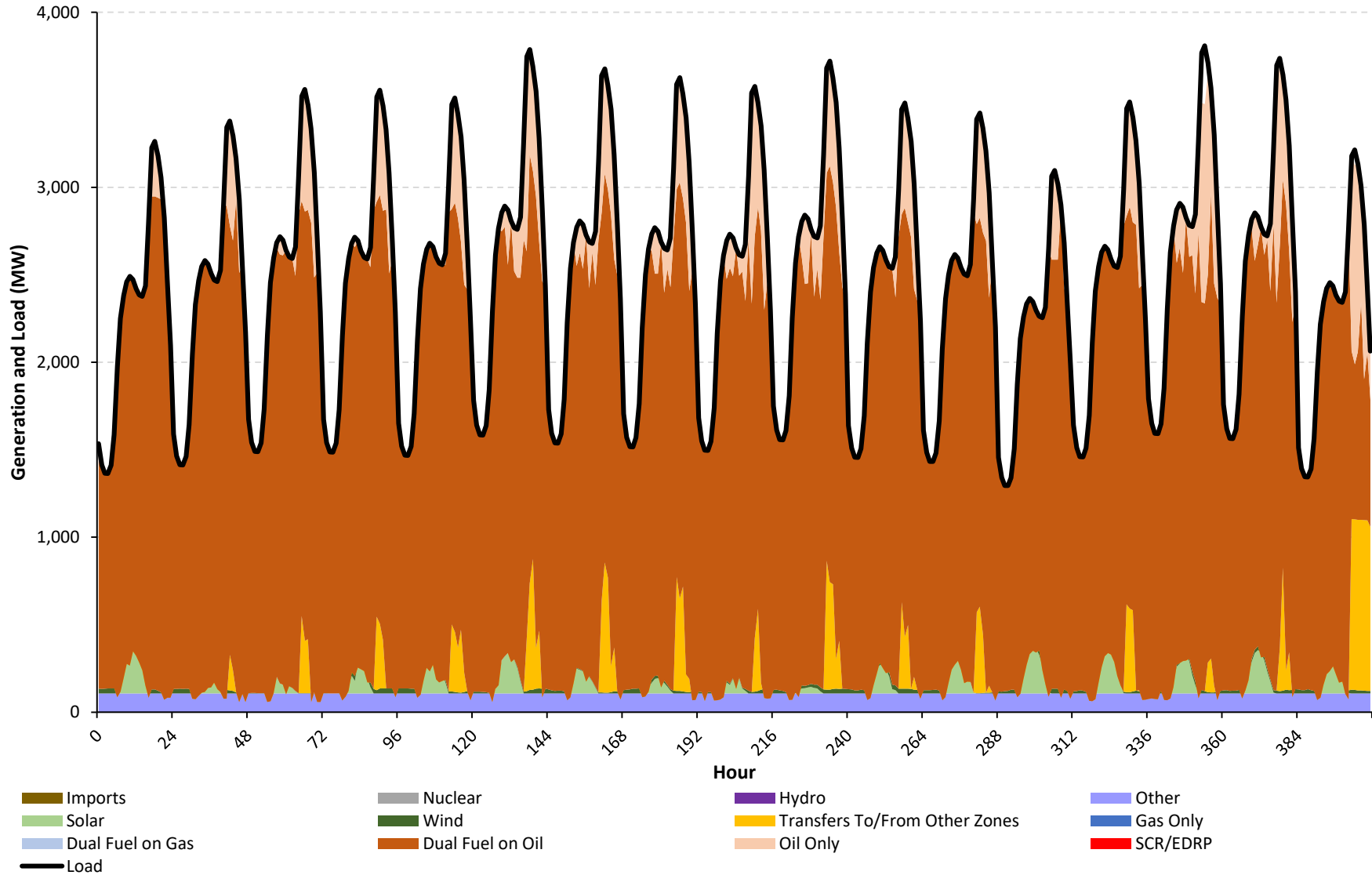
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 1 No Disruptions



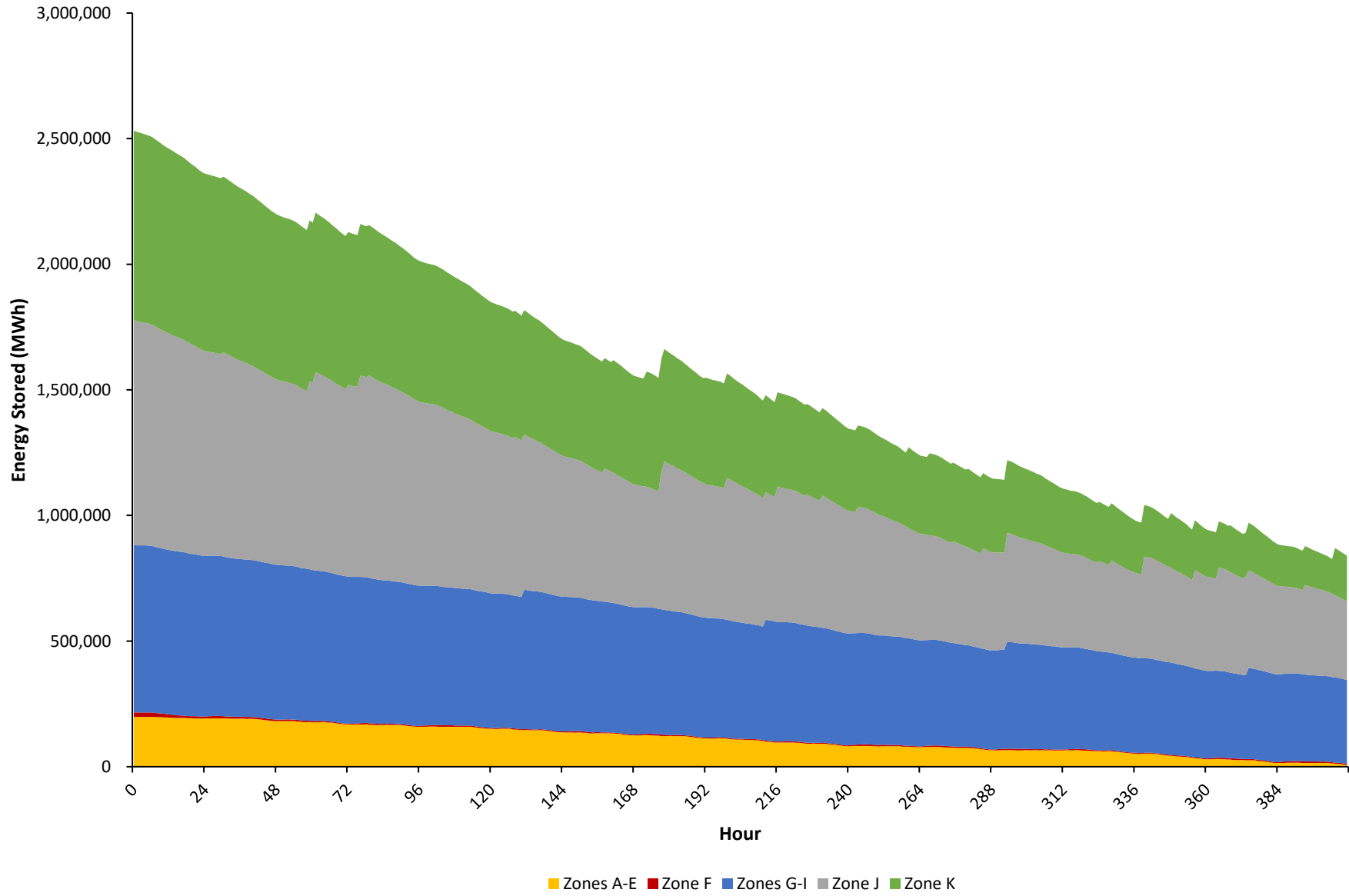
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 1 No Disruptions



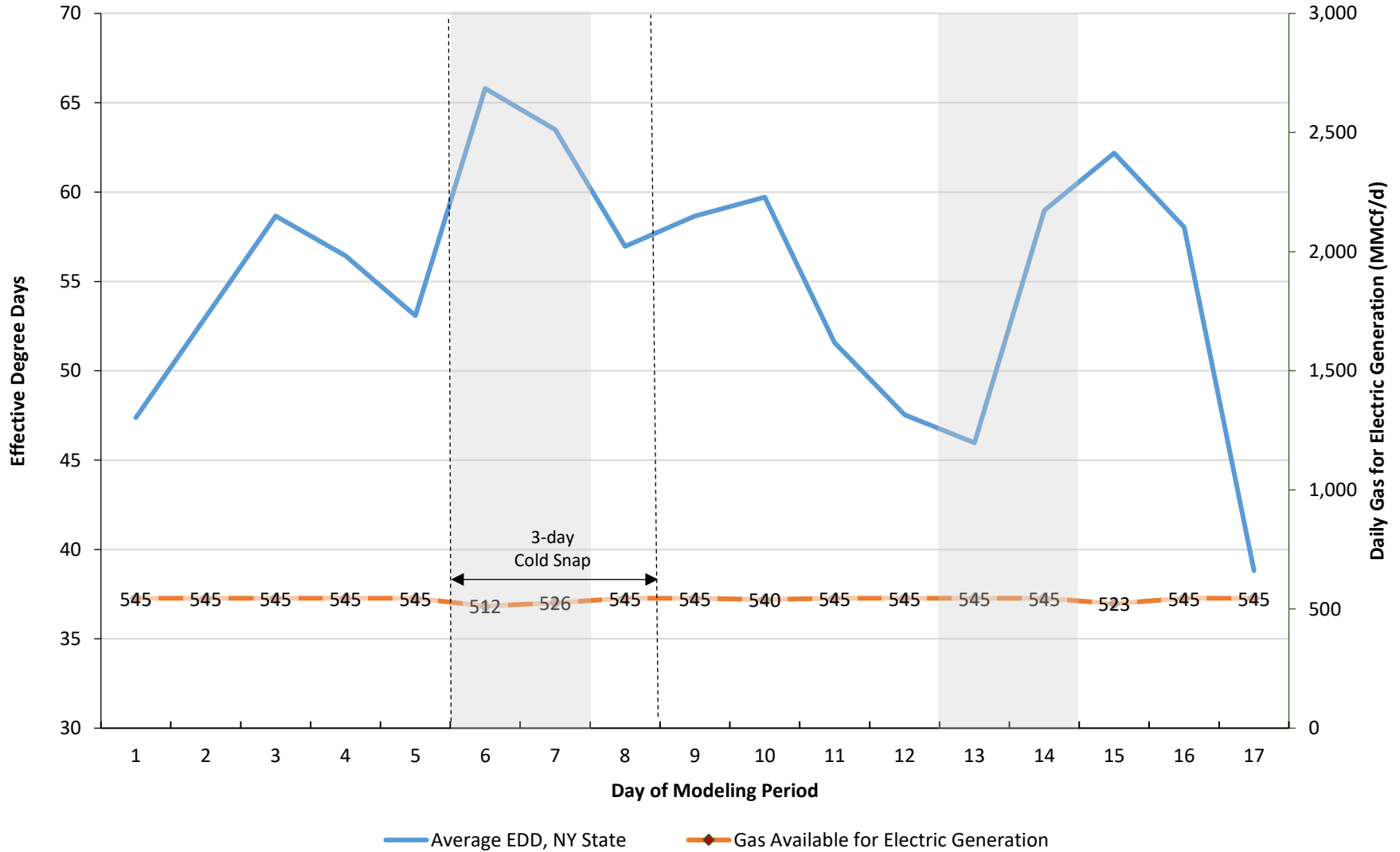
Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 1 No Disruptions



NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 1 No Disruptions



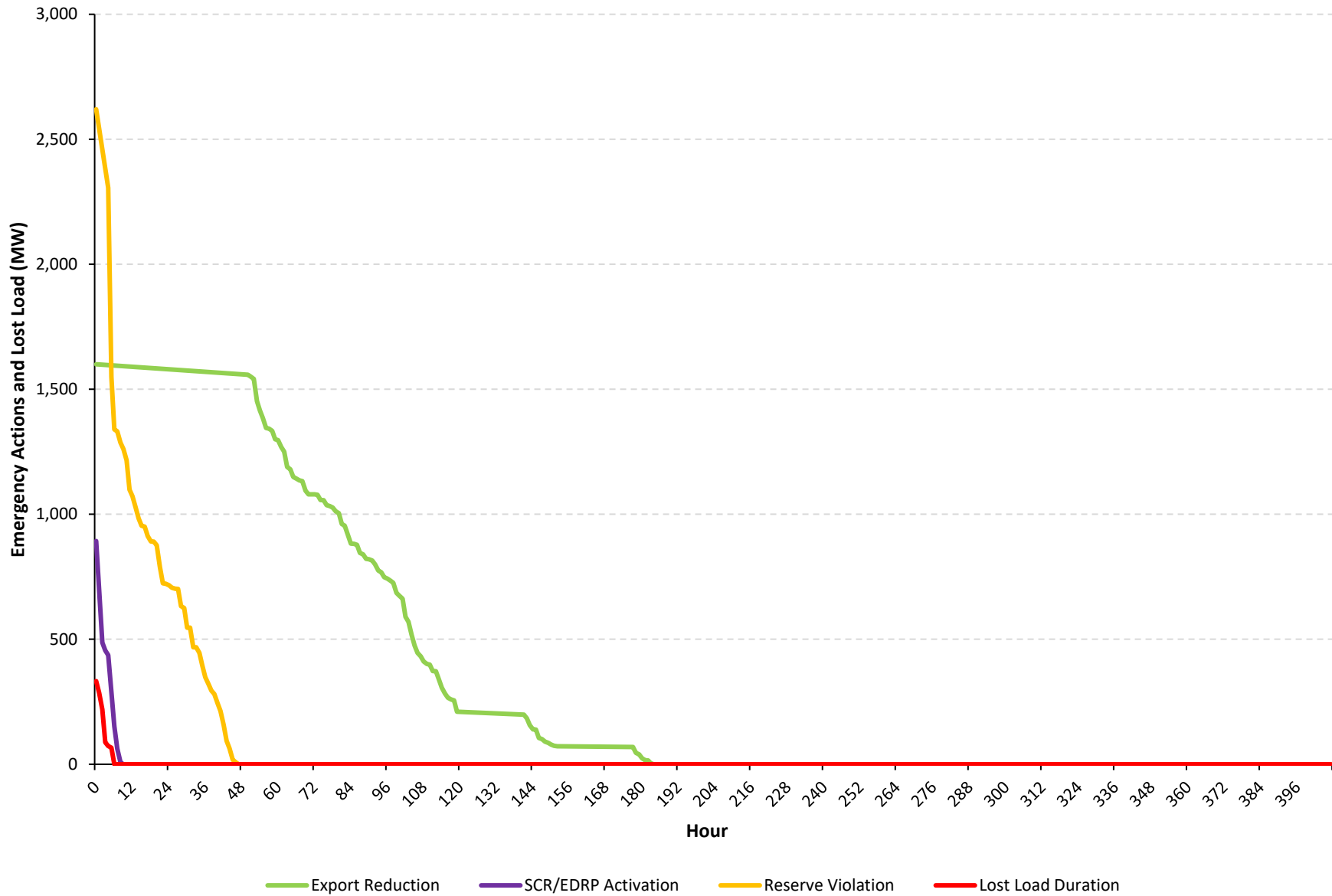
NYCA
Degree Days and Gas Available for Electric Generation 17-Day Modeling Period
 Scenario 8 - PD 1 No Disruptions



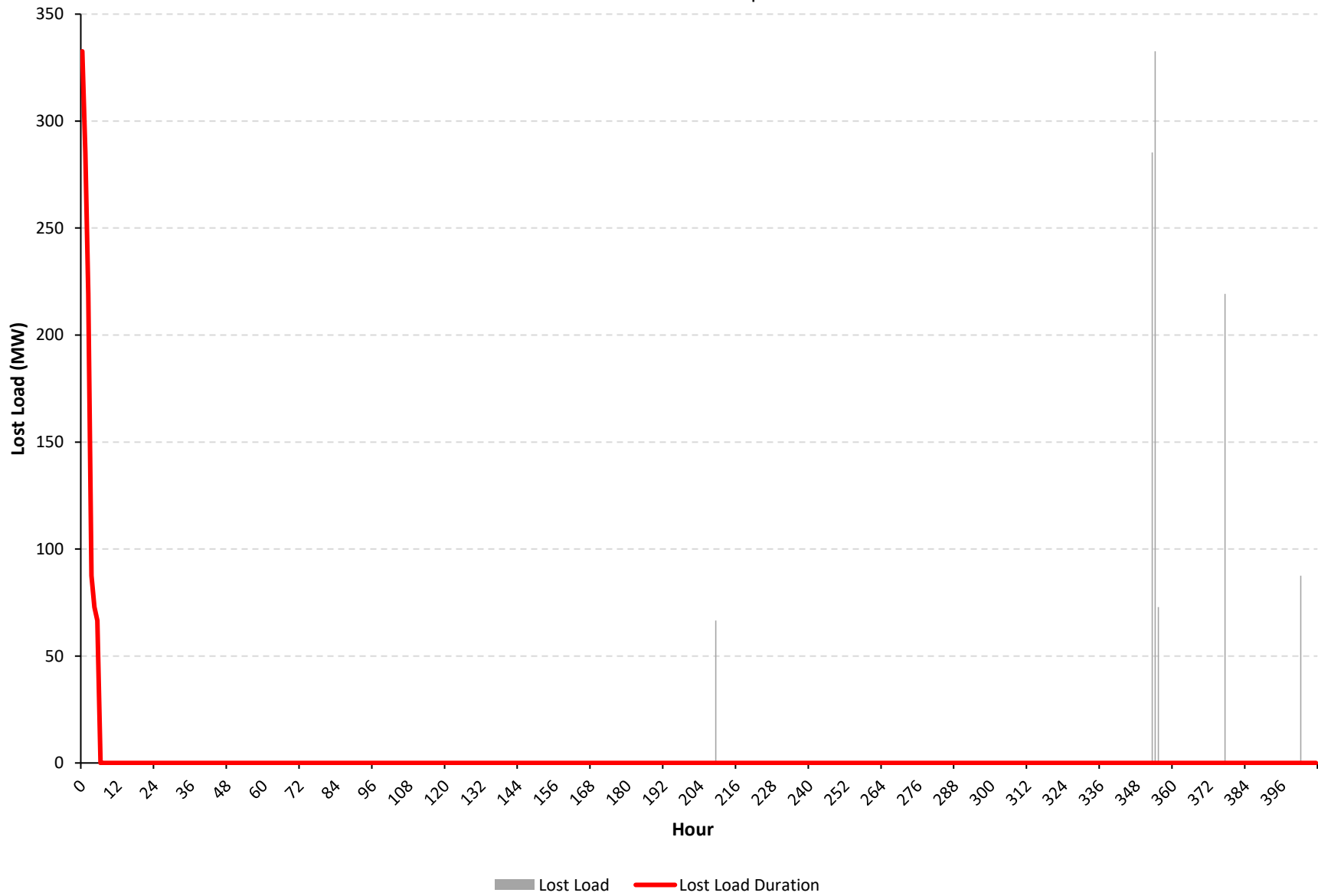
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 1 No Disruptions



NYCA
Lost Load Duration (MWh)
Scenario 8 - PD 1 No Disruptions



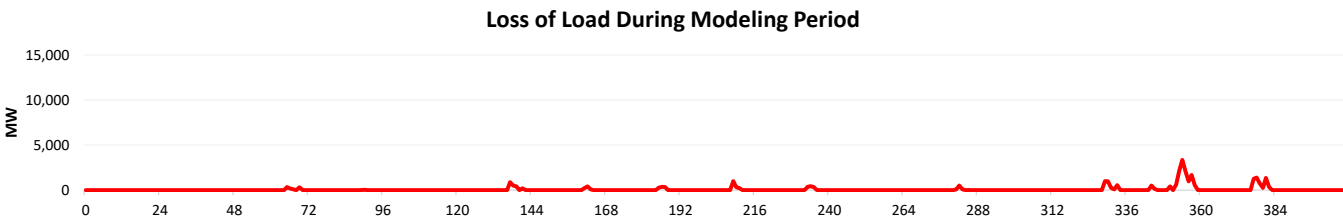
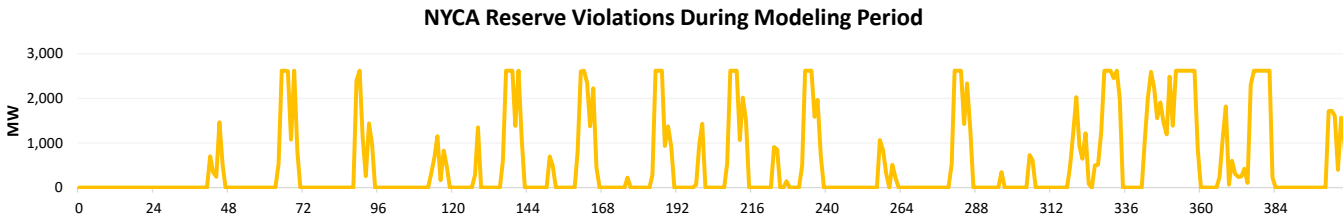
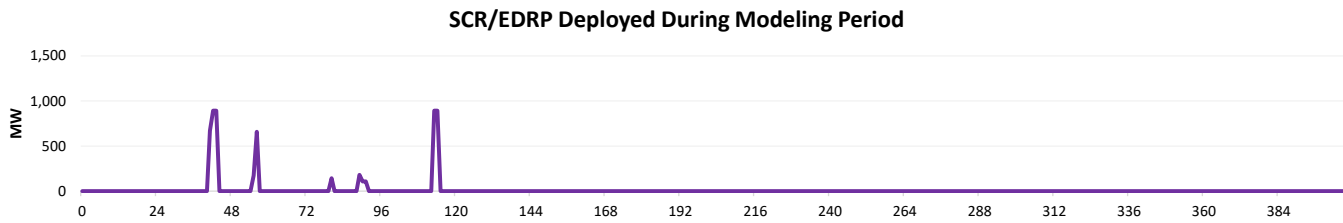
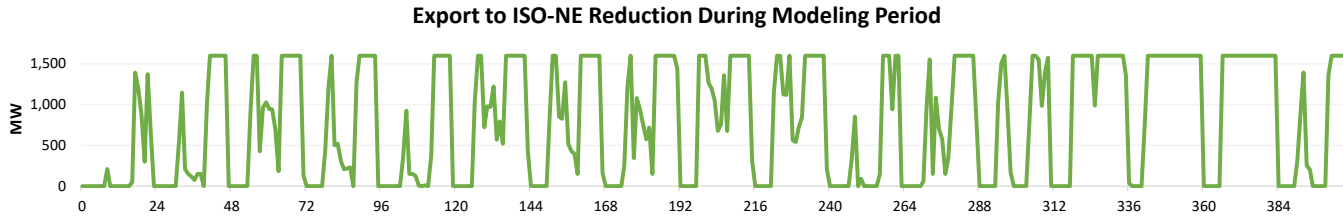
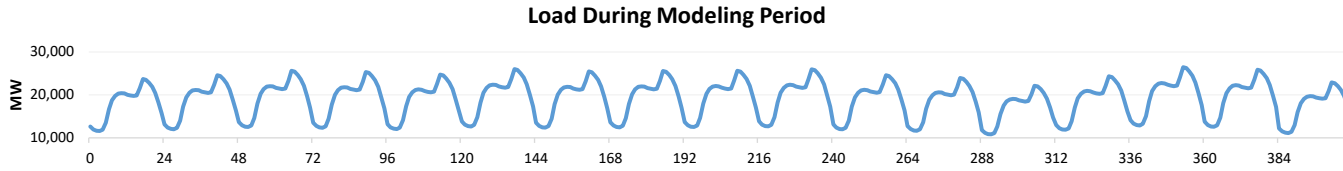
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 2 High Outage

Hourly Results Summary

Case Name: Scenario 8 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	271
Total MWh	319,576
Avg. MW	783.3

SCR Deployment	
Total Hrs.	11
Total MWh	5,611
Avg. MW	13.8

Reserve Violations	
Total Hrs.	143
Total MWh	209,263
Avg. MW	512.9
First Hour with Viol.	42
First Hour, Zone K	42

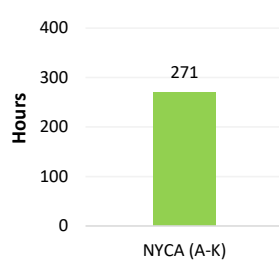
Loss of Load	
Total Hrs.	48
Total MWh	28,895
Avg. MW	70.8
First Hour with Losses	65
First Hour, Zone K	65

Full Period Results Summary

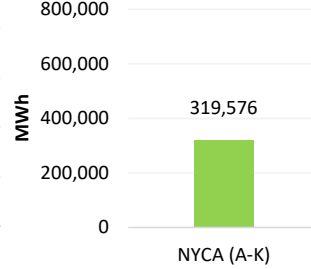
Case Name: Scenario 8 - PD 2 High Outage

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	High
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

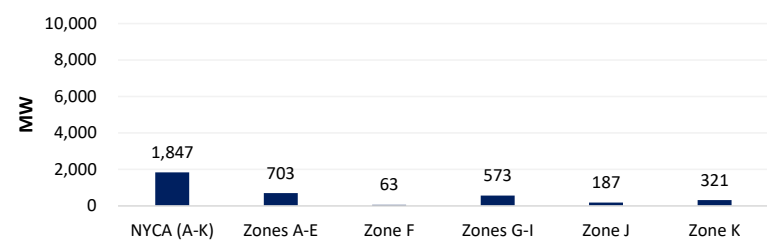
Hours Exports Reduced



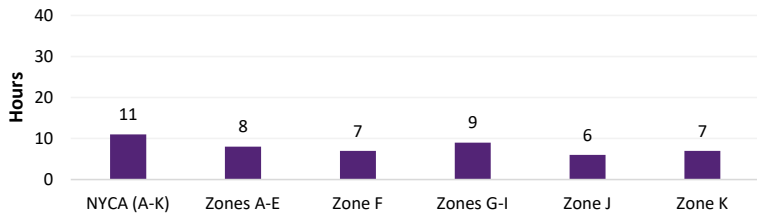
Total MWh of Exports Reduced



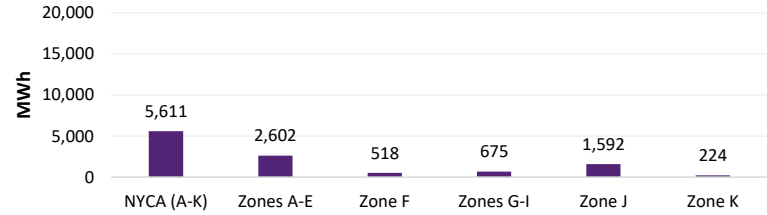
Average Capacity Not Available Due to Exhausted Fuel Inventory



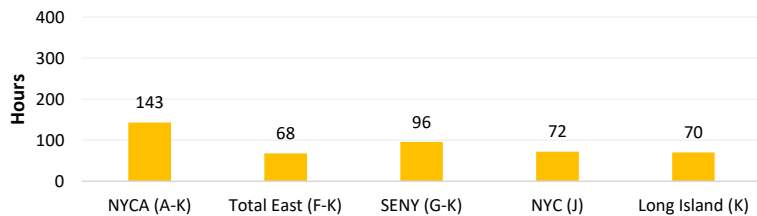
Hours SCR/EDRP Deployed



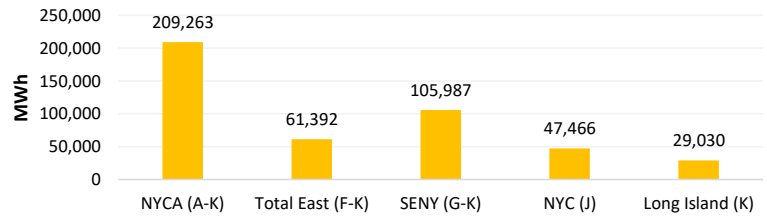
Total MWh SCR/EDRP Deployed



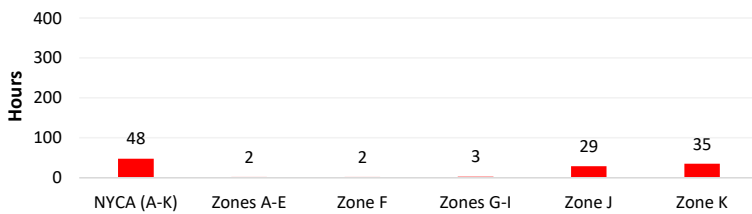
Hours with Reserve Violations



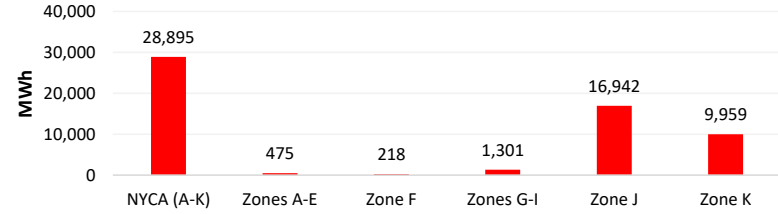
Total MWh of Reserve Violations



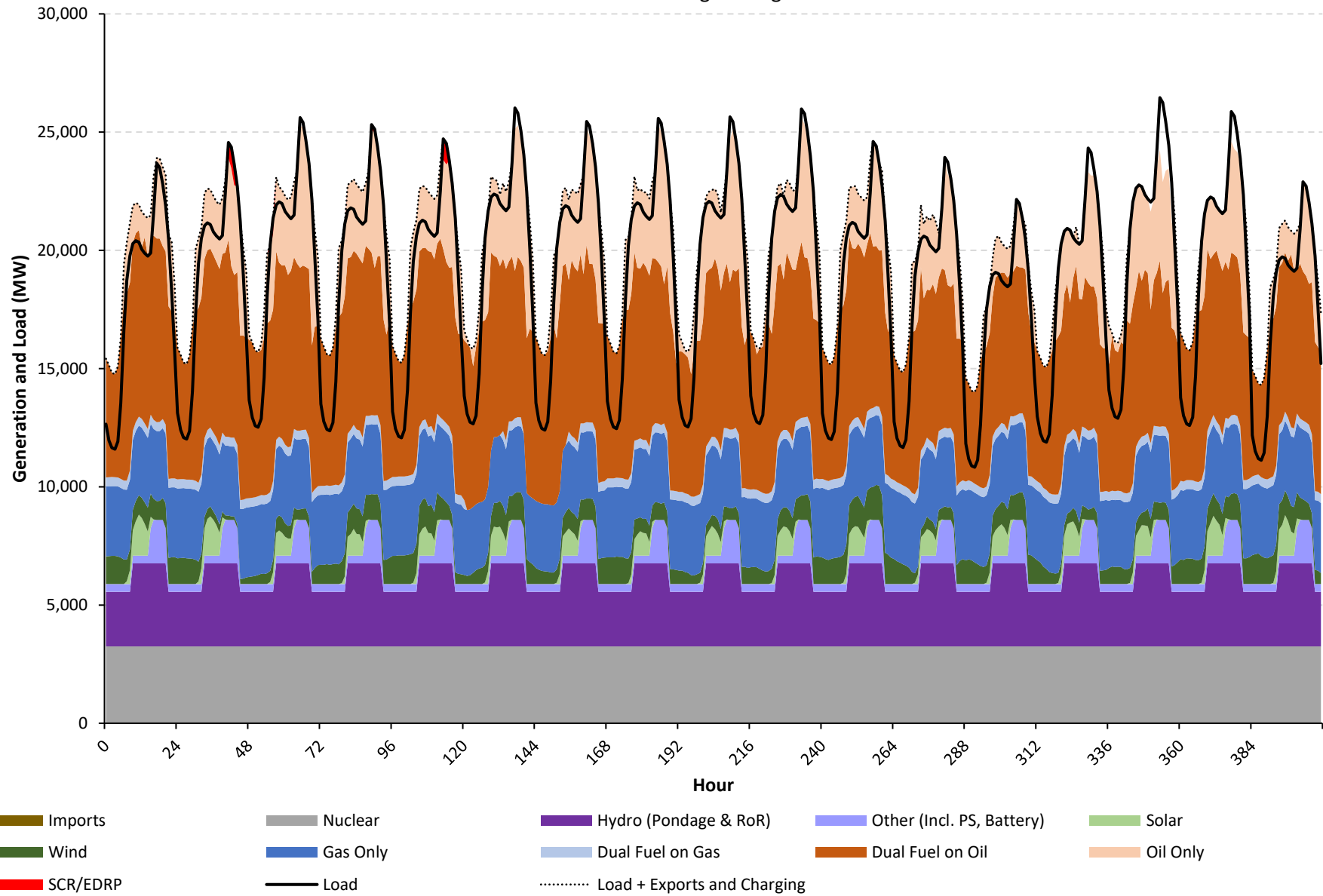
Hours with Loss of Load



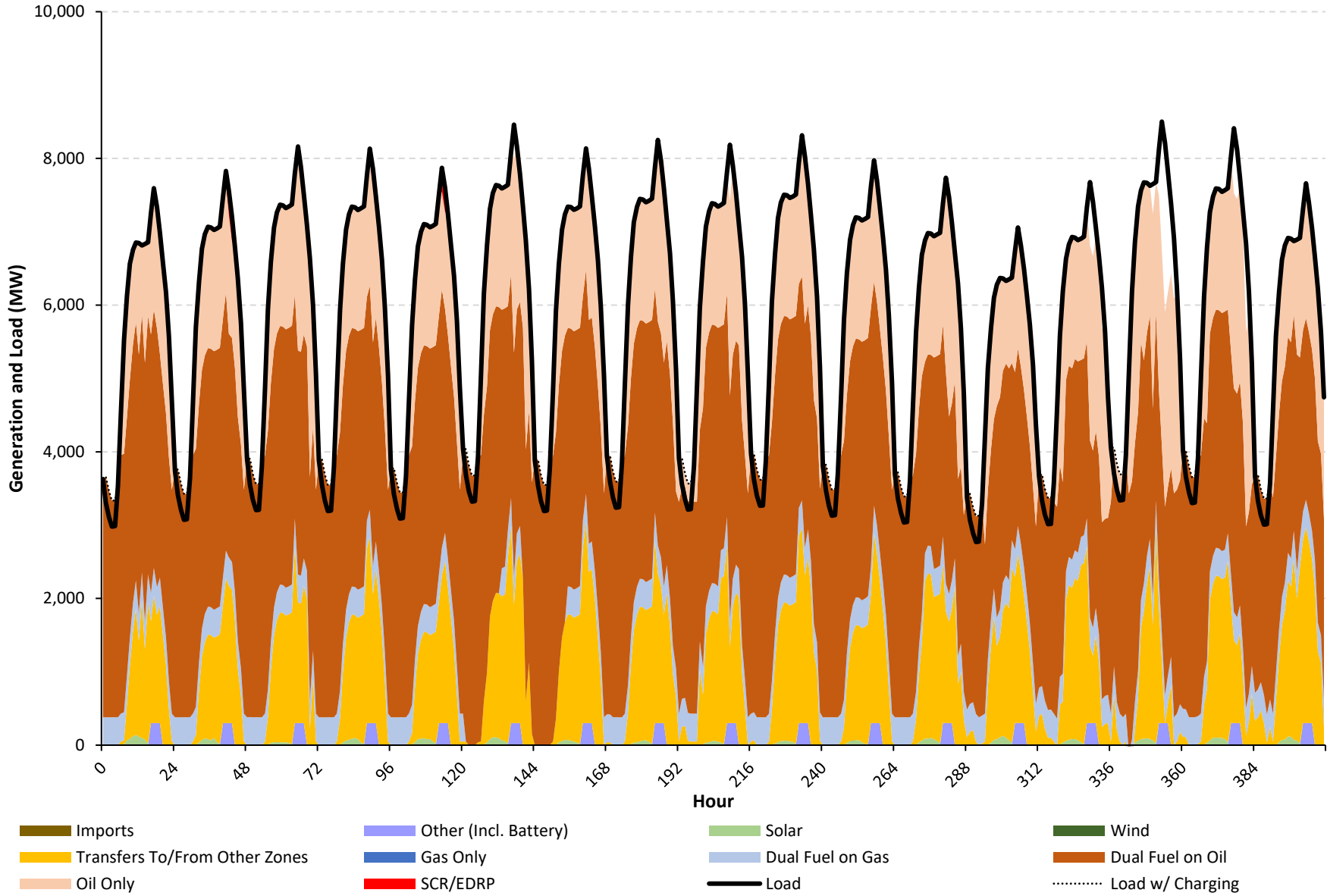
Total MWh of Lost Load



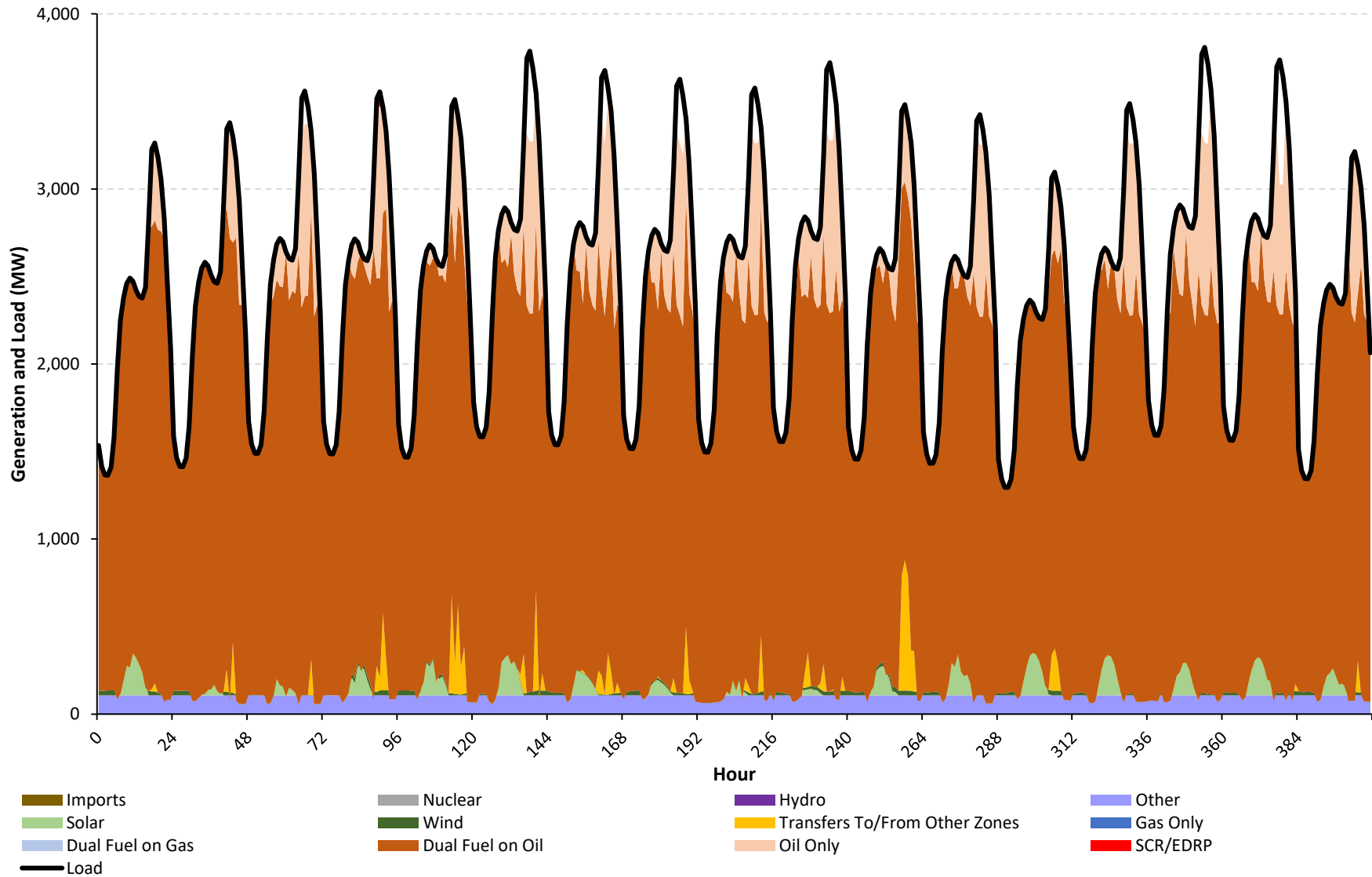
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 2 High Outage



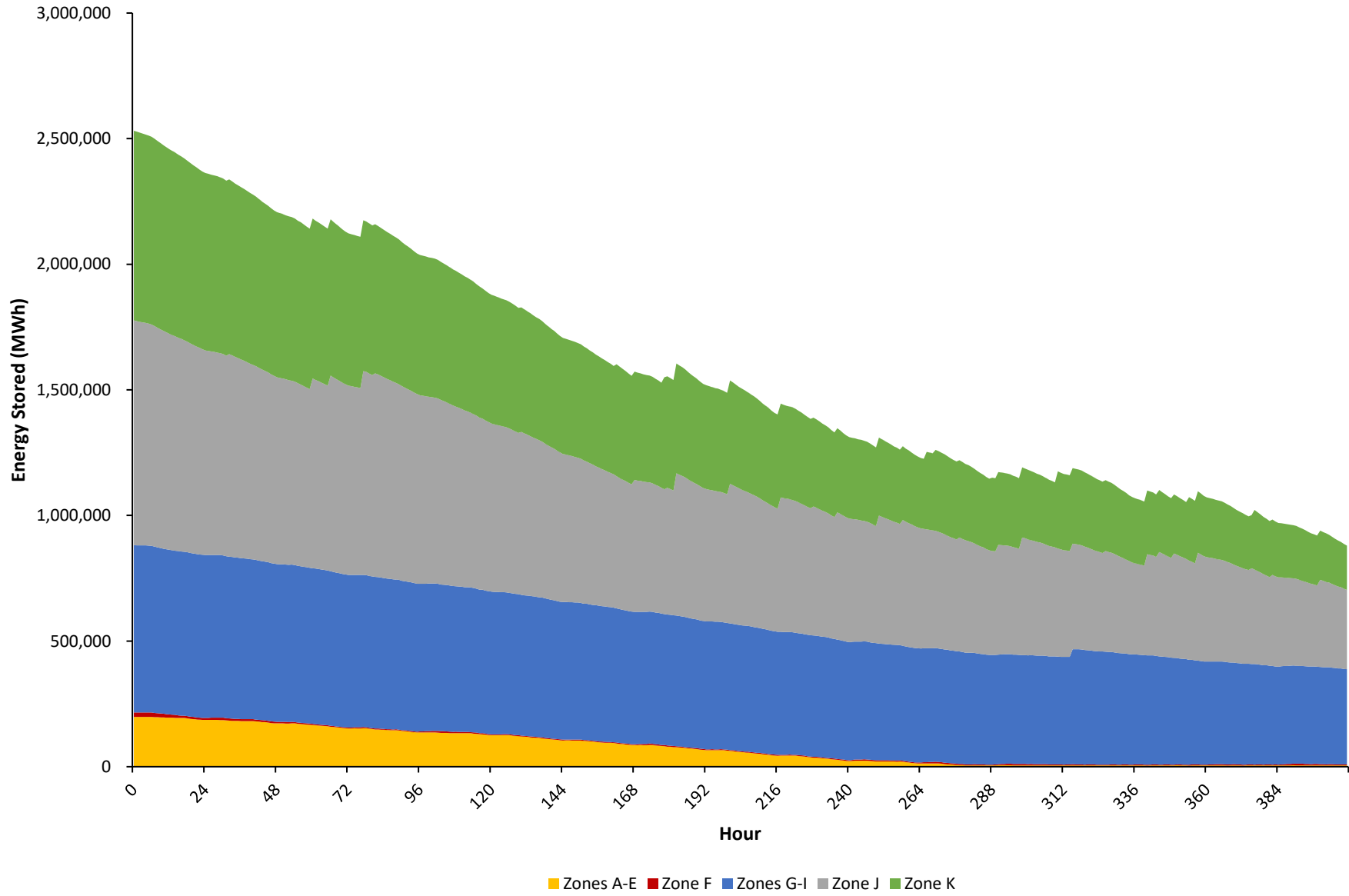
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 2 High Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 2 High Outage

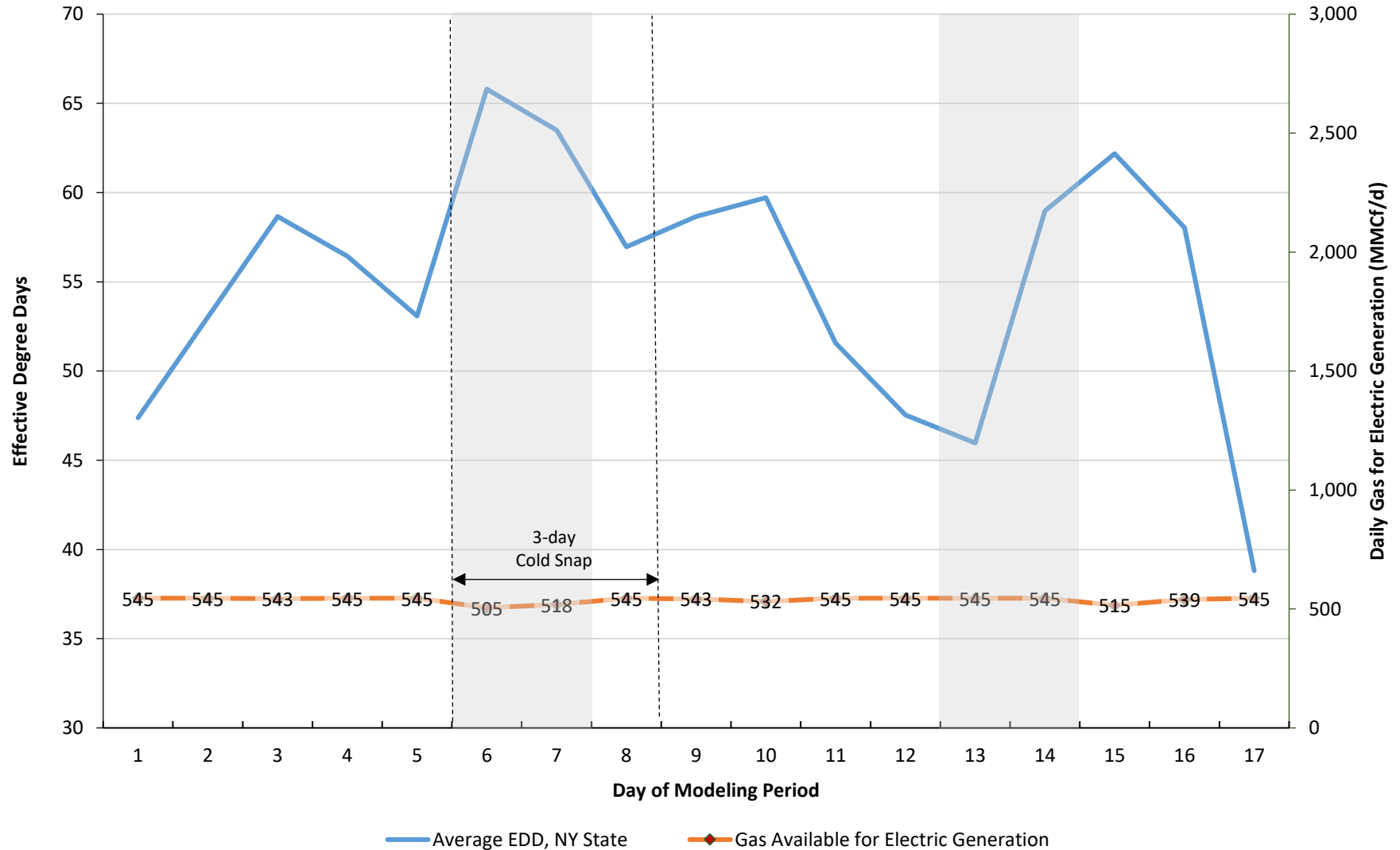


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 2 High Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

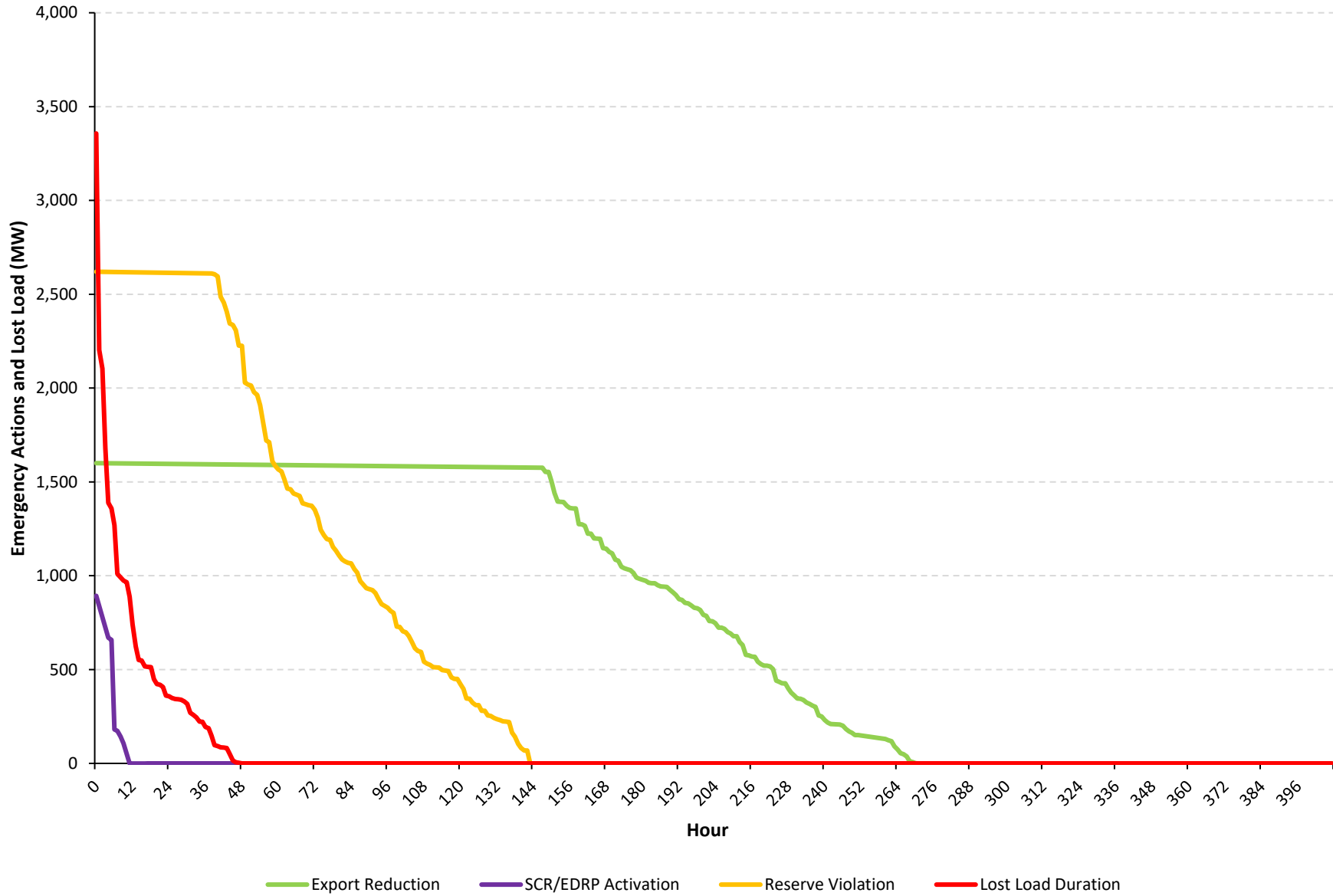
Scenario 8 - PD 2 High Outage



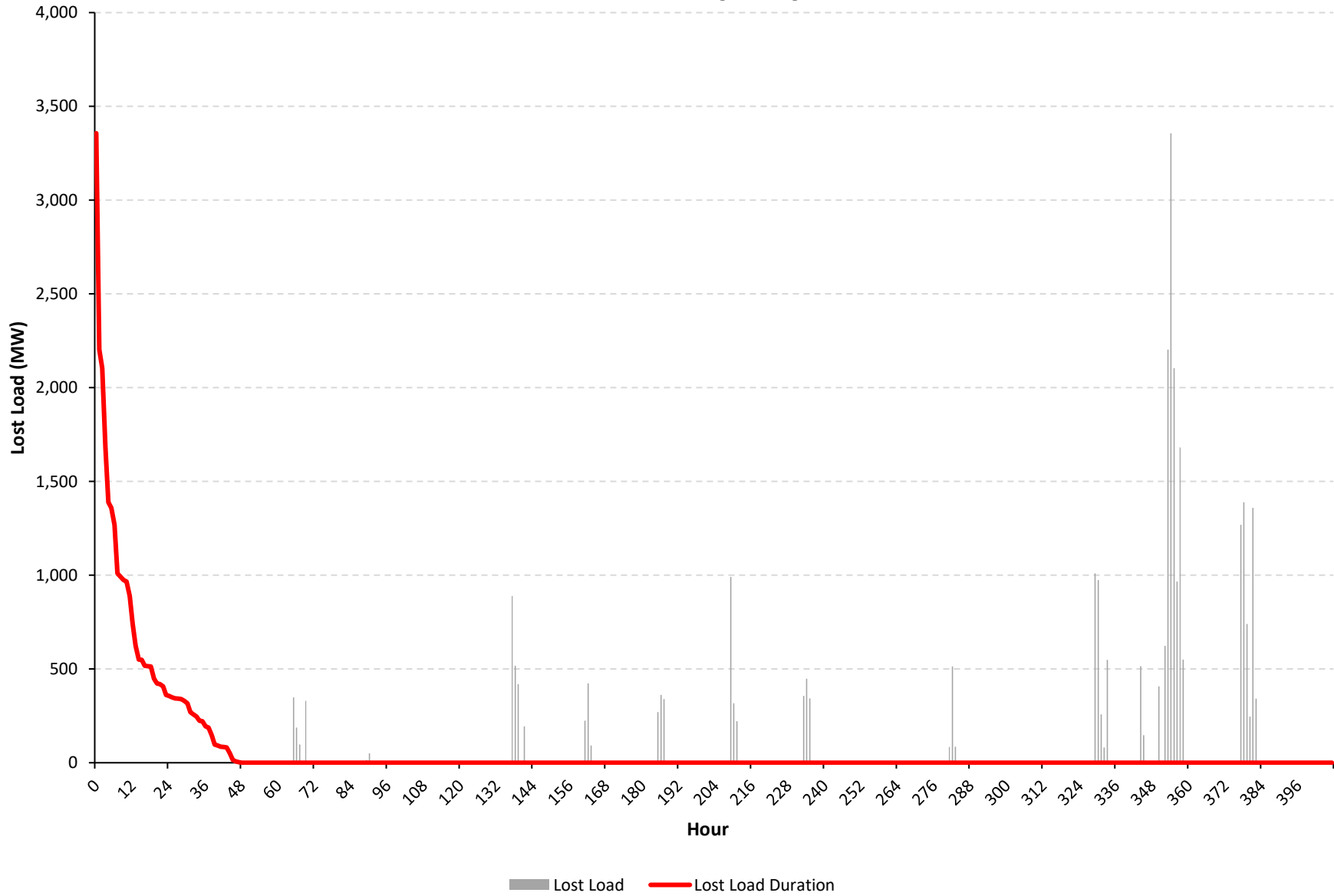
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 2 High Outage



NYCA Lost Load Duration (MWh) Scenario 8 - PD 2 High Outage



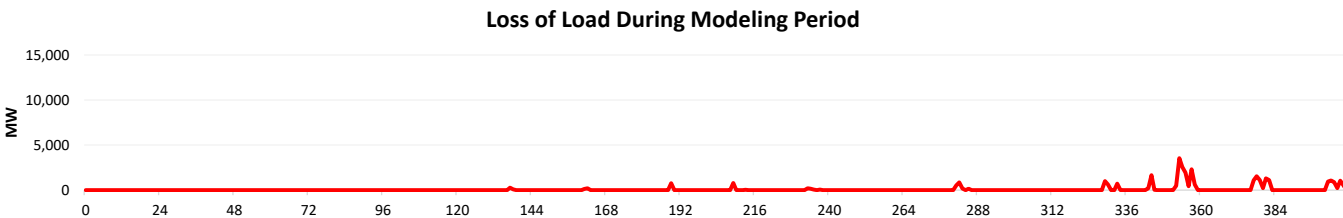
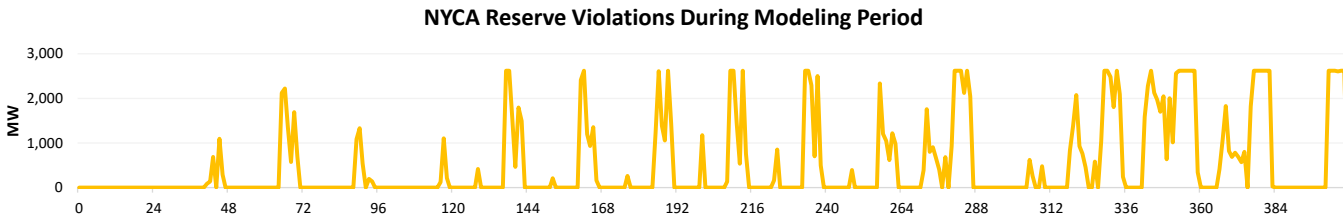
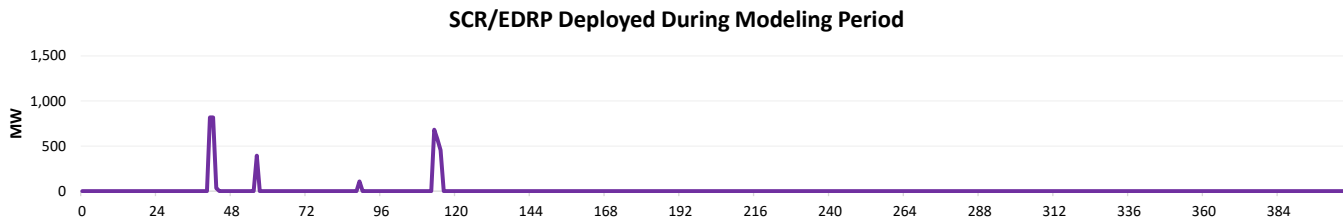
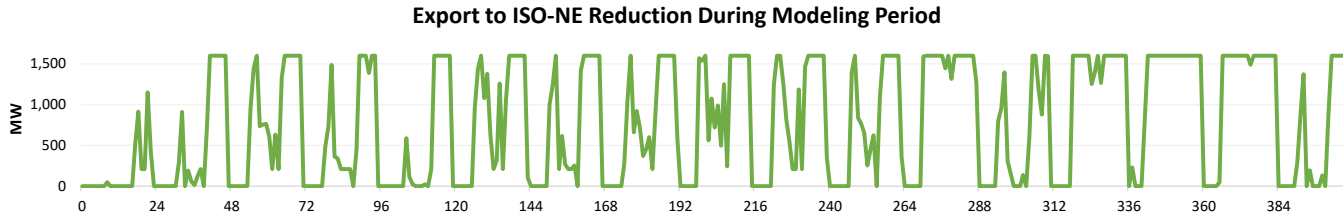
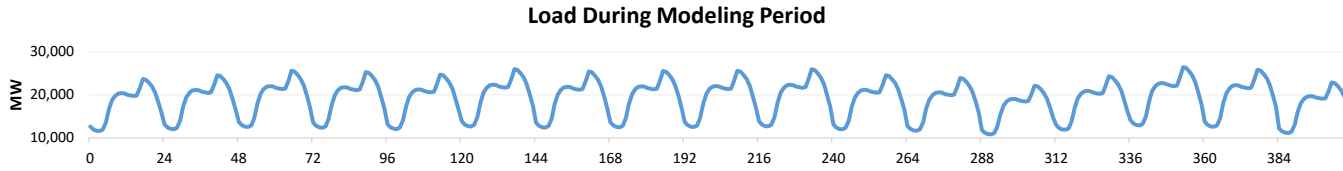
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 3 SENY Deactivation

Hourly Results Summary

Case Name: Scenario 8 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	269
Total MWh	314,929
Avg. MW	771.9

SCR Deployment	
Total Hrs.	8
Total MWh	3,882
Avg. MW	9.5

Reserve Violations	
Total Hrs.	138
Total MWh	200,658
Avg. MW	491.8
First Hour with Viol.	41
First Hour, Zone K	65

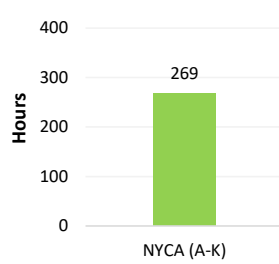
Loss of Load	
Total Hrs.	42
Total MWh	31,806
Avg. MW	78.0
First Hour with Losses	137
First Hour, Zone K	137

Full Period Results Summary

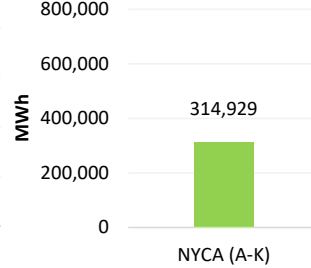
Case Name: Scenario 8 - PD 3 SENY Deactivation

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW

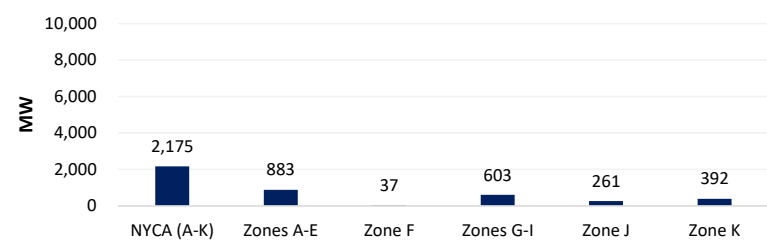
Hours Exports Reduced



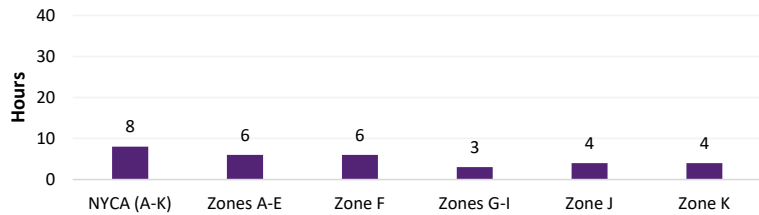
Total MWh of Exports Reduced



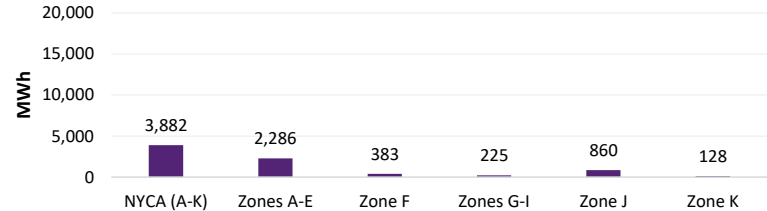
Average Capacity Not Available Due to Exhausted Fuel Inventory



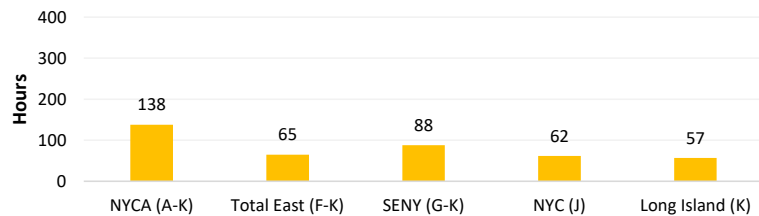
Hours SCR/EDRP Deployed



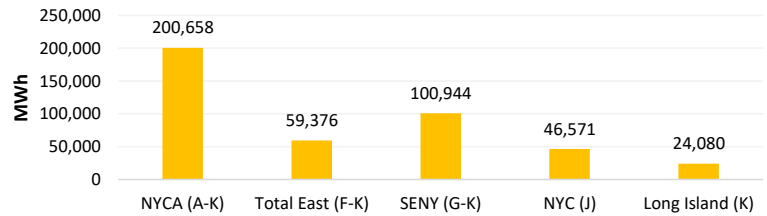
Total MWh SCR/EDRP Deployed



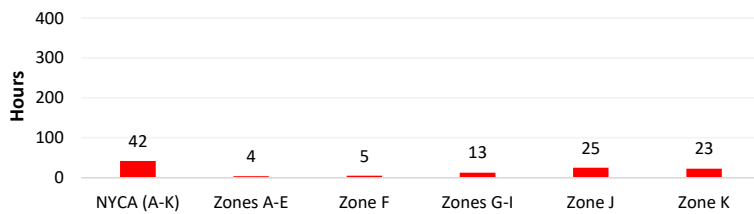
Hours with Reserve Violations



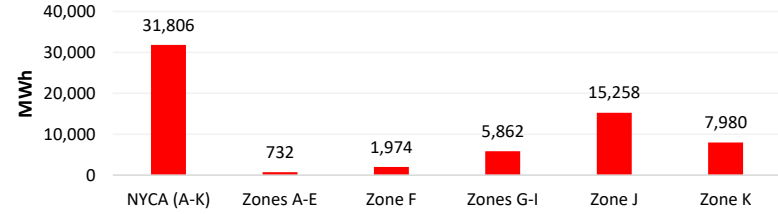
Total MWh of Reserve Violations



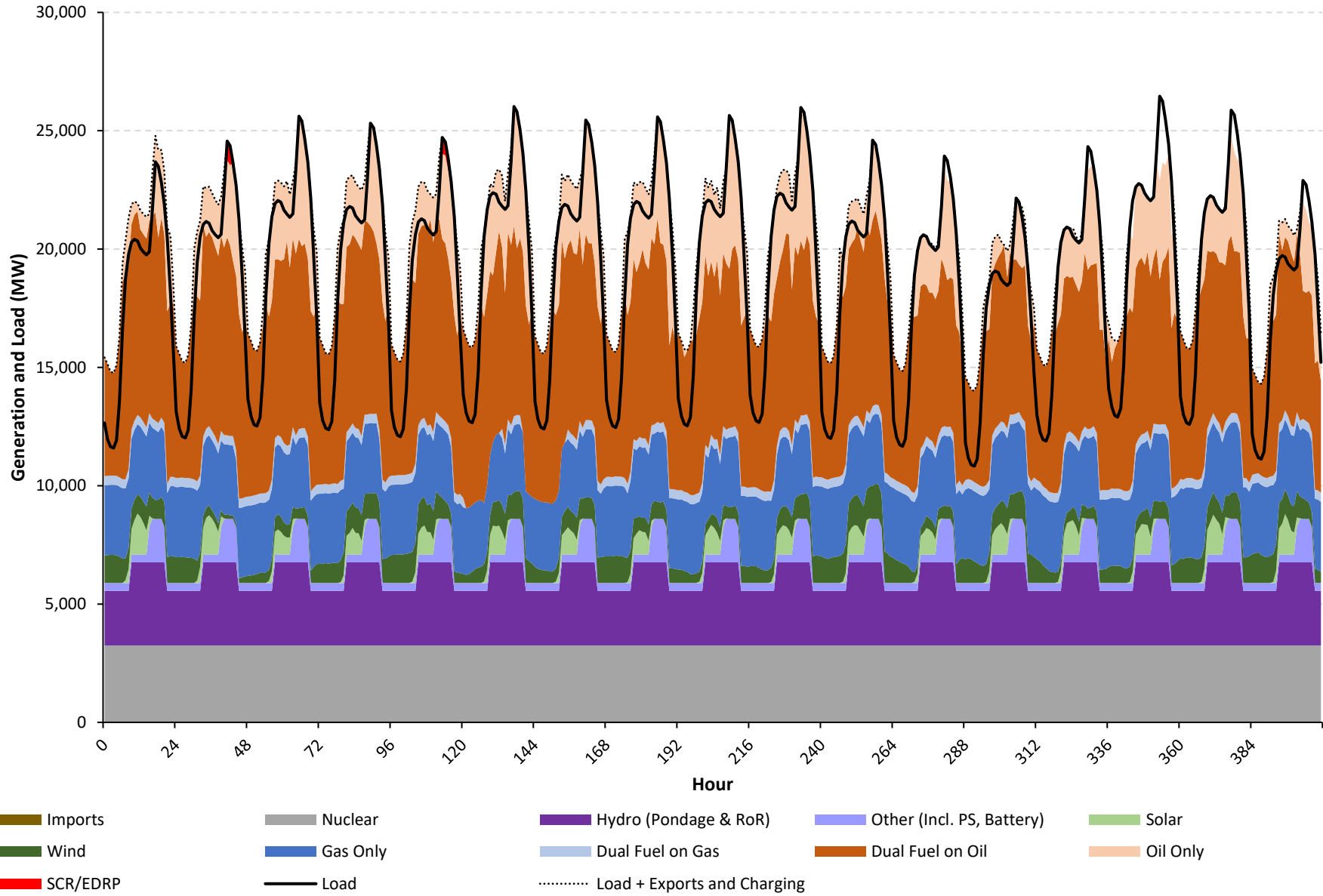
Hours with Loss of Load



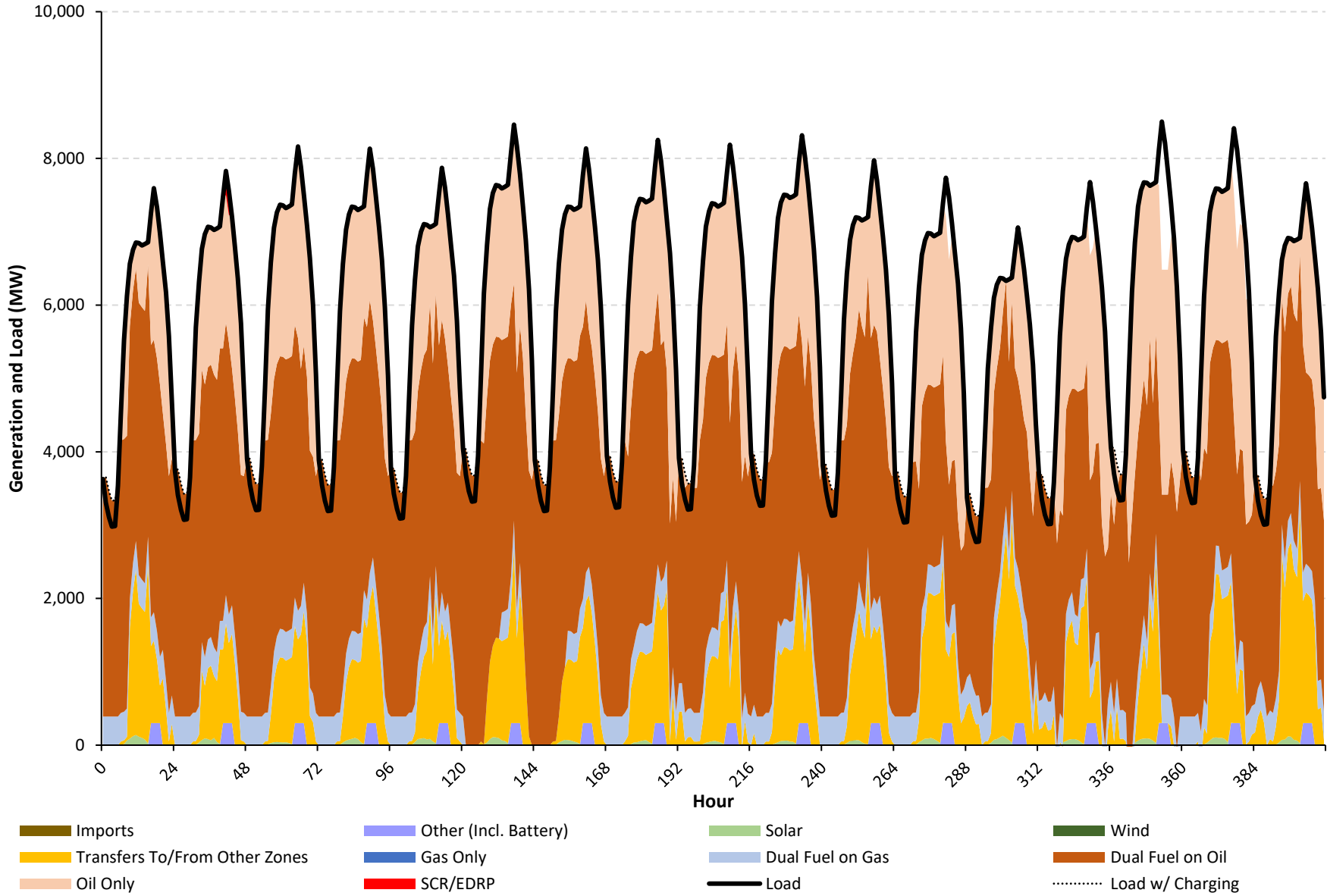
Total MWh of Lost Load



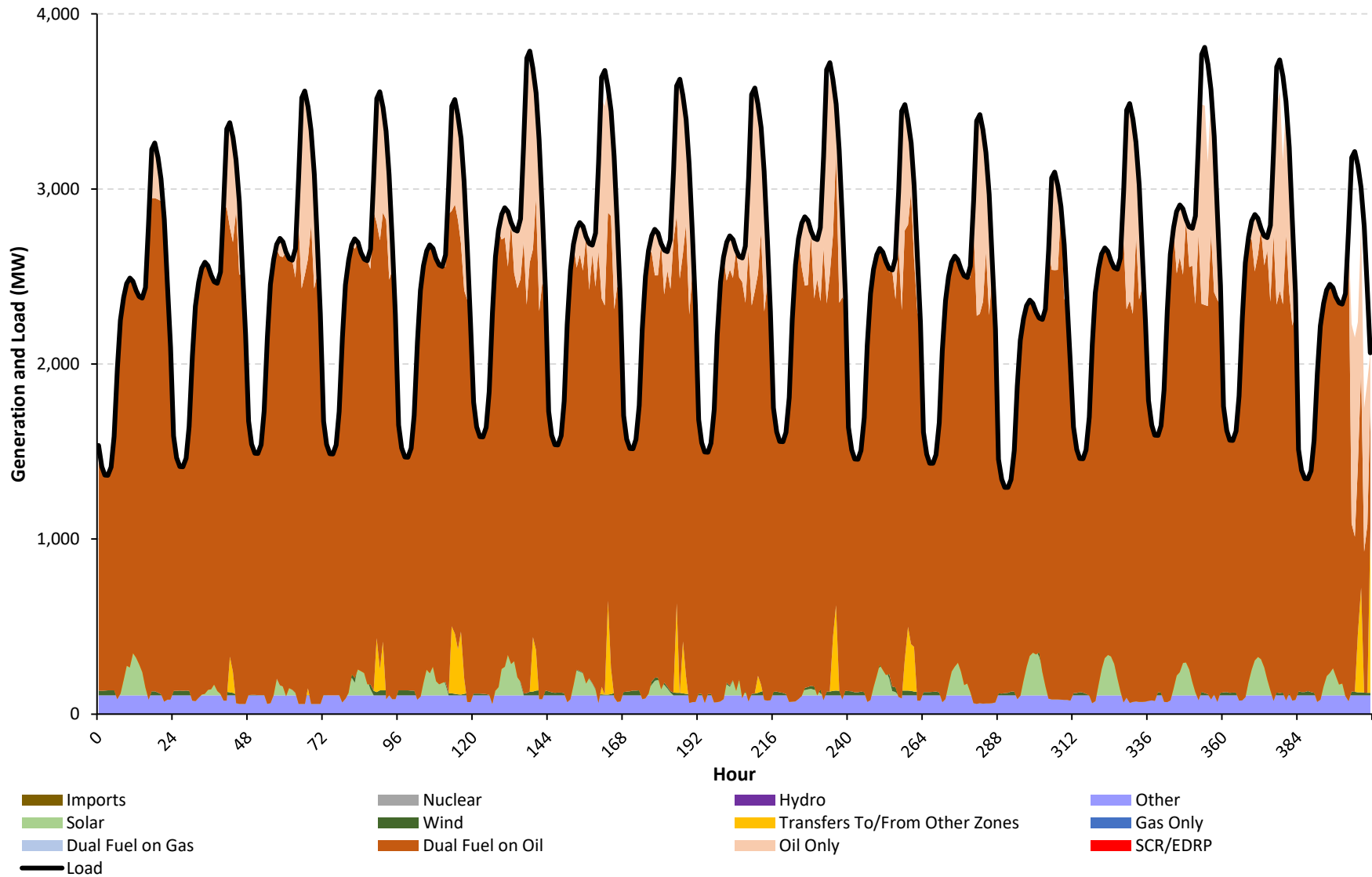
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 3 SENY Deactivation



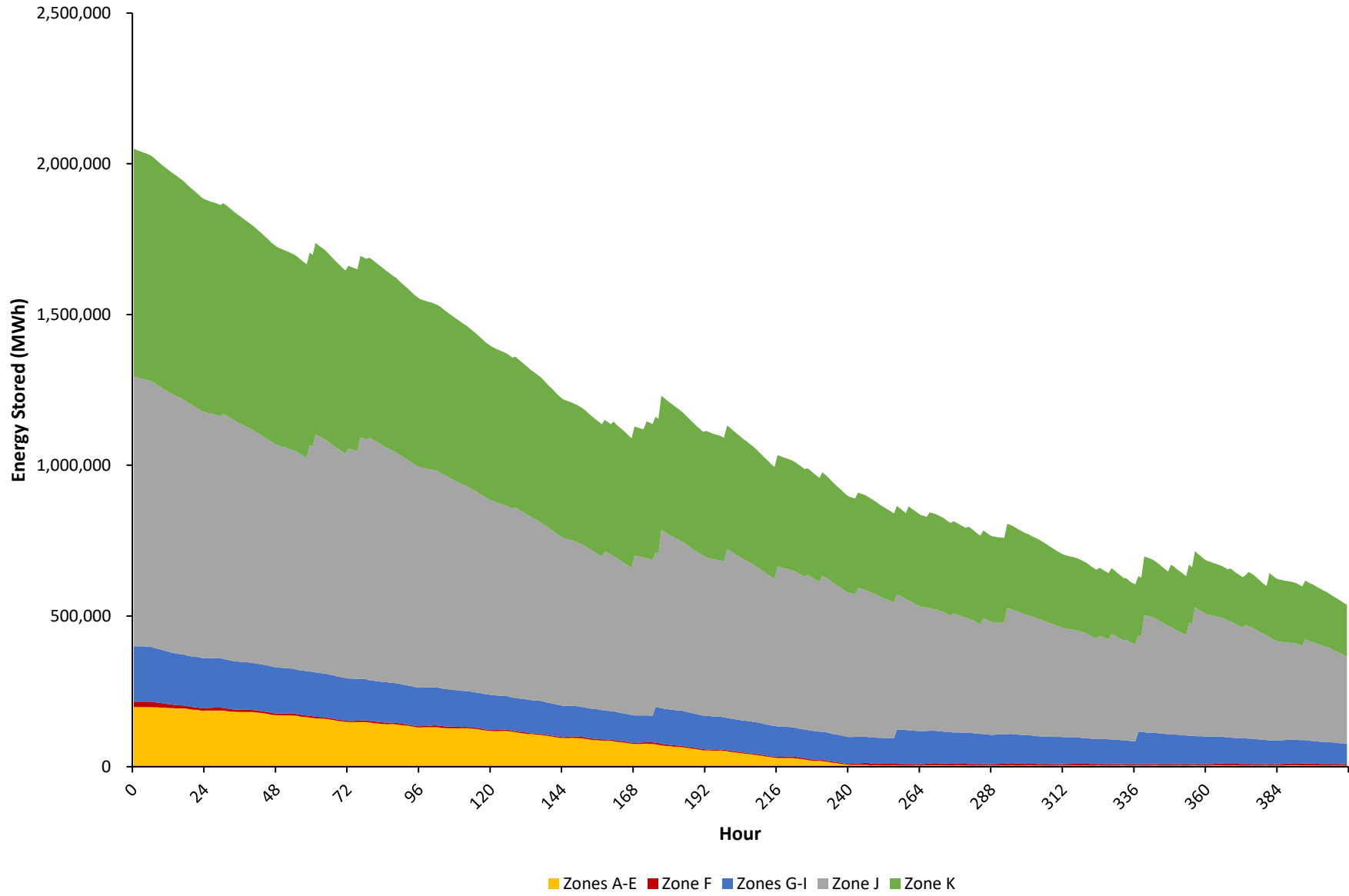
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 3 SENY Deactivation



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 3 SENY Deactivation

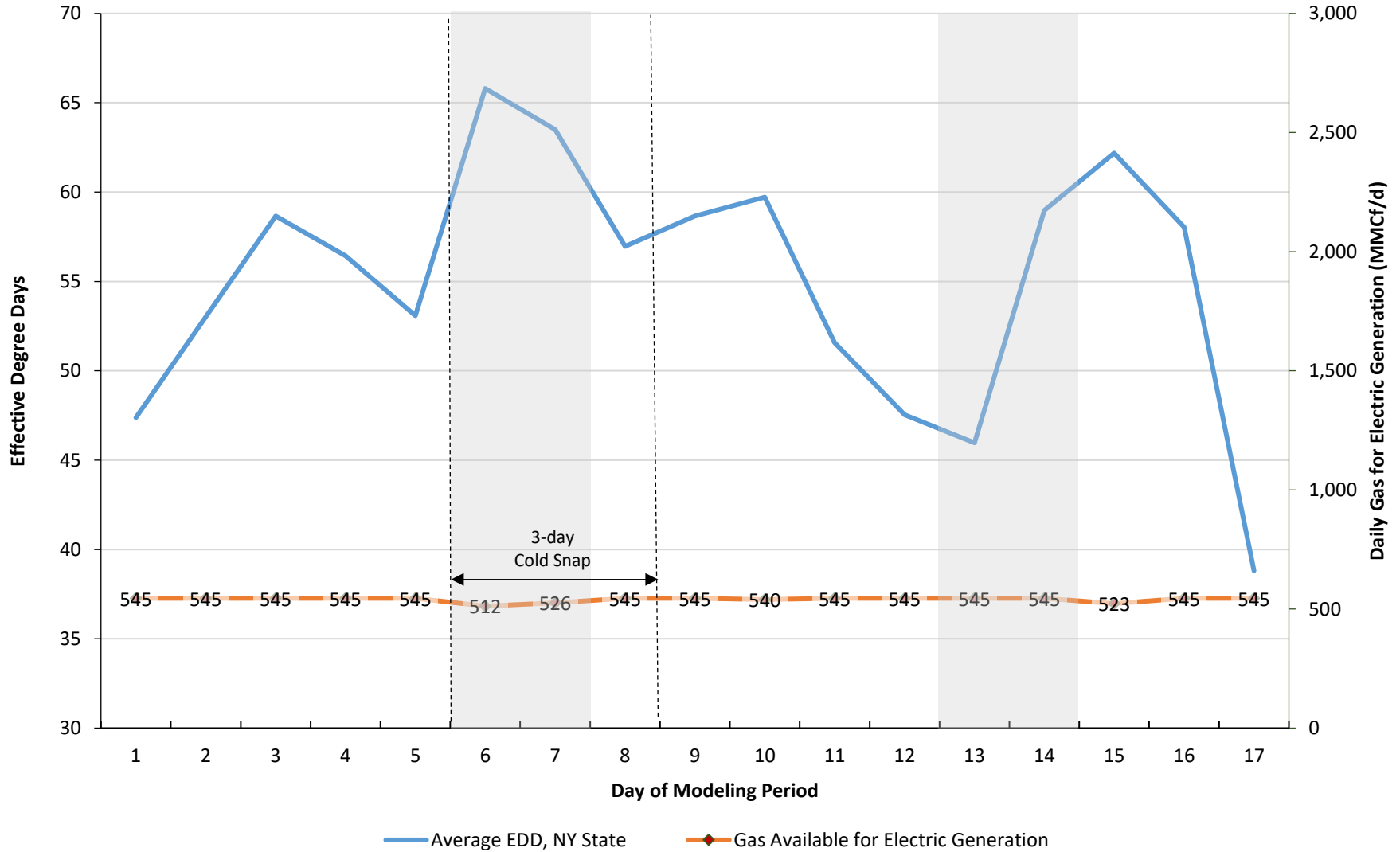


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 3 SENY Deactivation



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

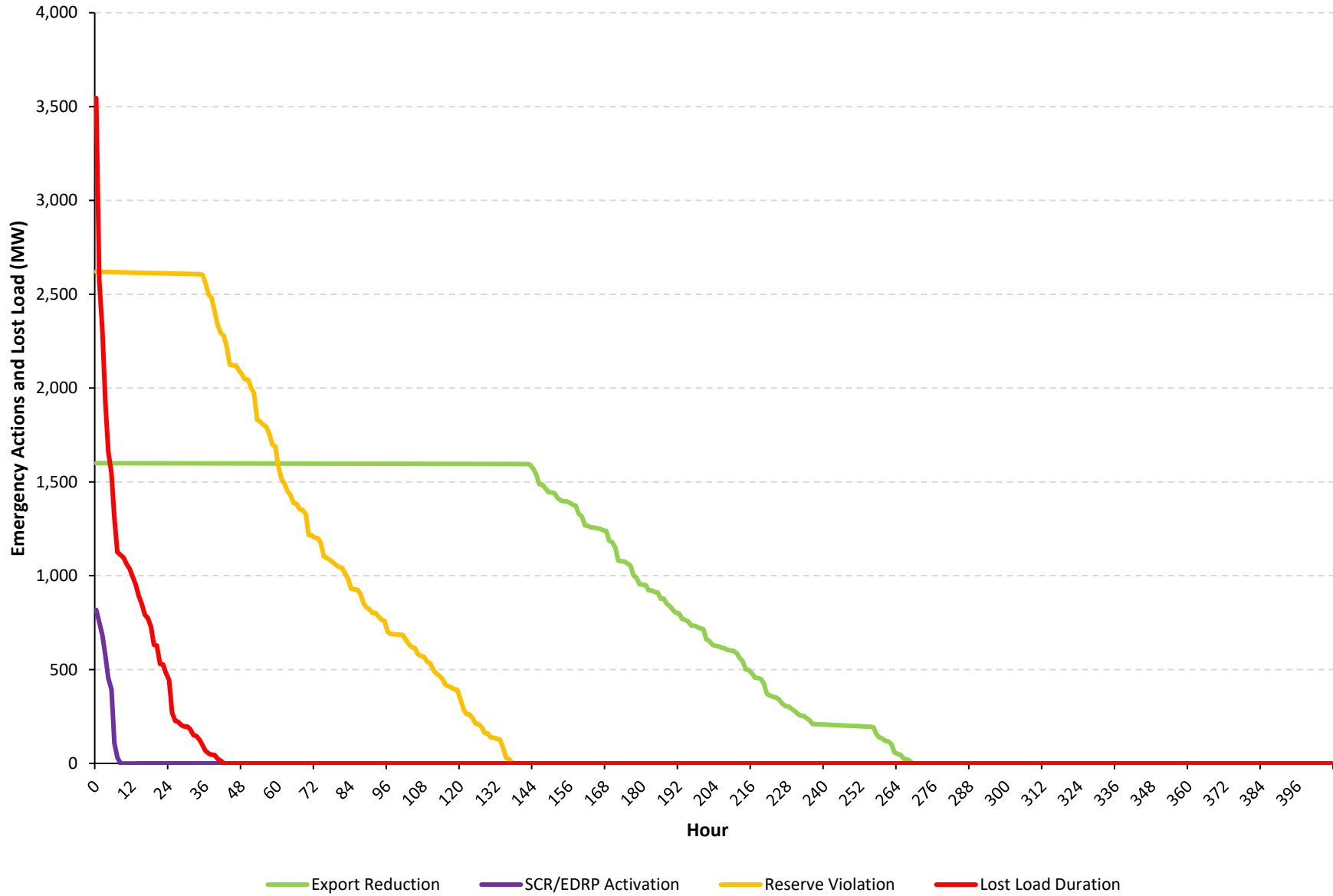
Scenario 8 - PD 3 SENY Deactivation



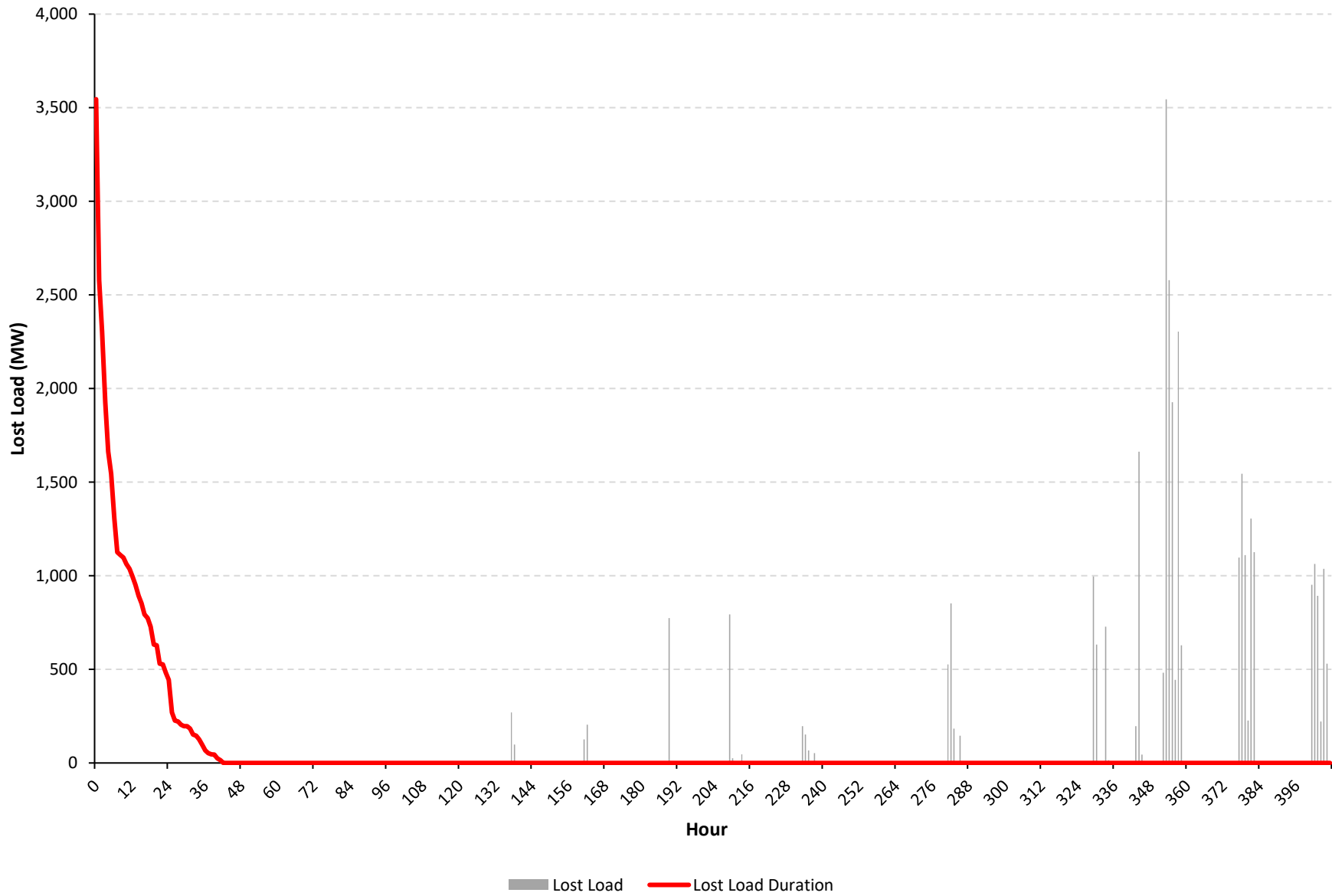
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 3 SENY Deactivation



NYCA
Lost Load Duration (MWh)
Scenario 8 - PD 3 SENY Deactivation

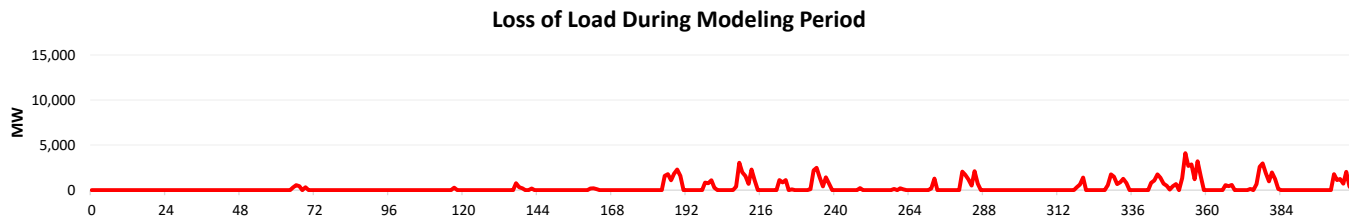
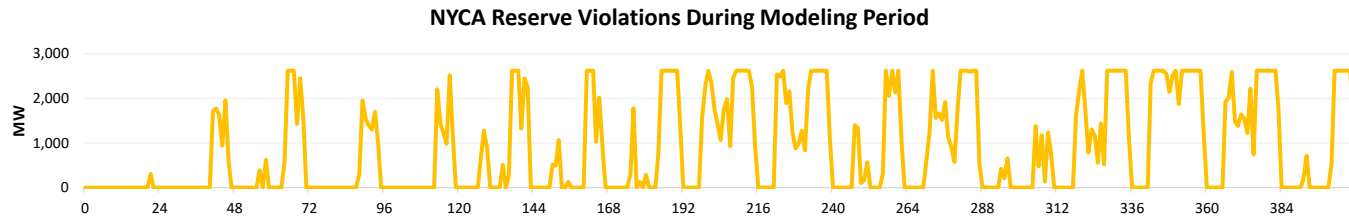
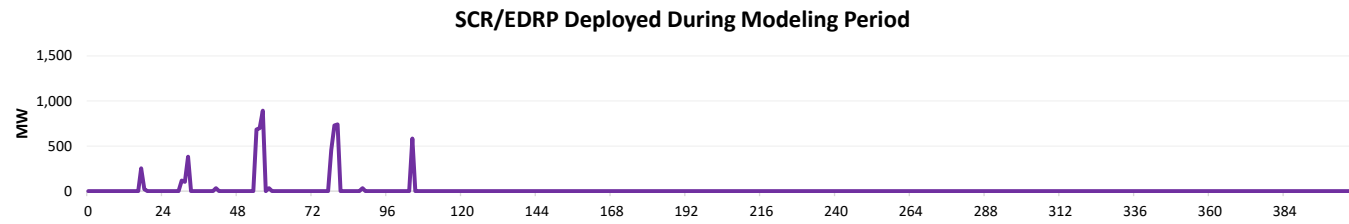
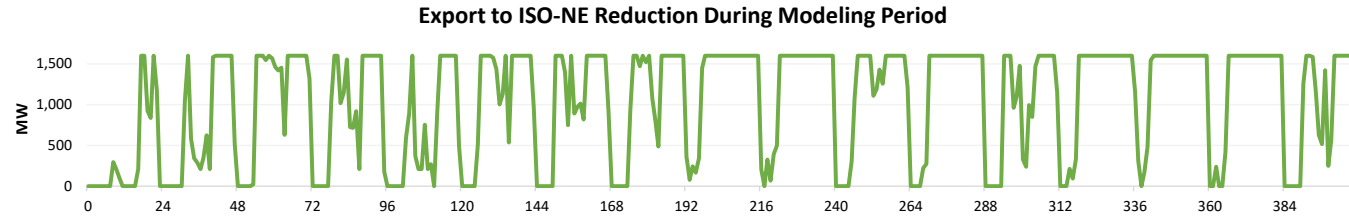
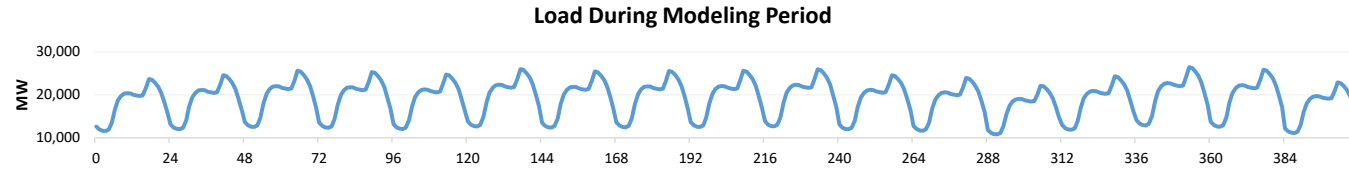


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 4 Nuclear Outage

Hourly Results Summary

Case Name: Scenario 8 - PD 4 Nuclear Outage



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	322
Total MWh	422,246
Avg. MW	1,034.9

SCR Deployment	
Total Hrs.	15
Total MWh	5,754
Avg. MW	14.1

Reserve Violations	
Total Hrs.	203
Total MWh	354,161
Avg. MW	868.0
First Hour with Viol.	21
First Hour, Zone K	42

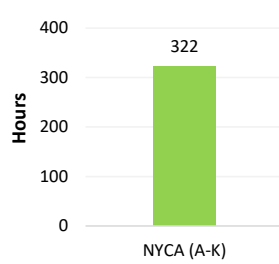
Loss of Load	
Total Hrs.	96
Total MWh	105,797
Avg. MW	259.3
First Hour with Losses	65
First Hour, Zone K	137

Full Period Results Summary

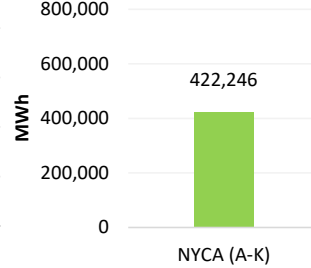
Case Name: Scenario 8 - PD 4 Nuclear Outage

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	On
Plant Outage:	None
Import Scenario:	0 MW

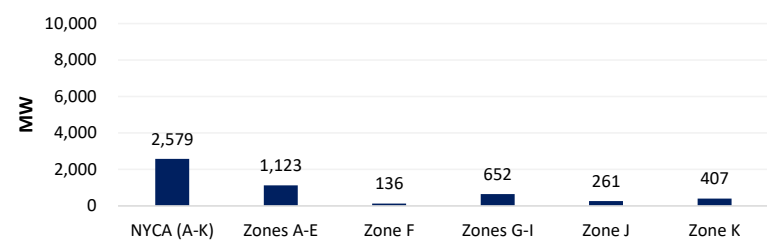
Hours Exports Reduced



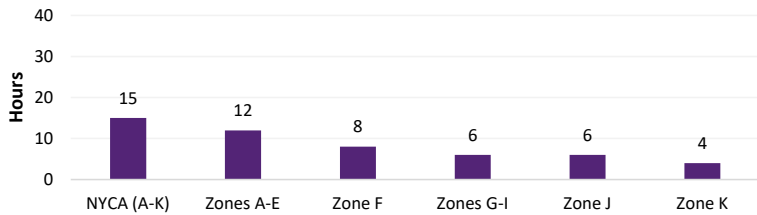
Total MWh of Exports Reduced



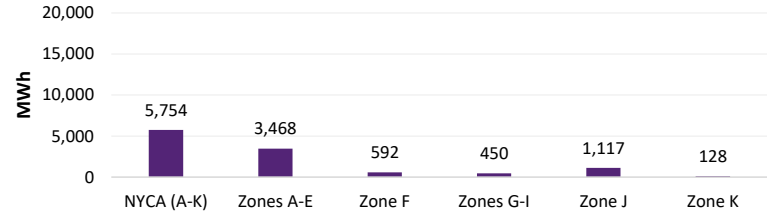
Average Capacity Not Available Due to Exhausted Fuel Inventory



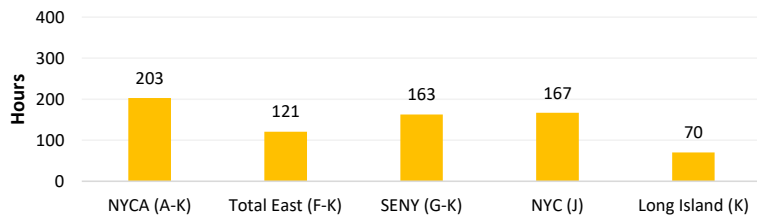
Hours SCR/EDRP Deployed



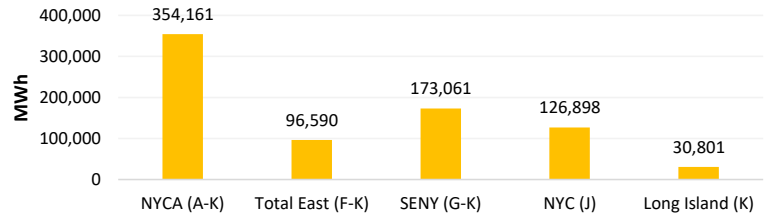
Total MWh SCR/EDRP Deployed



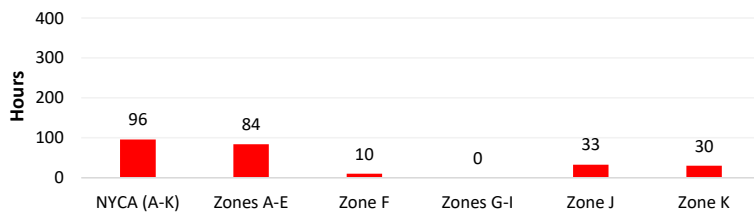
Hours with Reserve Violations



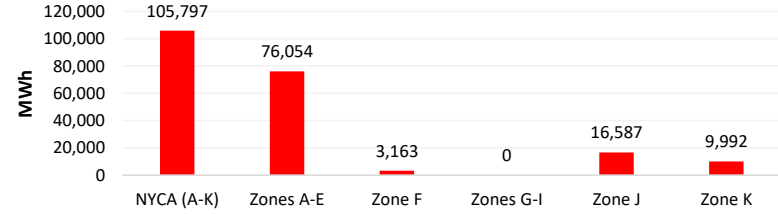
Total MWh of Reserve Violations



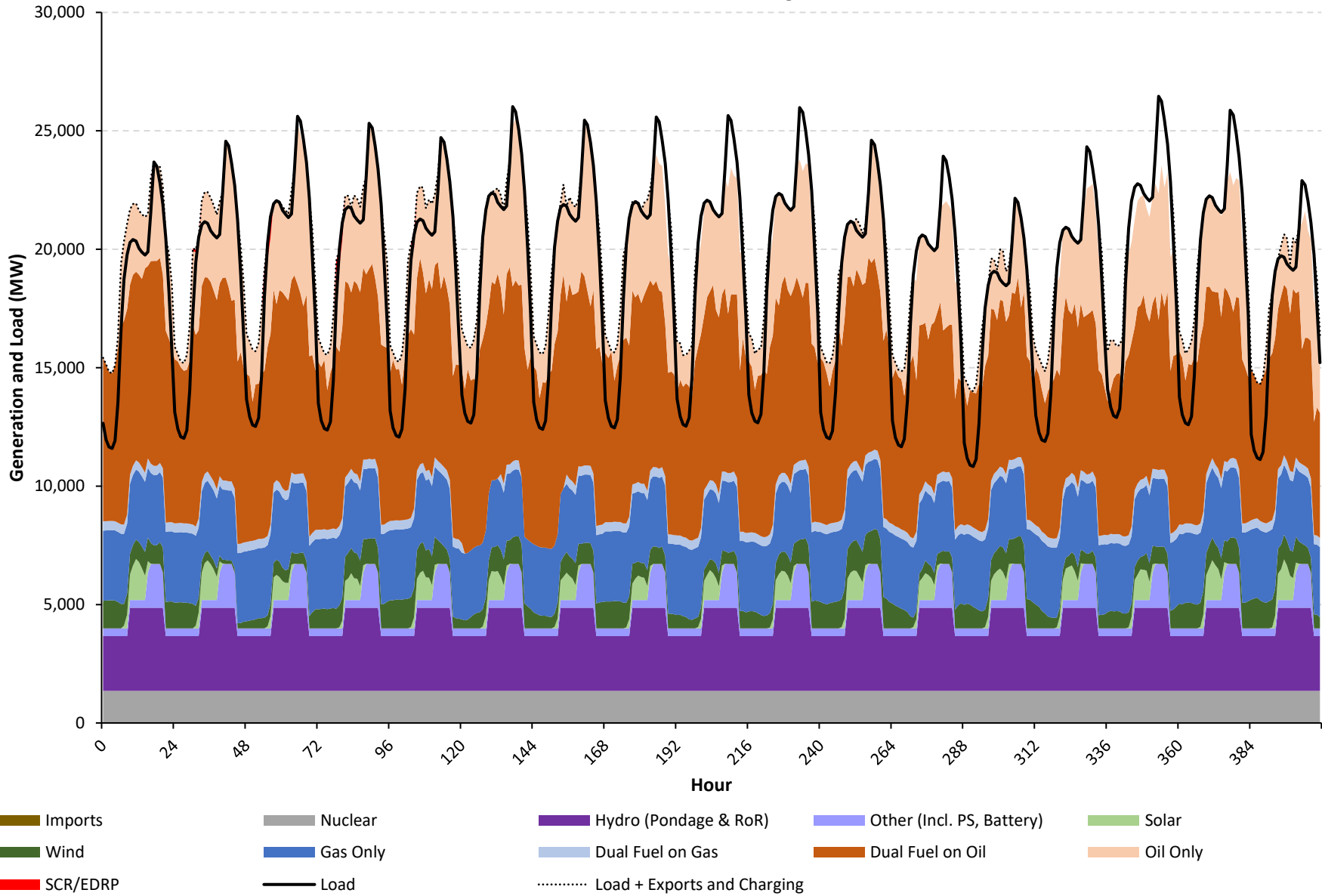
Hours with Loss of Load



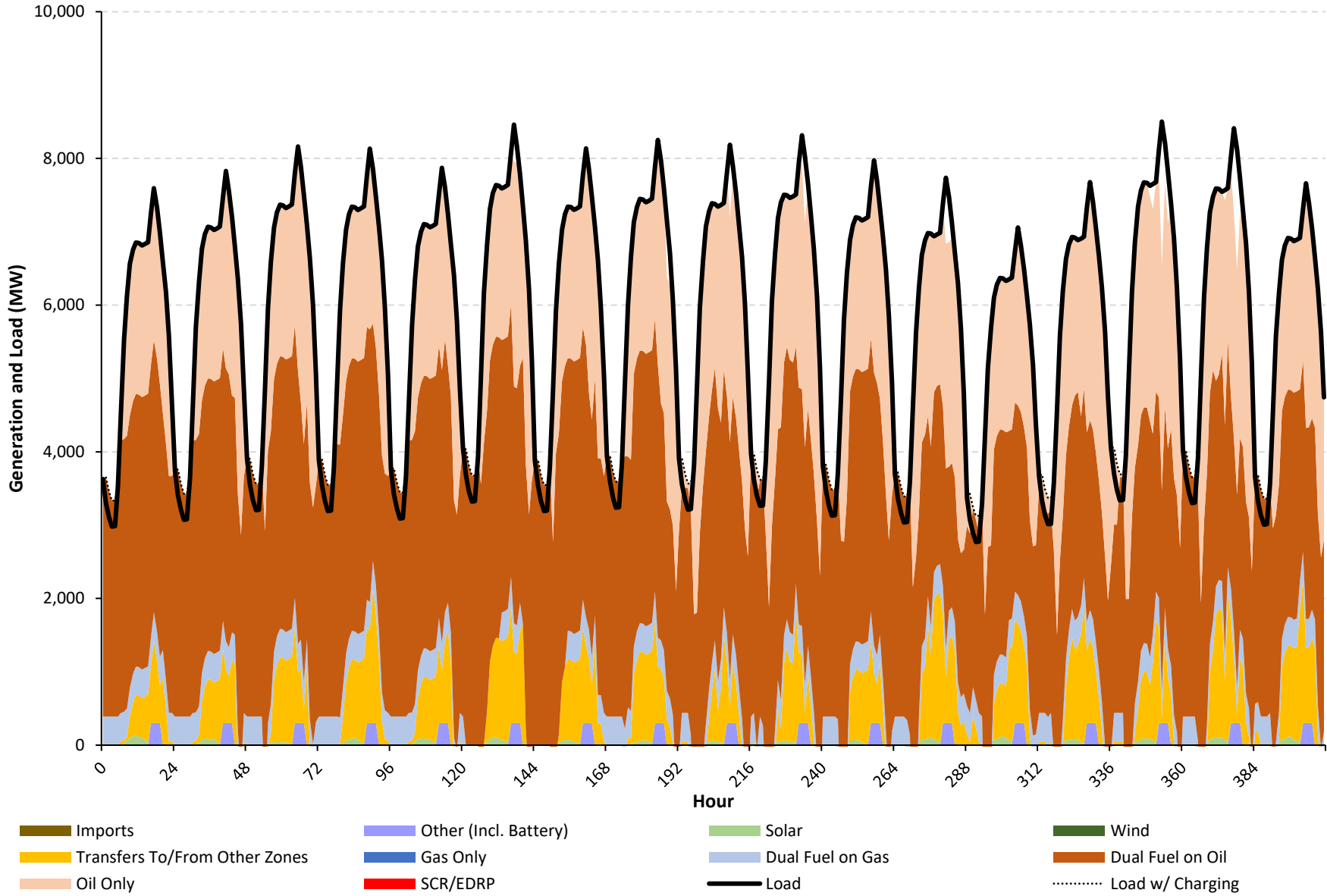
Total MWh of Lost Load



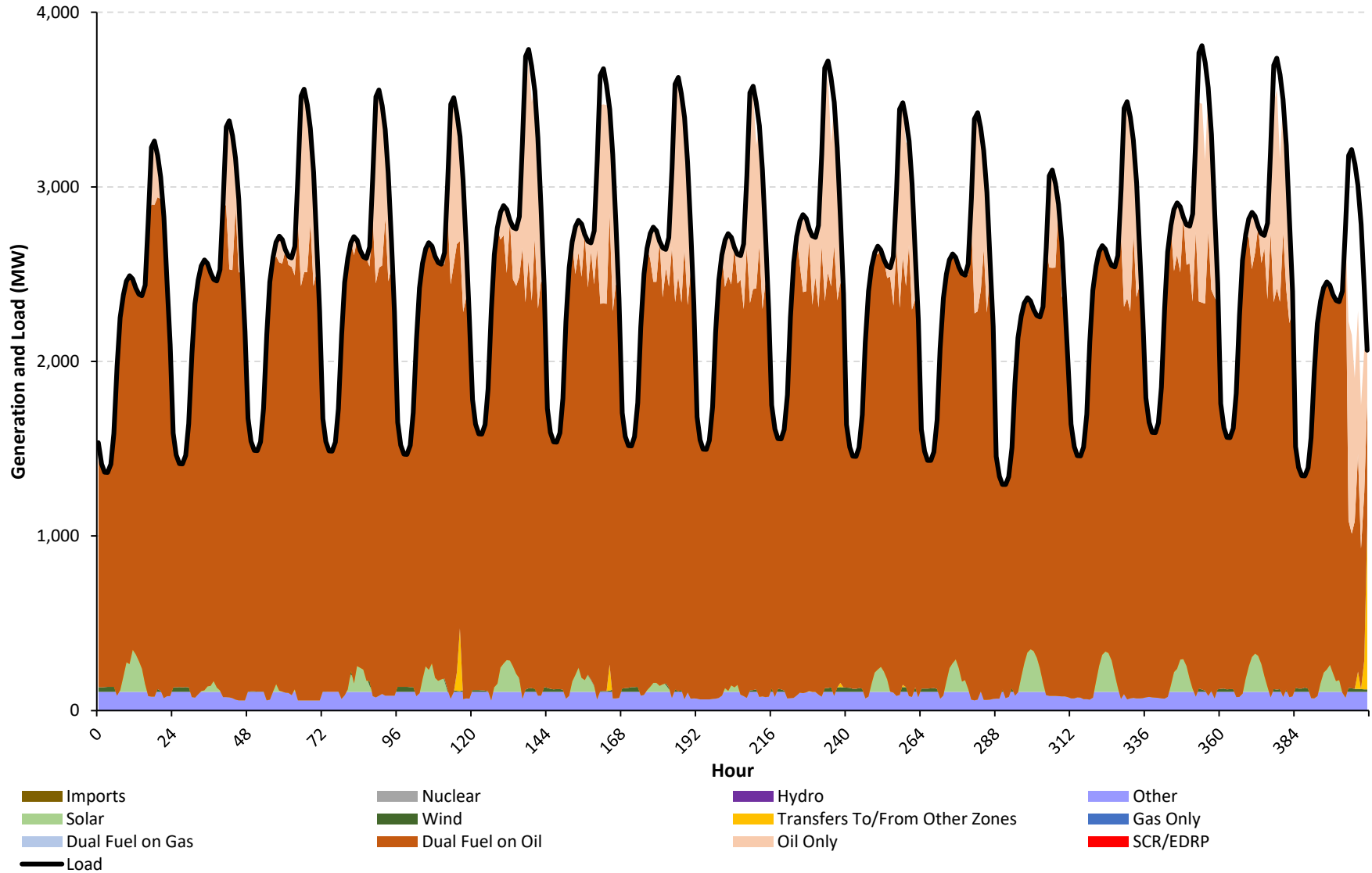
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 4 Nuclear Outage



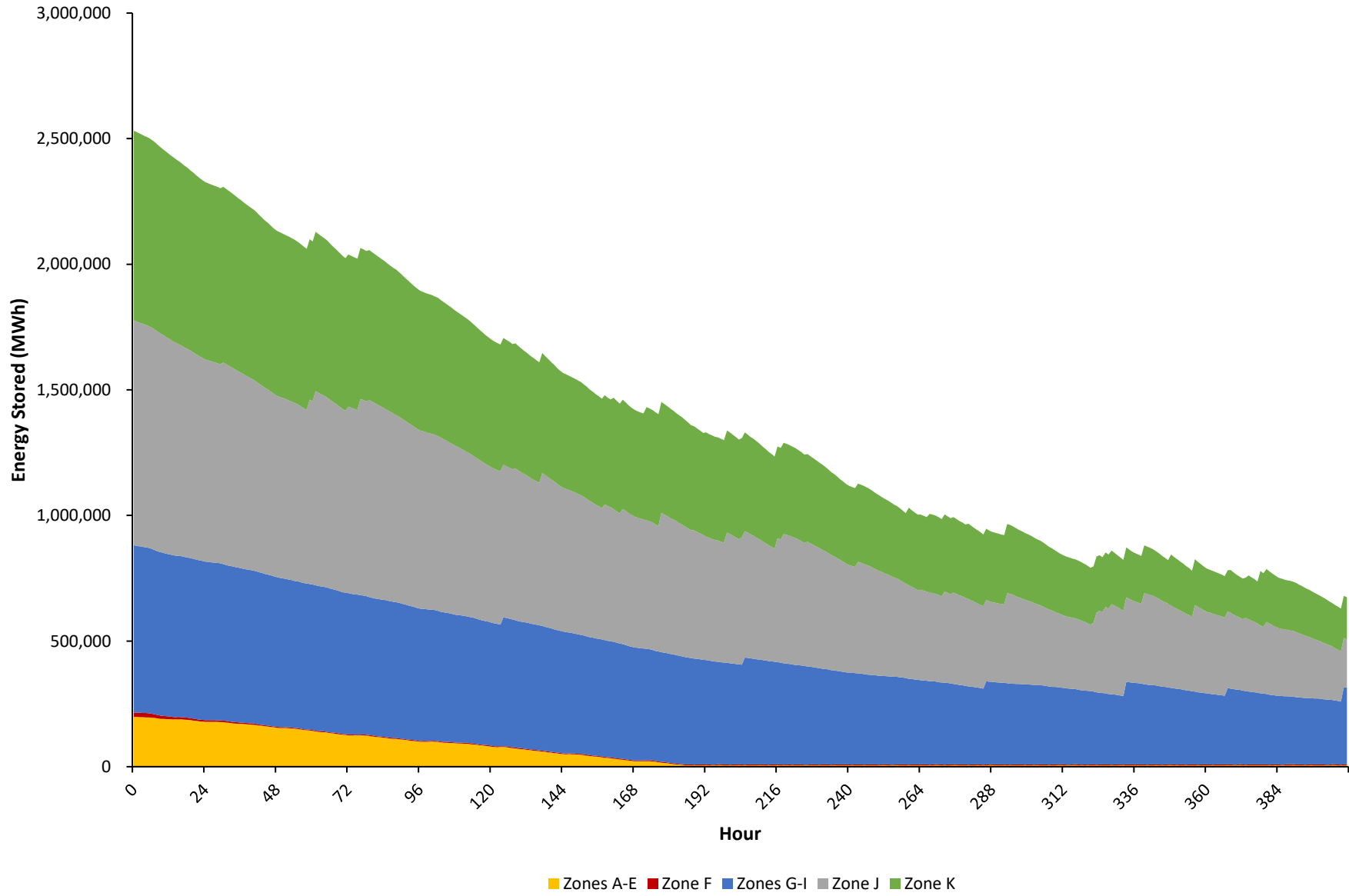
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 4 Nuclear Outage



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 4 Nuclear Outage

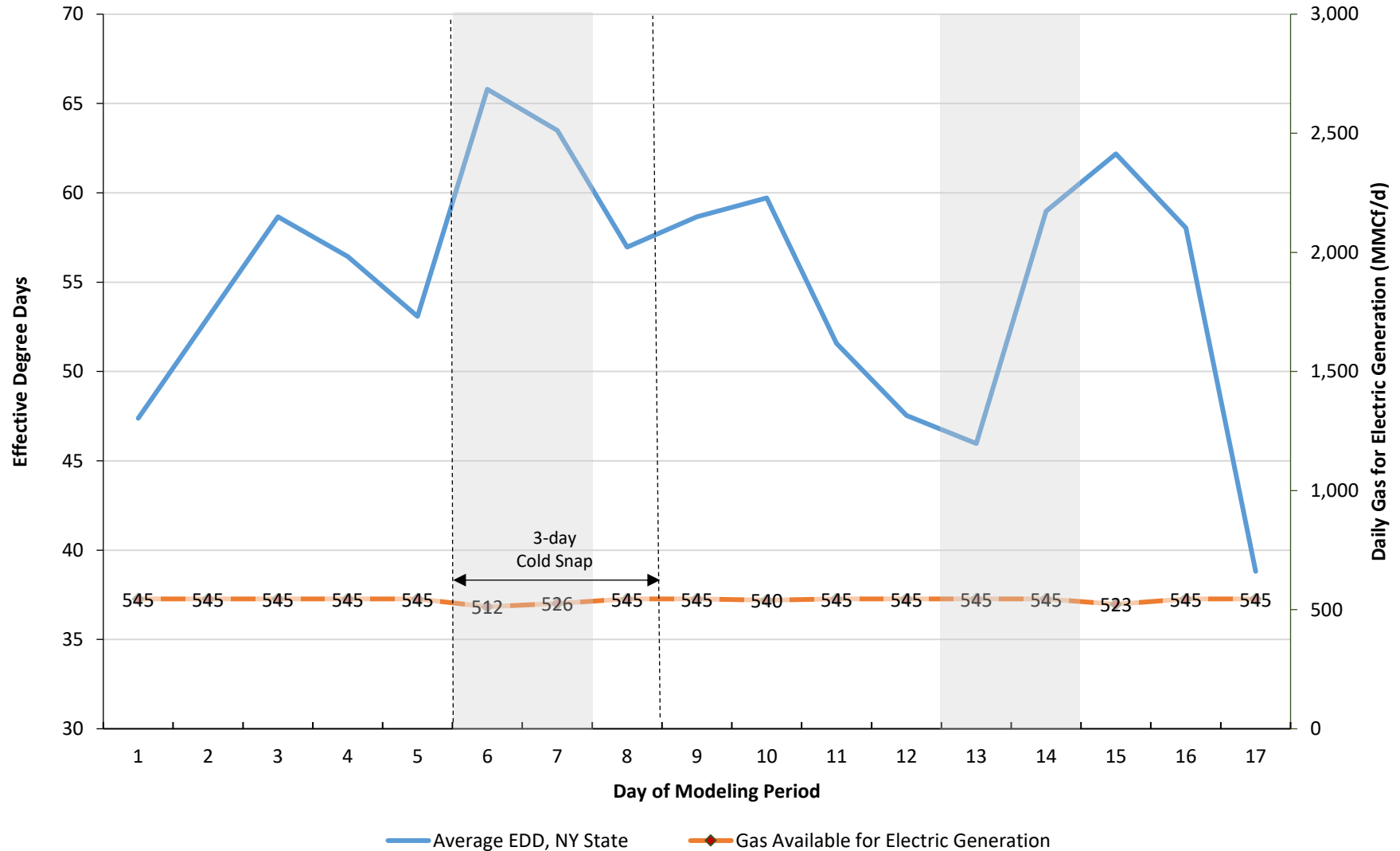


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 4 Nuclear Outage



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

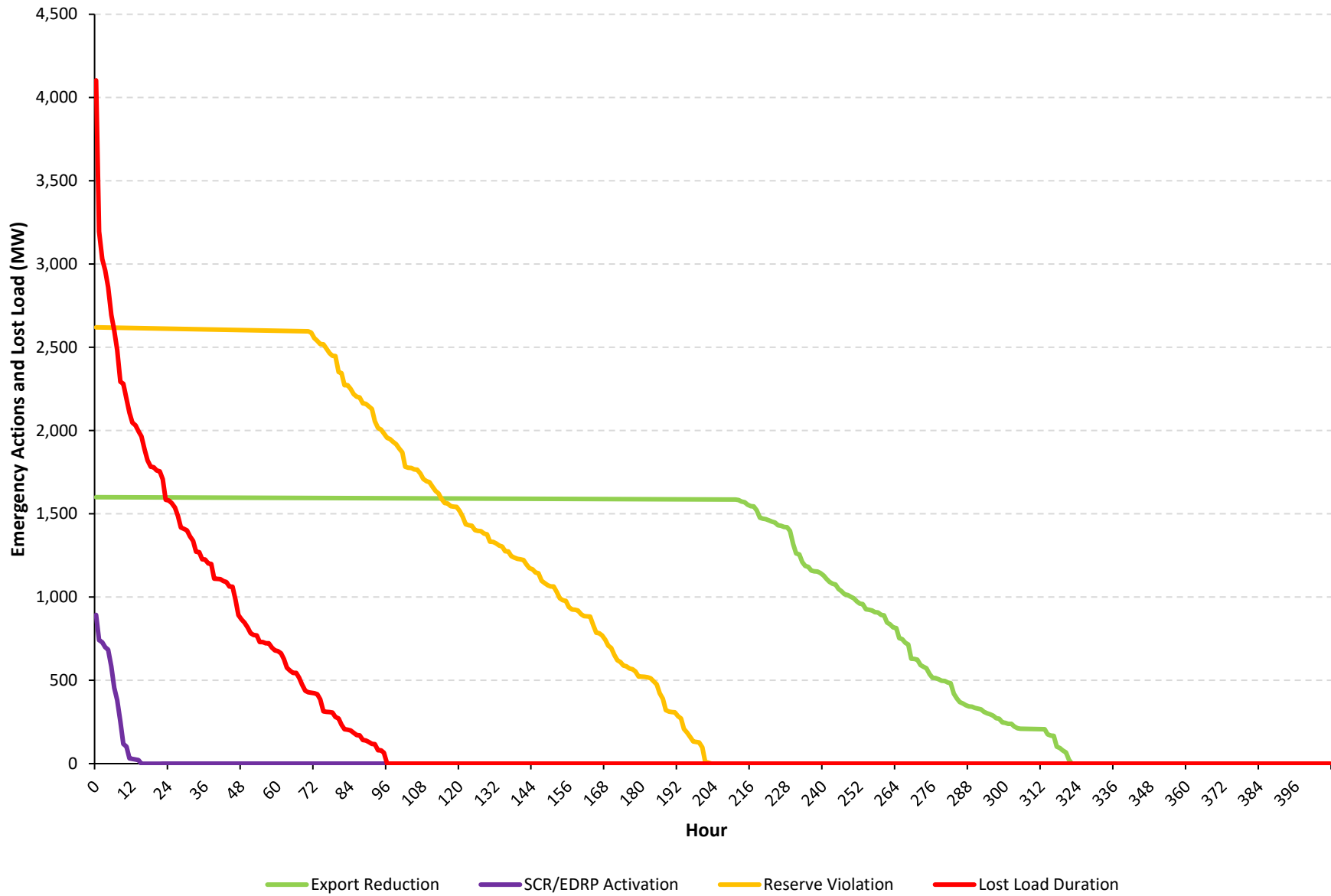
Scenario 8 - PD 4 Nuclear Outage



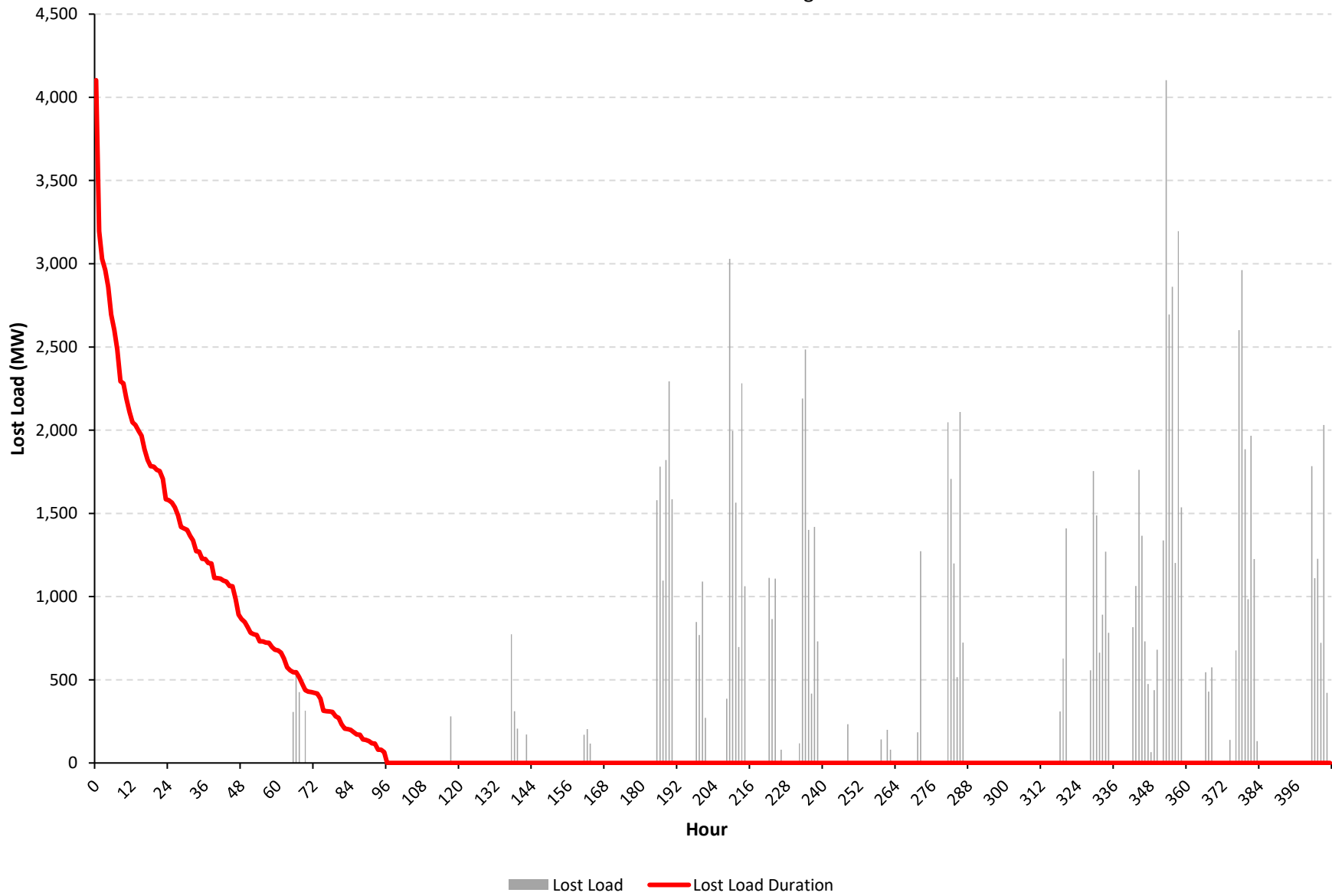
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 4 Nuclear Outage



NYCA Lost Load Duration (MWh) Scenario 8 - PD 4 Nuclear Outage



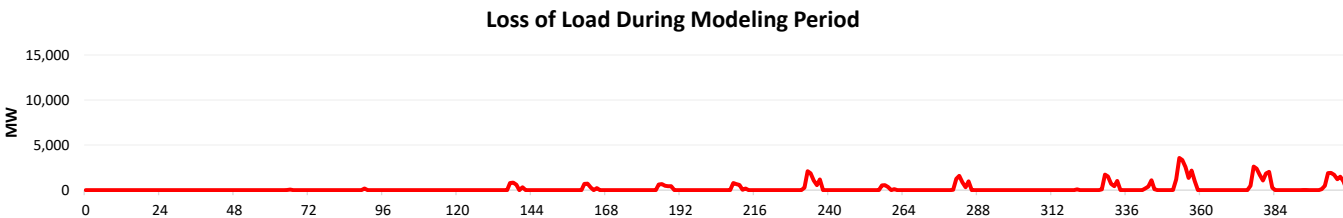
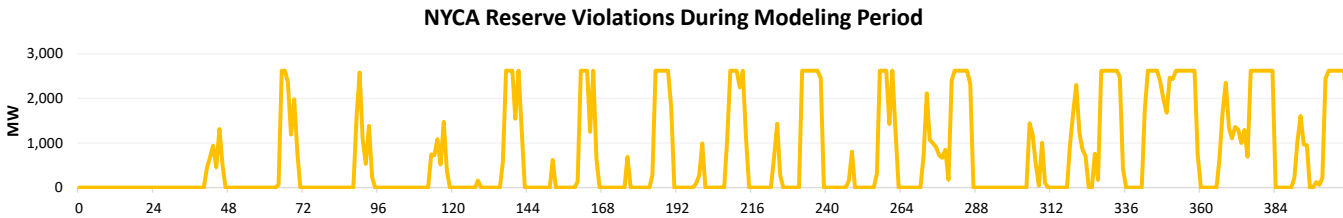
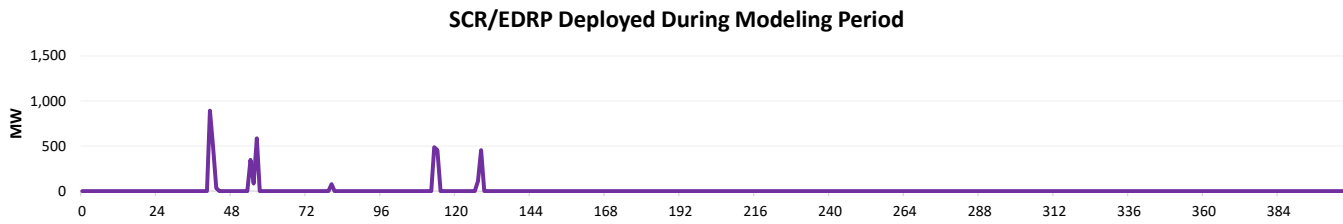
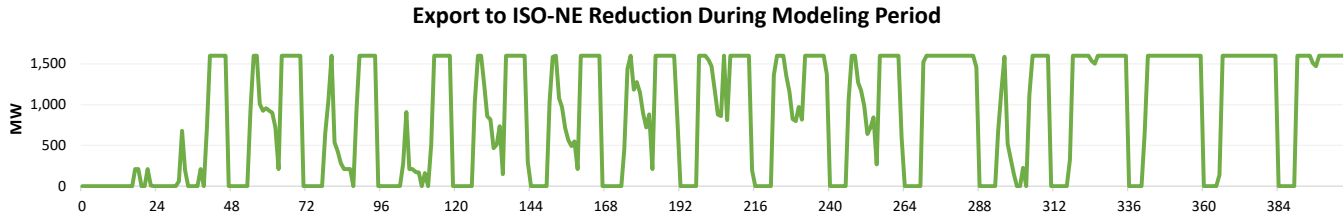
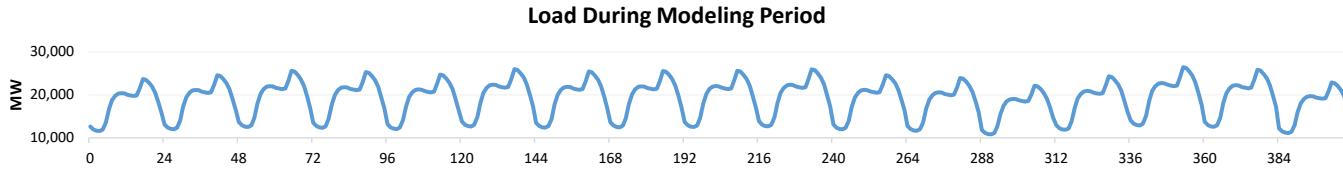
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 5 No Truck Refill

Hourly Results Summary

Case Name: Scenario 8 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	277
Total MWh	354,415
Avg. MW	868.7

SCR Deployment	
Total Hrs.	11
Total MWh	4,012
Avg. MW	9.8

Reserve Violations	
Total Hrs.	169
Total MWh	280,942
Avg. MW	688.6
First Hour with Viol.	41
First Hour, Zone K	41

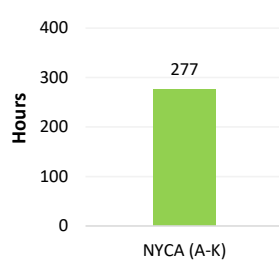
Loss of Load	
Total Hrs.	76
Total MWh	68,196
Avg. MW	167.1
First Hour with Losses	65
First Hour, Zone K	65

Full Period Results Summary

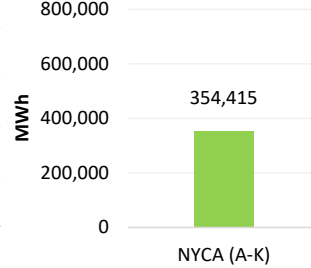
Case Name: Scenario 8 - PD 5 No Truck Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Trucks
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

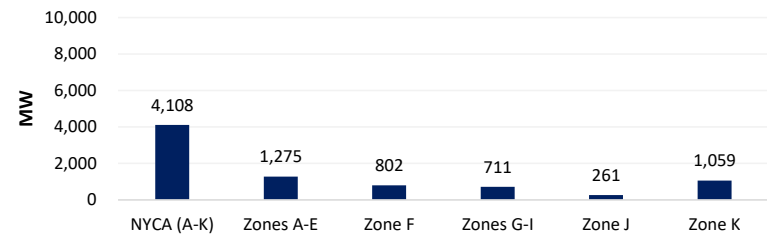
Hours Exports Reduced



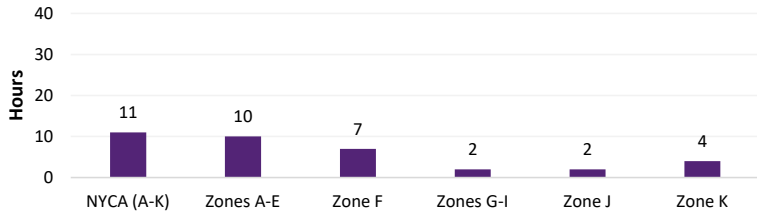
Total MWh of Exports Reduced



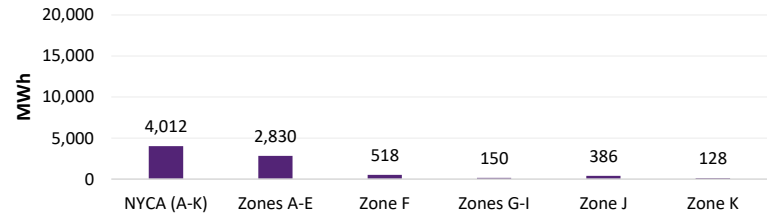
Average Capacity Not Available Due to Exhausted Fuel Inventory



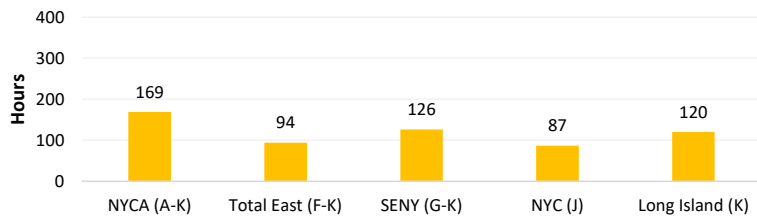
Hours SCR/EDRP Deployed



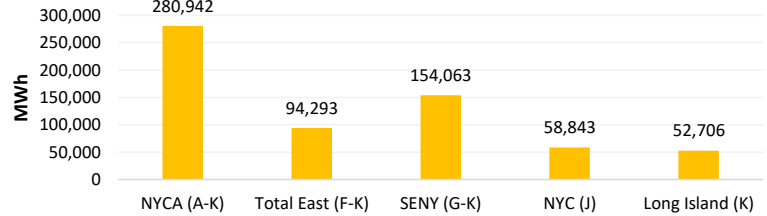
Total MWh SCR/EDRP Deployed



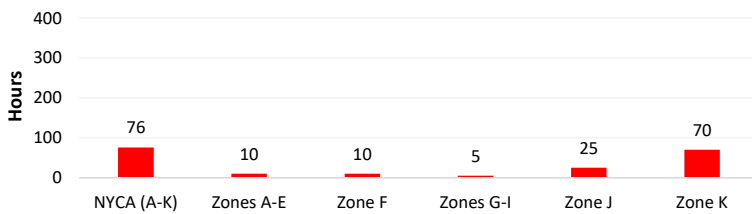
Hours with Reserve Violations



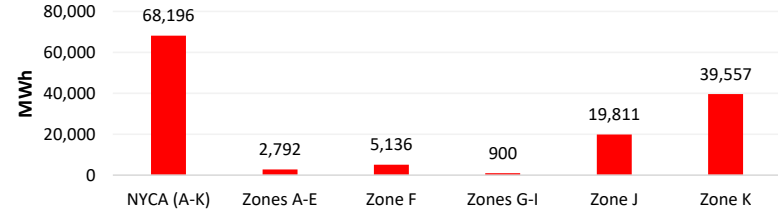
Total MWh of Reserve Violations



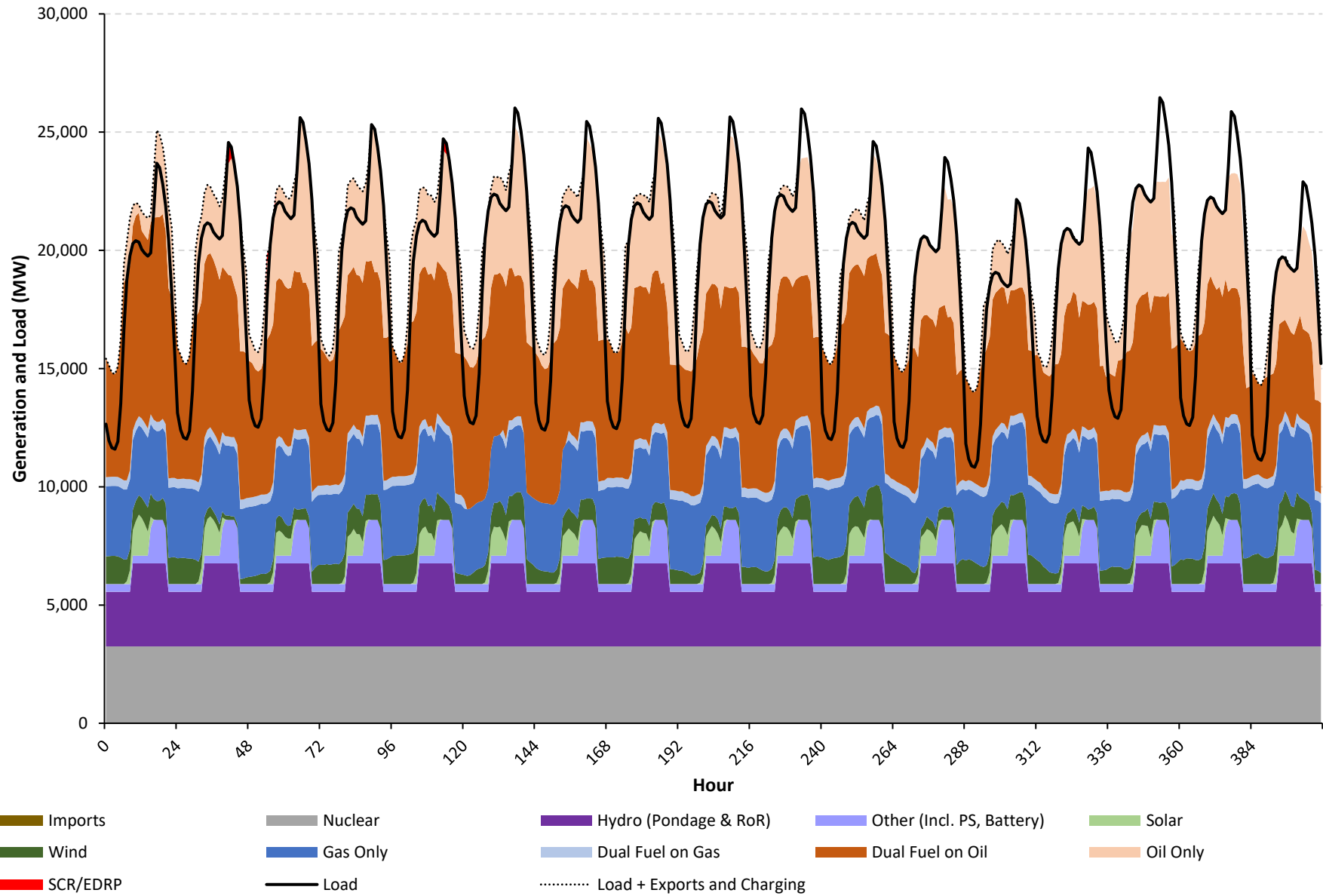
Hours with Loss of Load



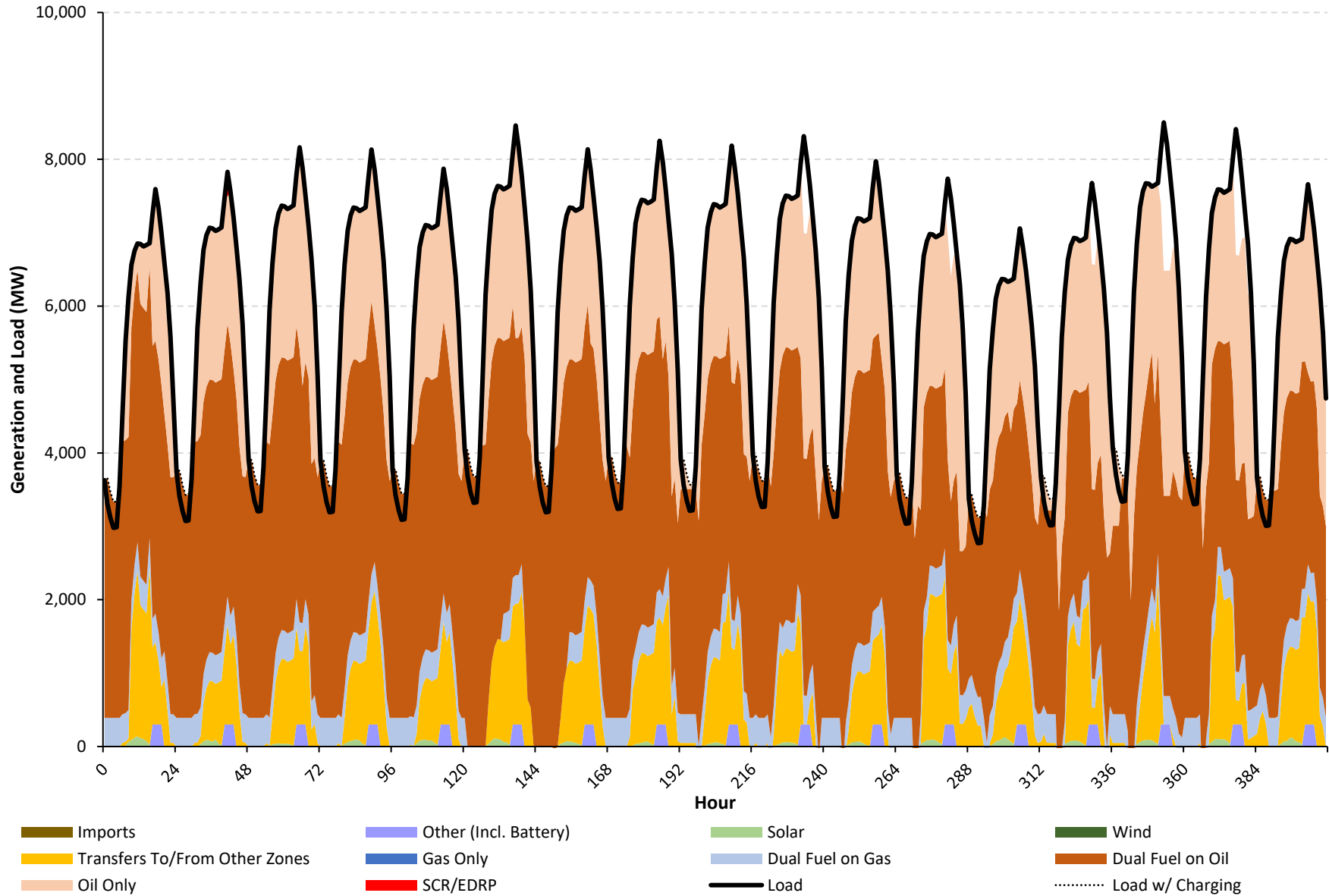
Total MWh of Lost Load



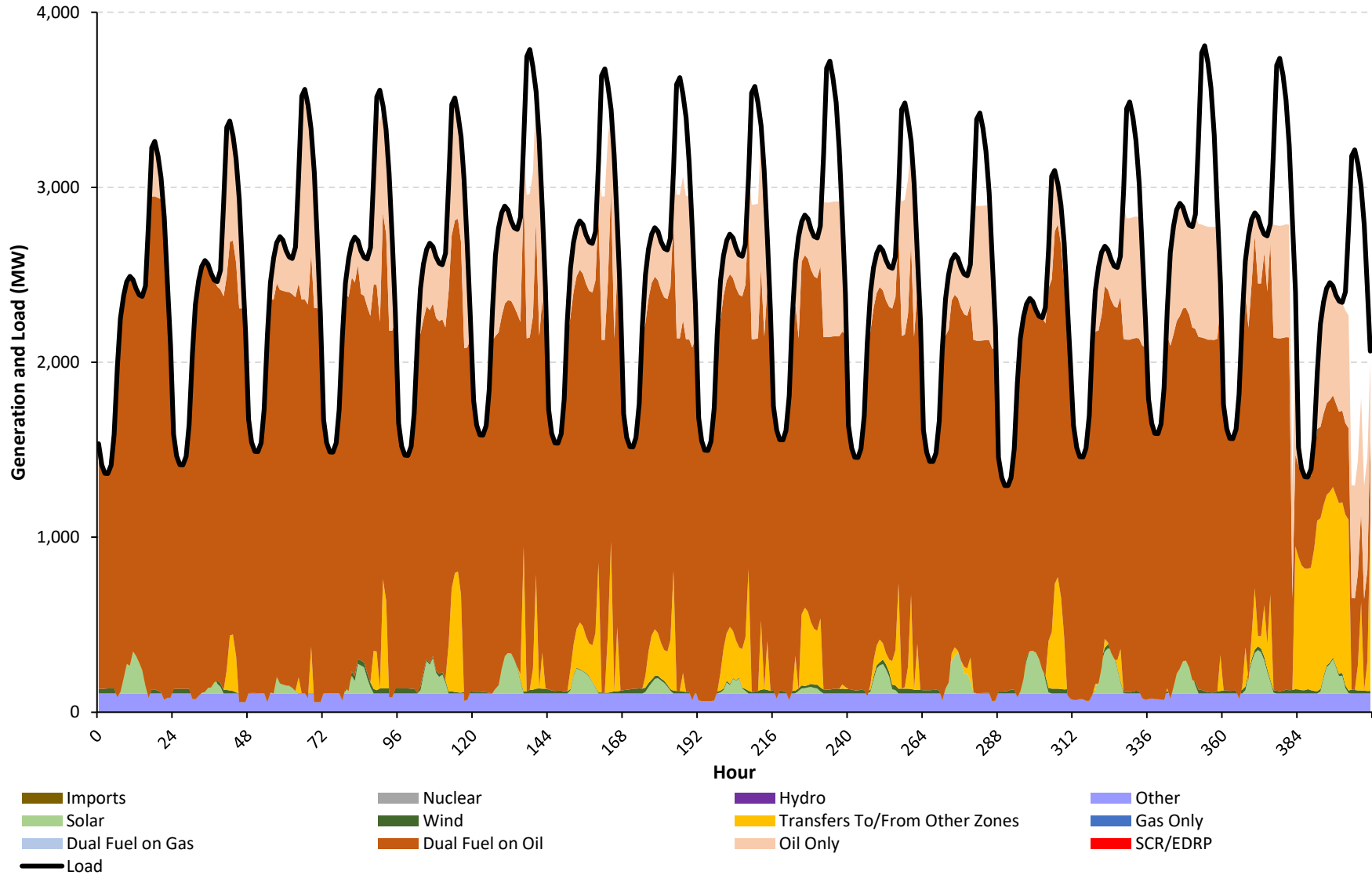
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 5 No Truck Refill



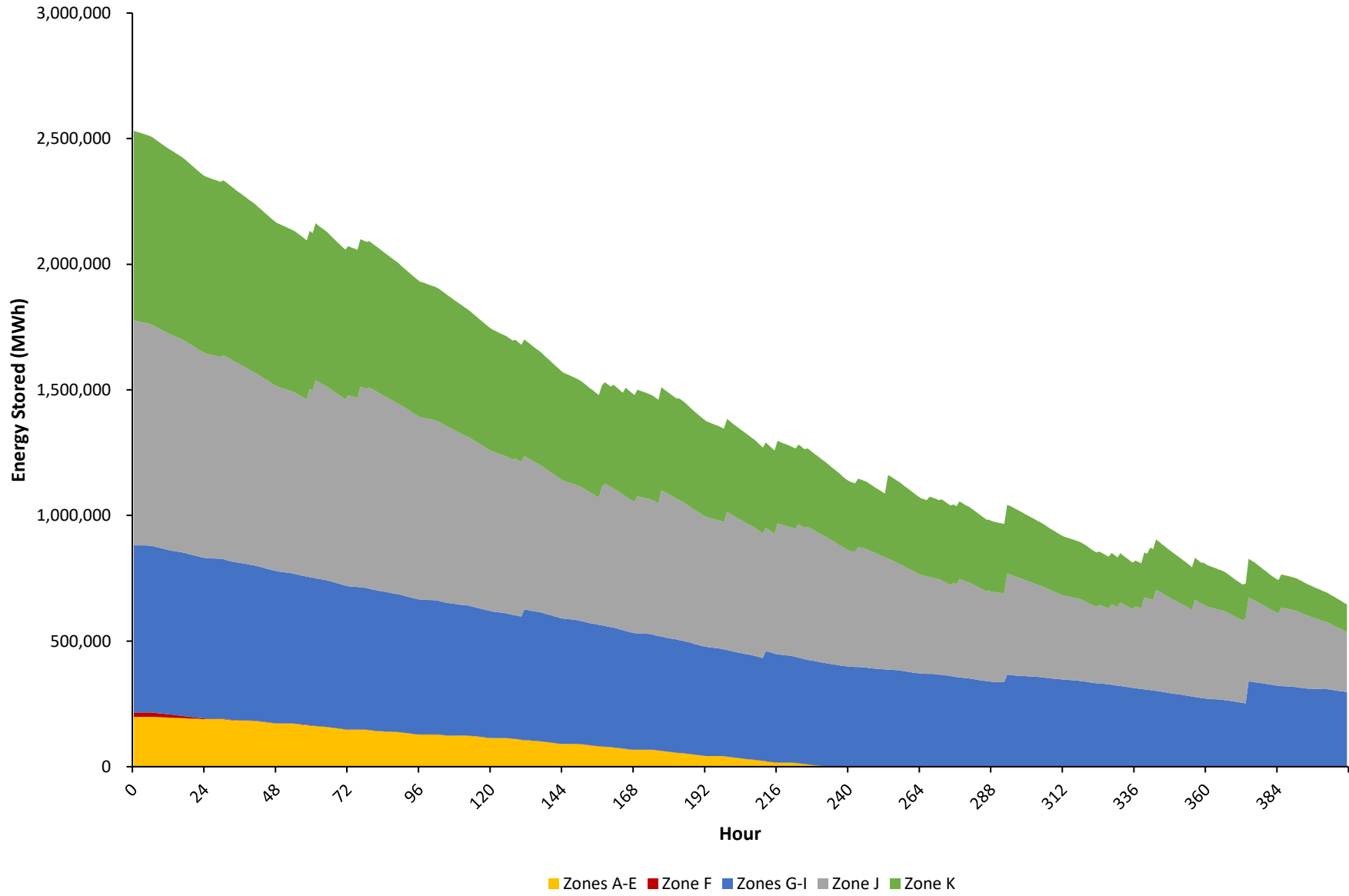
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 5 No Truck Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 5 No Truck Refill

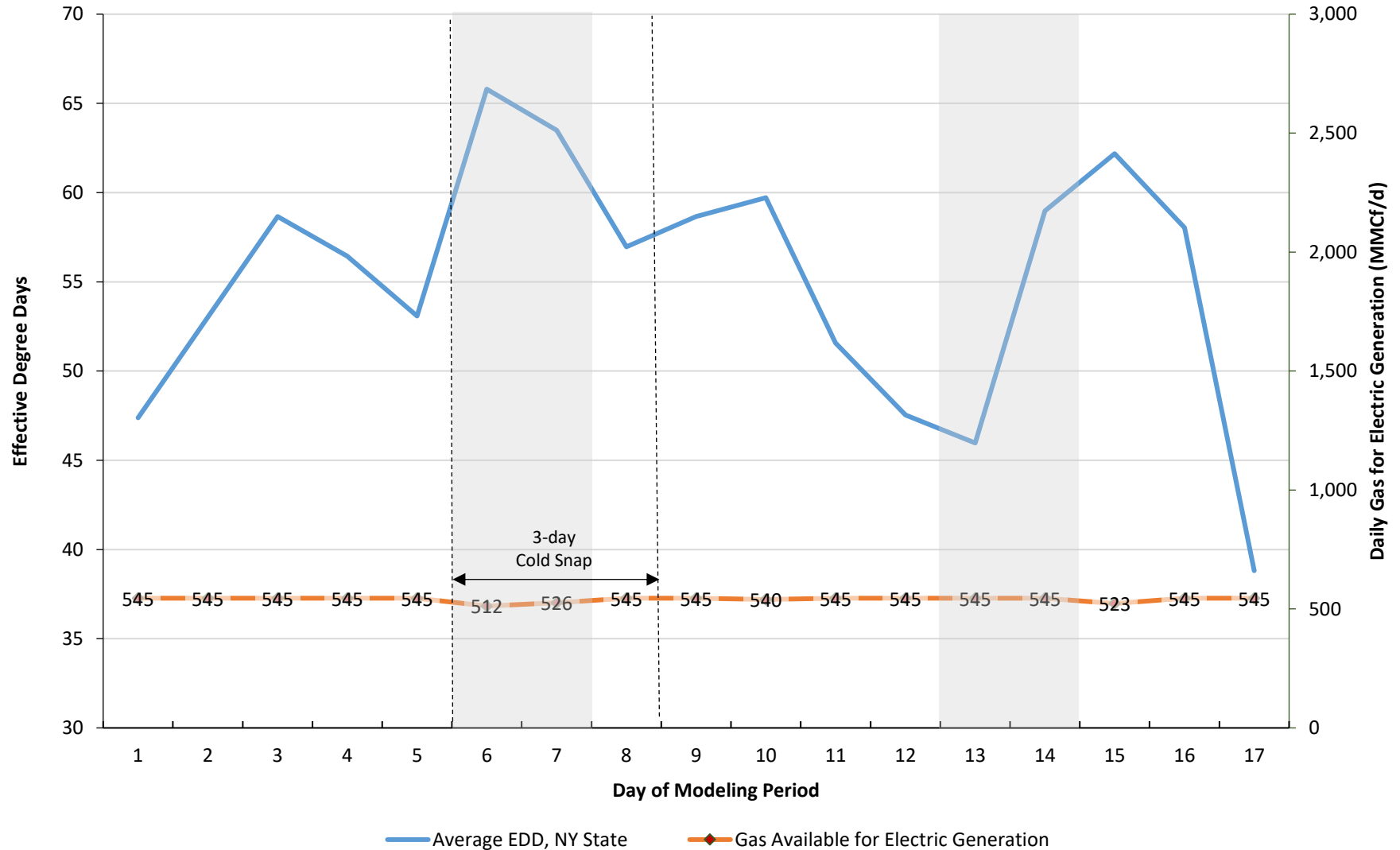


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 5 No Truck Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

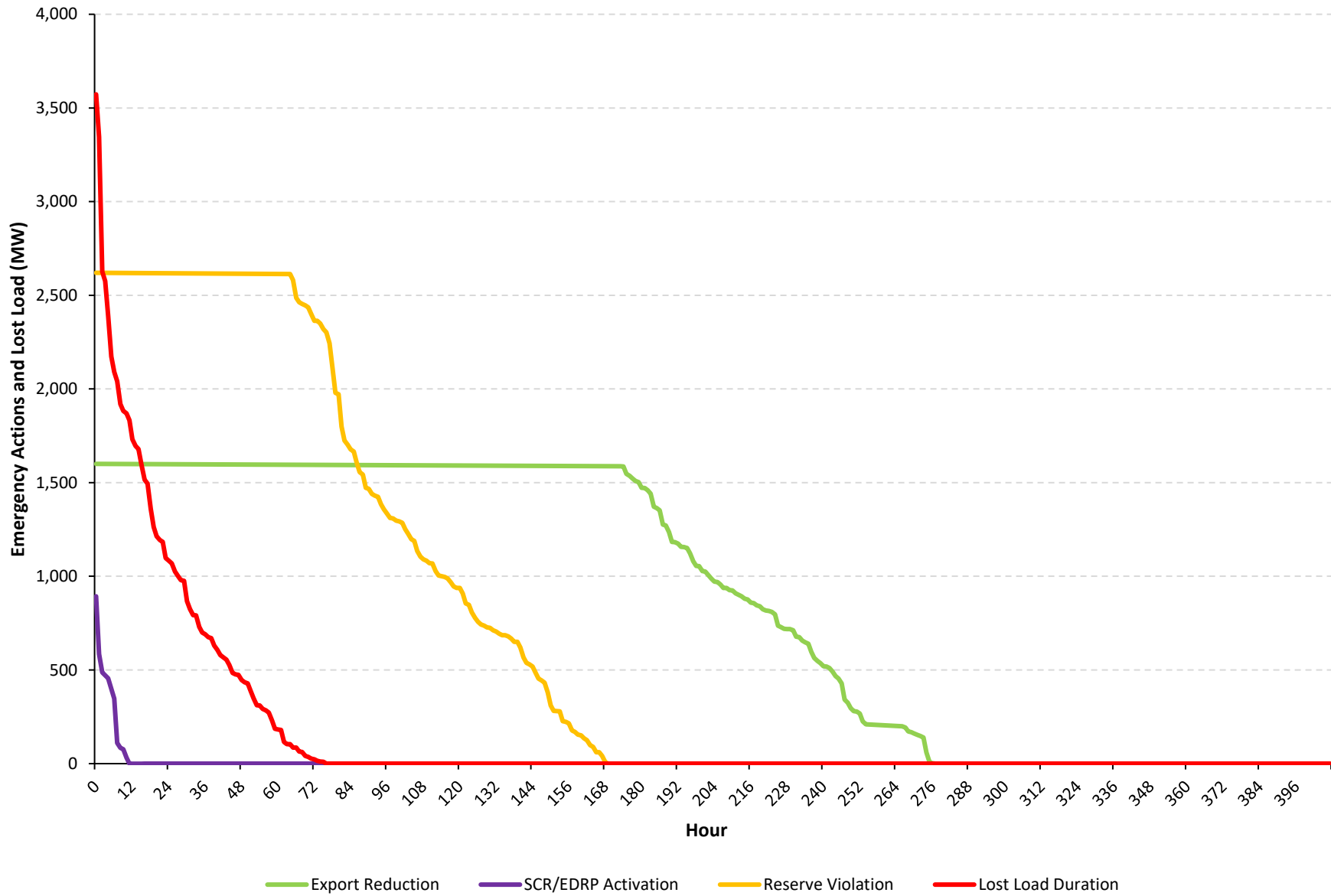
Scenario 8 - PD 5 No Truck Refill



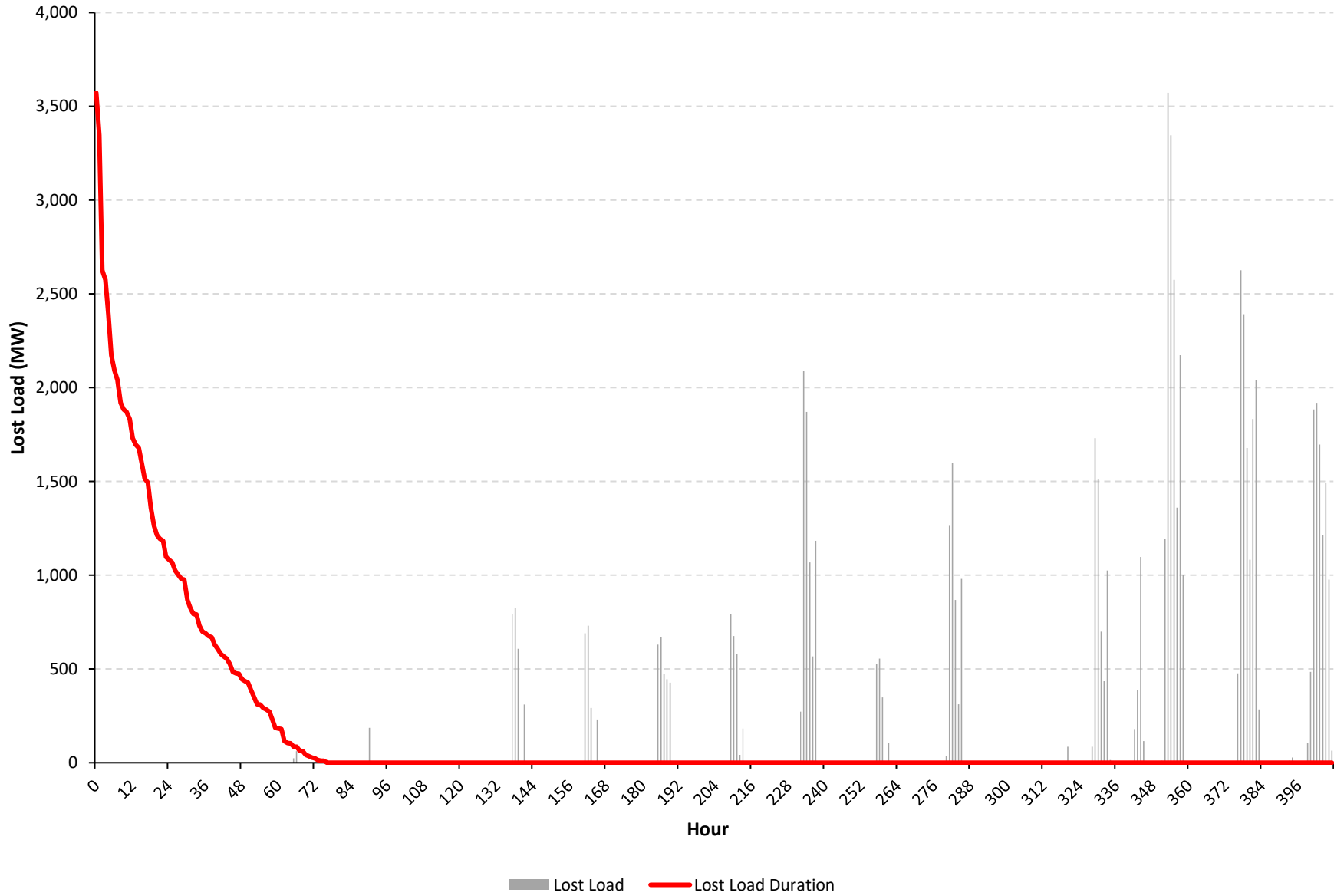
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 5 No Truck Refill



NYCA Lost Load Duration (MWh) Scenario 8 - PD 5 No Truck Refill



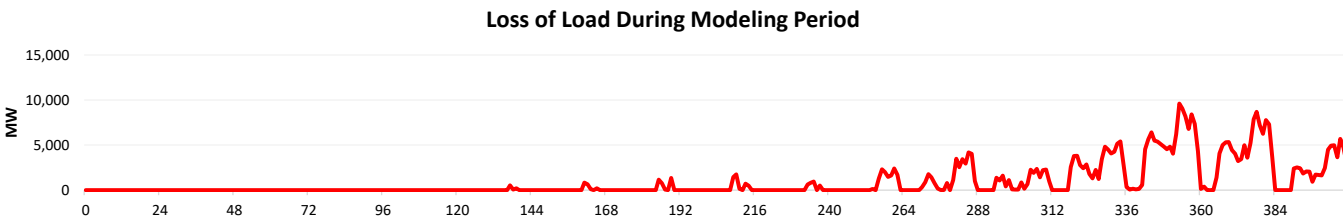
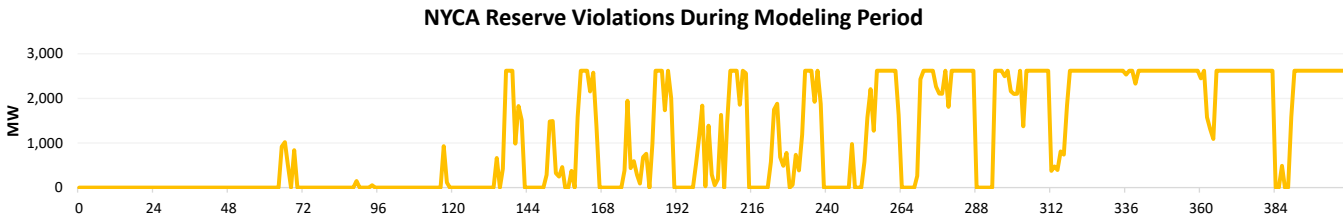
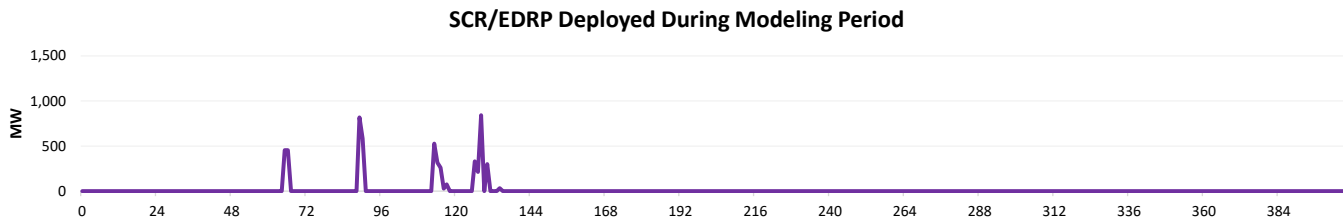
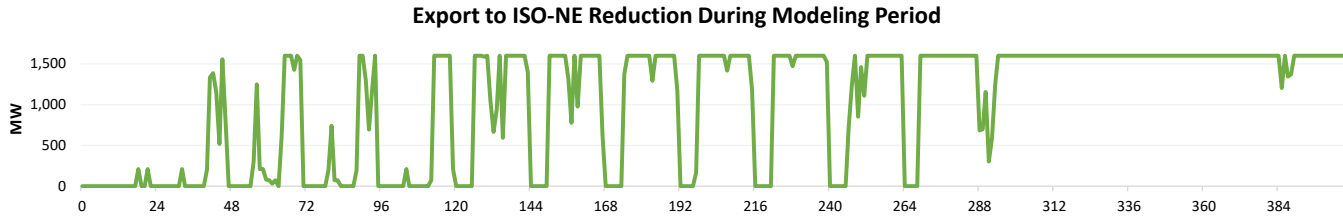
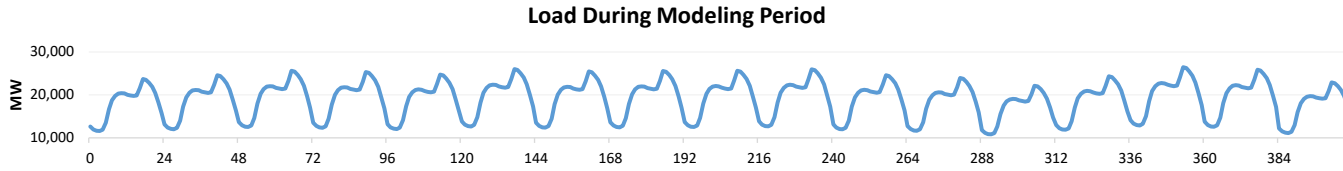
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 6 No Barge Refill

Hourly Results Summary

Case Name: Scenario 8 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	293
Total MWh	418,180
Avg. MW	1,025.0

SCR Deployment	
Total Hrs.	14
Total MWh	5,234
Avg. MW	12.8

Reserve Violations	
Total Hrs.	220
Total MWh	442,958
Avg. MW	1,085.7
First Hour with Viol.	65
First Hour, Zone K	65

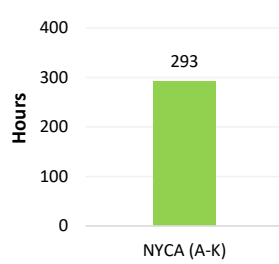
Loss of Load	
Total Hrs.	144
Total MWh	400,149
Avg. MW	980.8
First Hour with Losses	137
First Hour, Zone K	137

Full Period Results Summary

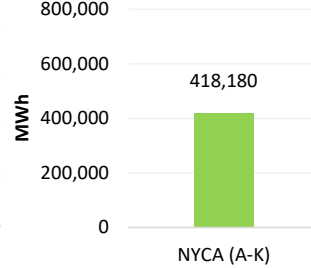
Case Name: Scenario 8 - PD 6 No Barge Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Barge
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

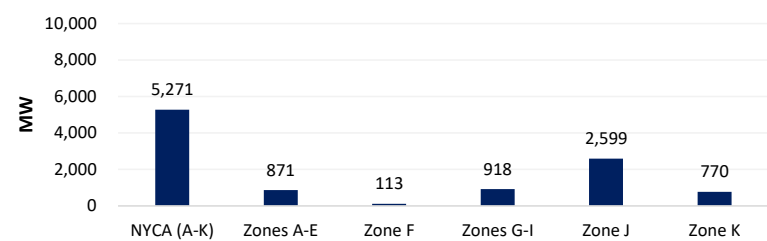
Hours Exports Reduced



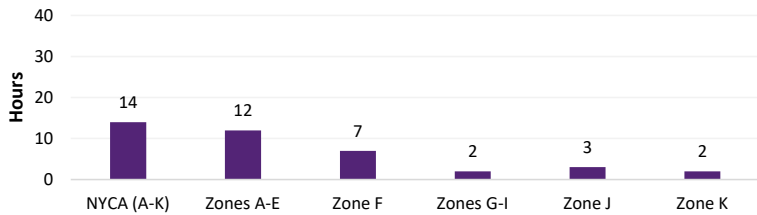
Total MWh of Exports Reduced



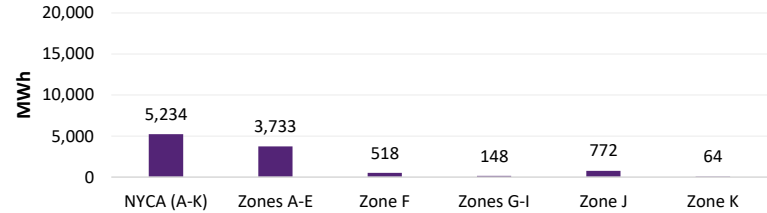
Average Capacity Not Available Due to Exhausted Fuel Inventory



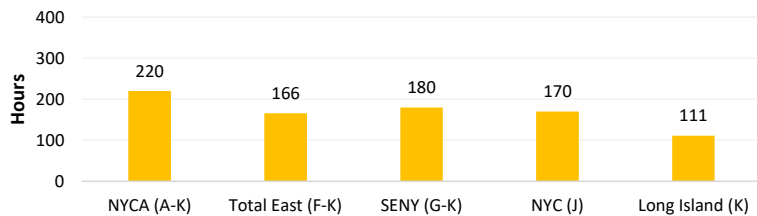
Hours SCR/EDRP Deployed



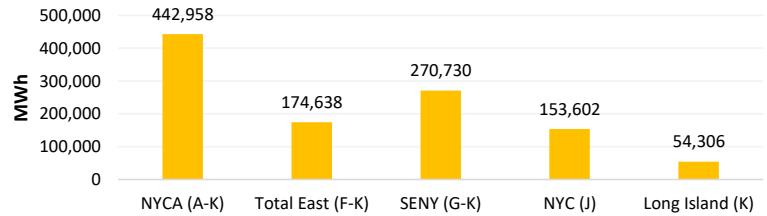
Total MWh SCR/EDRP Deployed



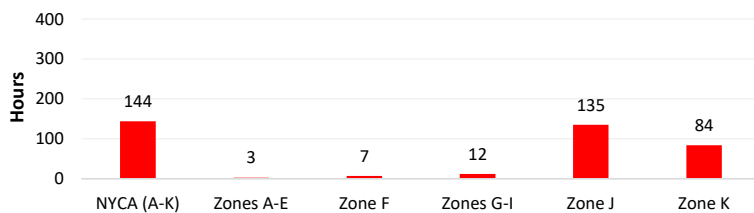
Hours with Reserve Violations



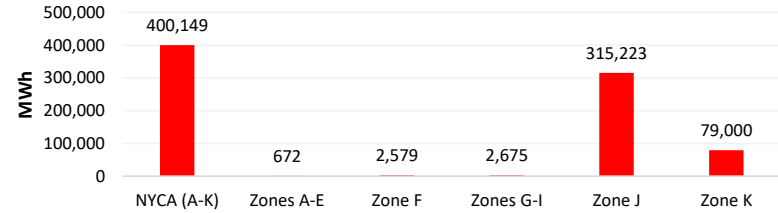
Total MWh of Reserve Violations



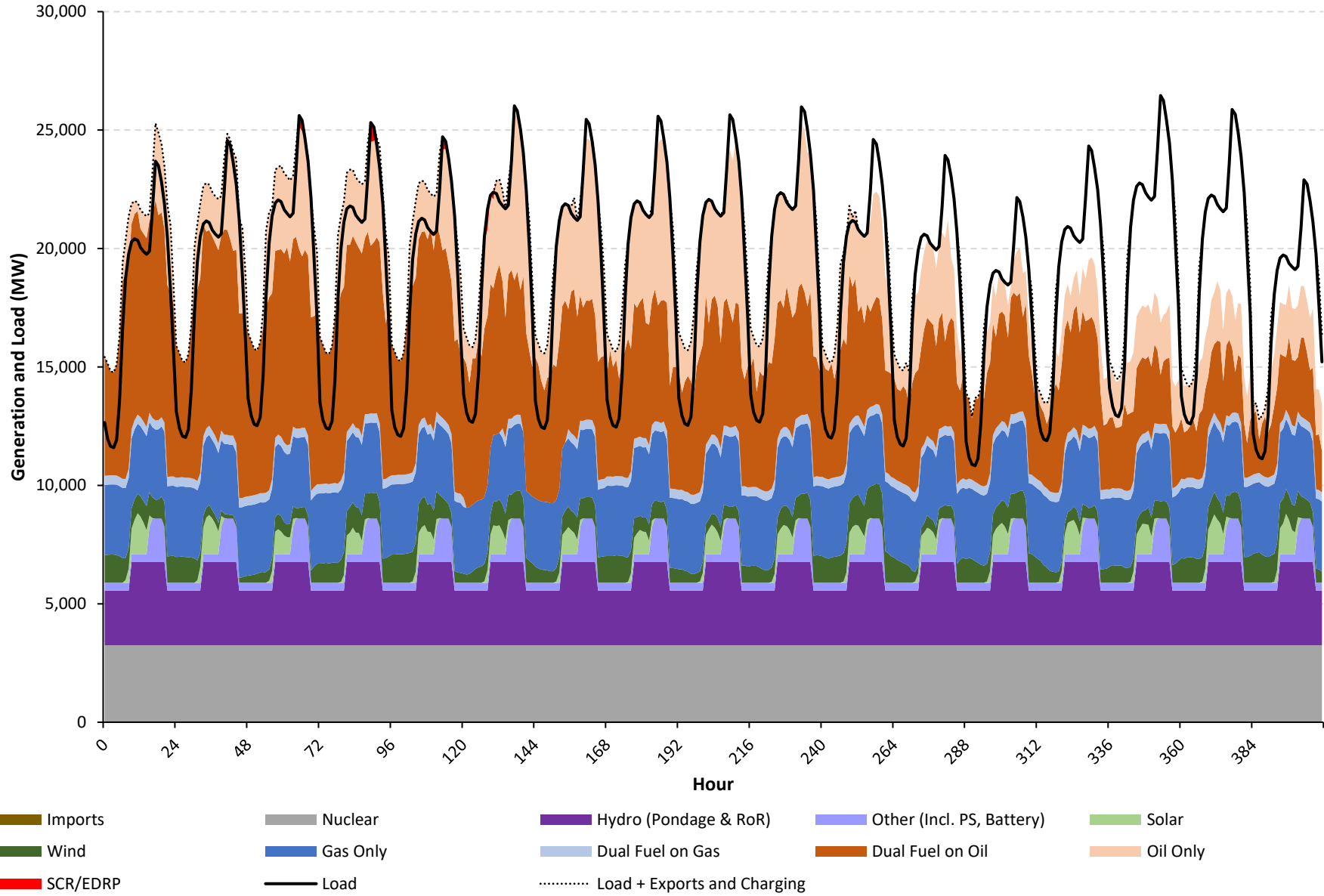
Hours with Loss of Load



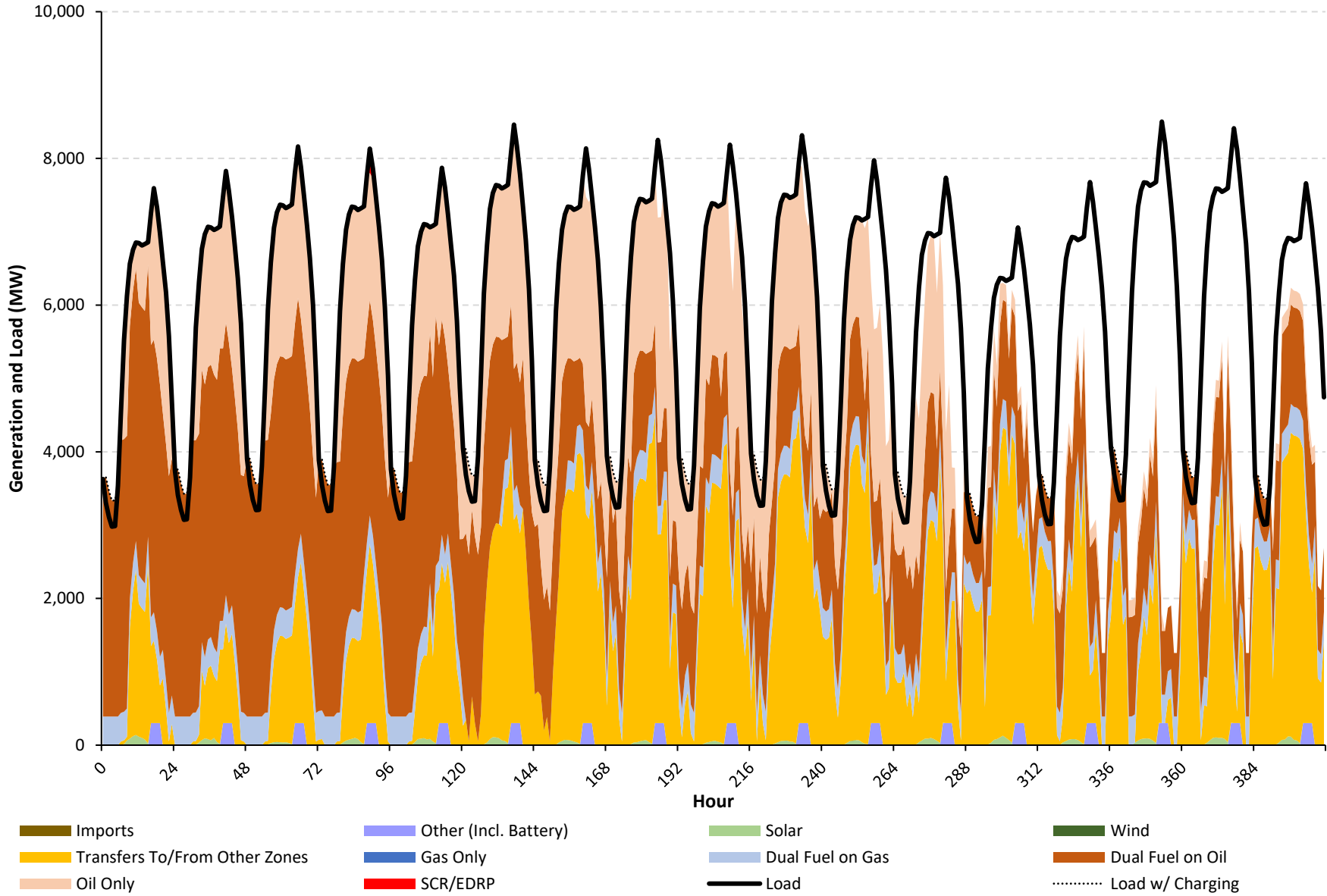
Total MWh of Lost Load



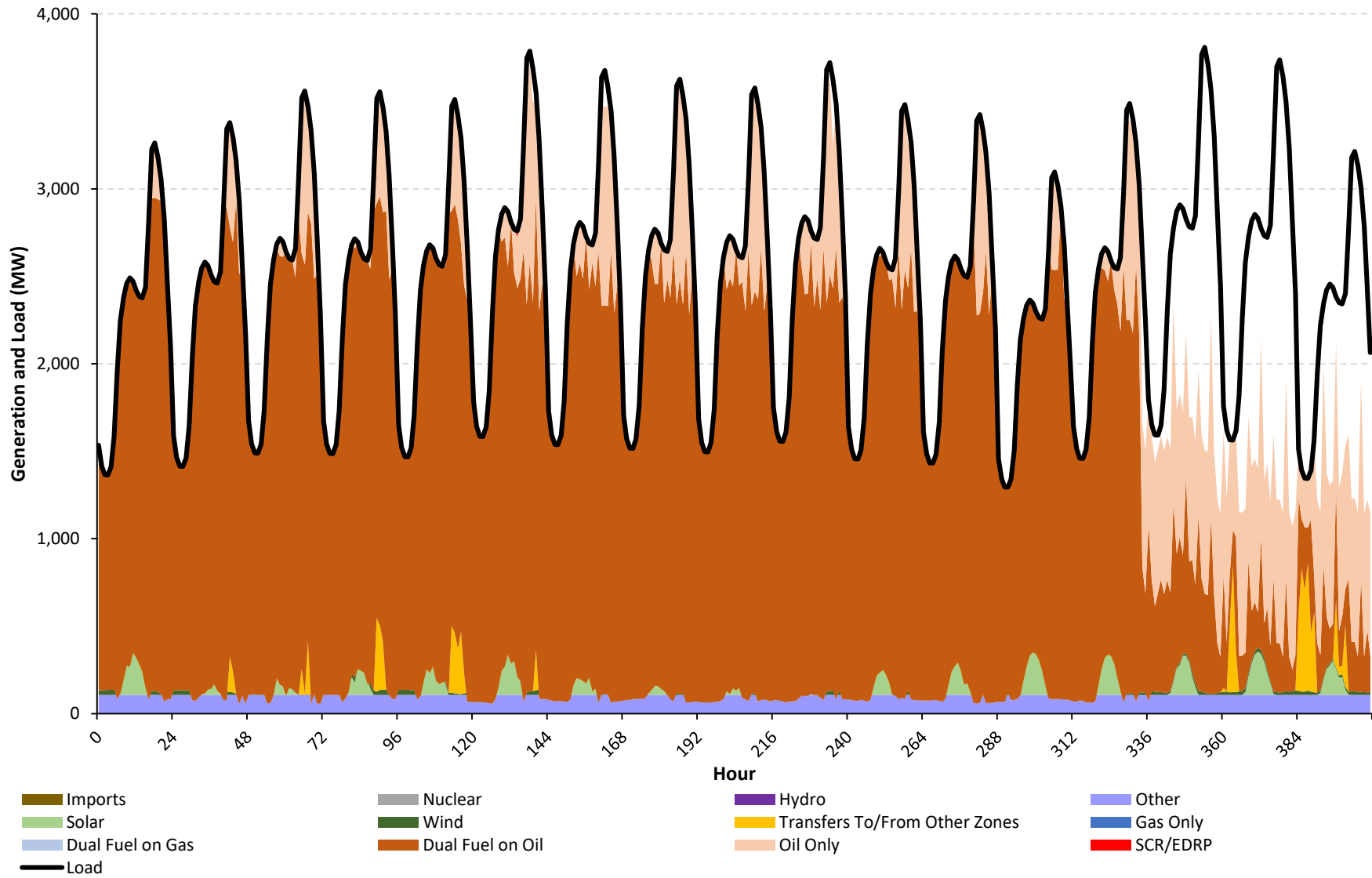
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 6 No Barge Refill



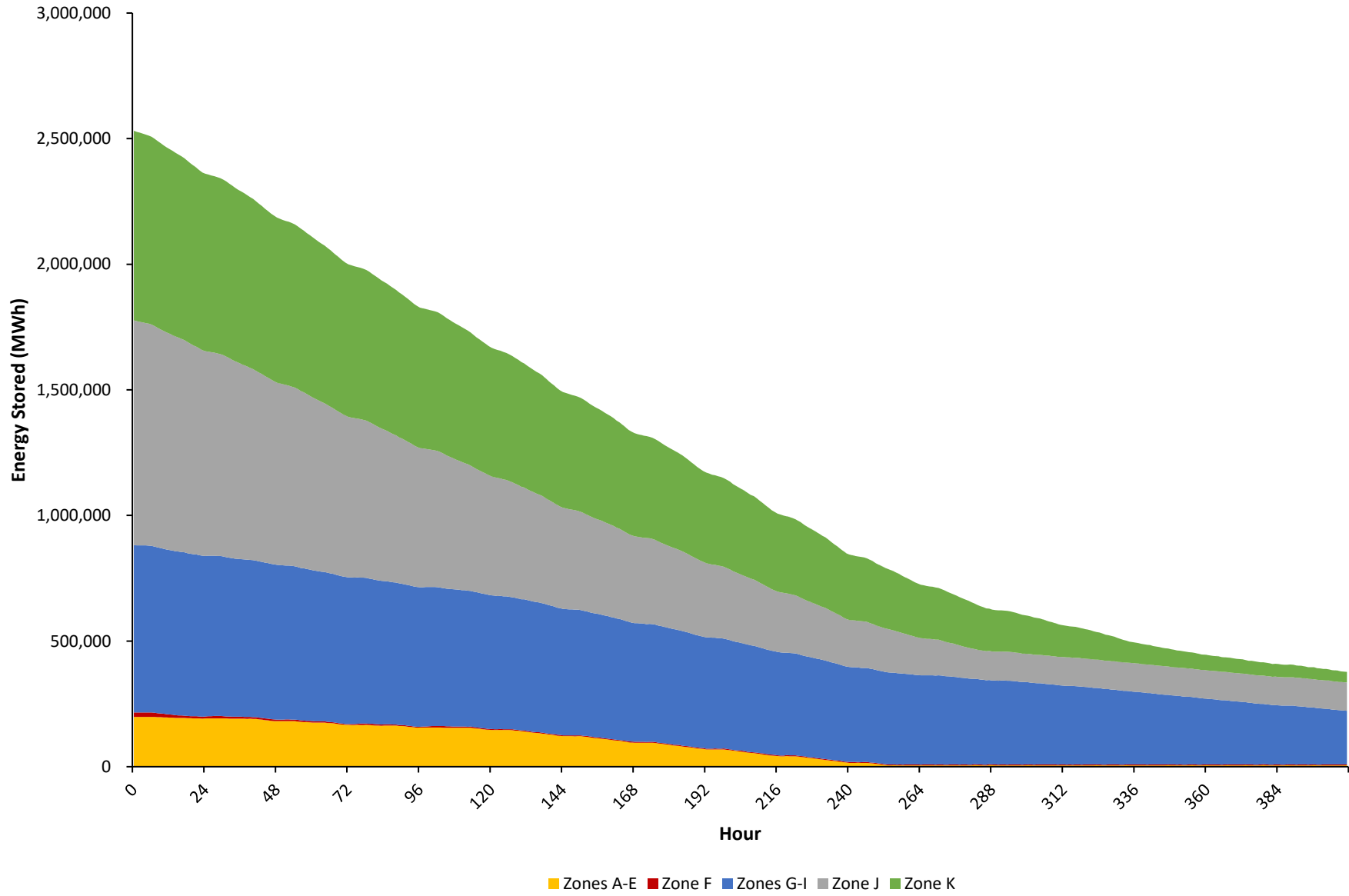
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 6 No Barge Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 6 No Barge Refill

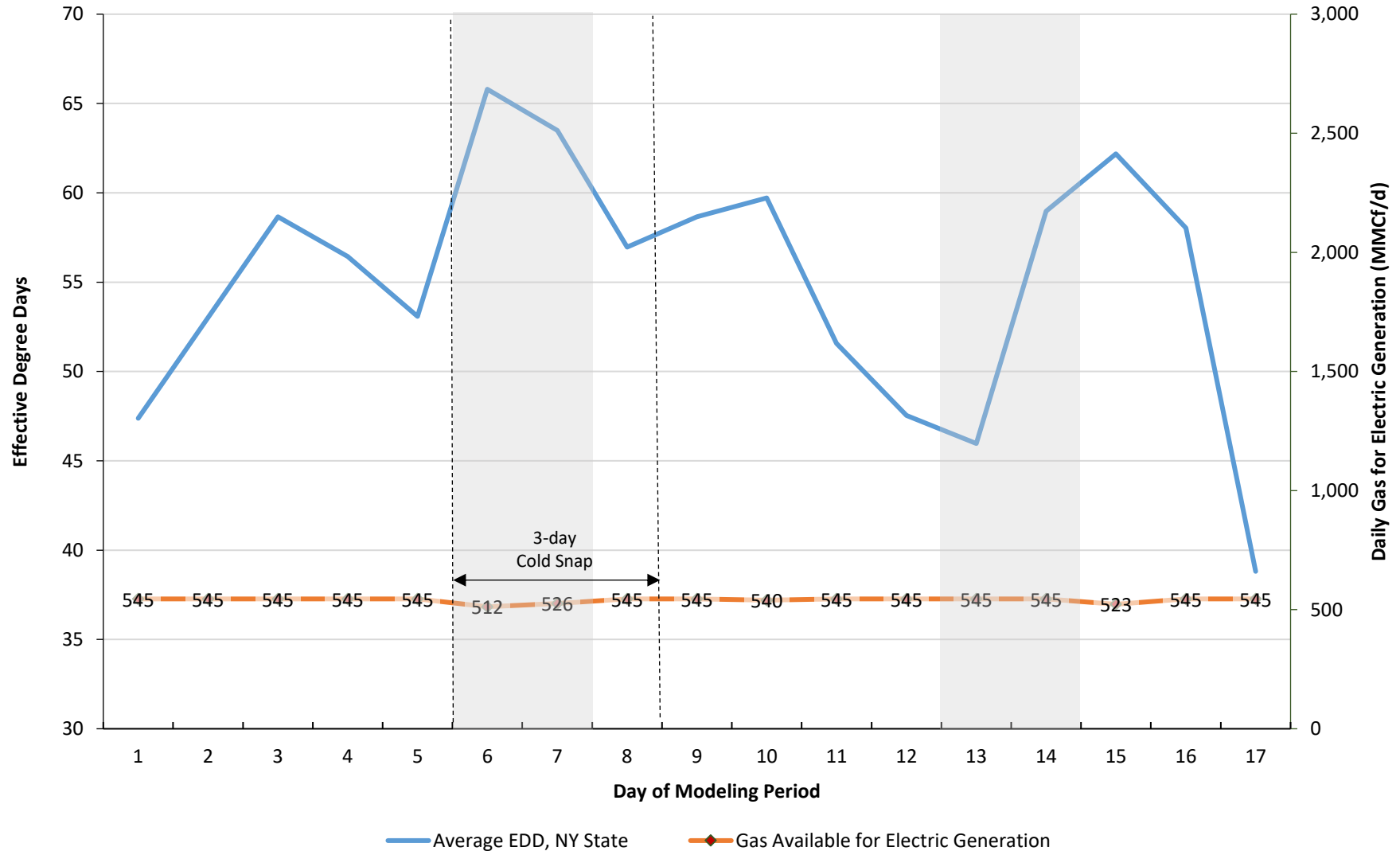


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 6 No Barge Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

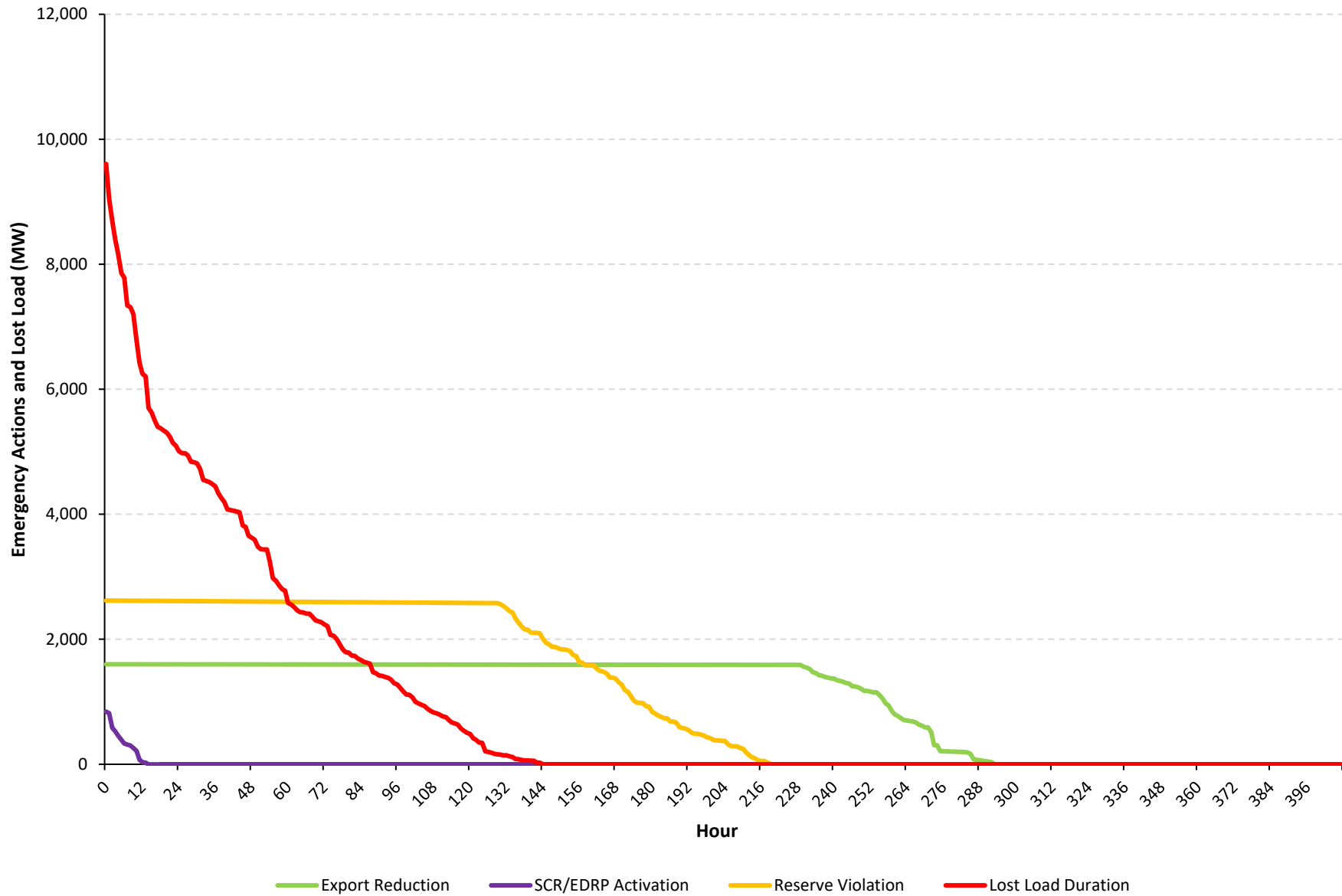
Scenario 8 - PD 6 No Barge Refill



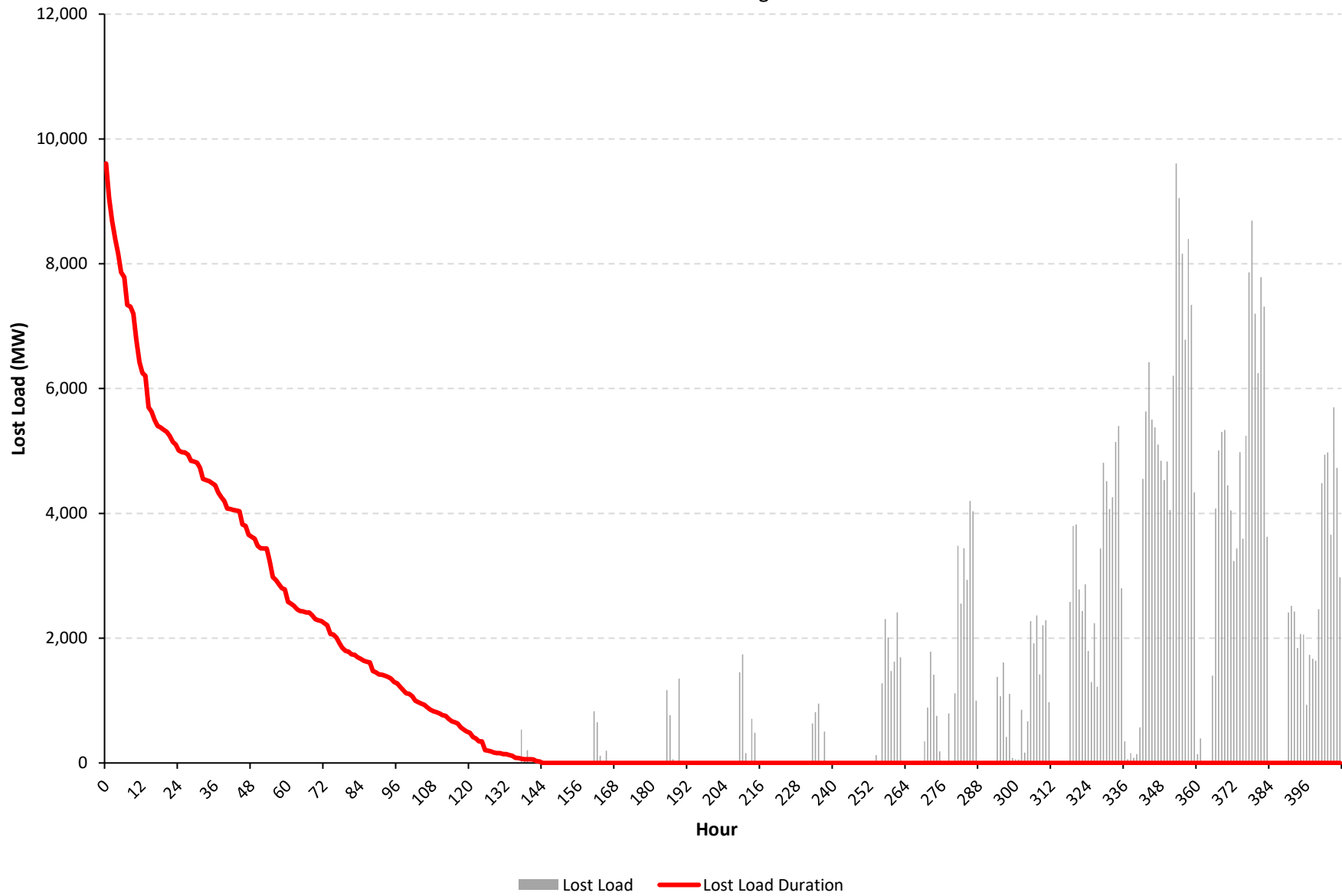
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 6 No Barge Refill



NYCA
Lost Load Duration (MWh)
Scenario 8 - PD 6 No Barge Refill



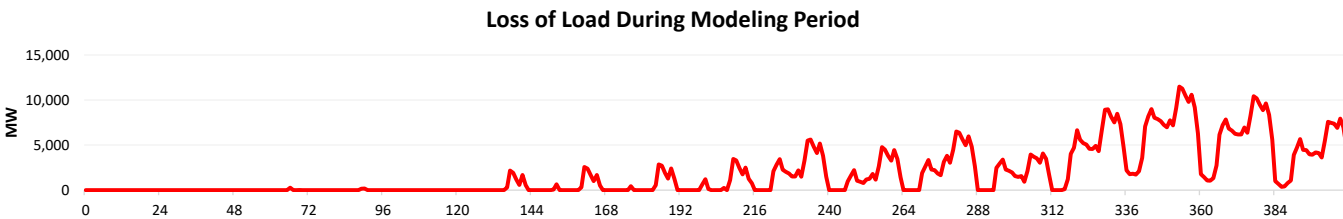
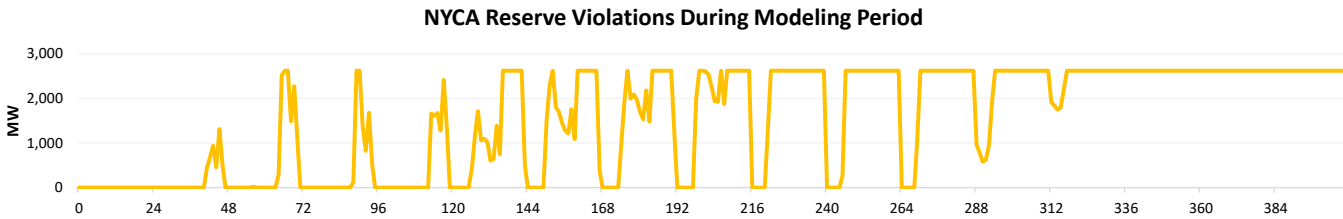
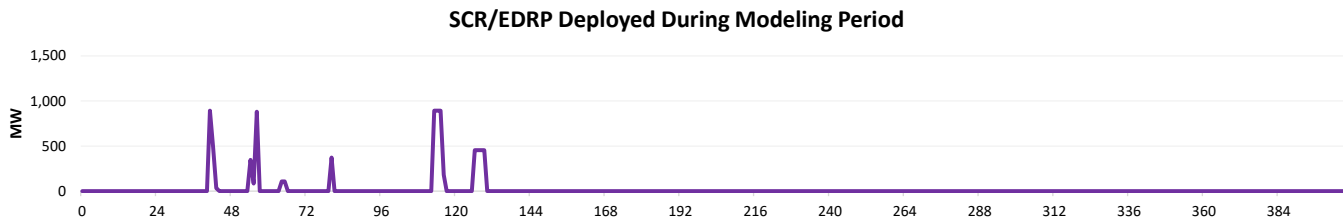
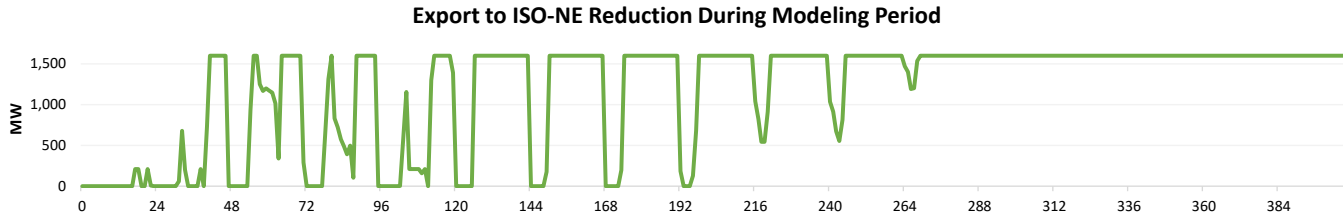
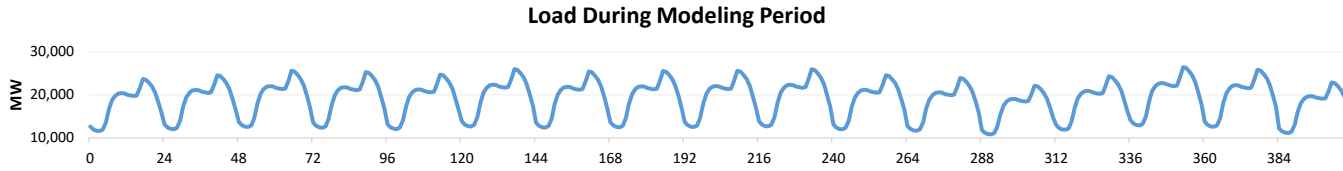
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 7 No Refill

Hourly Results Summary

Case Name: Scenario 8 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	336
Total MWh	483,047
Avg. MW	1,183.9

SCR Deployment	
Total Hrs.	17
Total MWh	7,988
Avg. MW	19.6

Reserve Violations	
Total Hrs.	276
Total MWh	628,015
Avg. MW	1,539.3
First Hour with Viol.	41
First Hour, Zone K	41

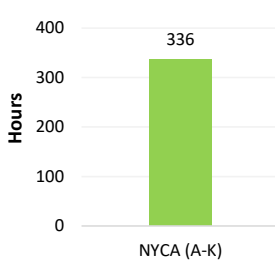
Loss of Load	
Total Hrs.	205
Total MWh	790,915
Avg. MW	1,938.5
First Hour with Losses	66
First Hour, Zone K	66

Full Period Results Summary

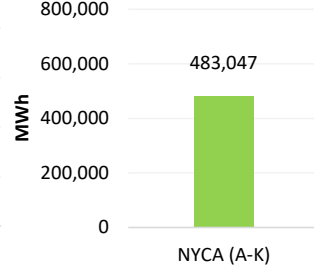
Case Name: Scenario 8 - PD 7 No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

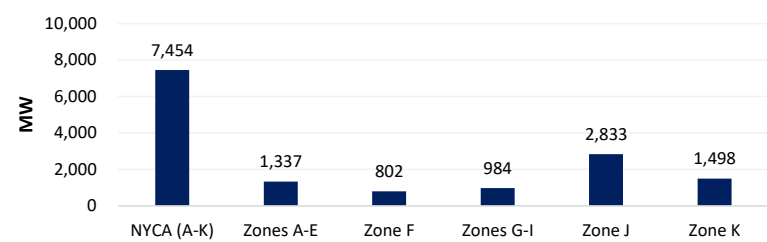
Hours Exports Reduced



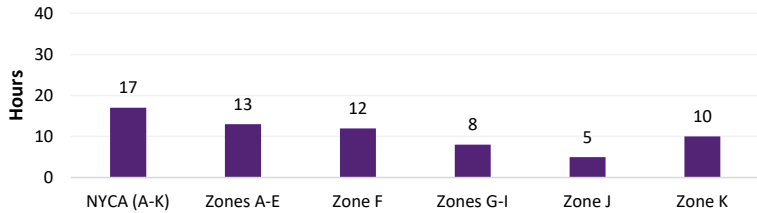
Total MWh of Exports Reduced



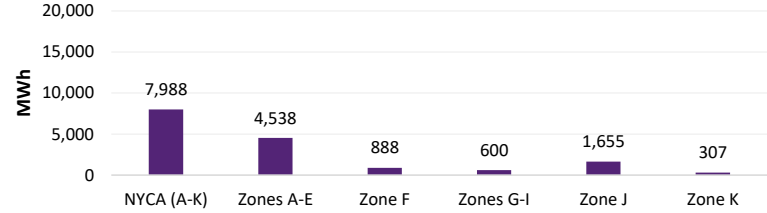
Average Capacity Not Available Due to Exhausted Fuel Inventory



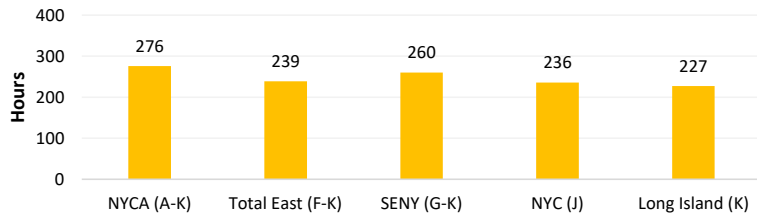
Hours SCR/EDRP Deployed



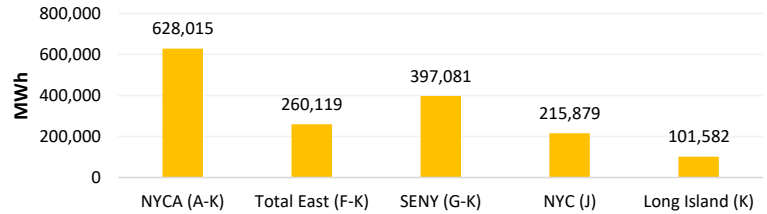
Total MWh SCR/EDRP Deployed



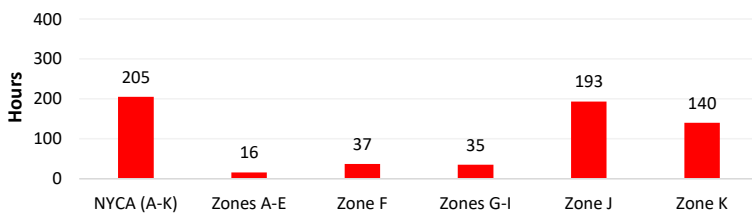
Hours with Reserve Violations



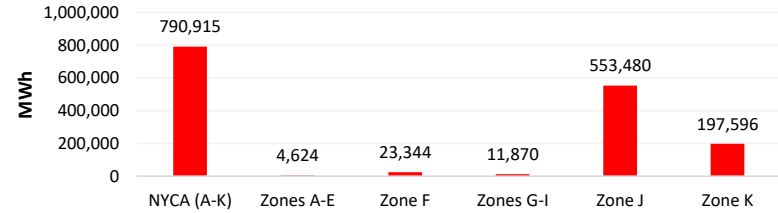
Total MWh of Reserve Violations



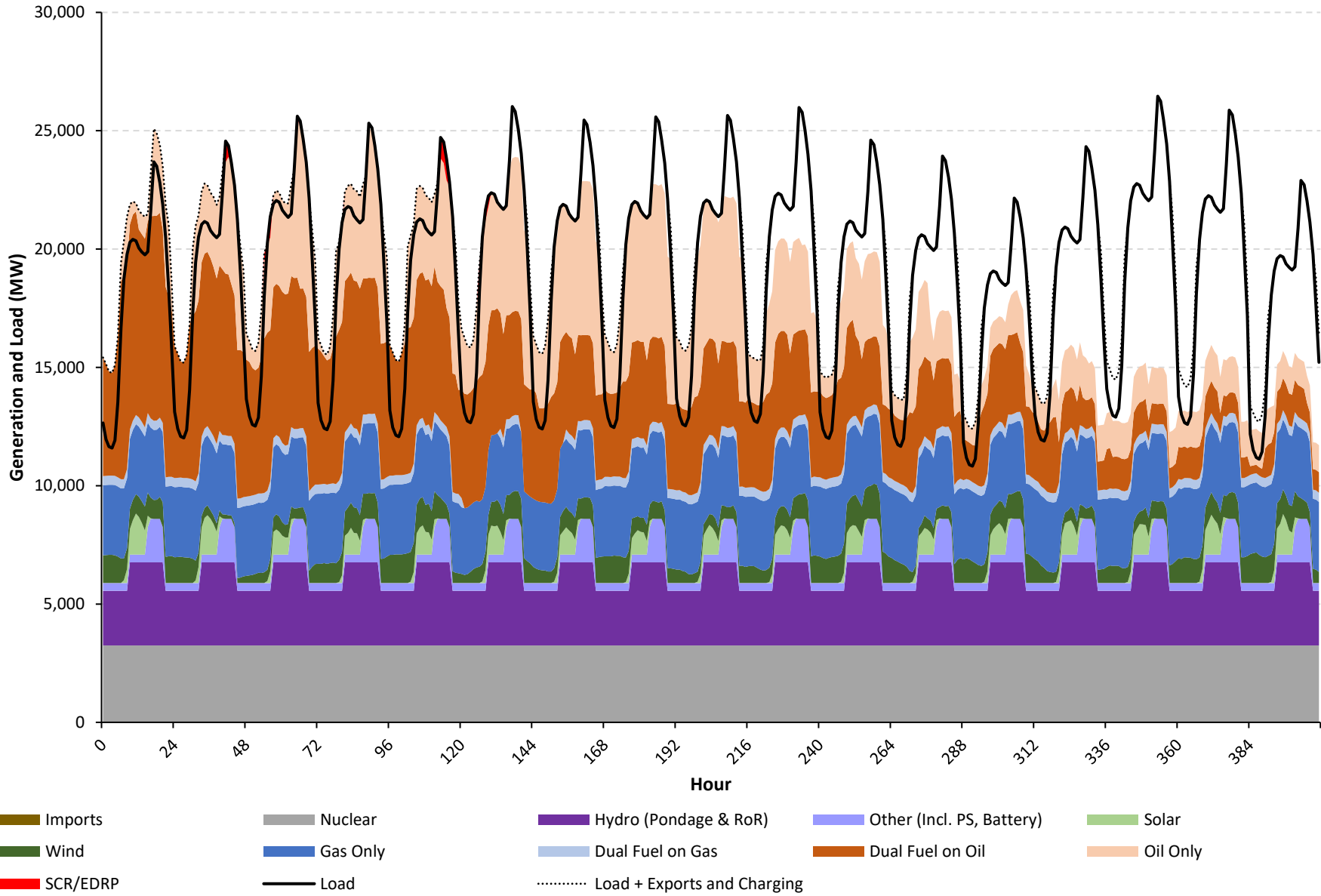
Hours with Loss of Load



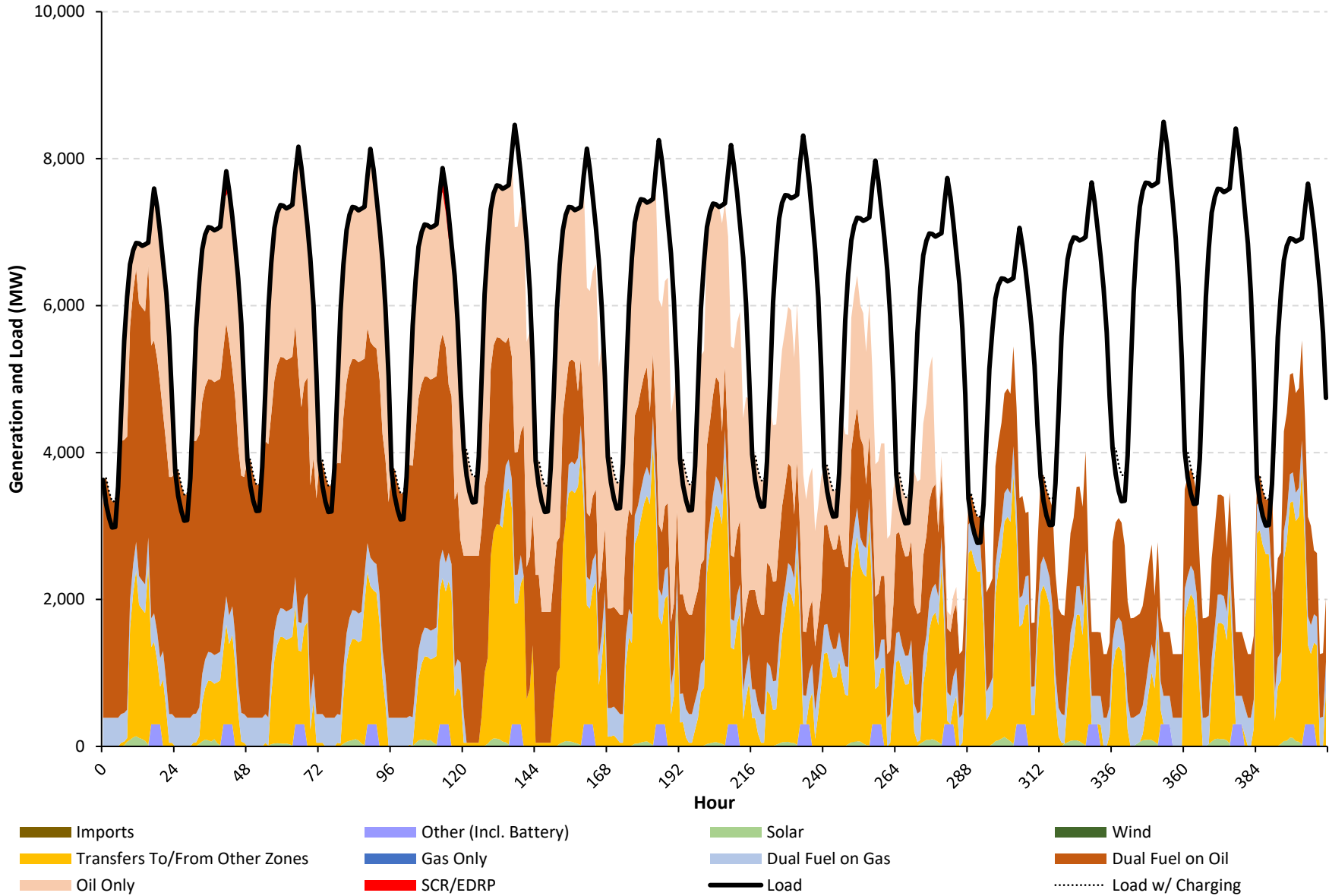
Total MWh of Lost Load



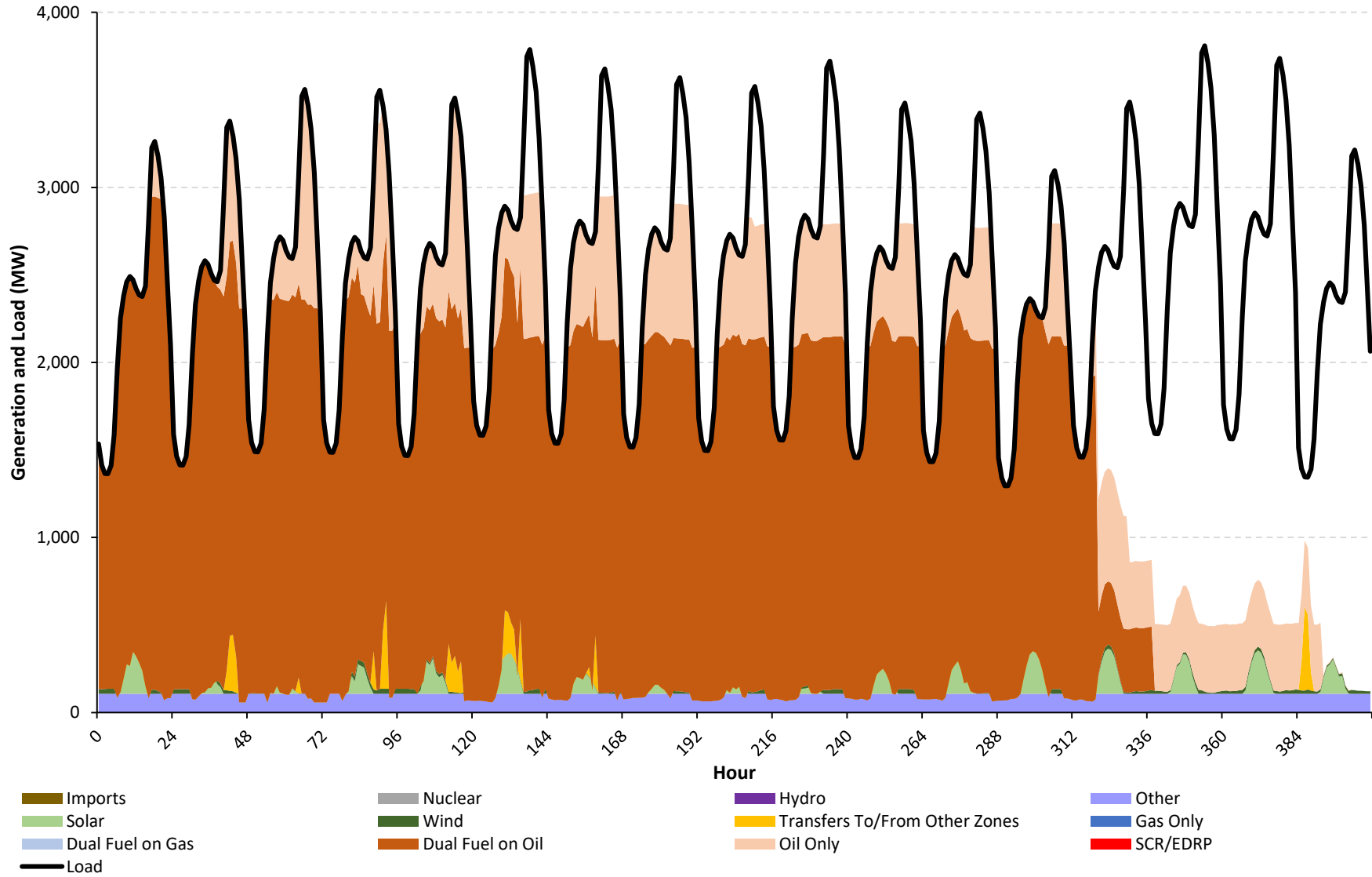
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 7 No Refill



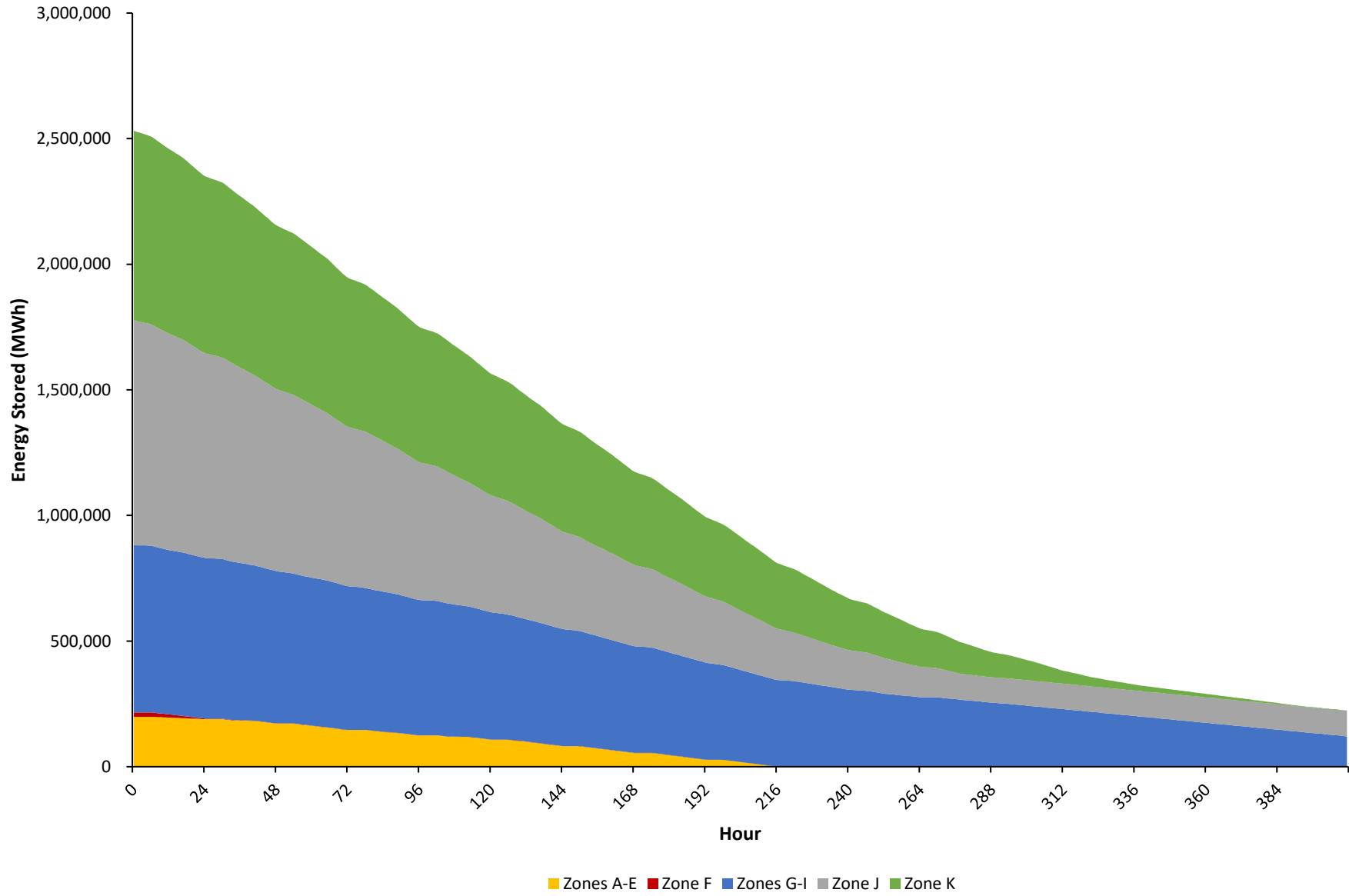
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 7 No Refill



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 7 No Refill

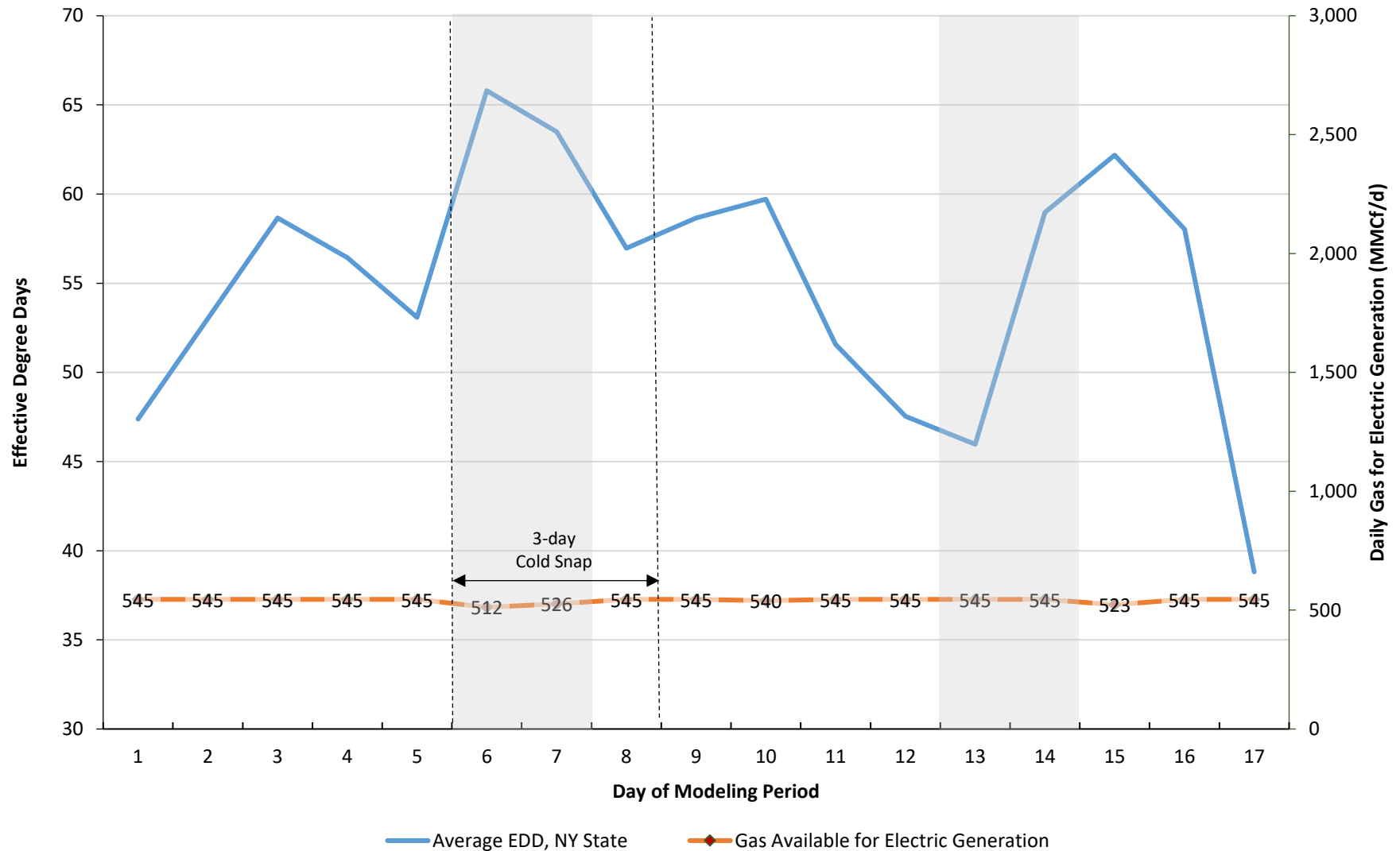


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 7 No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

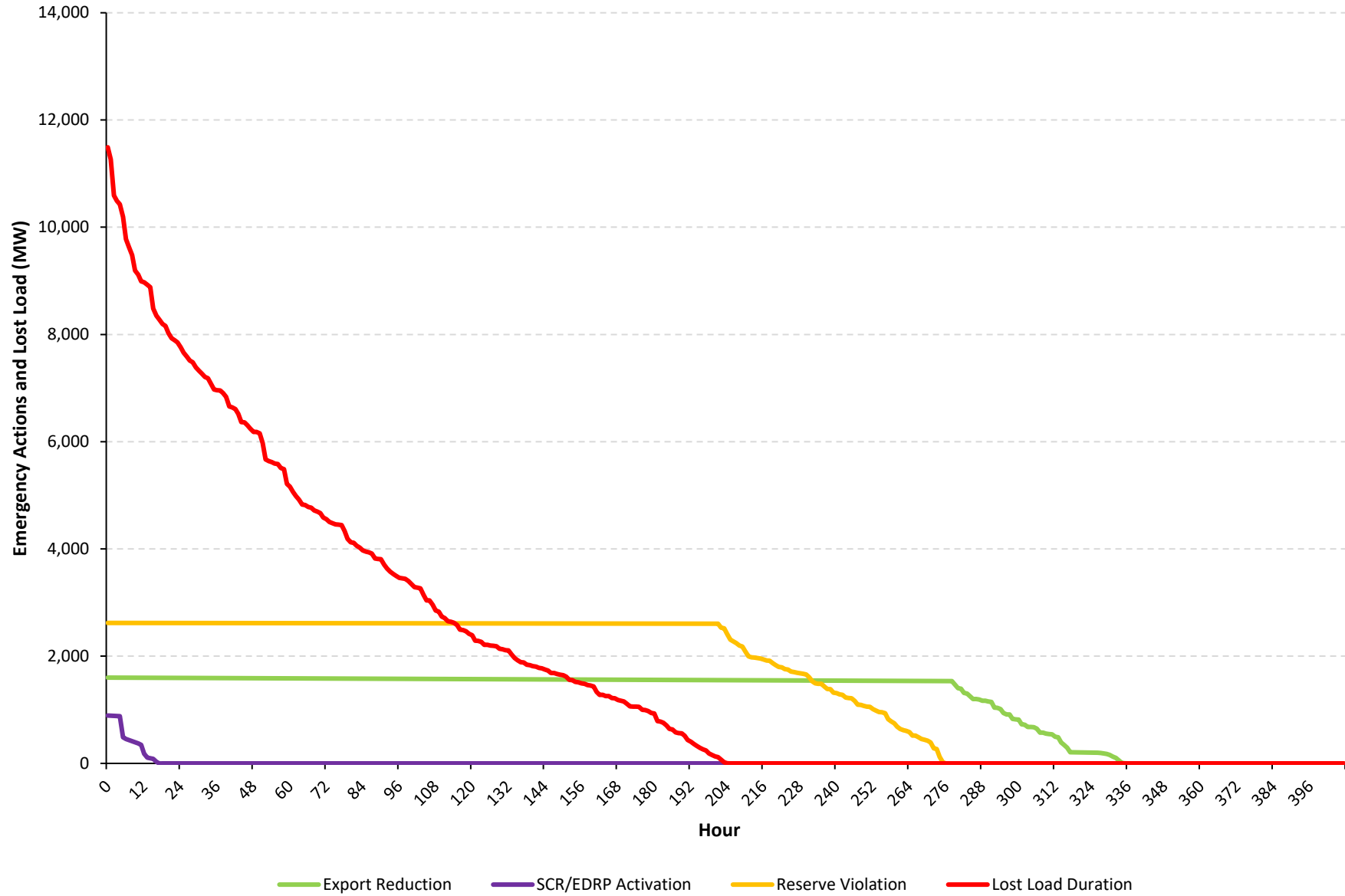
Scenario 8 - PD 7 No Refill



Notes:

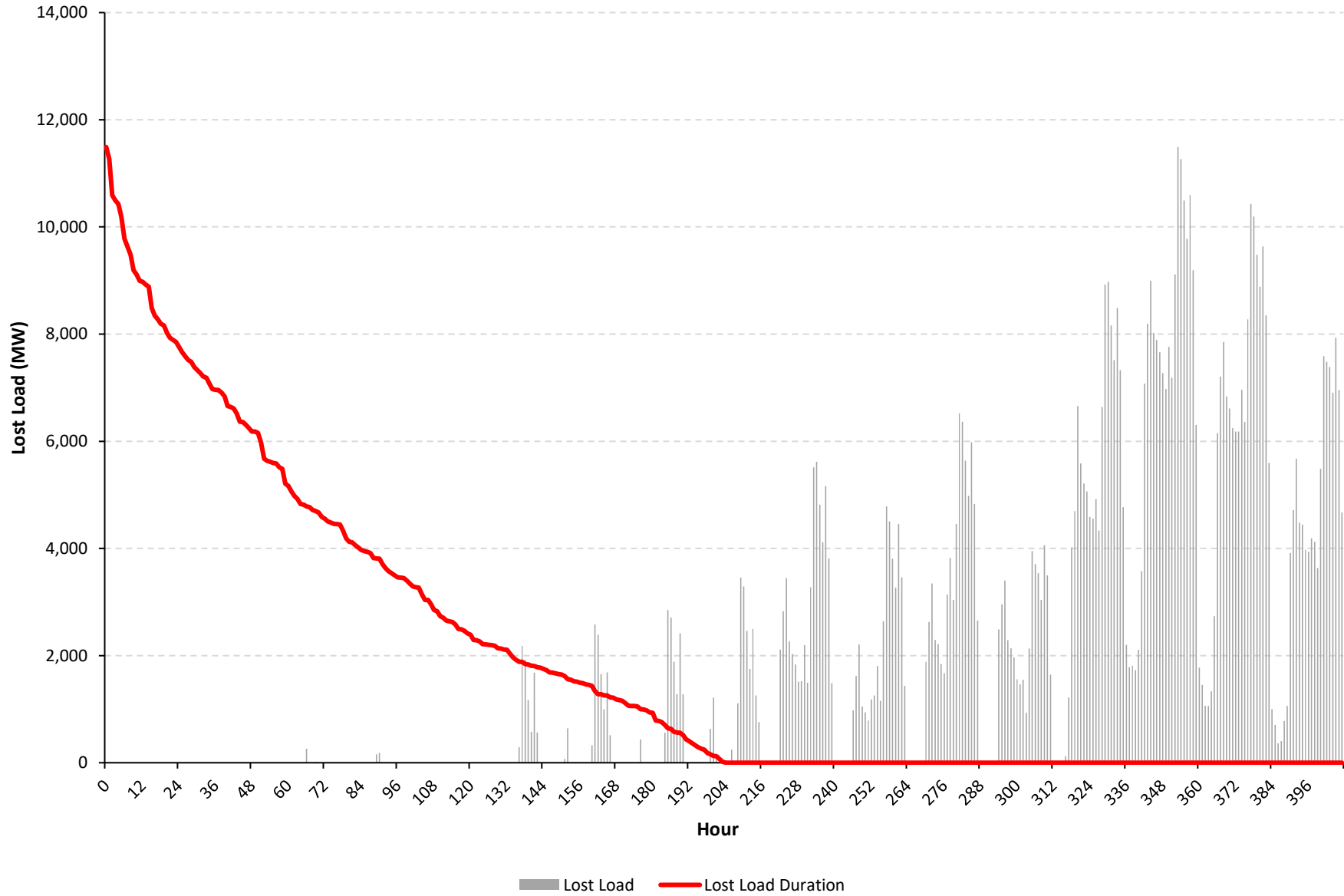
- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 7 No Refill



NYCA Lost Load Duration (MWh)

Scenario 8 - PD 7 No Refill



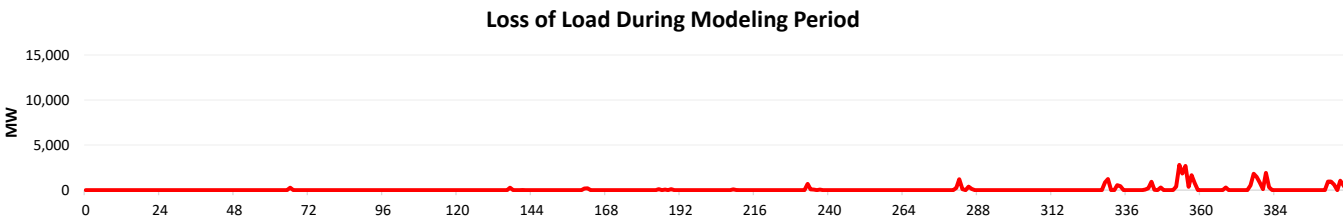
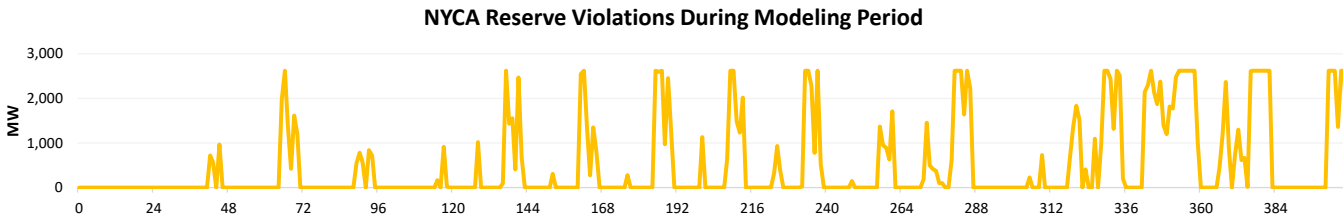
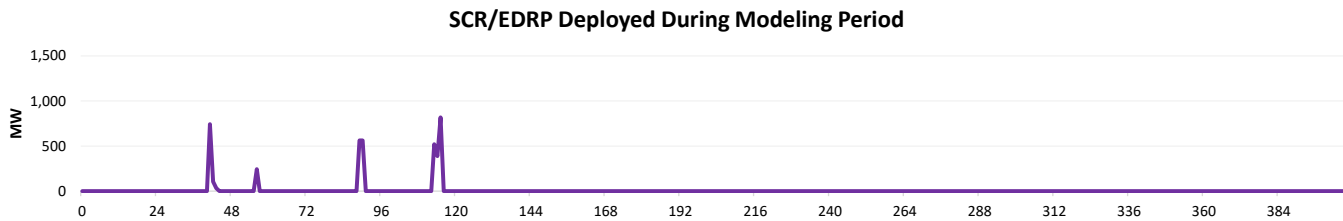
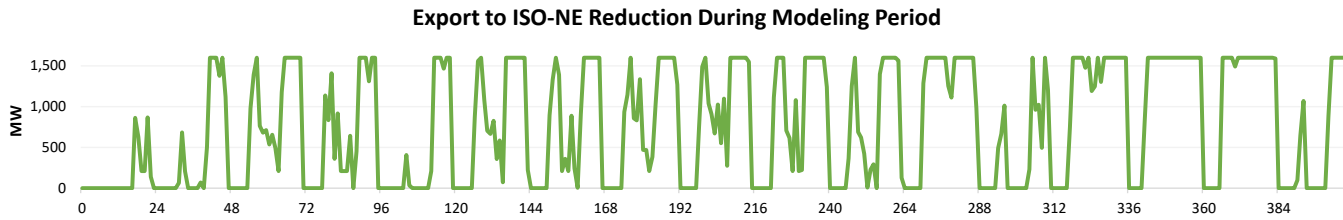
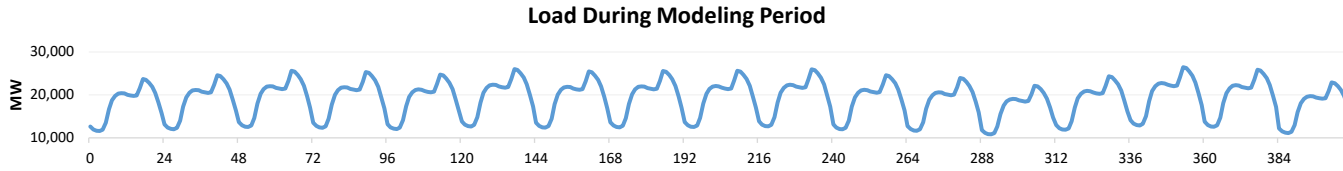
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)

Hourly Results Summary

Case Name: Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	259
Total MWh	310,612
Avg. MW	761.3

SCR Deployment	
Total Hrs.	9
Total MWh	3,976
Avg. MW	9.7

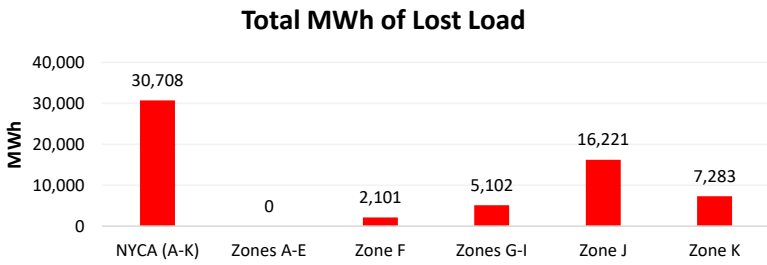
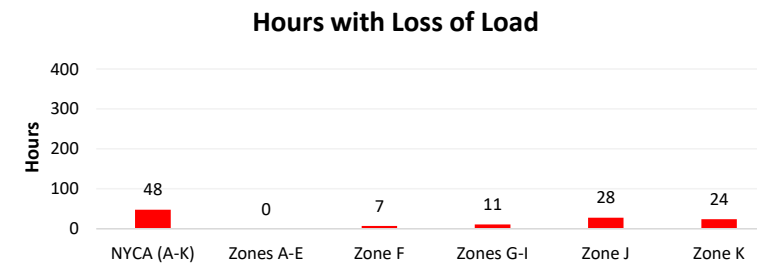
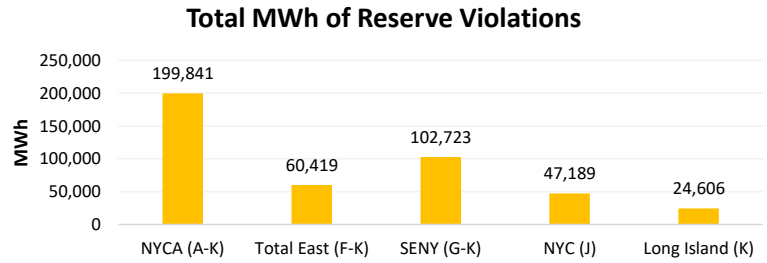
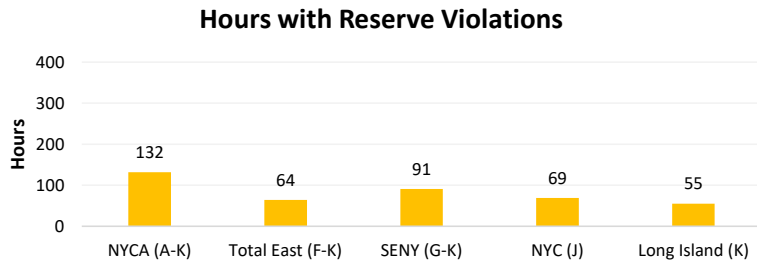
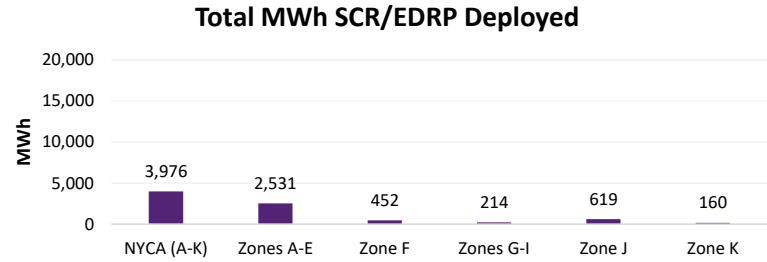
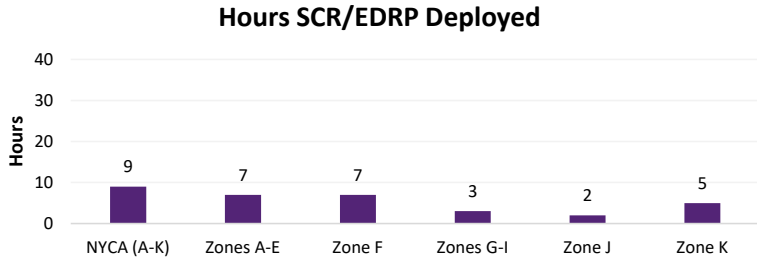
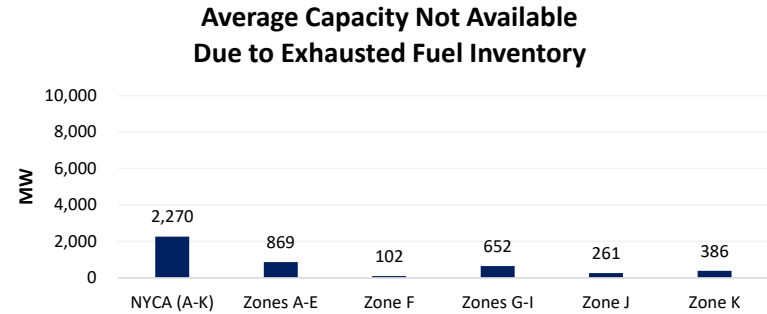
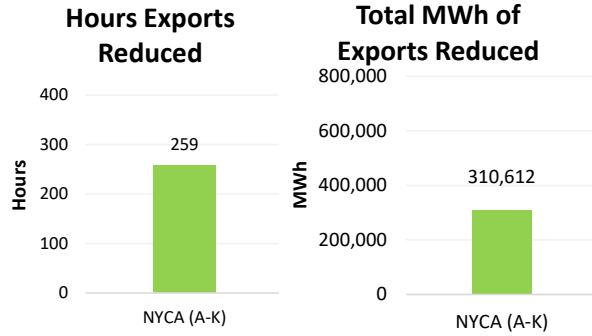
Reserve Violations	
Total Hrs.	132
Total MWh	199,841
Avg. MW	489.8
First Hour with Viol.	42
First Hour, Zone K	65

Loss of Load	
Total Hrs.	48
Total MWh	30,708
Avg. MW	75.3
First Hour with Losses	66
First Hour, Zone K	137

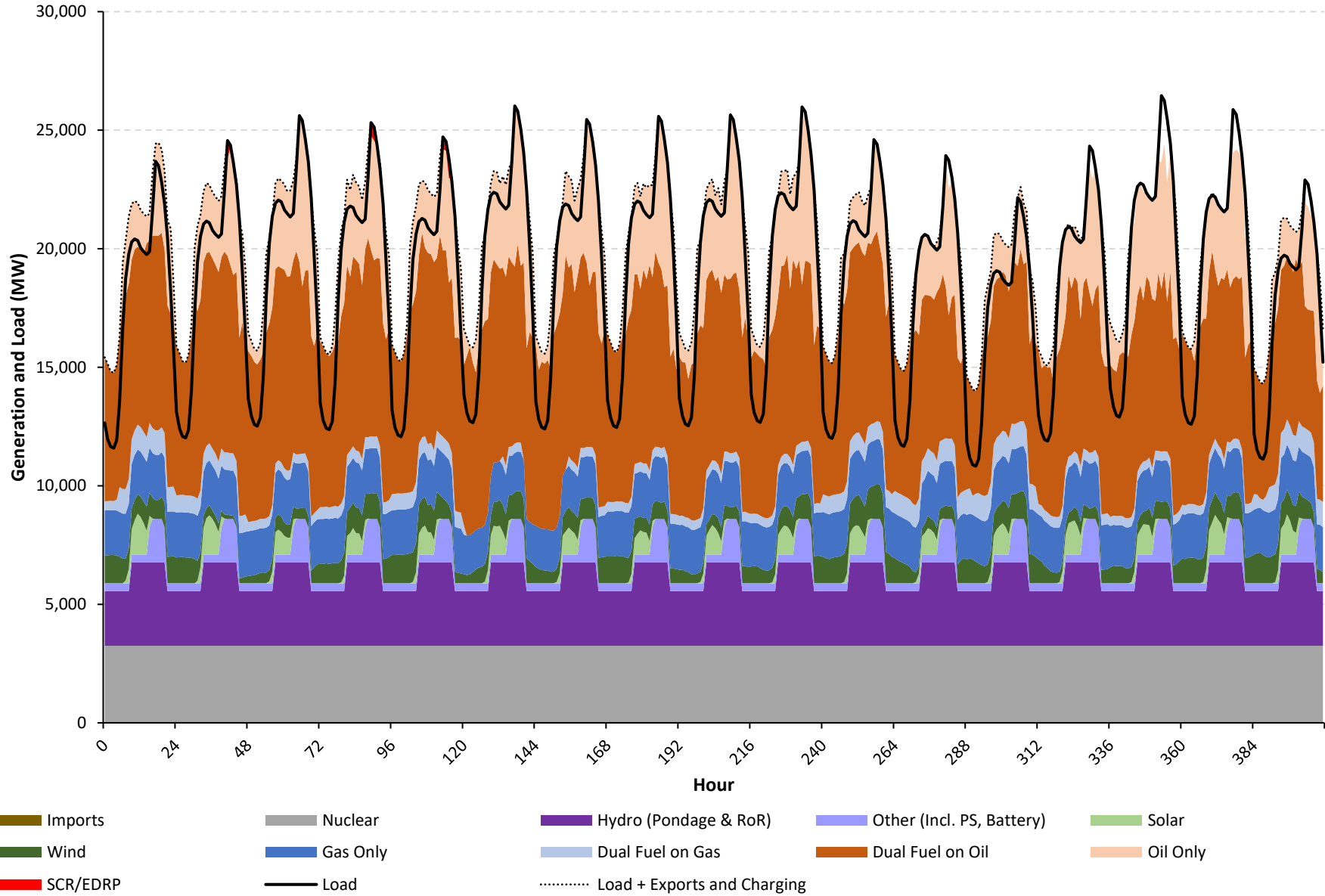
Full Period Results Summary

Case Name: Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)

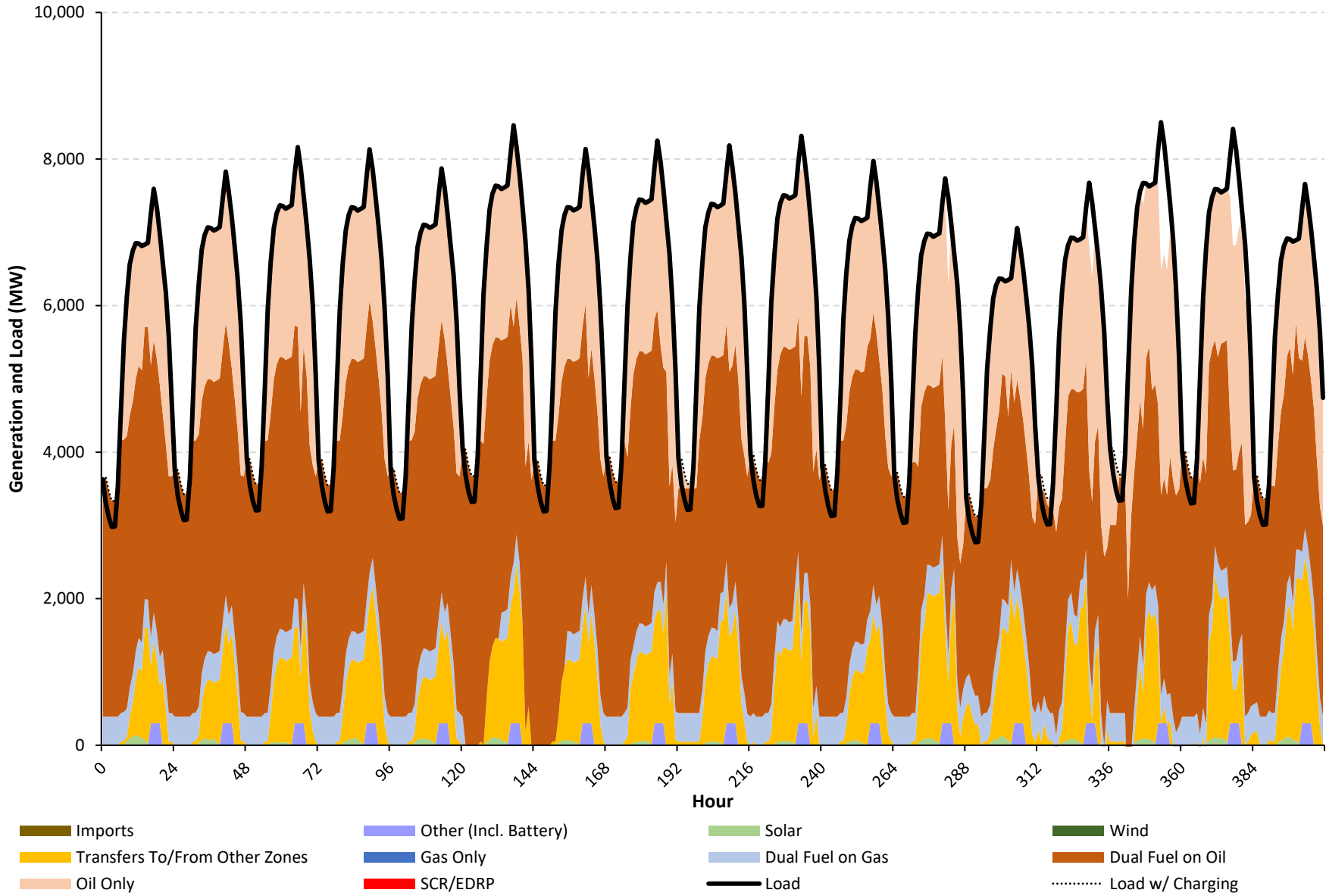
Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	F-K
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



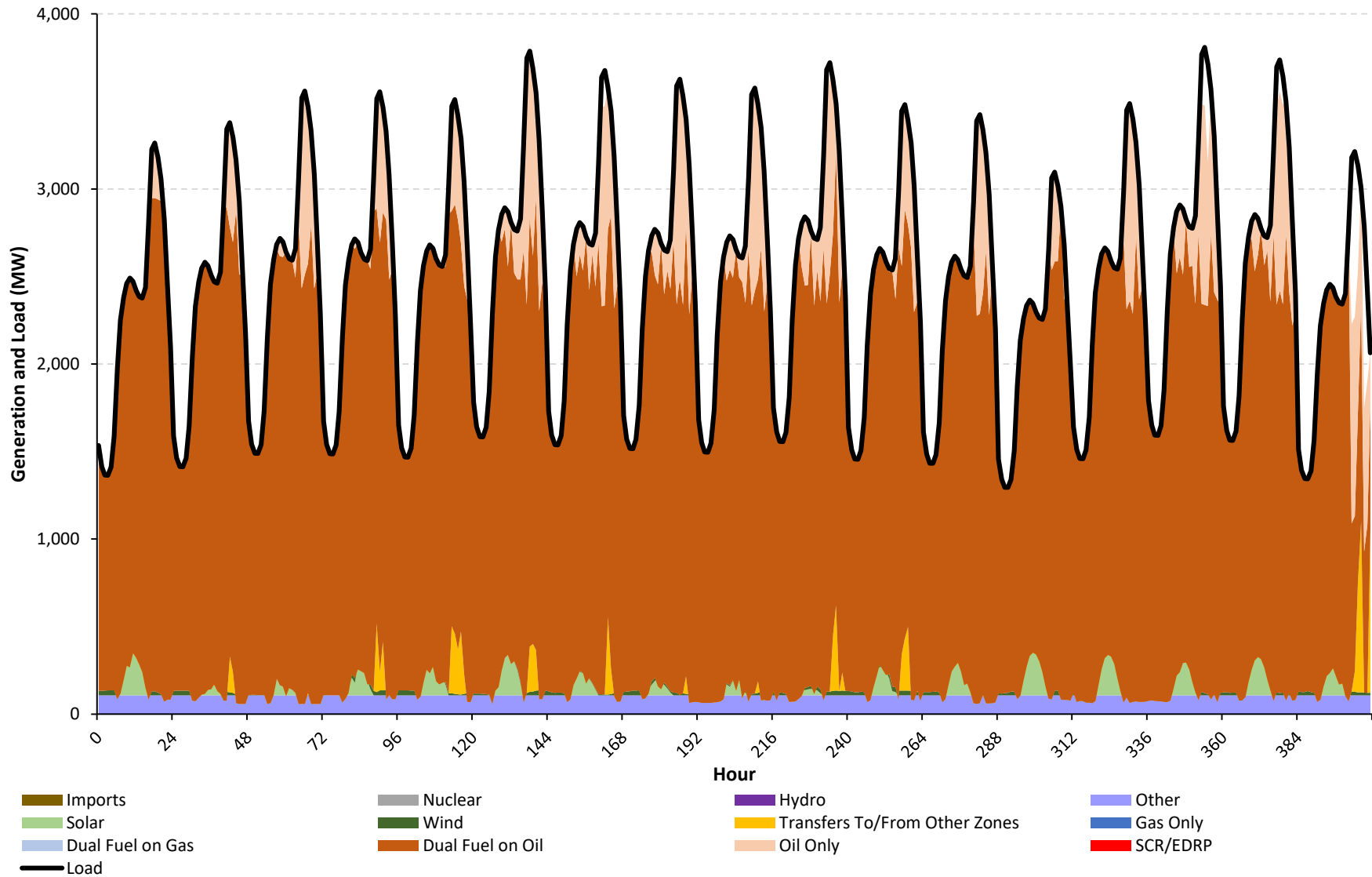
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)



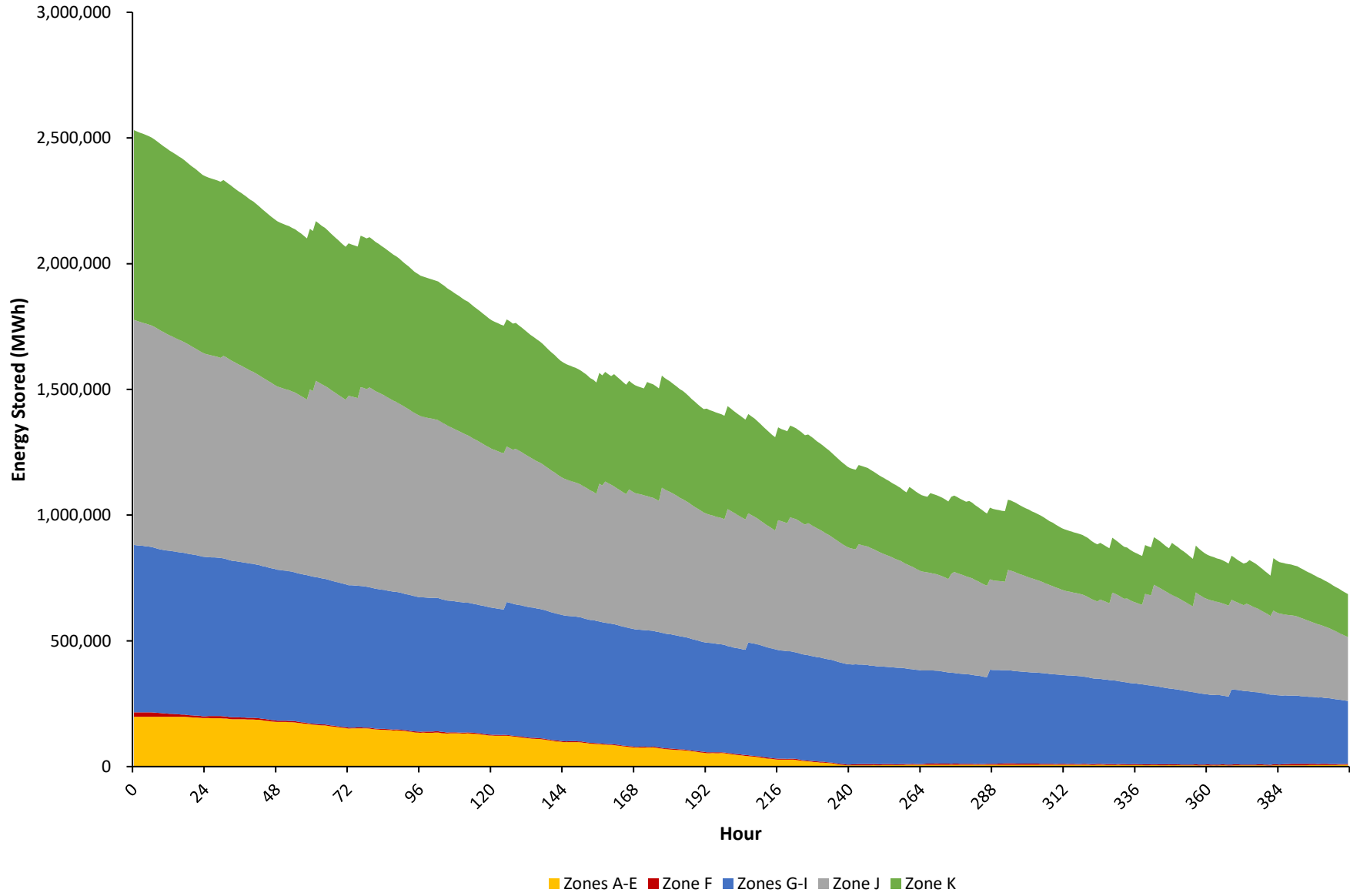
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)

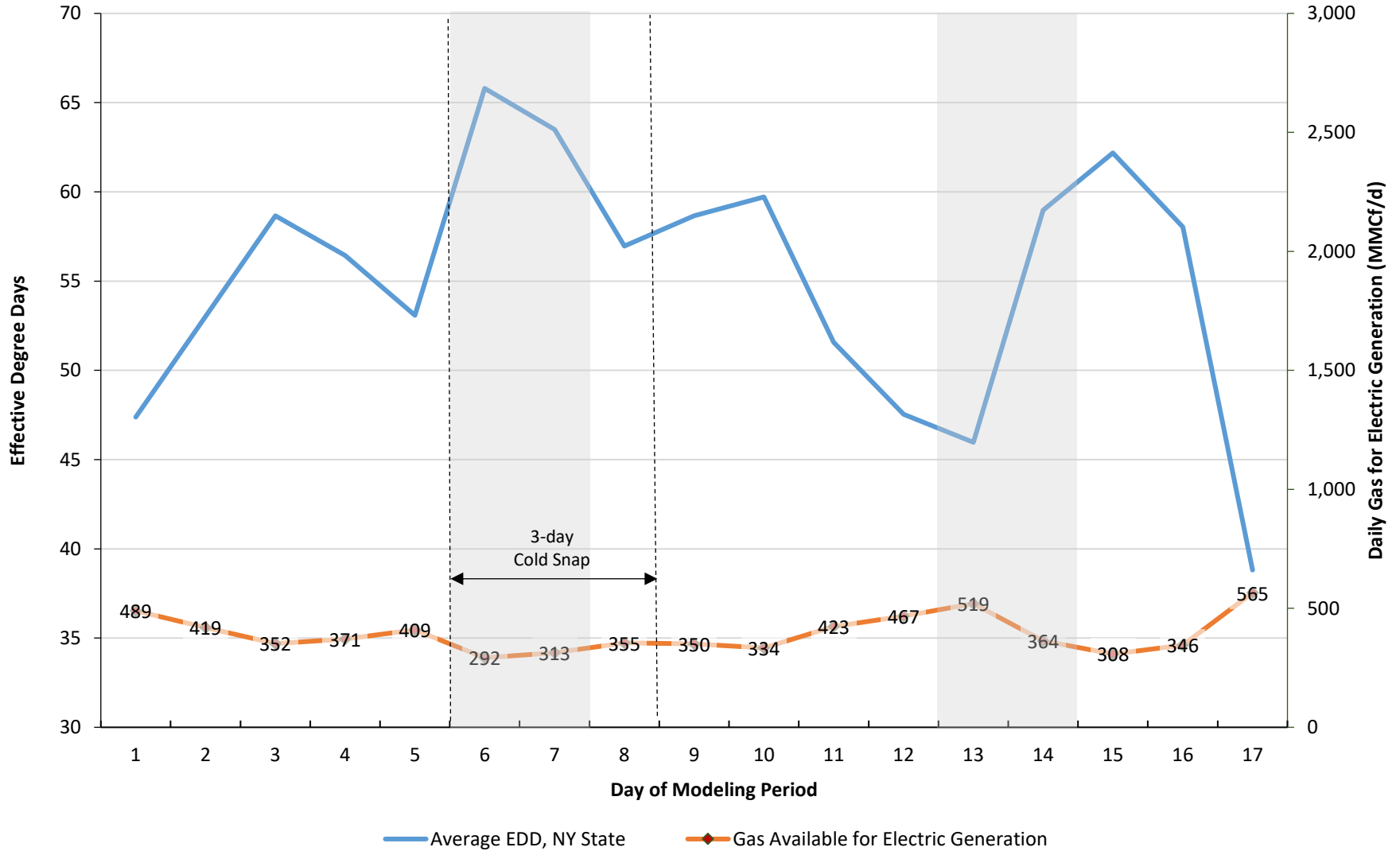


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

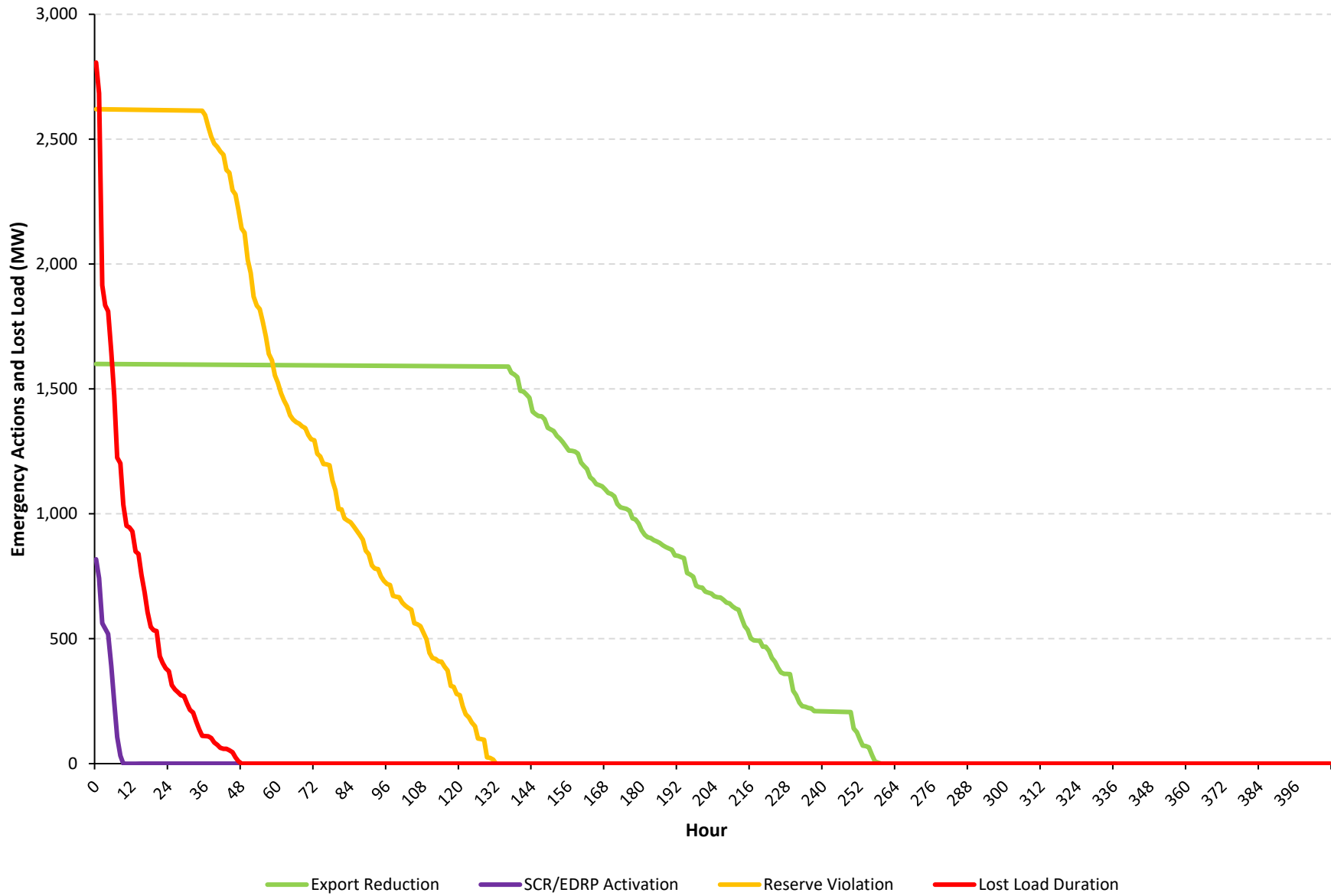
Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)



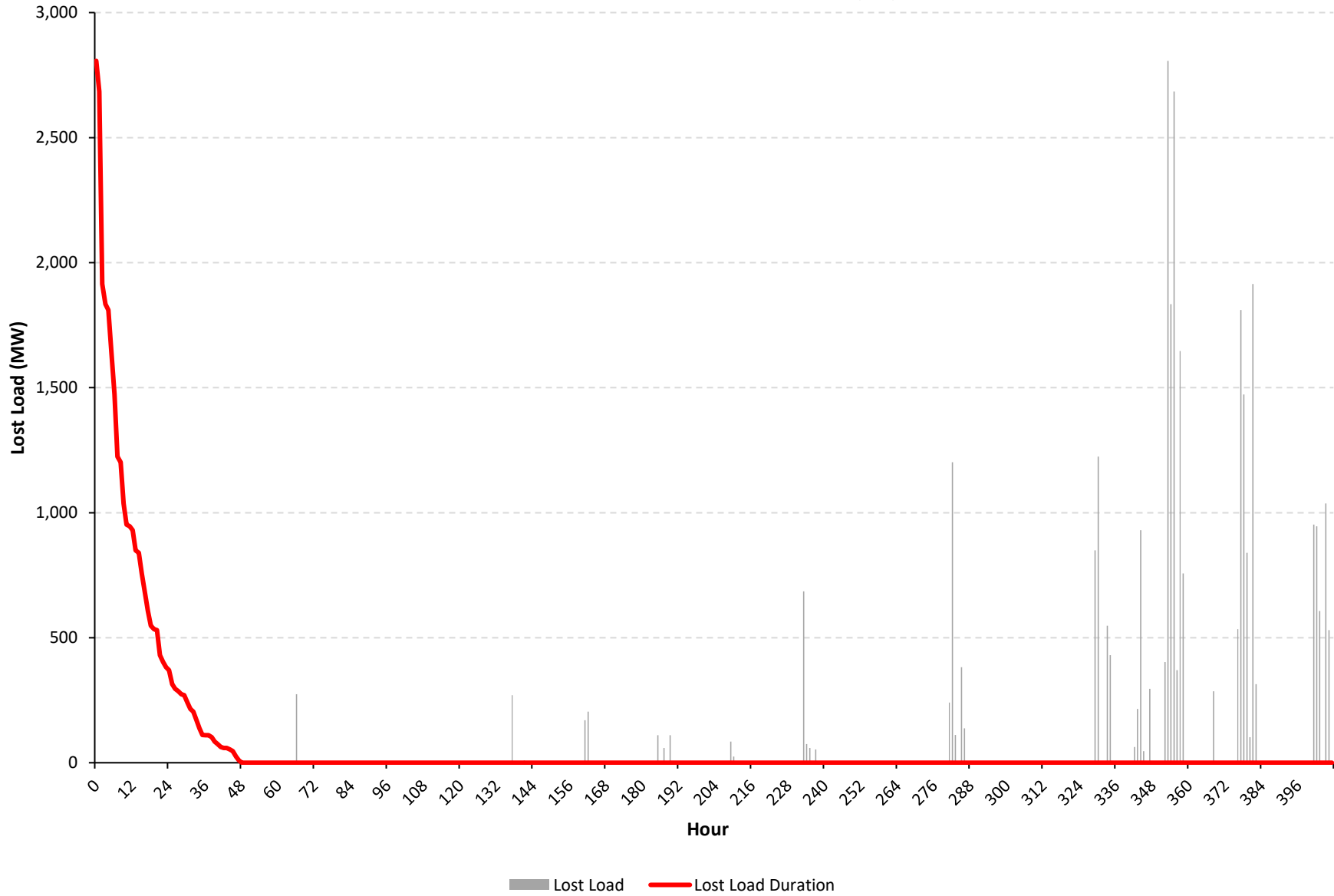
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)



NYCA Lost Load Duration (MWh) Scenario 8 - PD 8 Non-Firm Gas Unavailable (F-K)

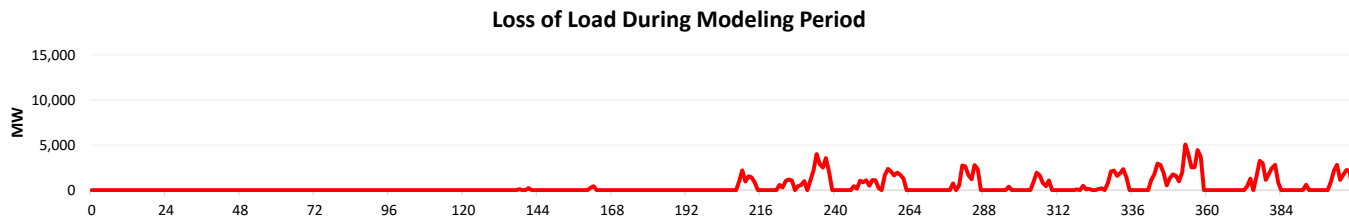
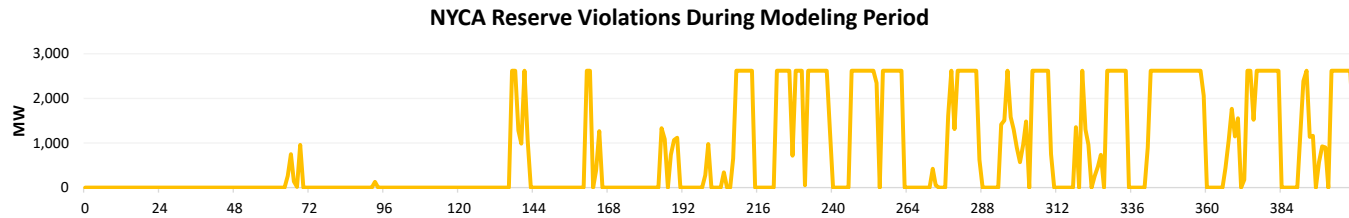
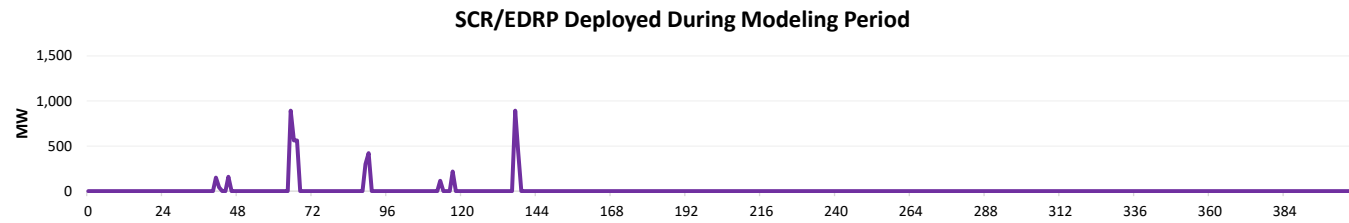
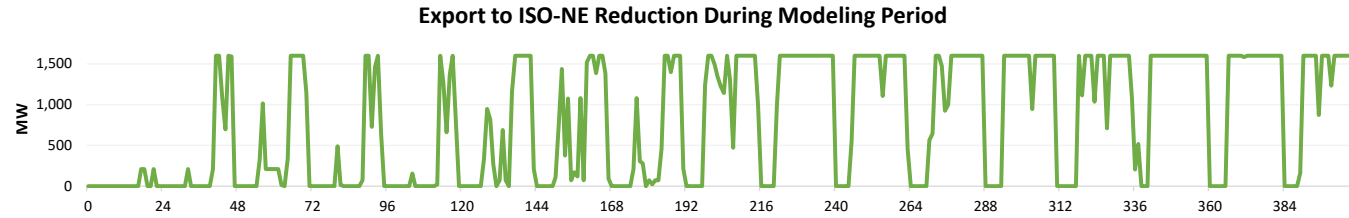
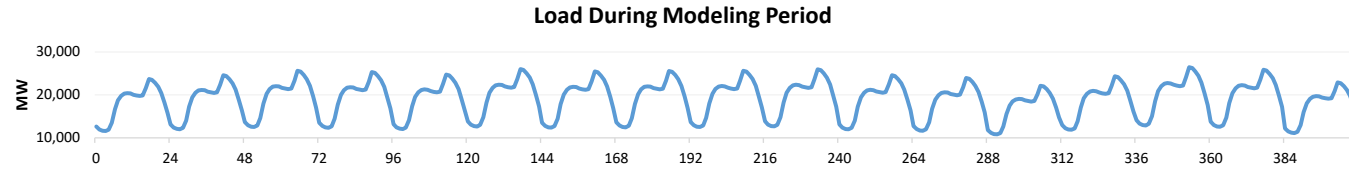


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 9 Low Fuel Inventory

Hourly Results Summary

Case Name: Scenario 8 - PD 9 Low Fuel Inventory



Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.:	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

Export Reductions	
Total Hrs.	259
Total MWh	327,981
Avg. MW	803.9

SCR Deployment	
Total Hrs.	12
Total MWh	4,751
Avg. MW	11.6

Reserve Violations	
Total Hrs.	160
Total MWh	318,365
Avg. MW	780.3
First Hour with Viol.	65
First Hour, Zone K	65

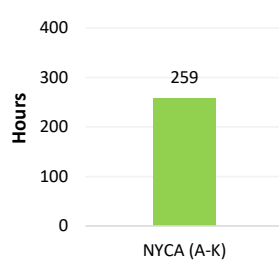
Loss of Load	
Total Hrs.	106
Total MWh	161,232
Avg. MW	395.2
First Hour with Losses	137
First Hour, Zone K	137

Full Period Results Summary

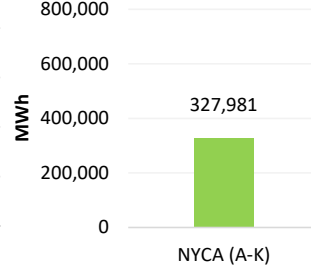
Case Name: Scenario 8 - PD 9 Low Fuel Inventory

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Low
Refill Contingency:	Off
Loss of Gas Fired Gen.	Operational Experience
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

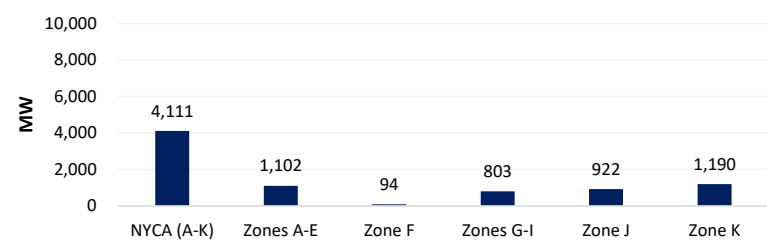
Hours Exports Reduced



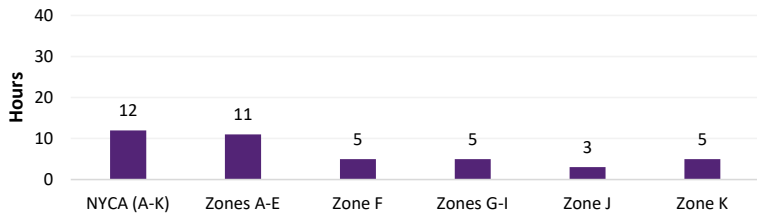
Total MWh of Exports Reduced



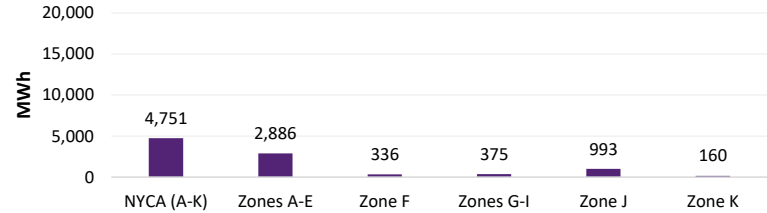
Average Capacity Not Available Due to Exhausted Fuel Inventory



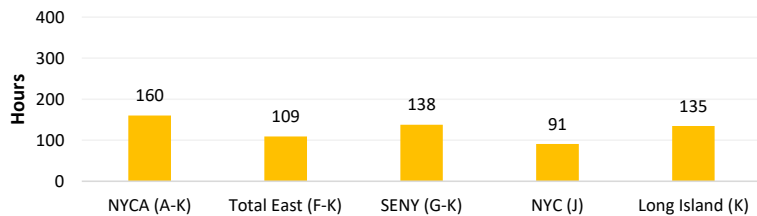
Hours SCR/EDRP Deployed



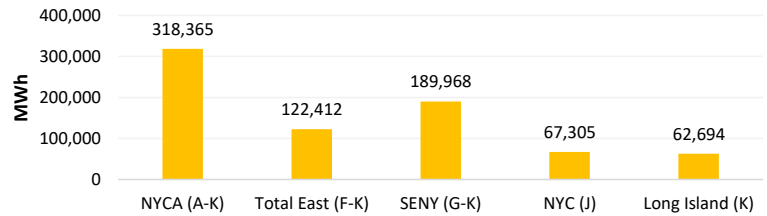
Total MWh SCR/EDRP Deployed



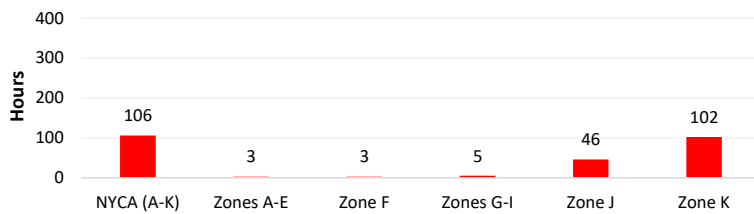
Hours with Reserve Violations



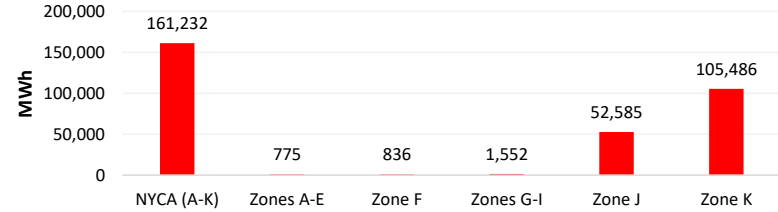
Total MWh of Reserve Violations



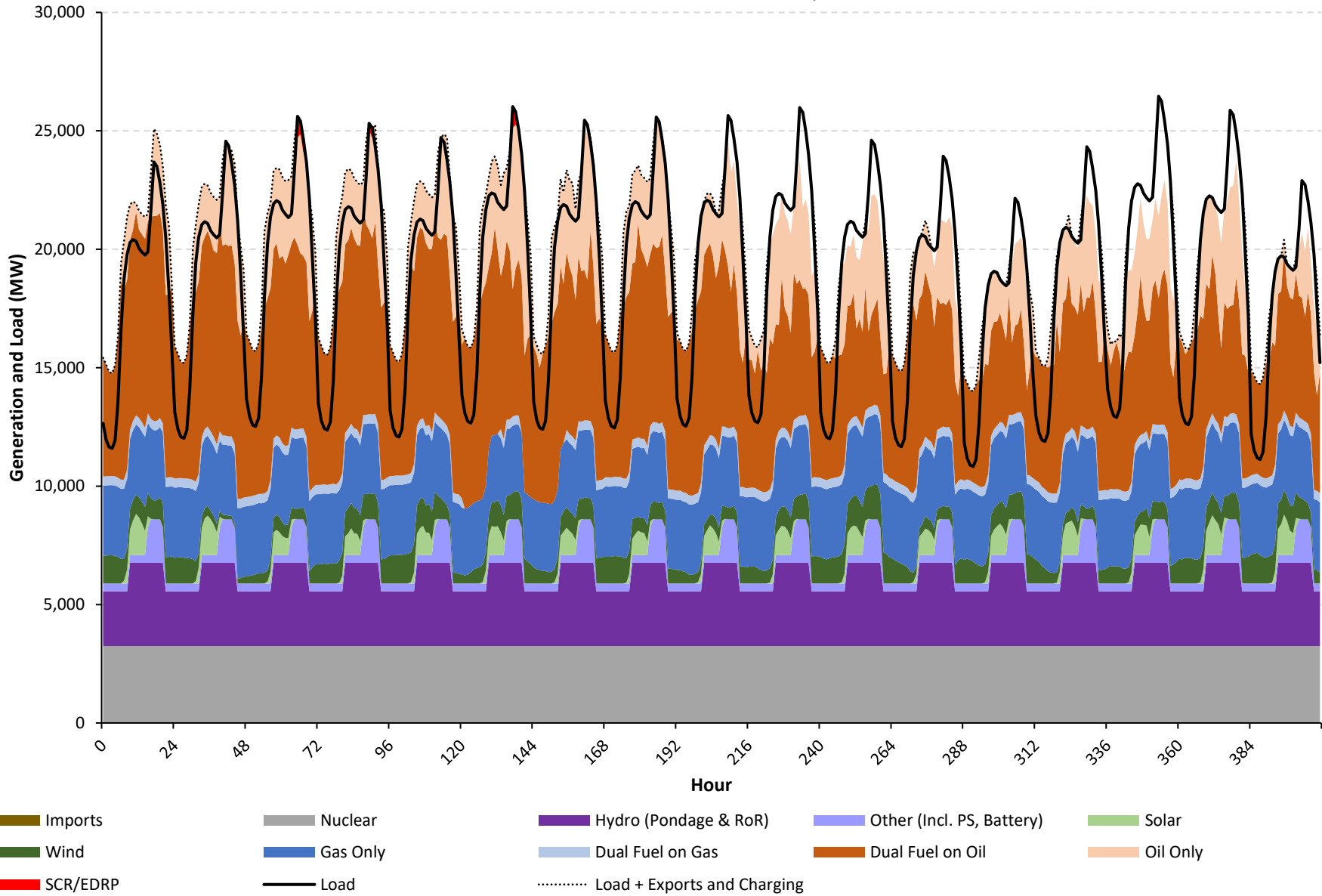
Hours with Loss of Load



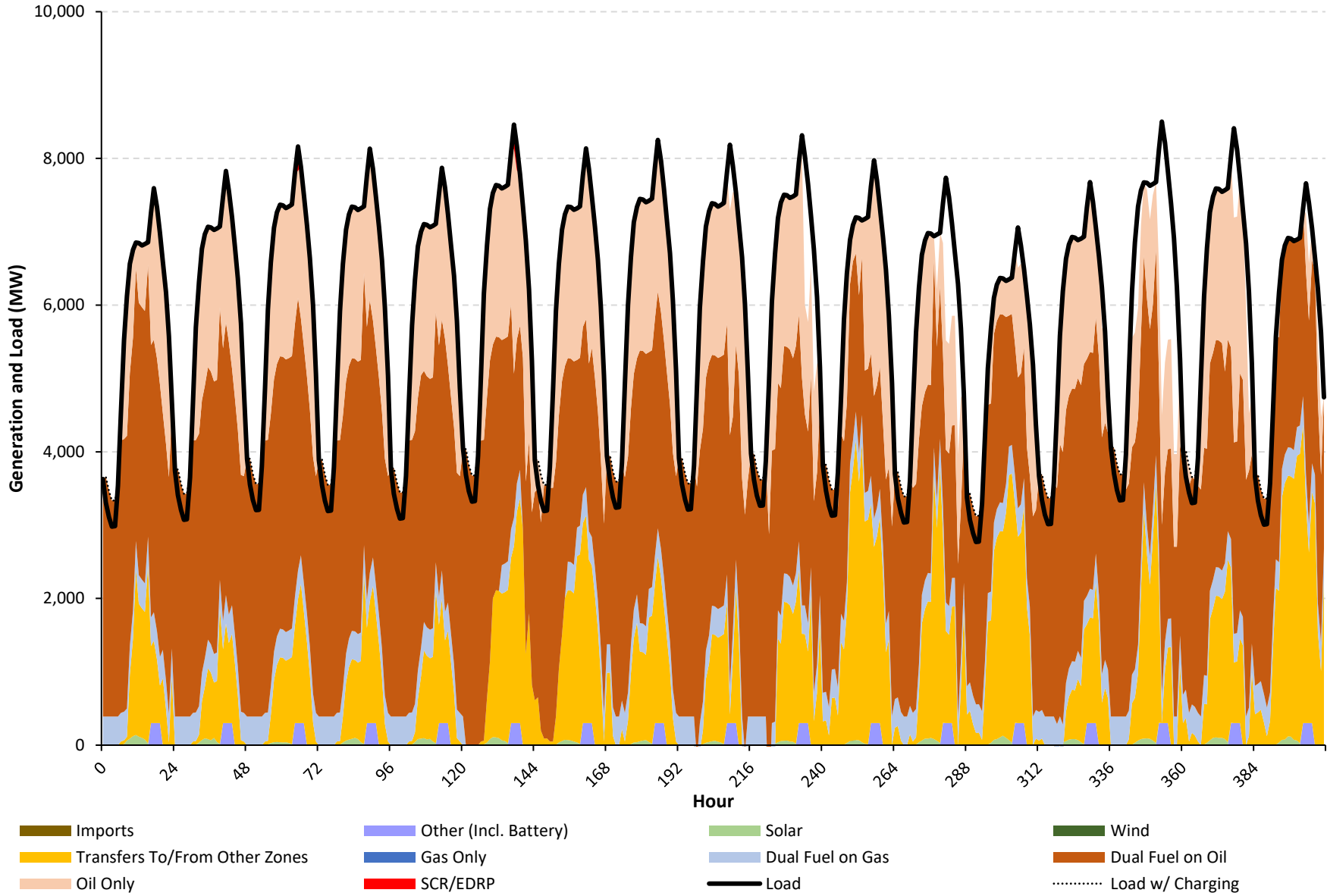
Total MWh of Lost Load



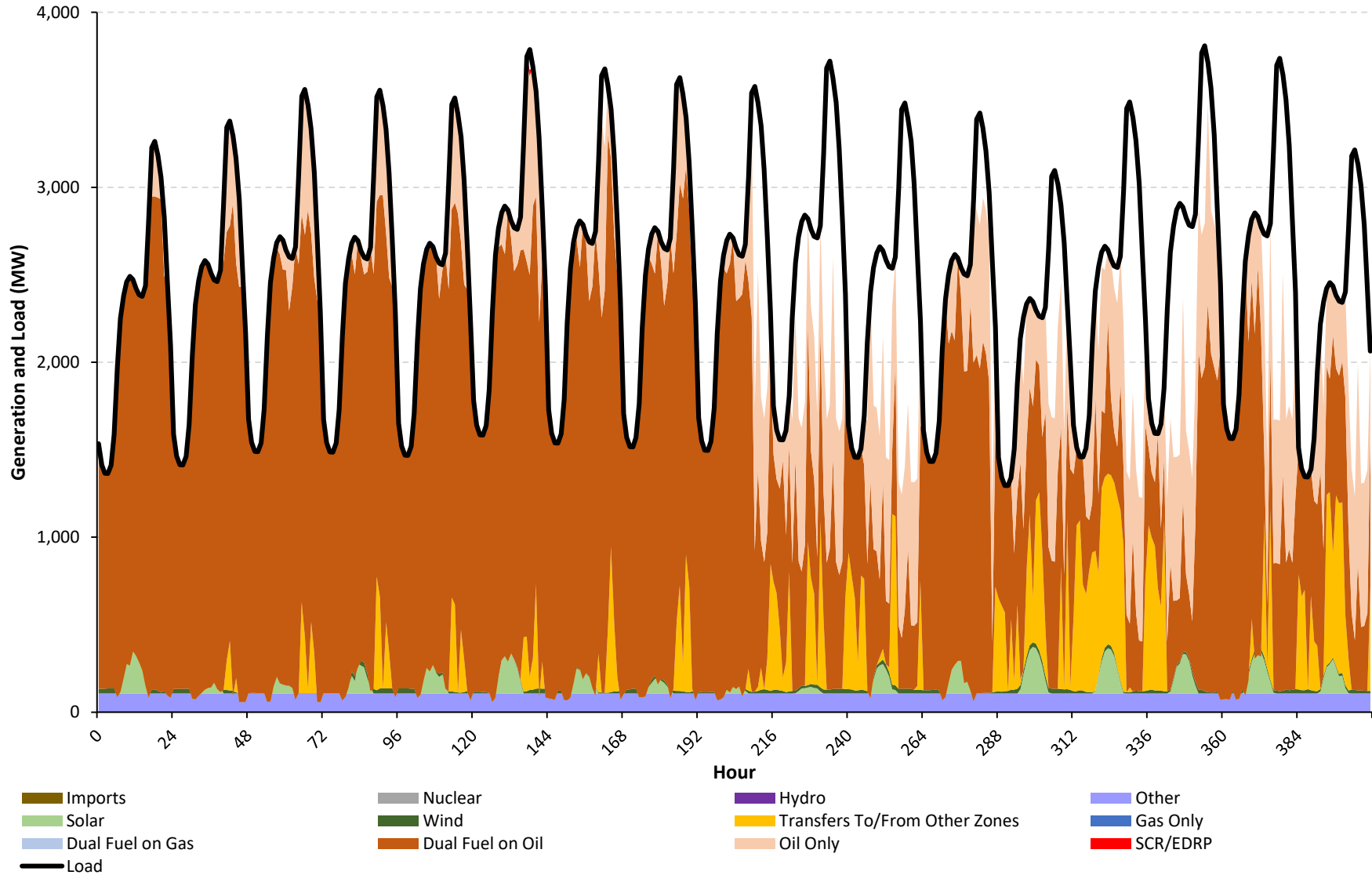
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 9 Low Fuel Inventory



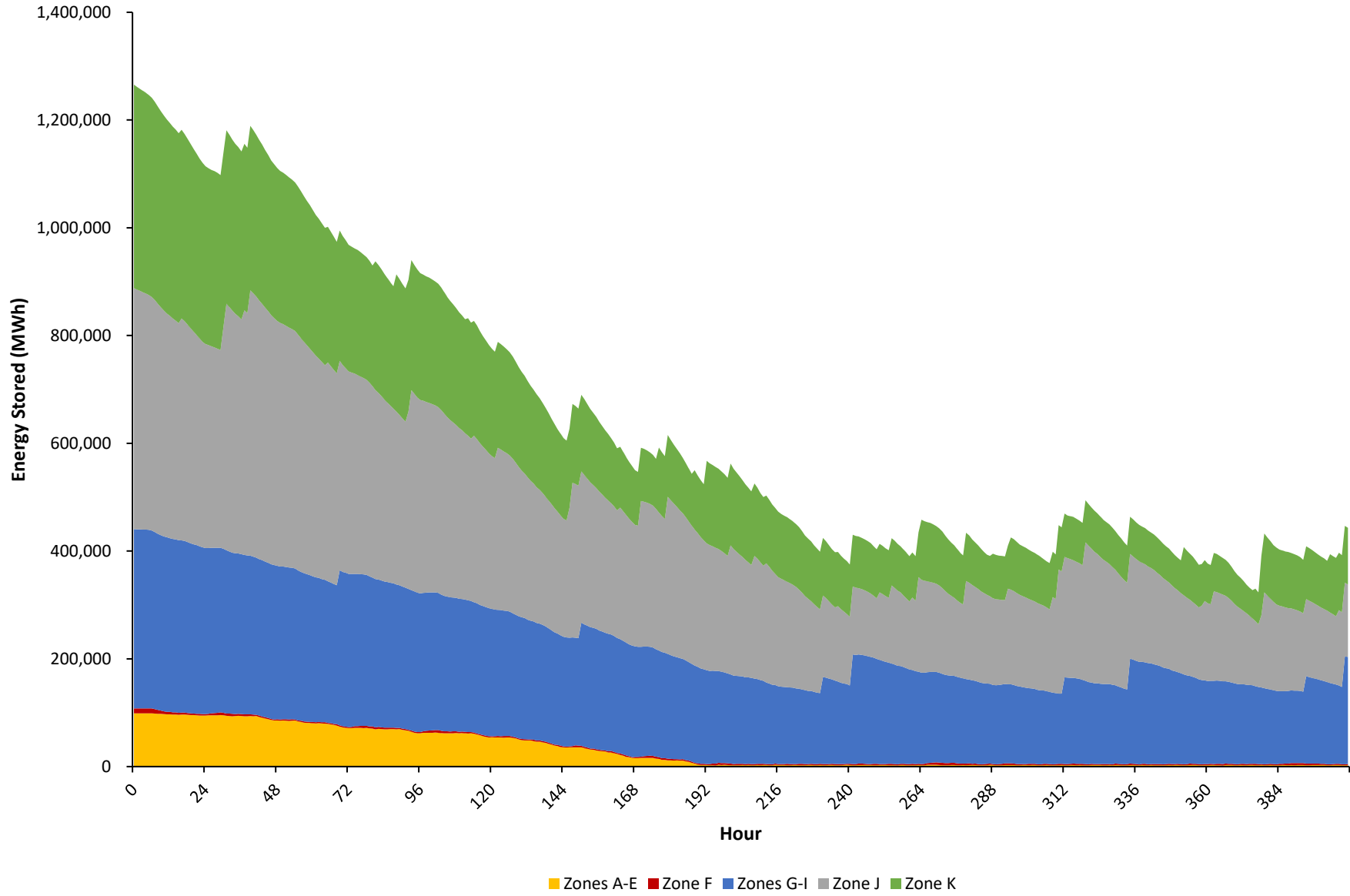
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 9 Low Fuel Inventory



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 9 Low Fuel Inventory

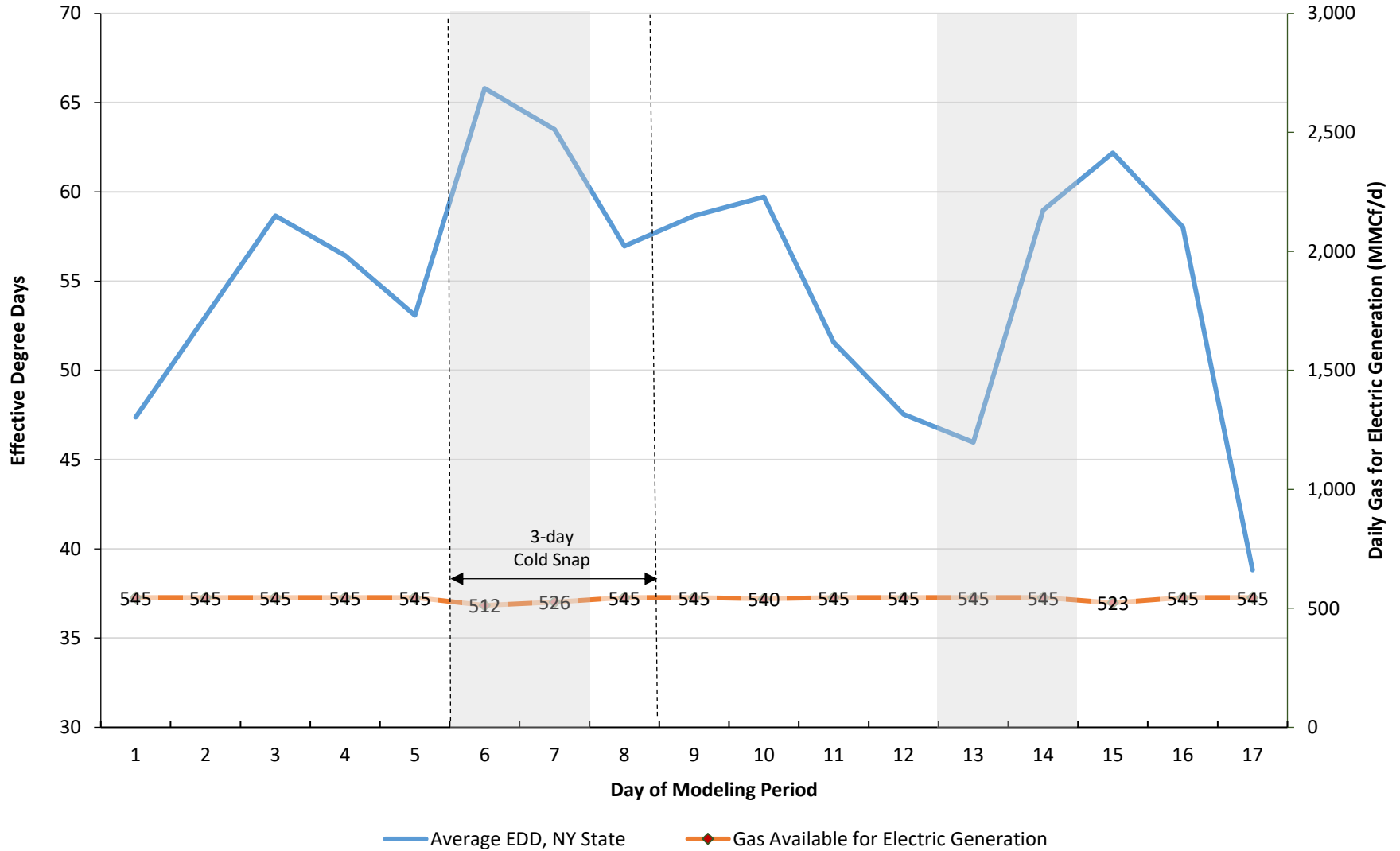


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 9 Low Fuel Inventory



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

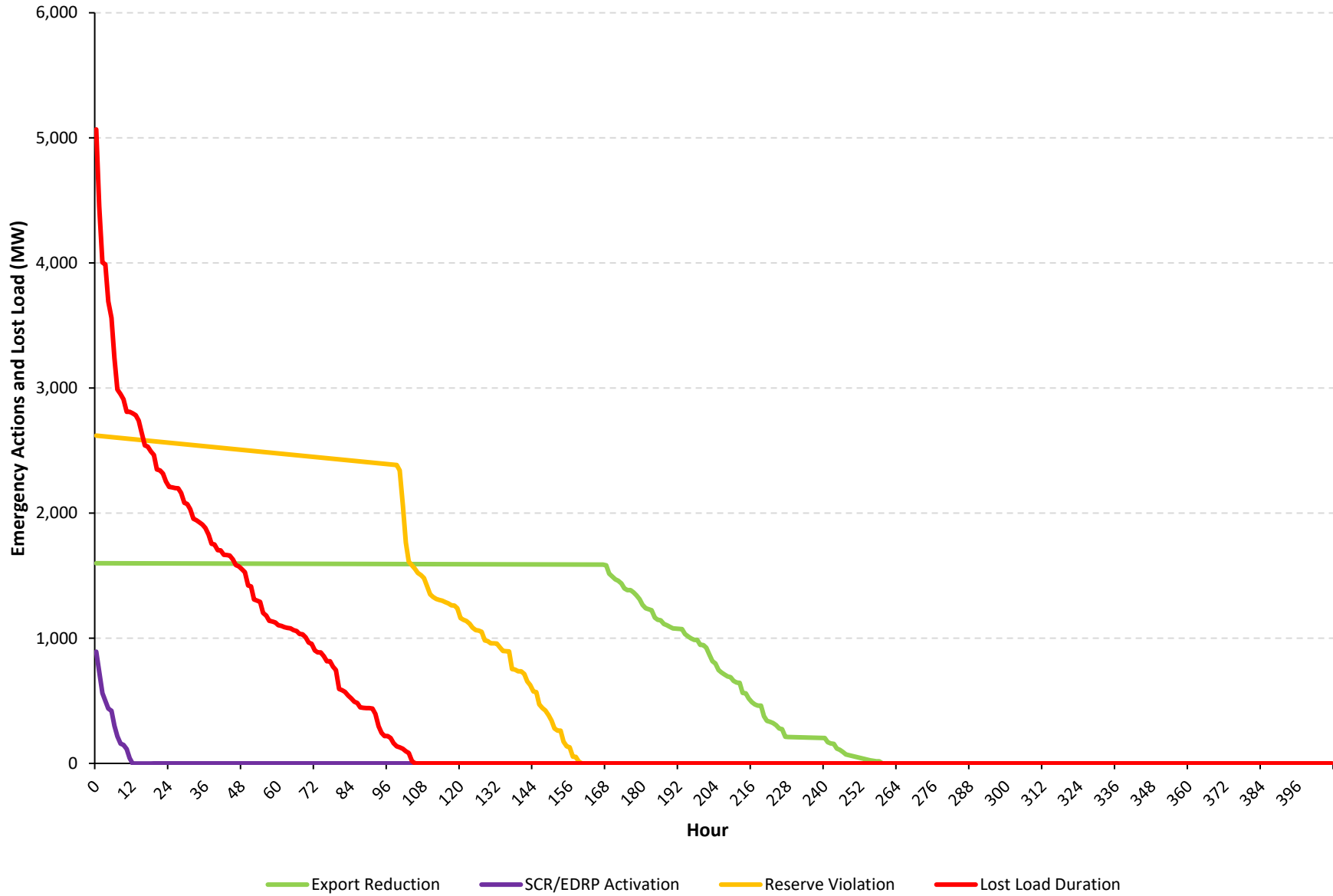
Scenario 8 - PD 9 Low Fuel Inventory



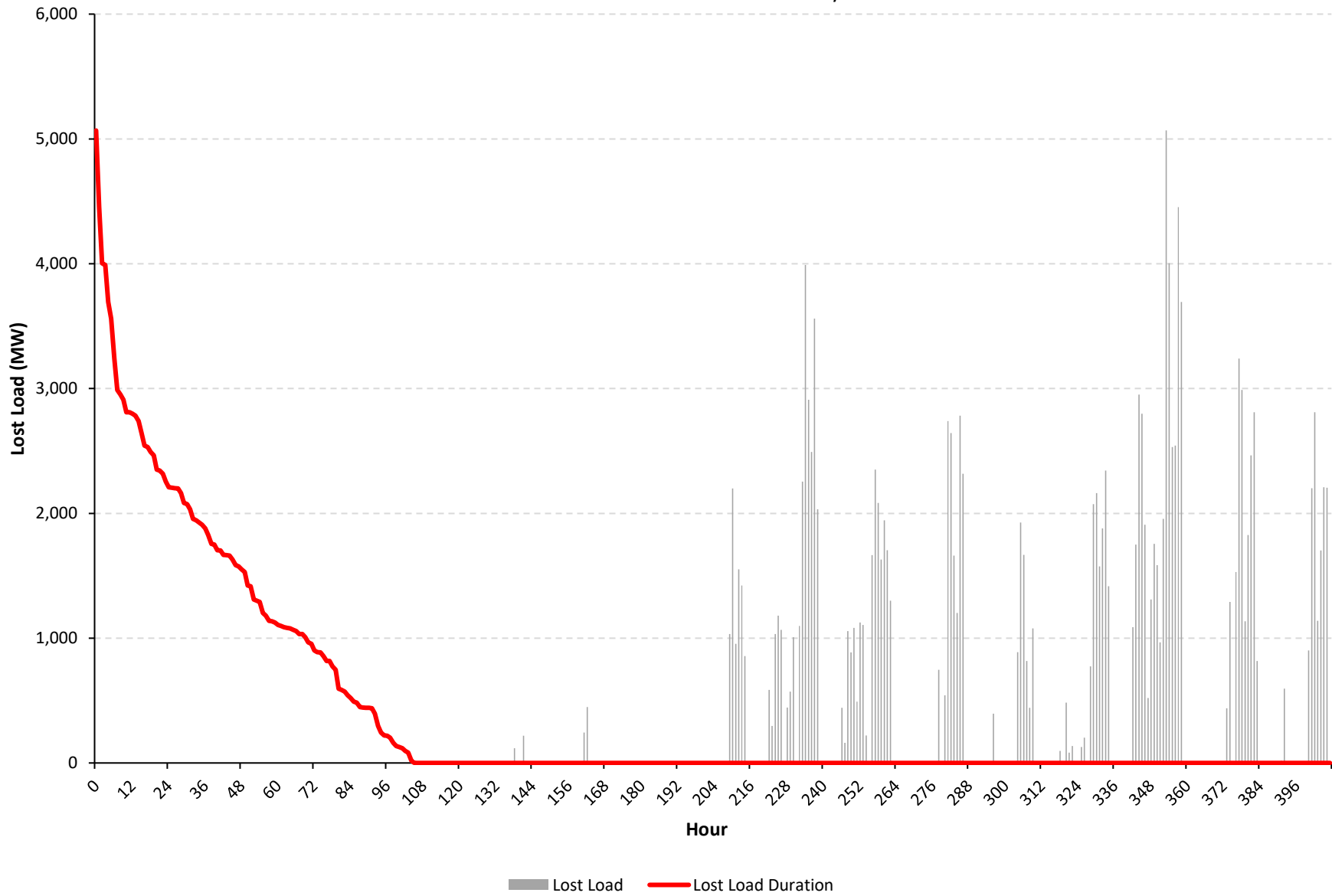
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 9 Low Fuel Inventory



NYCA
Lost Load Duration (MWh)
Scenario 8 - PD 9 Low Fuel Inventory

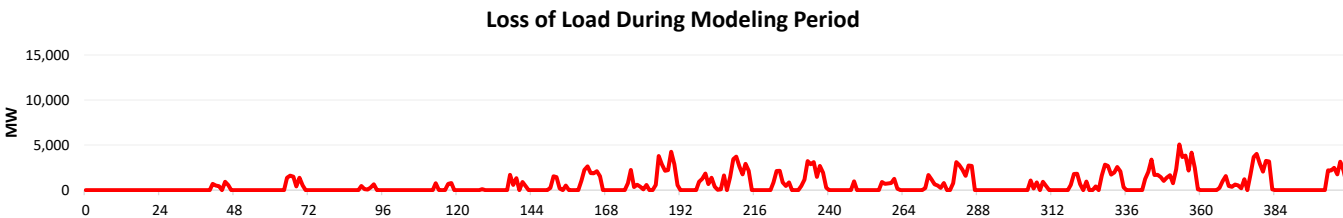
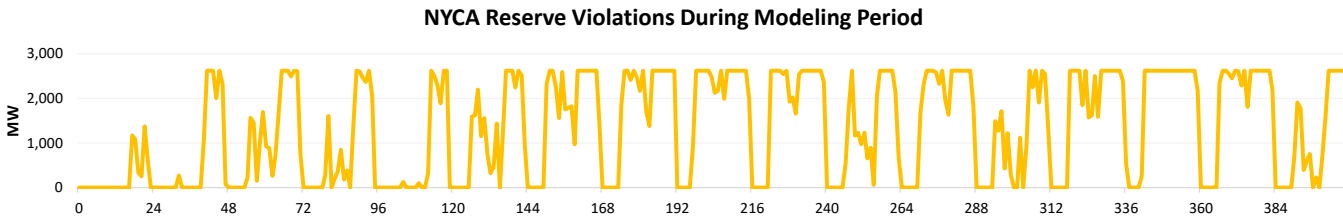
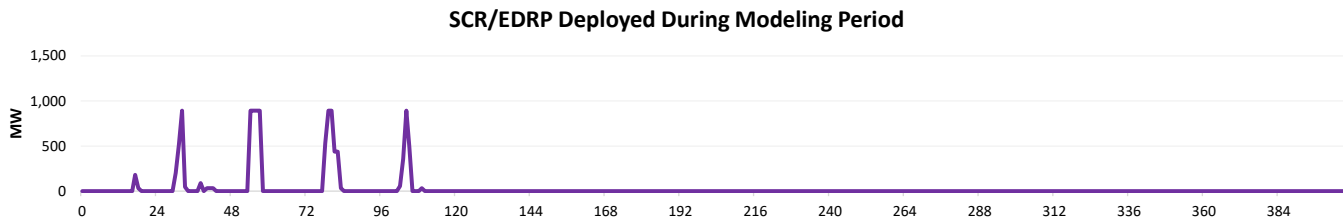
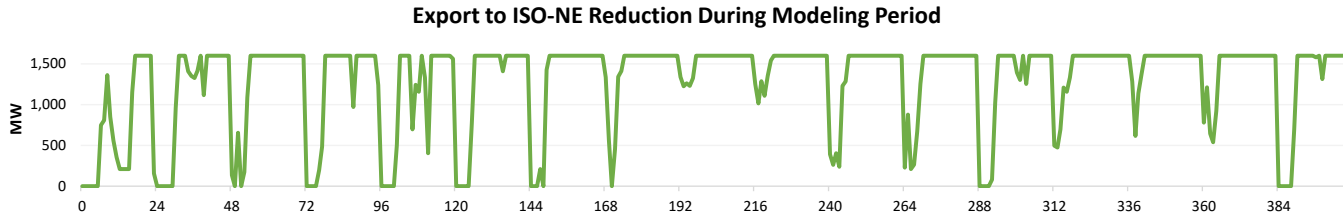
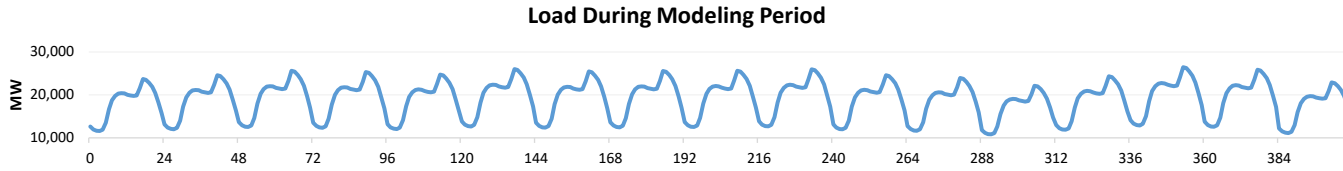


Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks
Case: Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)

Hourly Results Summary

Case Name: Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	366
Total MWh	523,744
Avg. MW	1,283.7

SCR Deployment	
Total Hrs.	25
Total MWh	10,682
Avg. MW	26.2

Reserve Violations	
Total Hrs.	270
Total MWh	544,182
Avg. MW	1,333.8
First Hour with Viol.	17
First Hour, Zone K	42

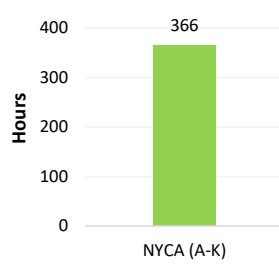
Loss of Load	
Total Hrs.	166
Total MWh	245,316
Avg. MW	601.3
First Hour with Losses	41
First Hour, Zone K	137

Full Period Results Summary

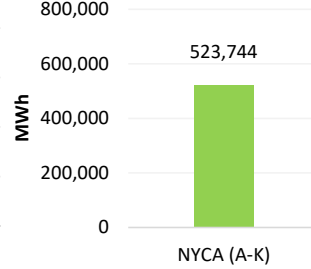
Case Name: Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	Off
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	None
Import Scenario:	0 MW

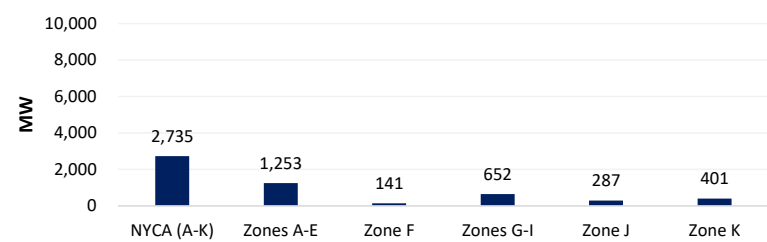
Hours Exports Reduced



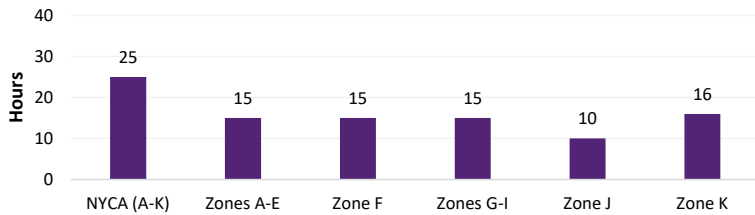
Total MWh of Exports Reduced



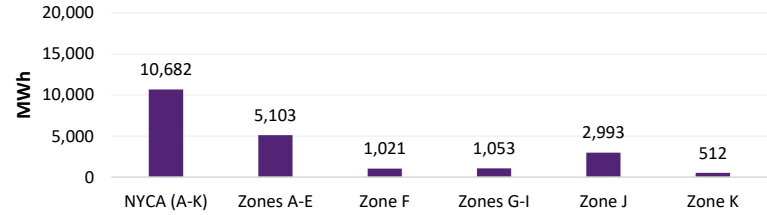
Average Capacity Not Available Due to Exhausted Fuel Inventory



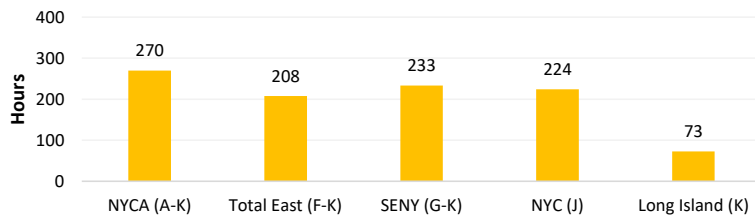
Hours SCR/EDRP Deployed



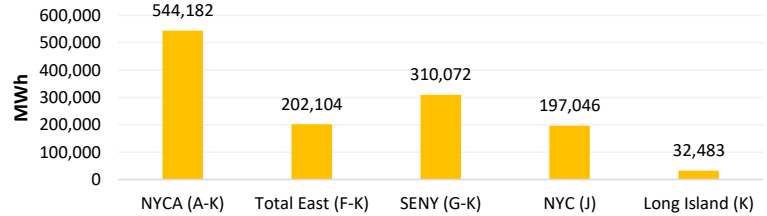
Total MWh SCR/EDRP Deployed



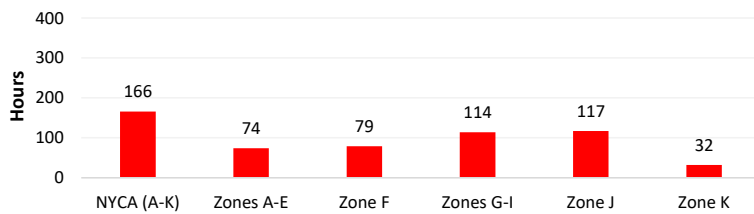
Hours with Reserve Violations



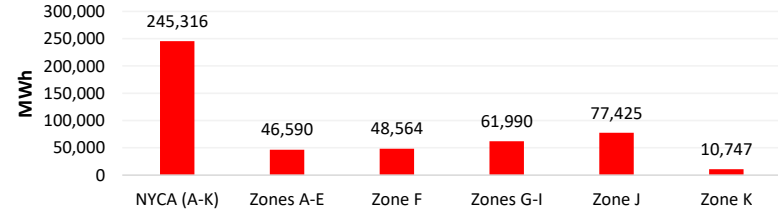
Total MWh of Reserve Violations



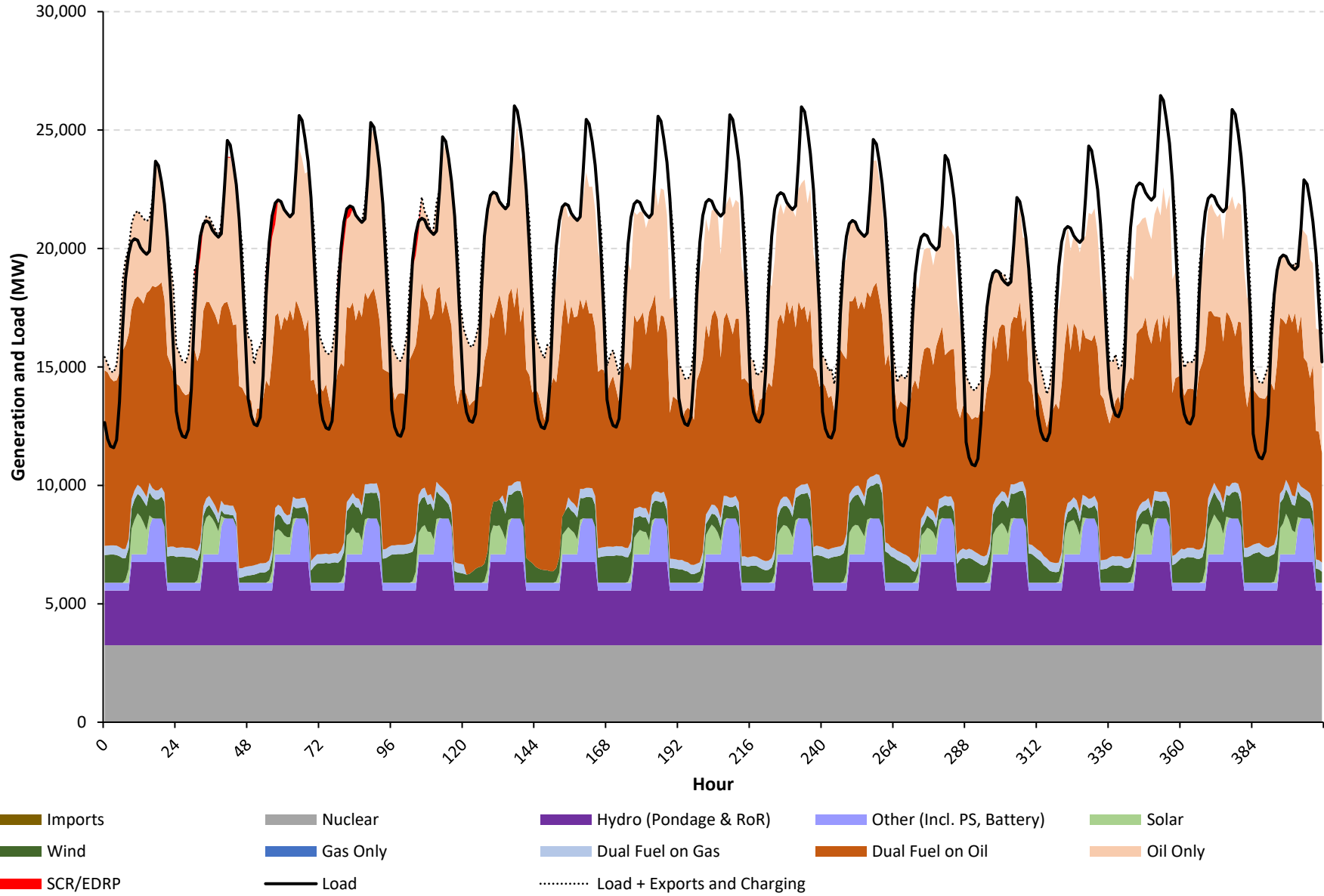
Hours with Loss of Load



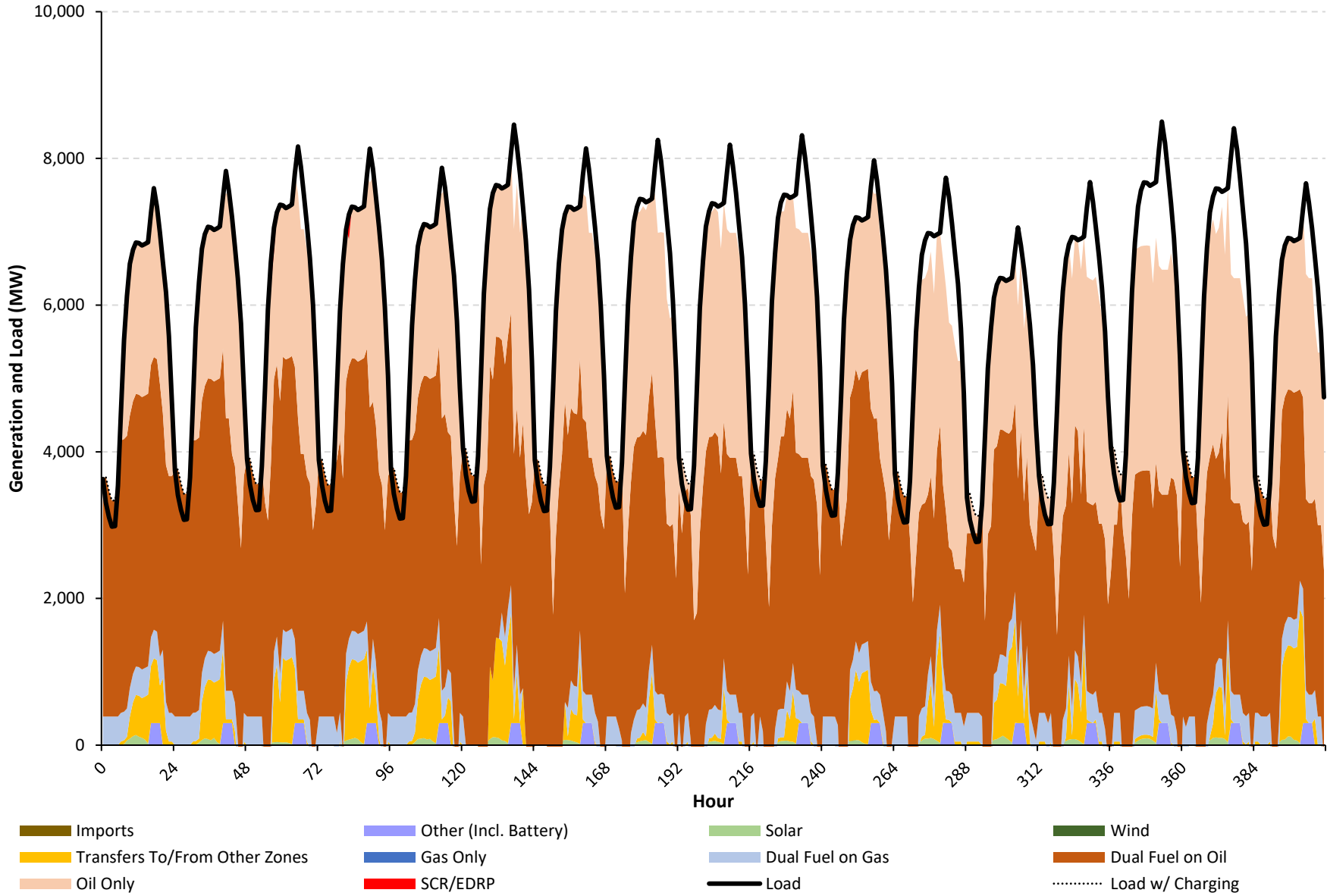
Total MWh of Lost Load



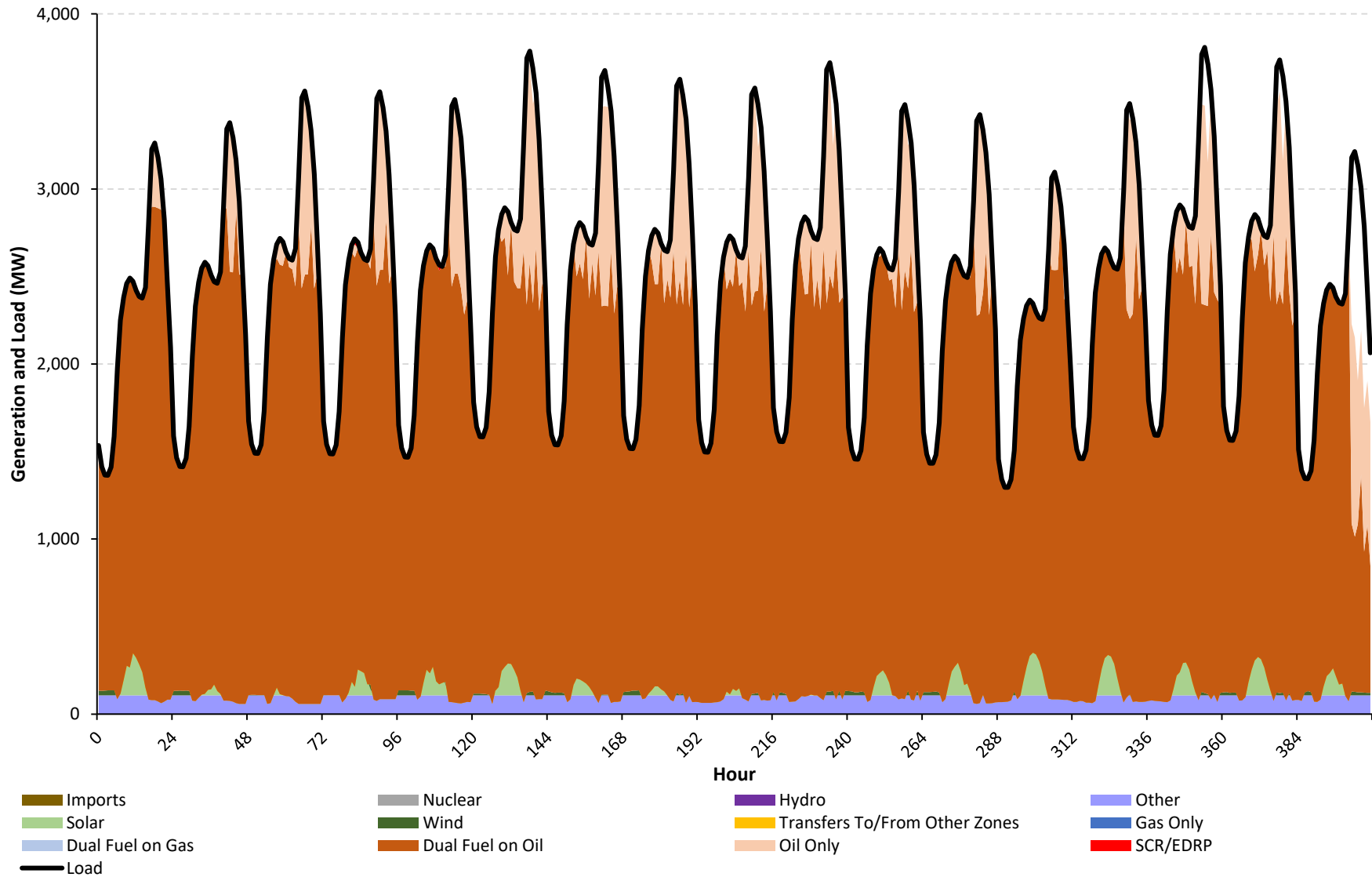
NYCA Hourly Generation (MWh) by Fuel Group Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



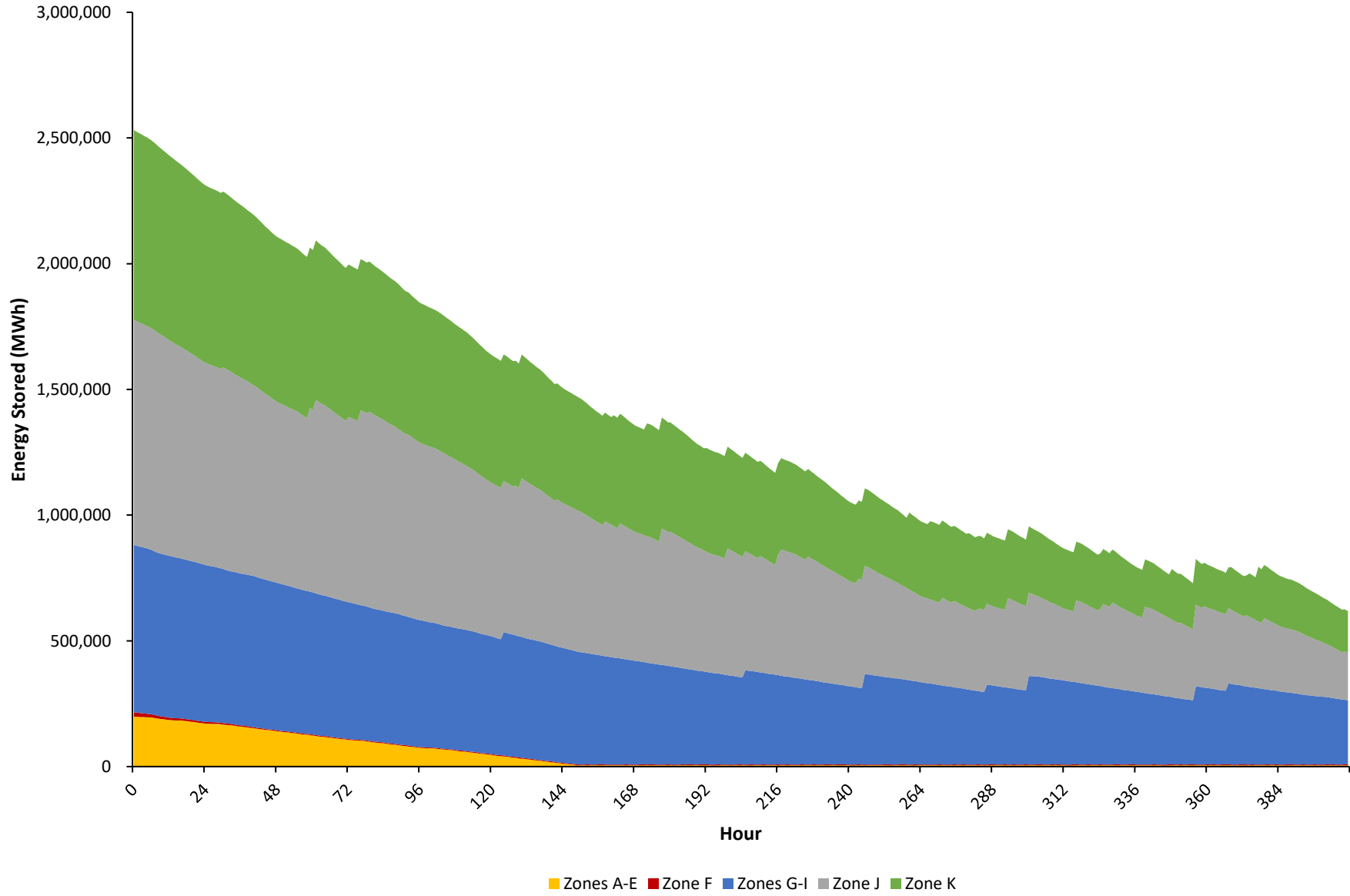
Zone J Hourly Generation (MW) by Fuel Group Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



Zone K Hourly Generation (MW) by Fuel Group Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)

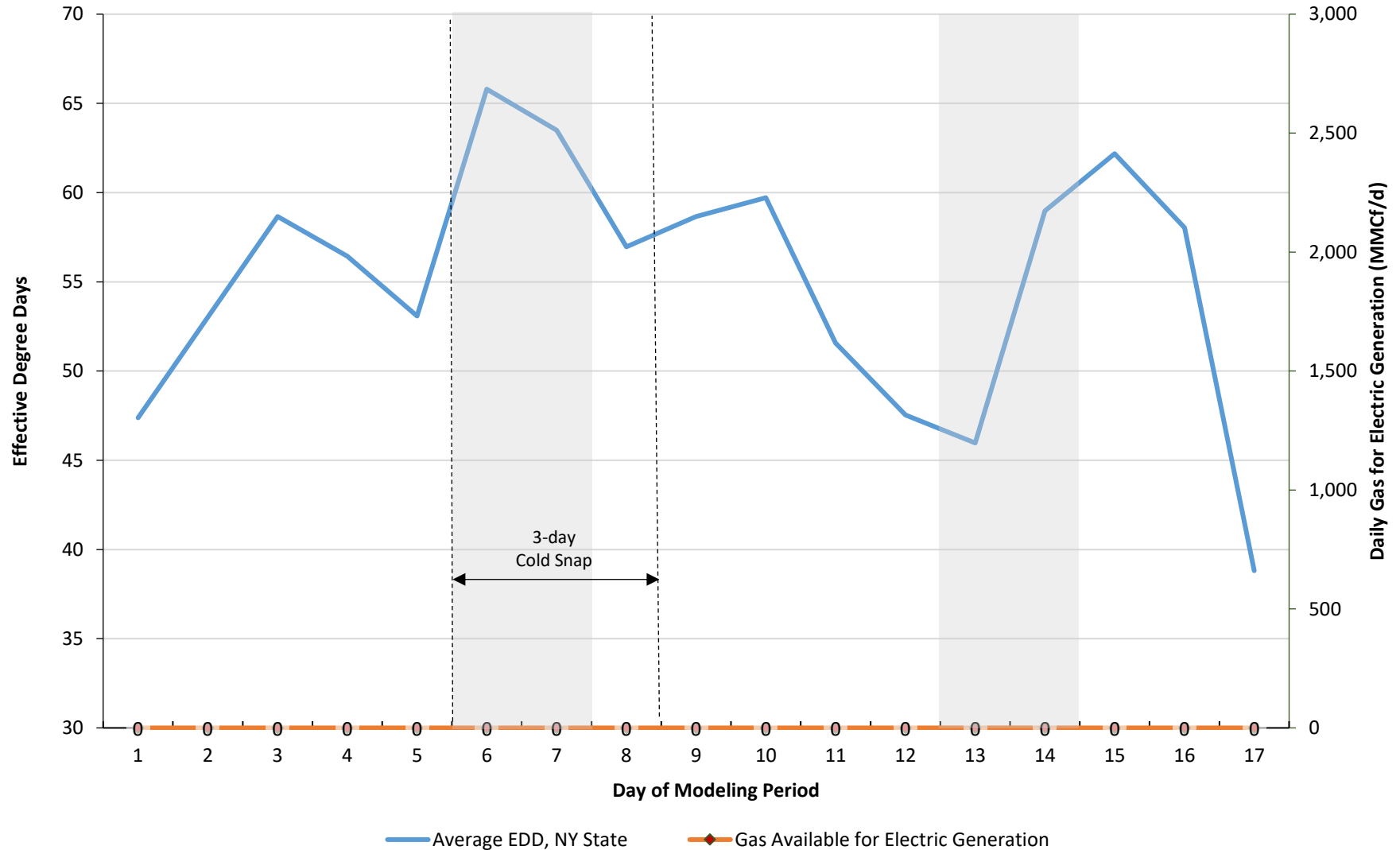


NYCA Quantity of Stored Fuel for Oil and Dual Fuel Units Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

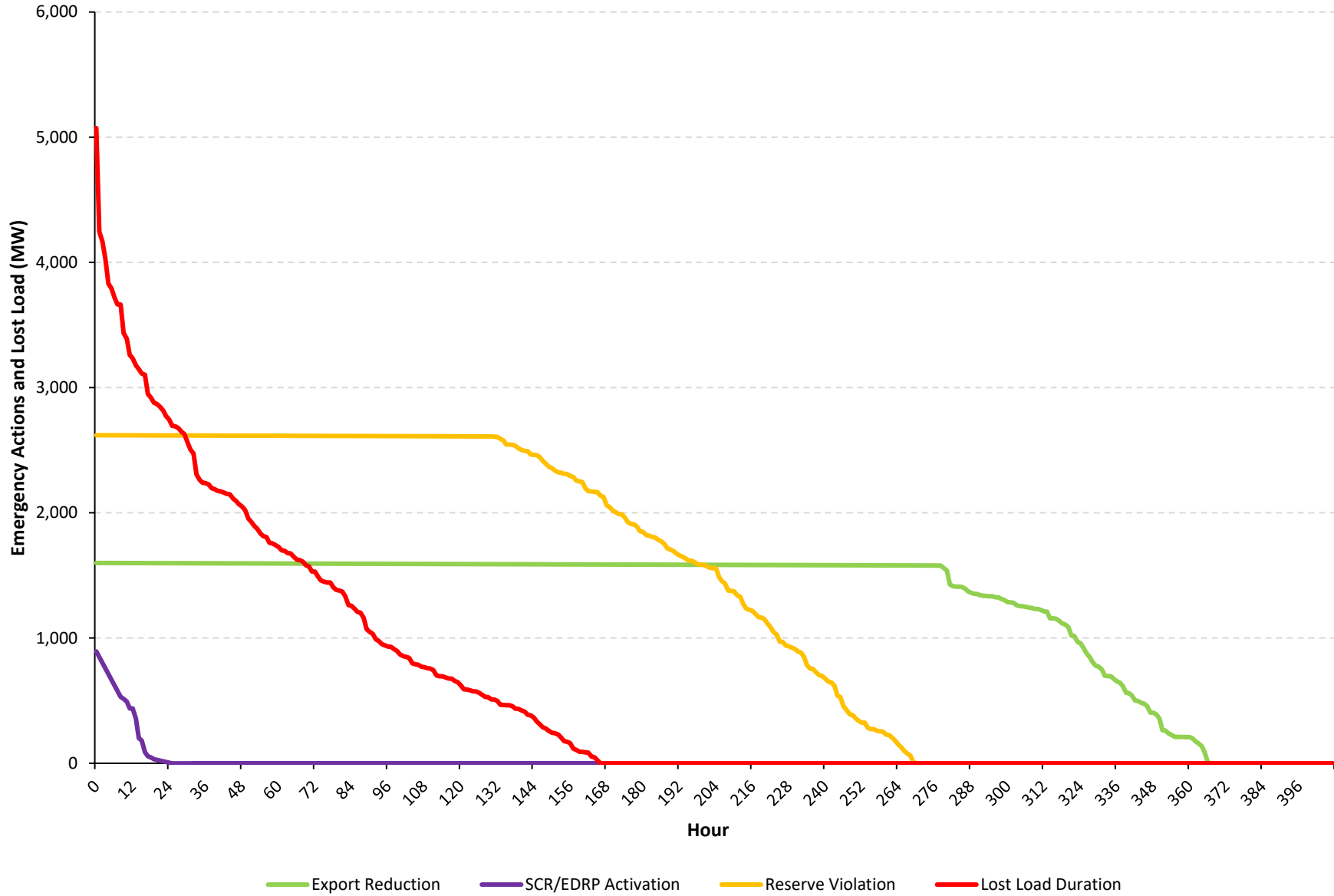
Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



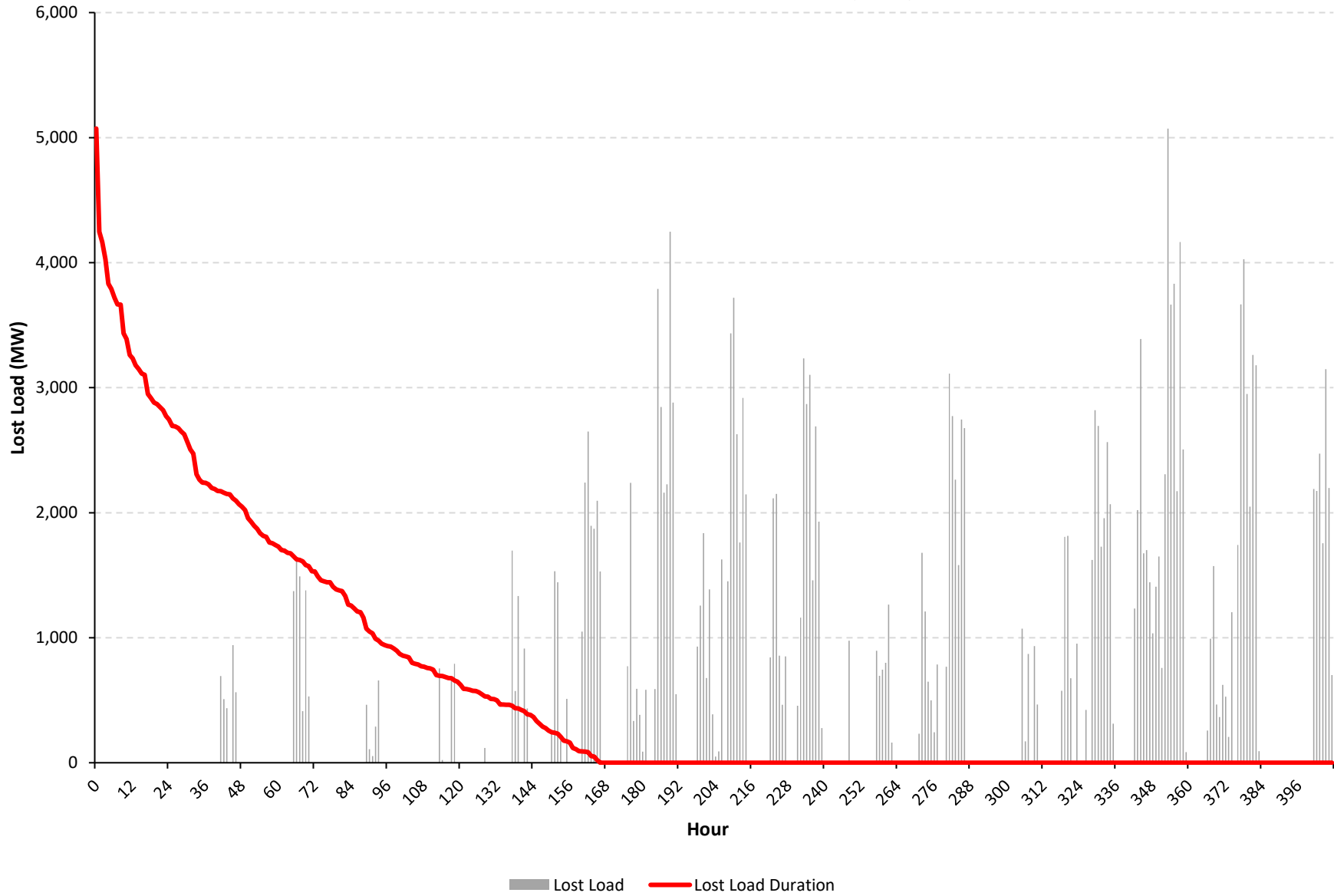
Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



NYCA
Lost Load Duration (MWh)
Scenario 8 - PD 10 Non-Firm Gas Unavailable (NYCA)



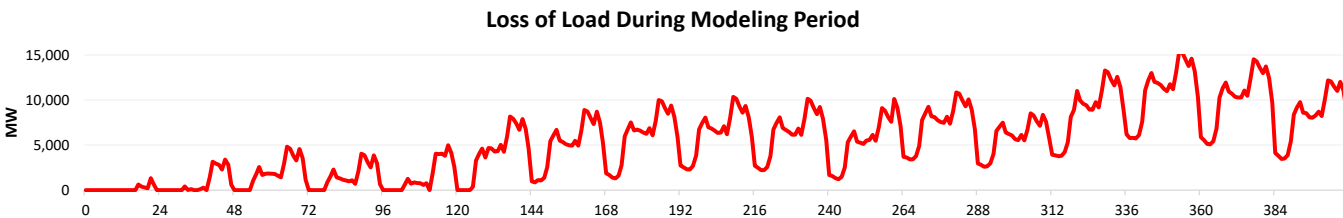
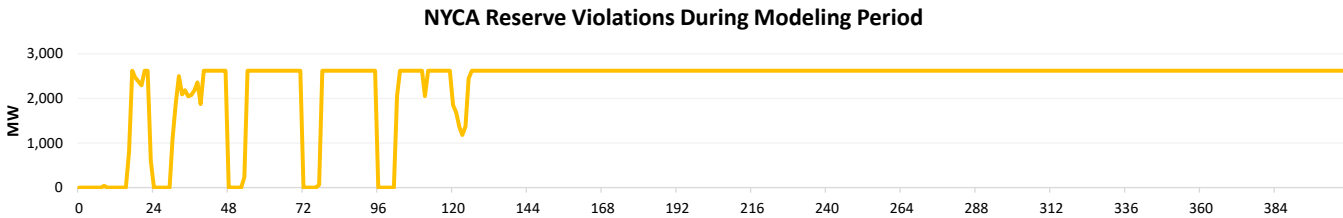
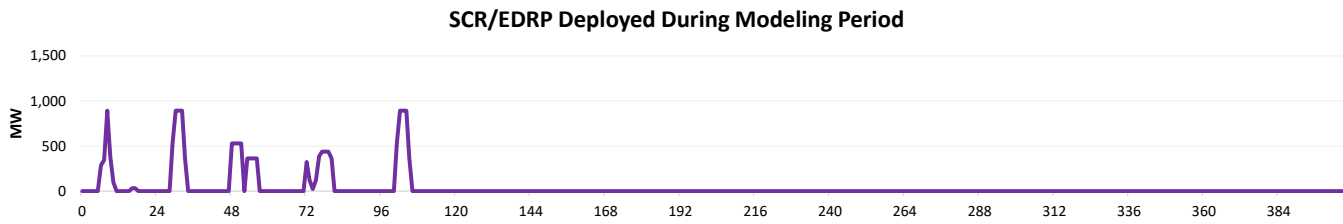
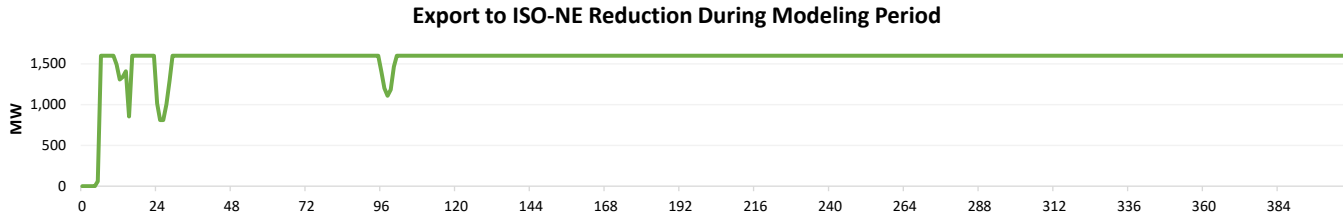
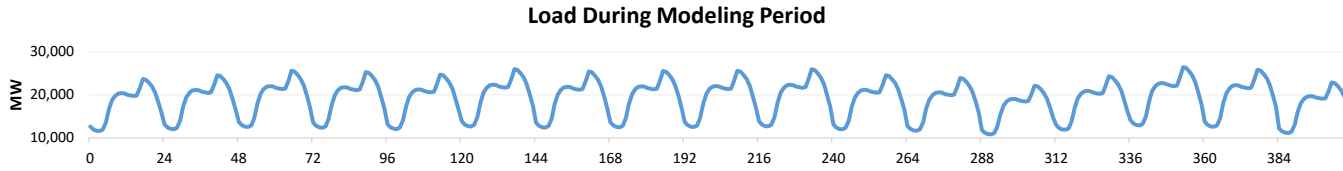
Appendix E. Diagnostic Charts for Cases with Identified Reliability Risks

Case: Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Hourly Results Summary

Case Name: Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

Case Summary	
Load:	Revised Initial
Derate (EFORd) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



Export Reductions	
Total Hrs.	403
Total MWh	636,961
Avg. MW	1,561.2

SCR Deployment	
Total Hrs.	34
Total MWh	15,436
Avg. MW	37.8

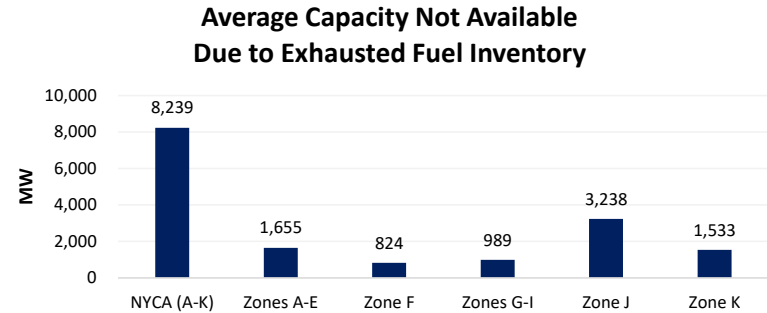
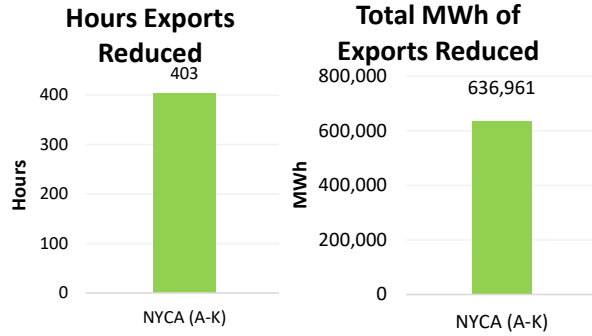
Reserve Violations	
Total Hrs.	371
Total MWh	947,046
Avg. MW	2,321.2
First Hour with Viol.	8
First Hour, Zone K	41

Loss of Load	
Total Hrs.	354
Total MWh	2,188,073
Avg. MW	5,362.9
First Hour with Losses	17
First Hour, Zone K	65

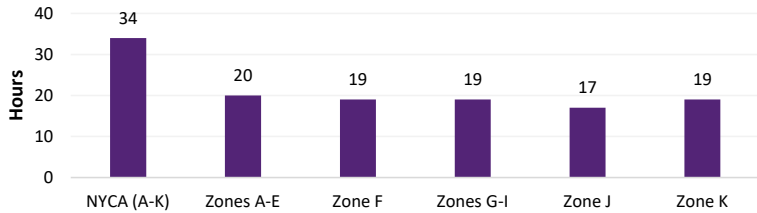
Full Period Results Summary

Case Name: Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

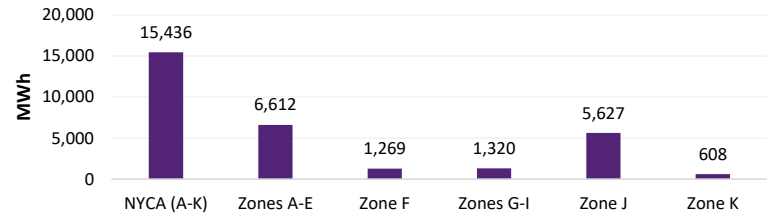
Case Summary	
Load:	Revised Initial
Derate (EFORD) Increase:	Off
Renewables:	Delayed
Peaker Scenario:	On
Starting Storage:	Historical
Refill Contingency:	No Refill
Loss of Gas Fired Gen.:	NYISO
Nuclear Contingency:	Off
Plant Outage:	Roseton
Import Scenario:	0 MW



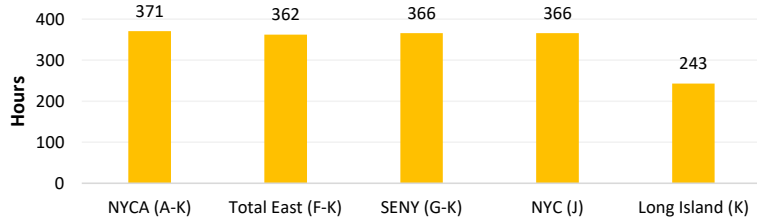
Hours SCR/EDRP Deployed



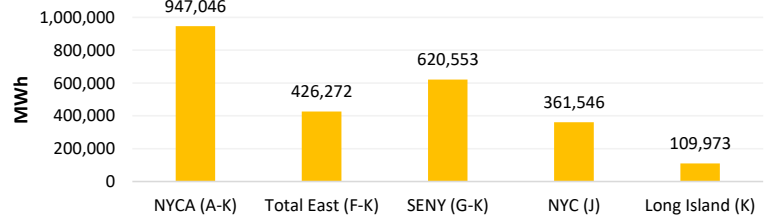
Total MWh SCR/EDRP Deployed



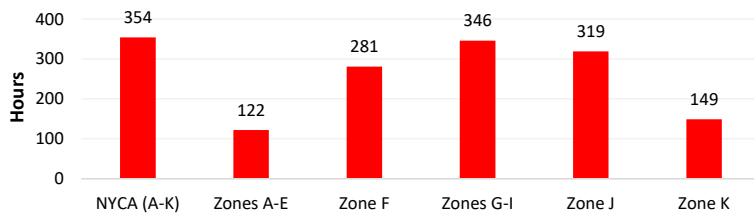
Hours with Reserve Violations



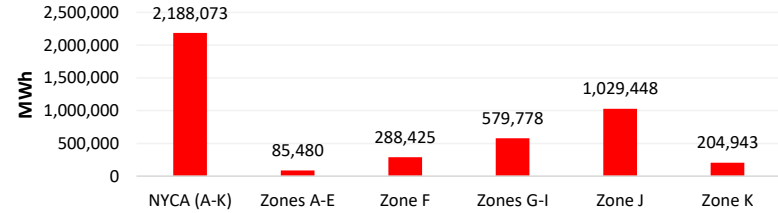
Total MWh of Reserve Violations



Hours with Loss of Load



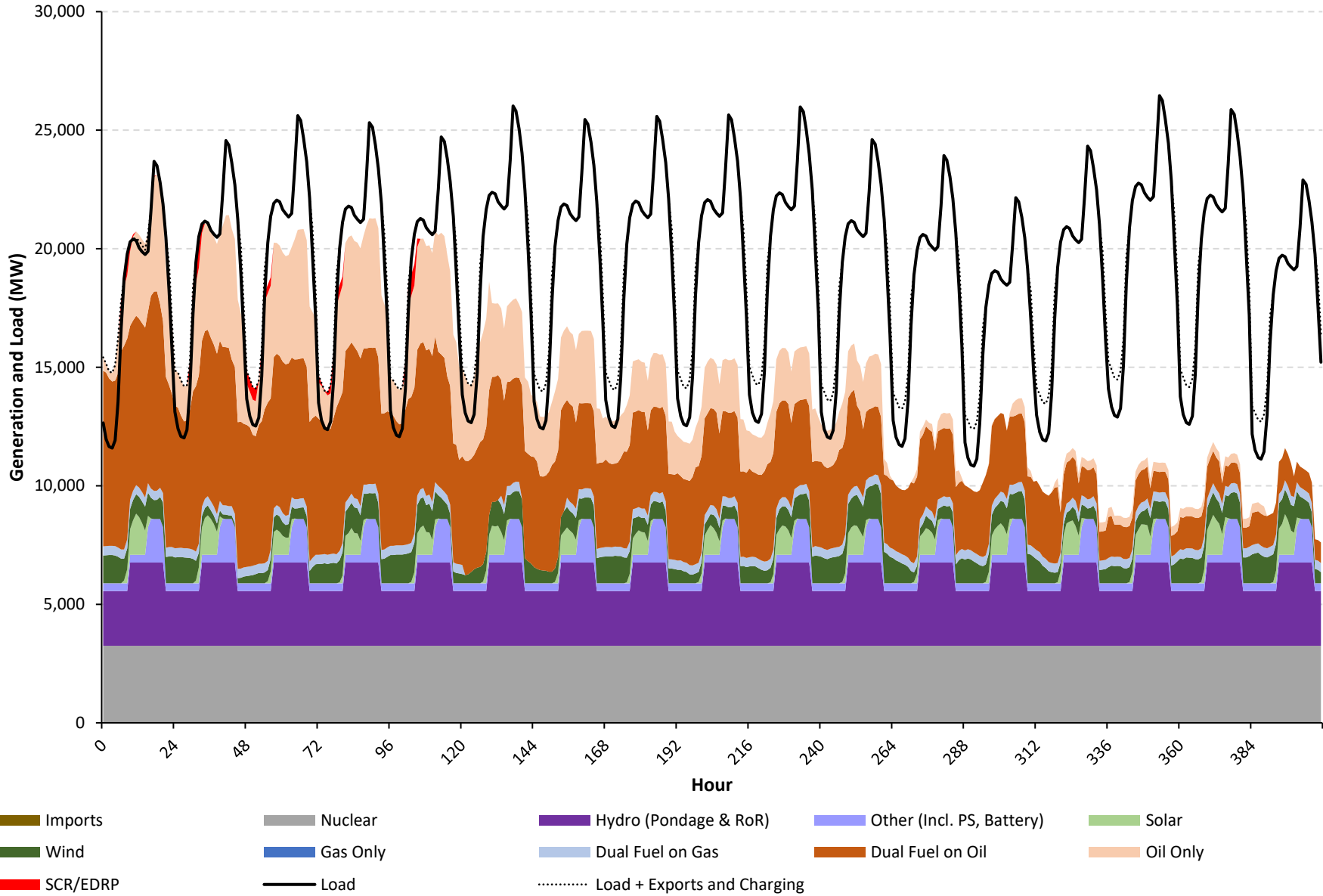
Total MWh of Lost Load



NYCA

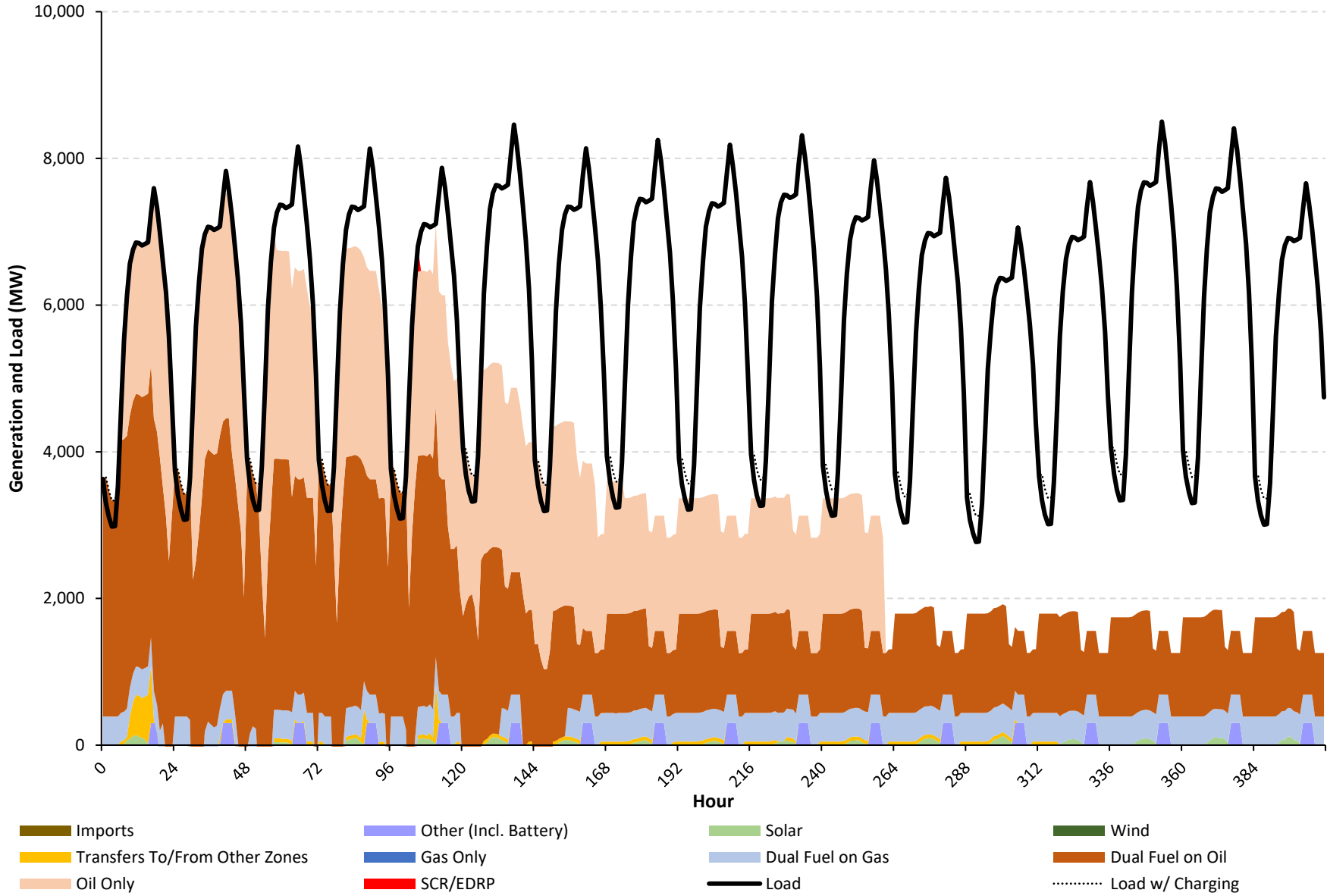
Hourly Generation (MWh) by Fuel Group

Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



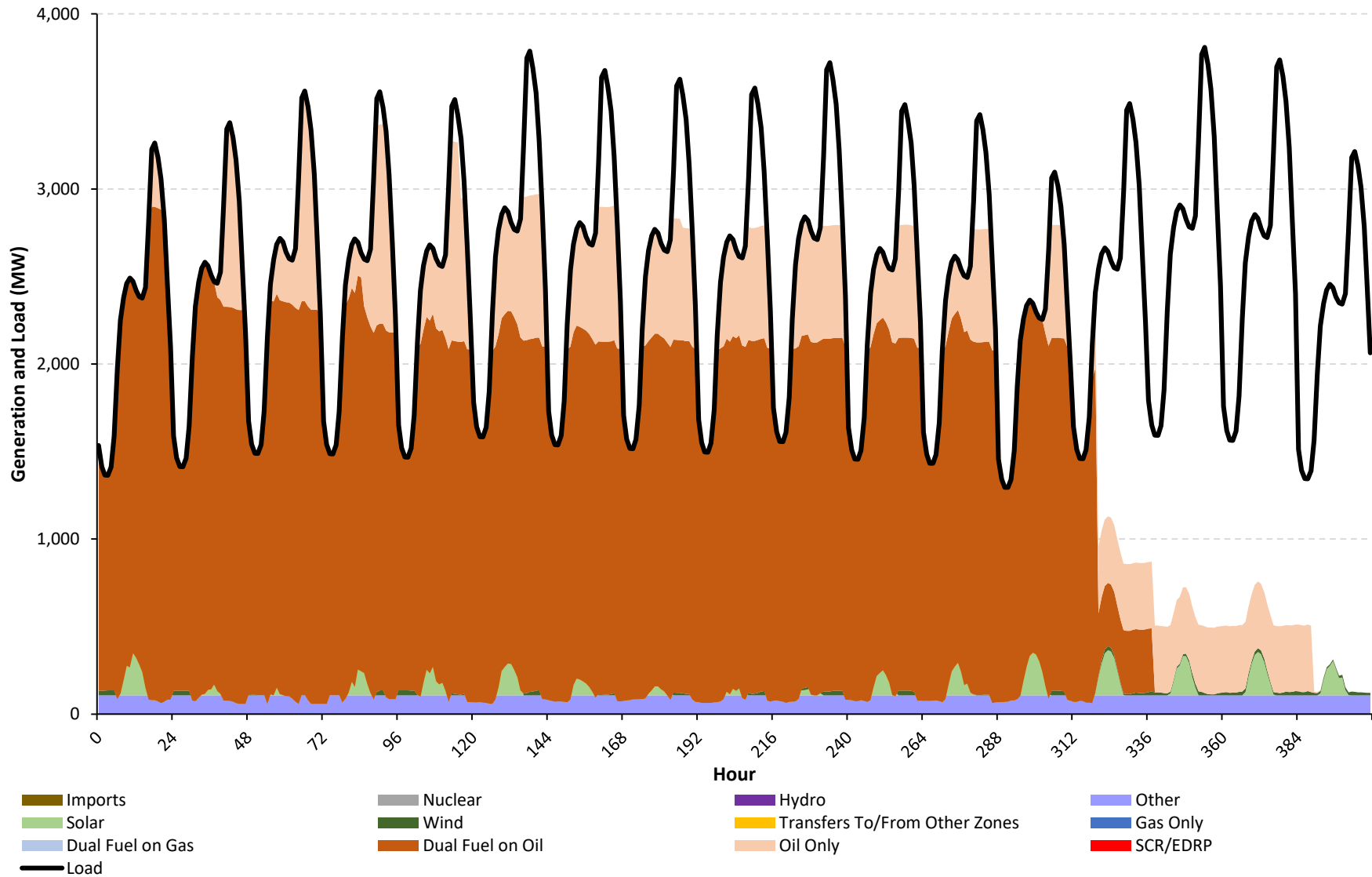
Zone J Hourly Generation (MW) by Fuel Group

Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

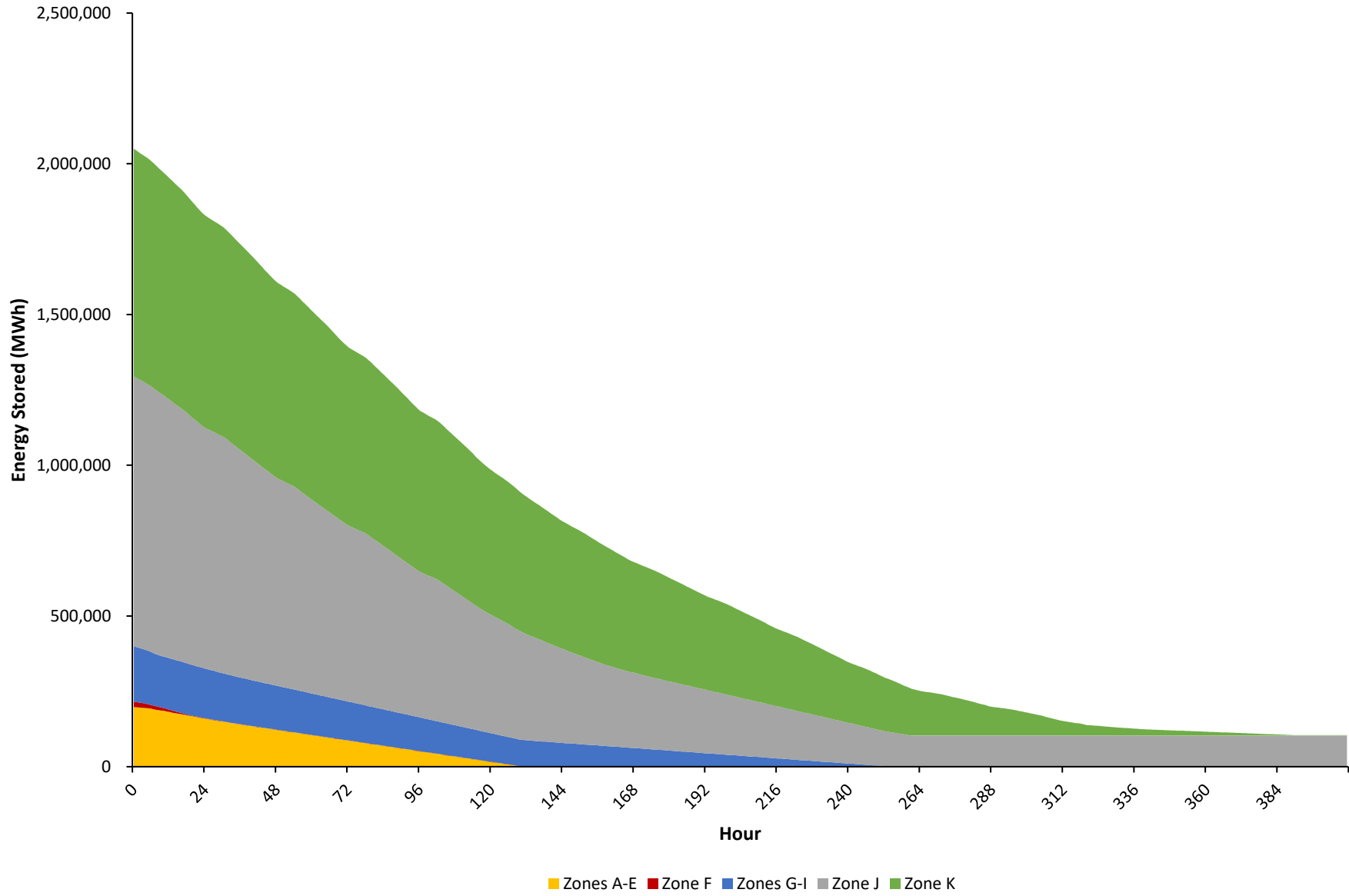


Zone K Hourly Generation (MW) by Fuel Group

Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

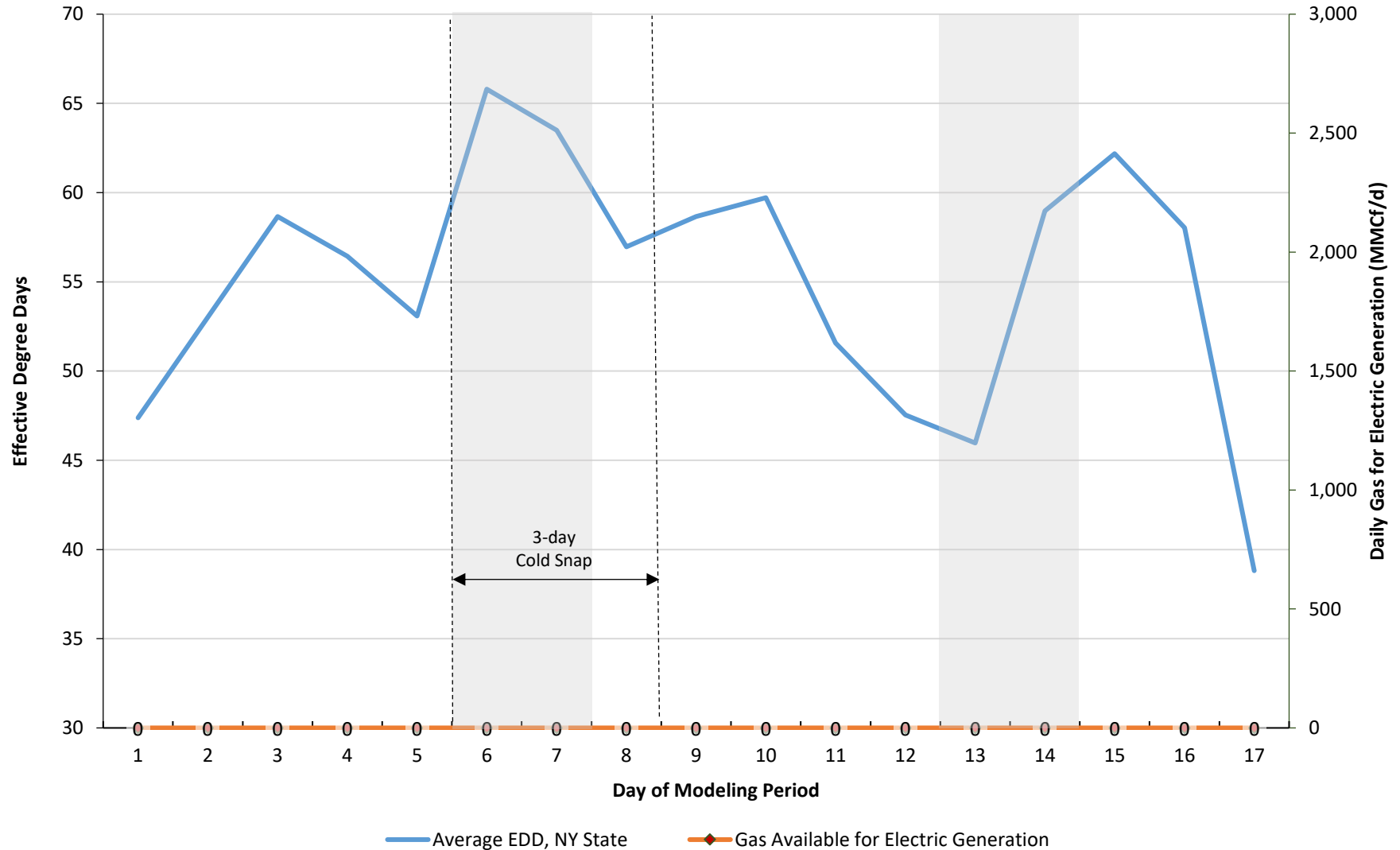


NYCA
Quantity of Stored Fuel for Oil and Dual Fuel Units
Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Degree Days and Gas Available for Electric Generation 17-Day Modeling Period

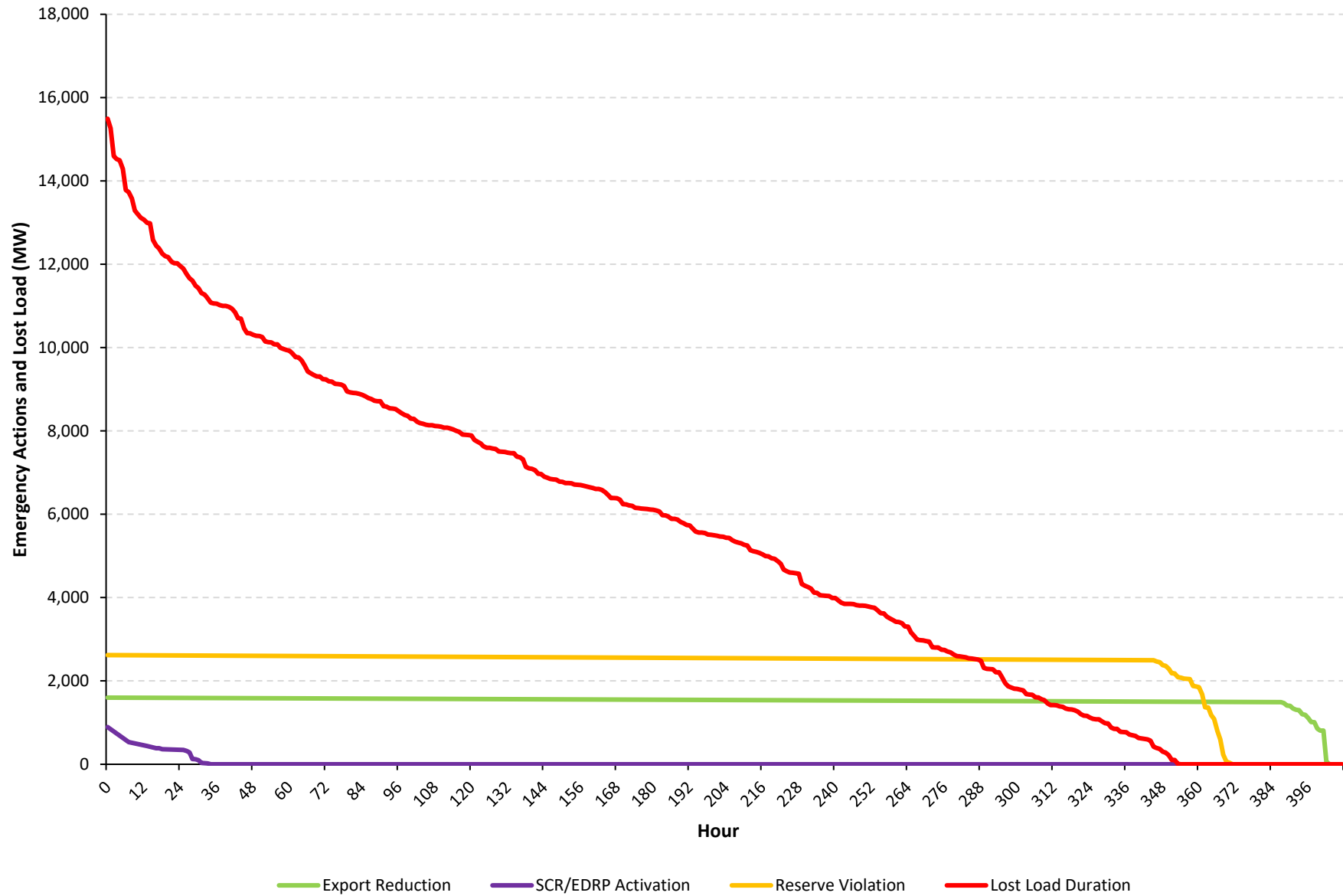
Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



Notes:

- [1] Weekends are shaded in gray.
- [2] Effective degree day is defined as 65 degrees F - Temperature.

NYCA Emergency Actions and Lost Load Duration (MWh) Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill



NYCA Lost Load Duration (MWh)

Scenario 8 - PD 11 Non-Firm Gas Unavailable (NYCA) + SENY Deact. + No Refill

