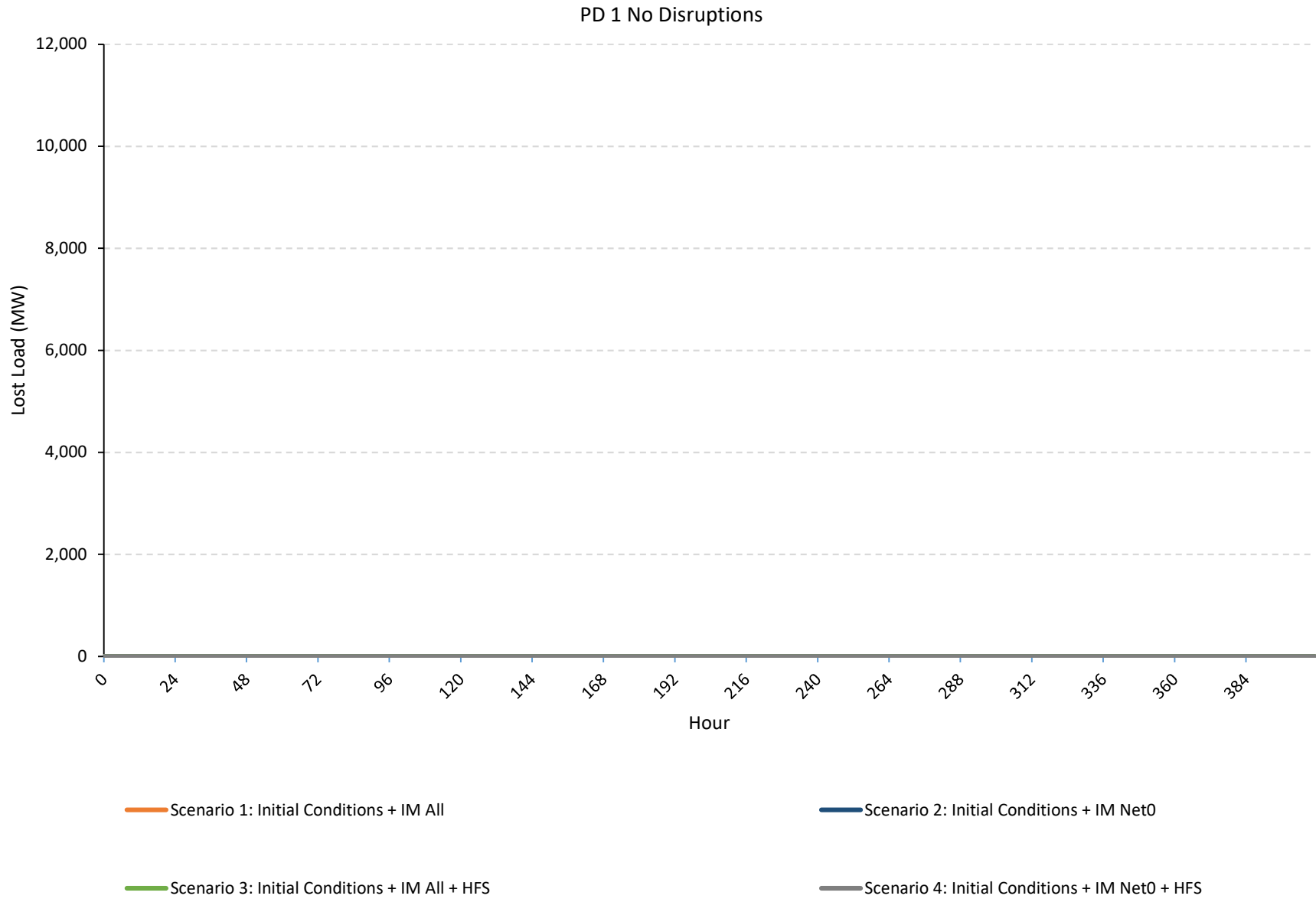


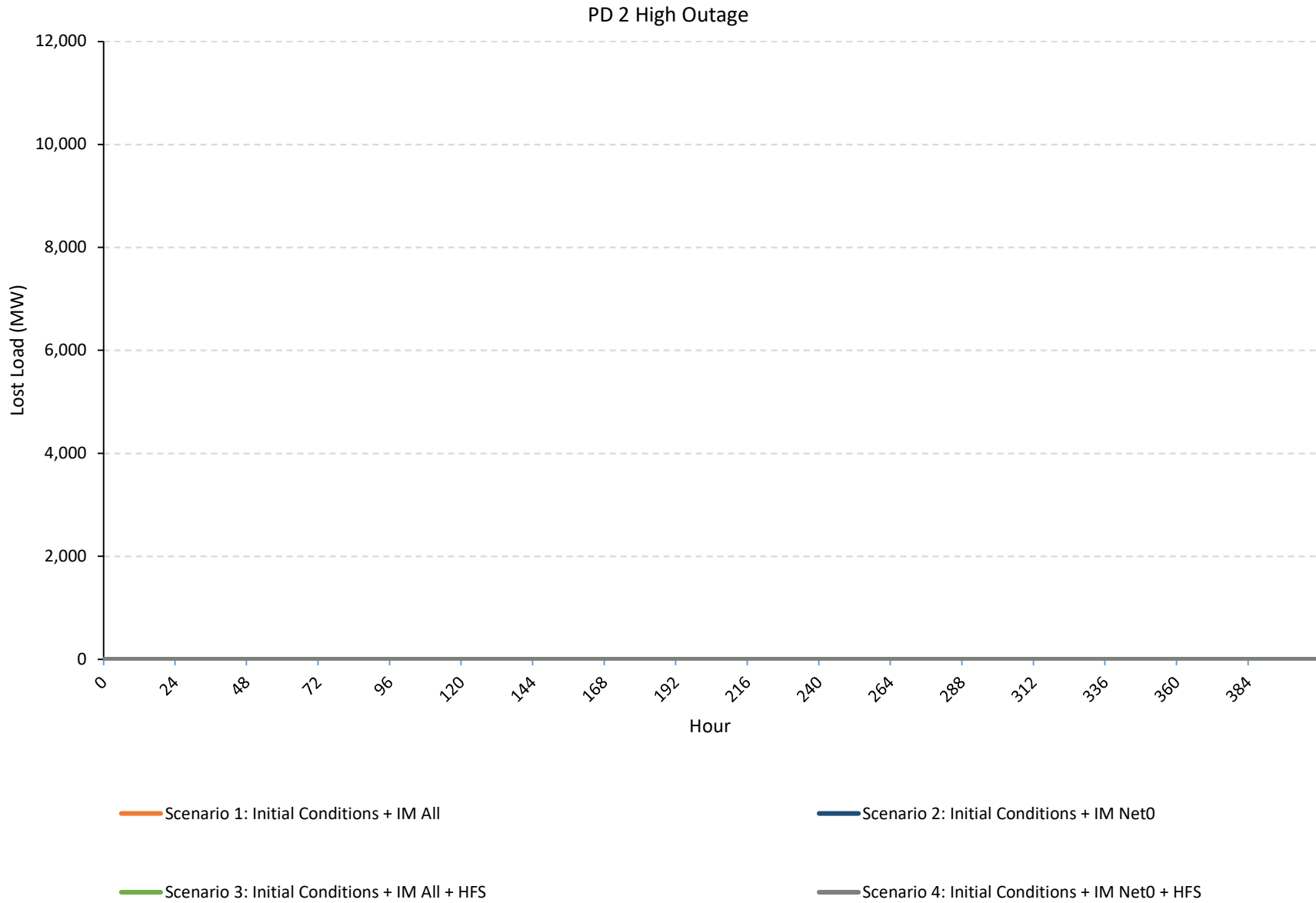
## **Appendix D. Loss of Load Duration Curves for all Scenarios and Disruptions**

### **Winter 2023/2024**

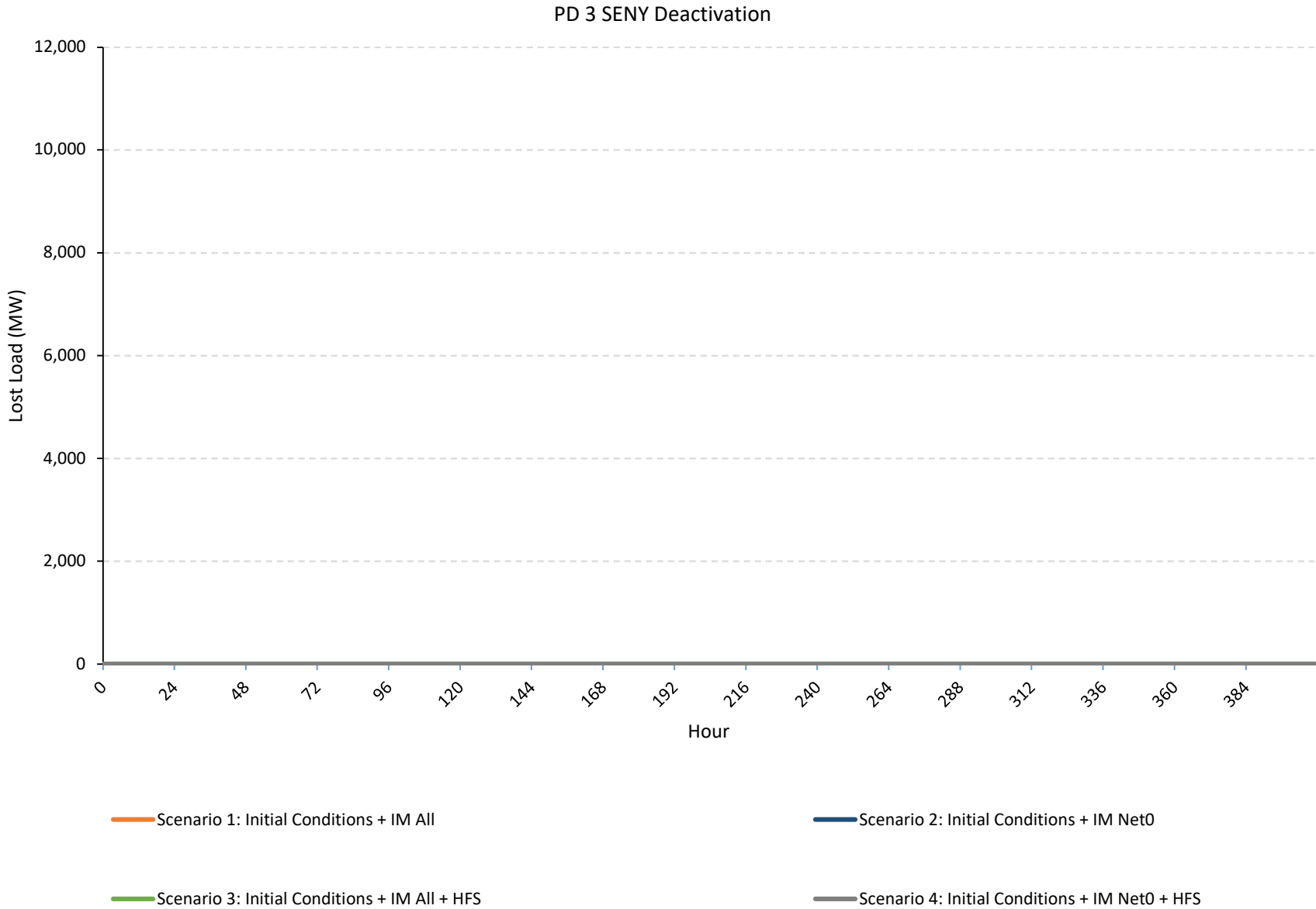
### NYCA Lost Load Duration (MWh) - Winter 2023/2024



### NYCA Lost Load Duration (MWh) - Winter 2023/2024

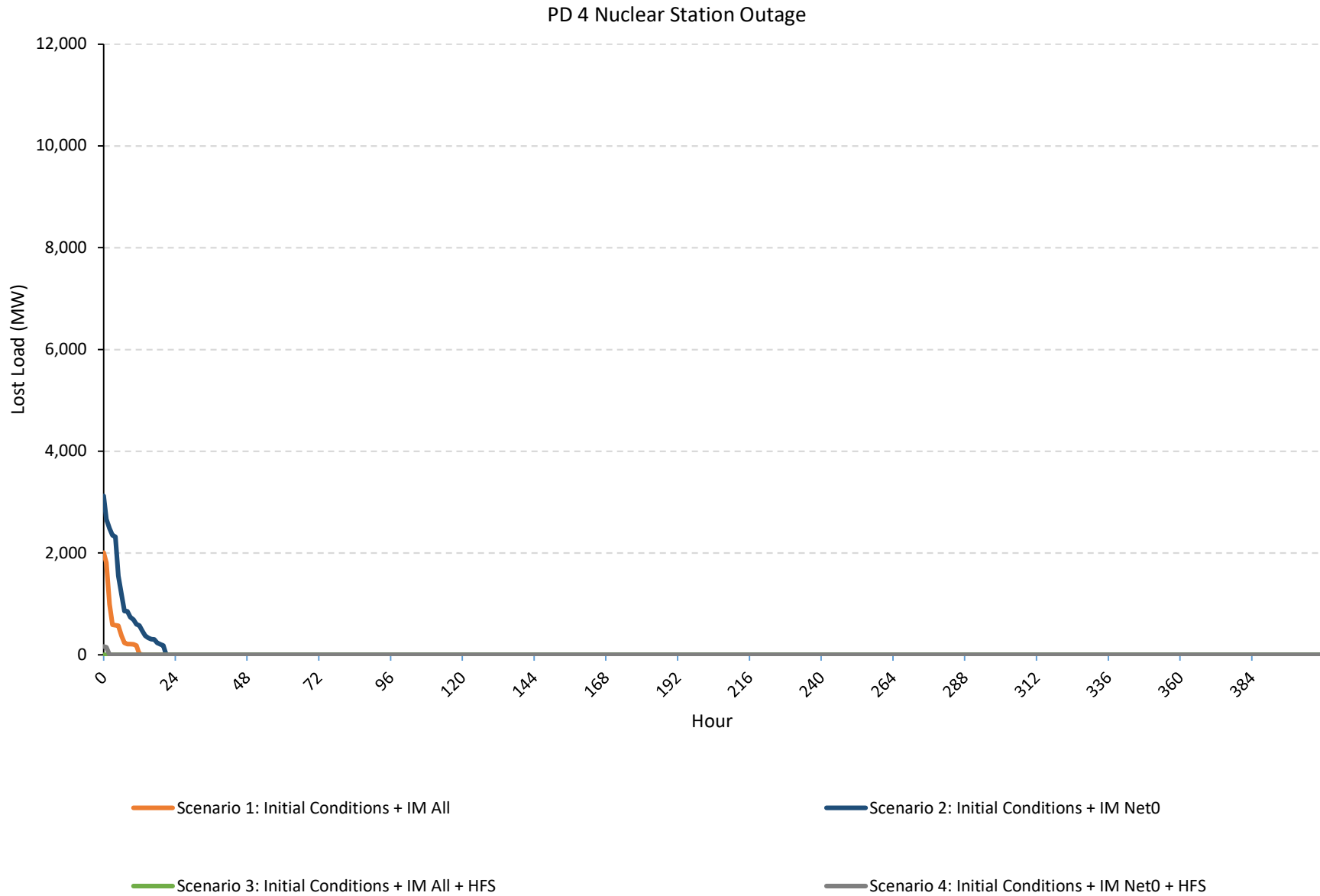


### NYCA Lost Load Duration (MWh) - Winter 2023/2024



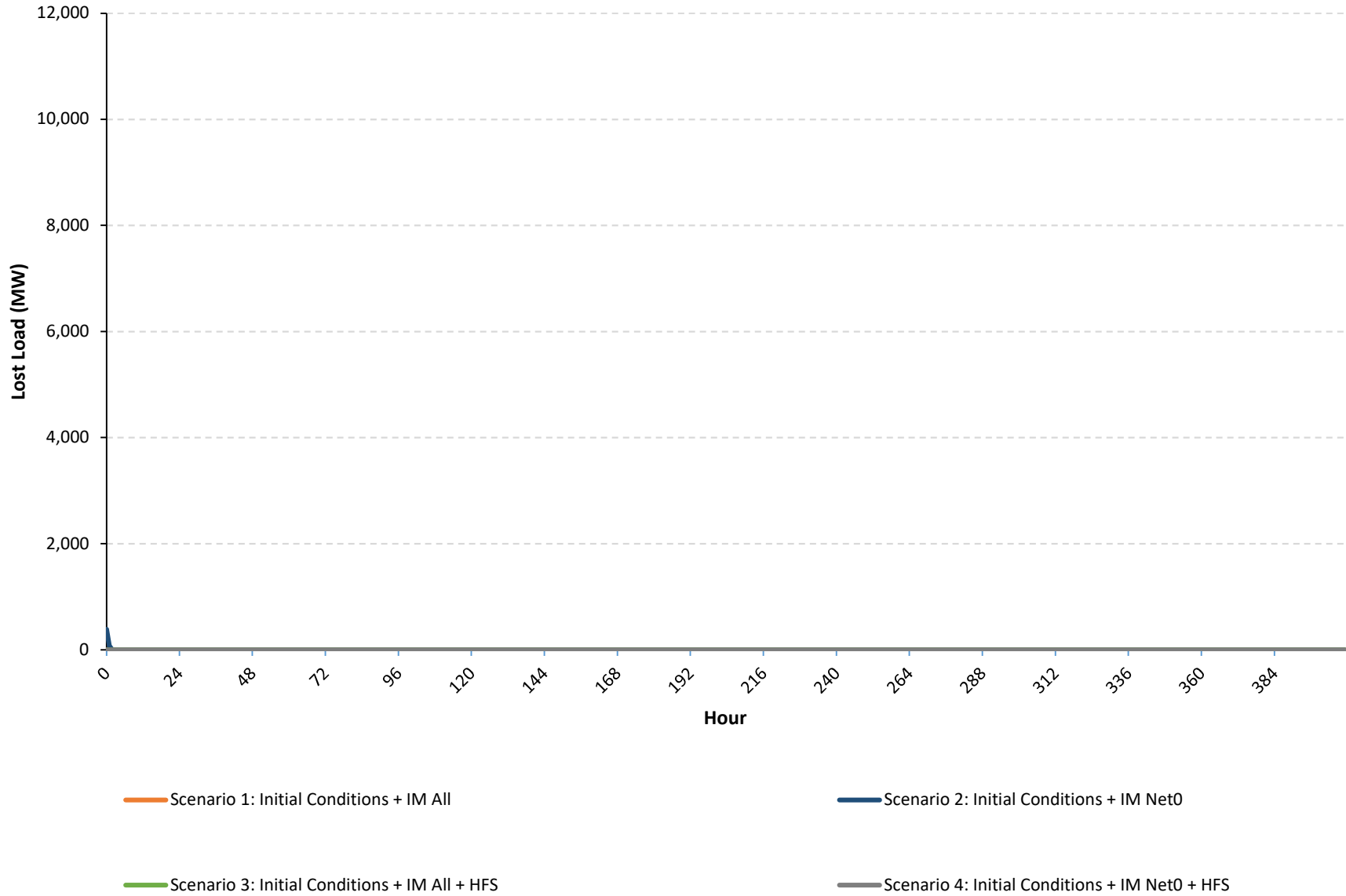


### NYCA Lost Load Duration (MWh) - Winter 2023/2024

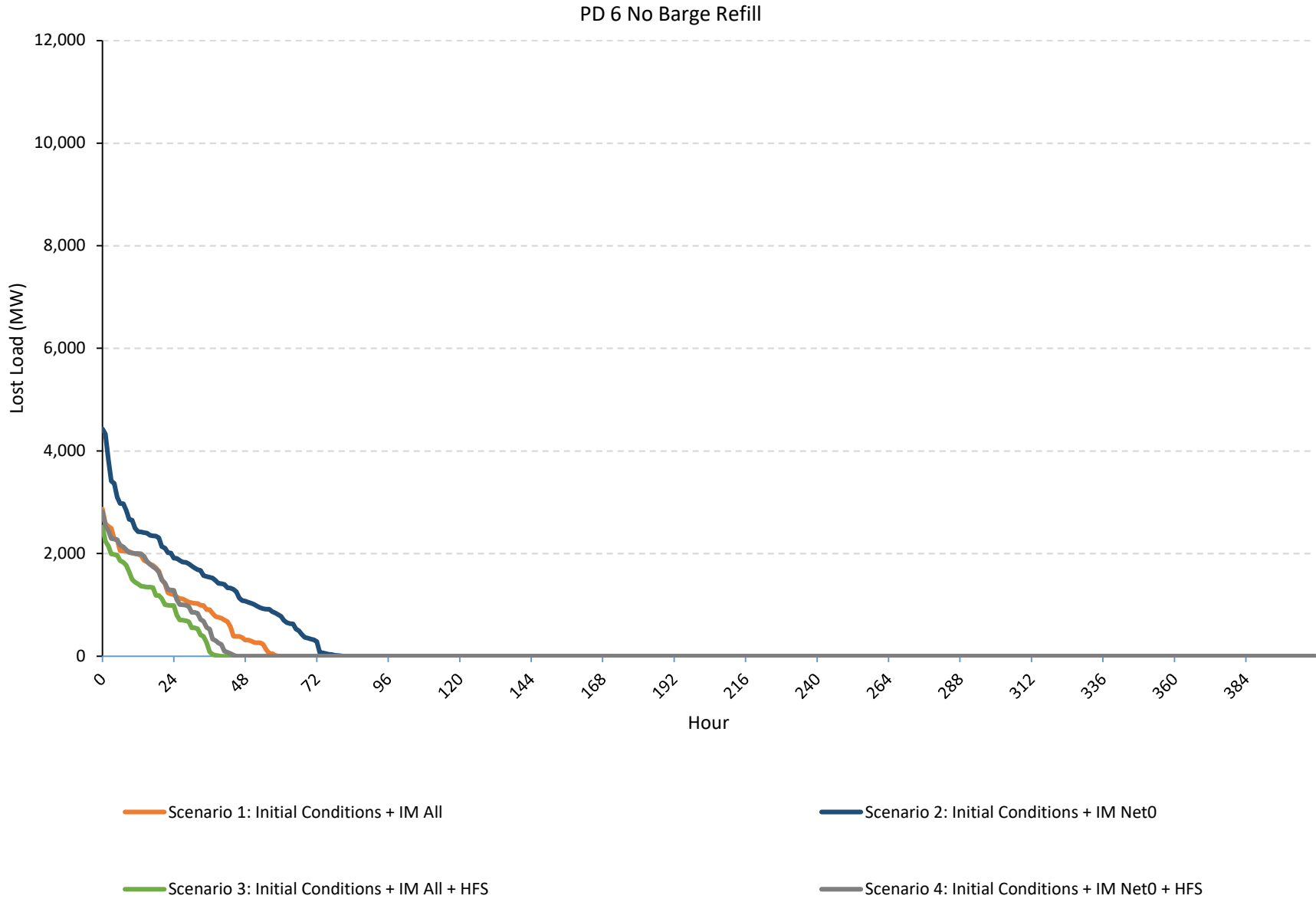


### NYCA Lost Load Duration (MWh) - Winter 2023/2024

PD 5 No Truck Refill

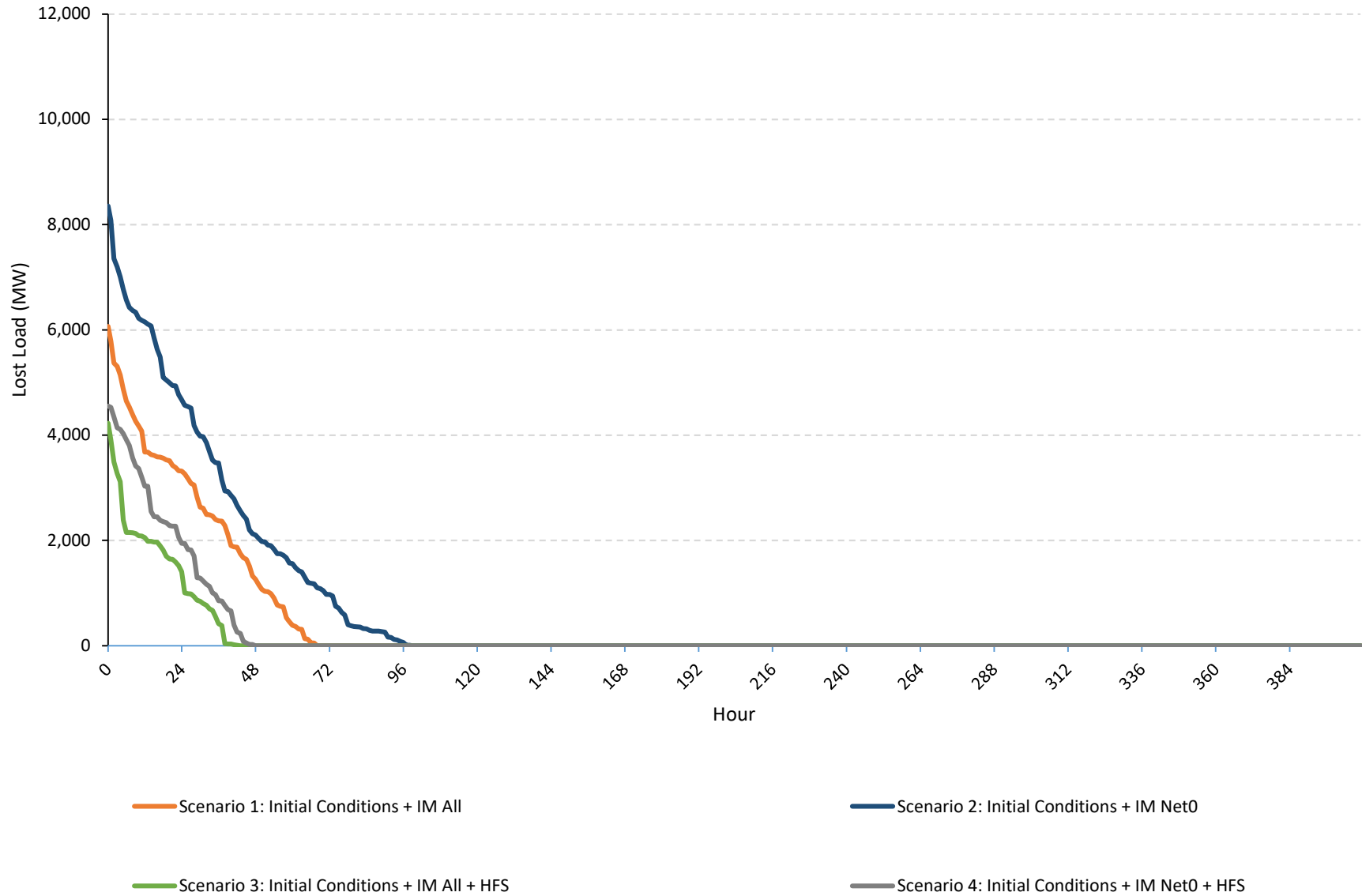


### NYCA Lost Load Duration (MWh) - Winter 2023/2024

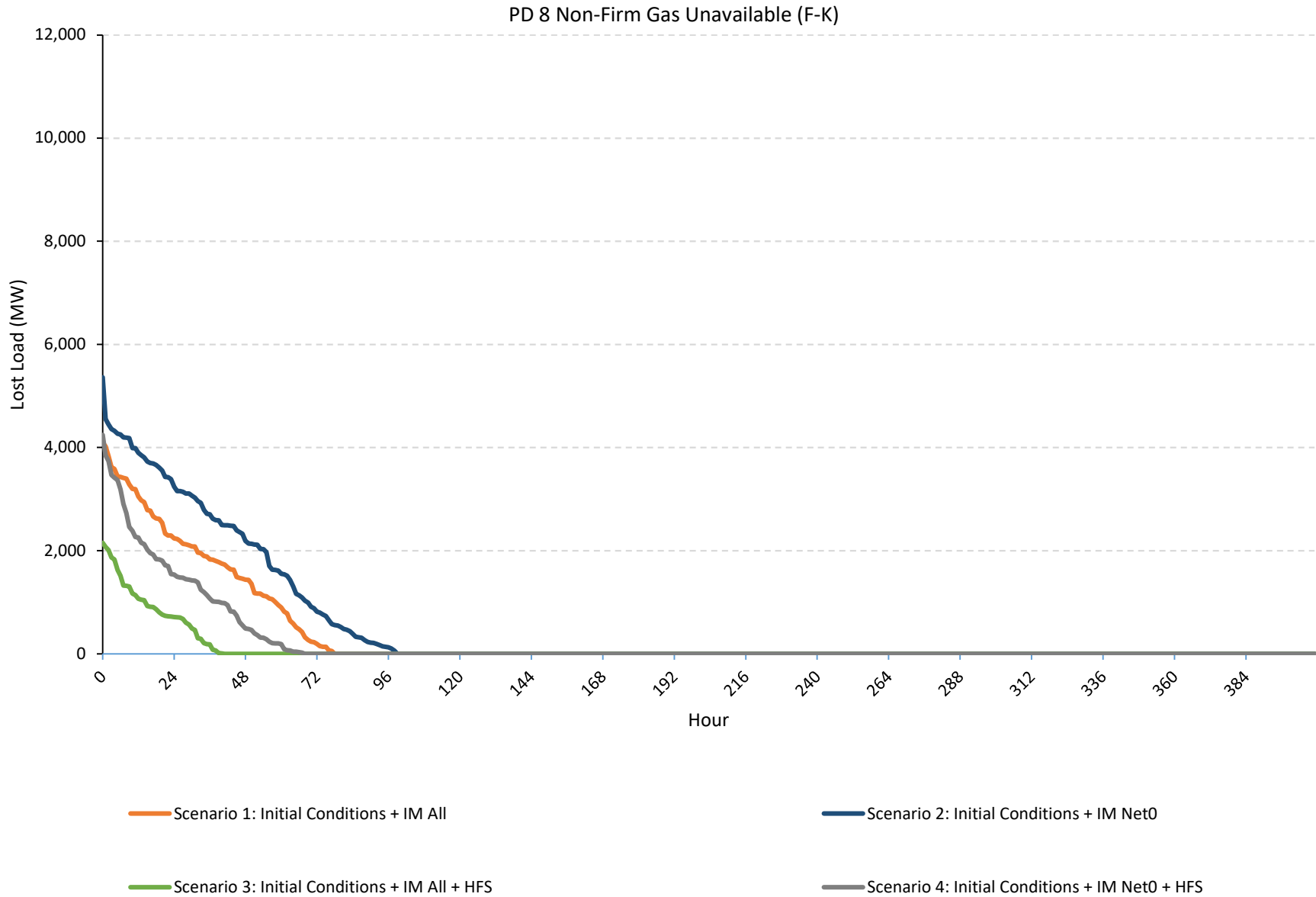


### NYCA Lost Load Duration (MWh) - Winter 2023/2024

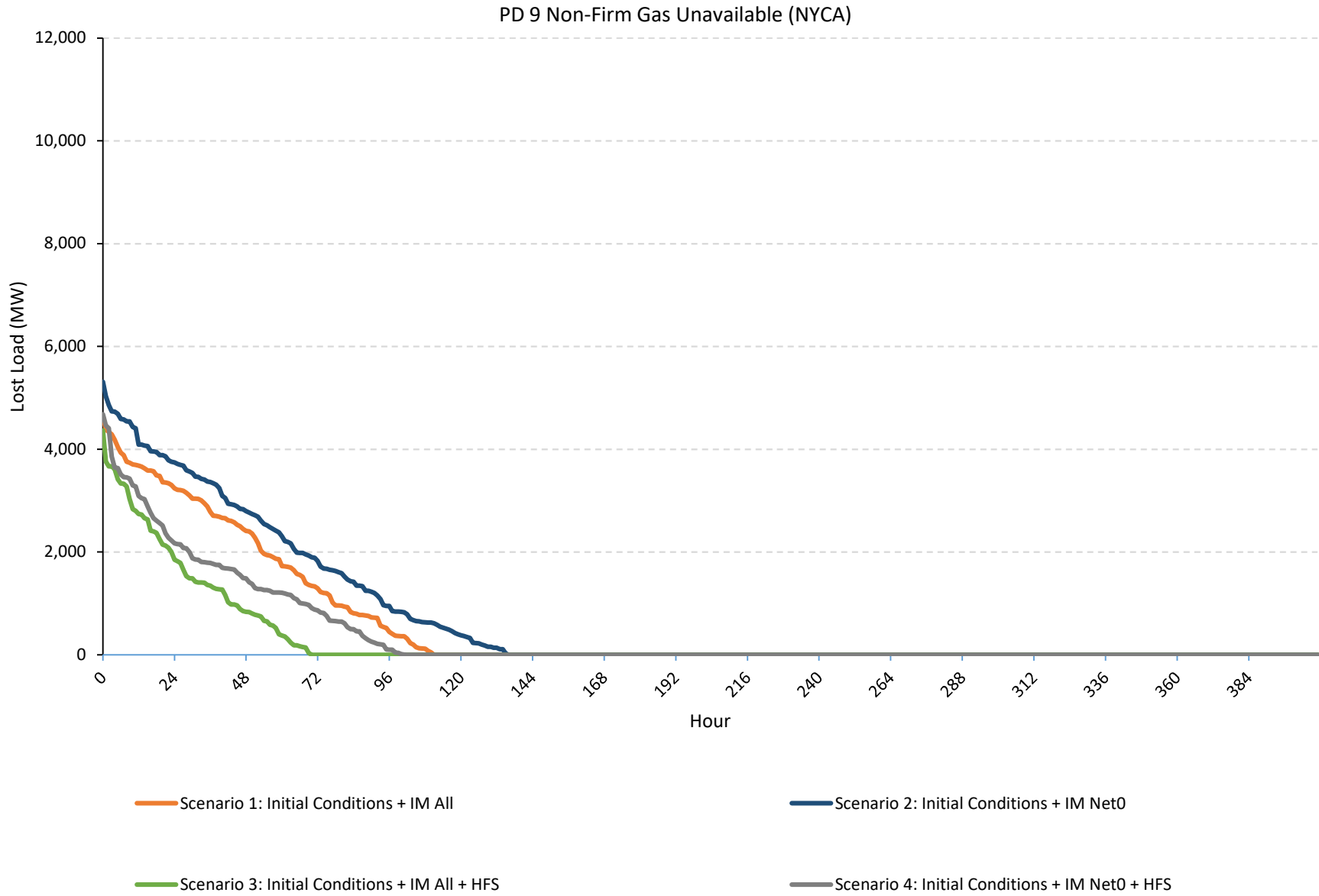
PD 7 No Refill



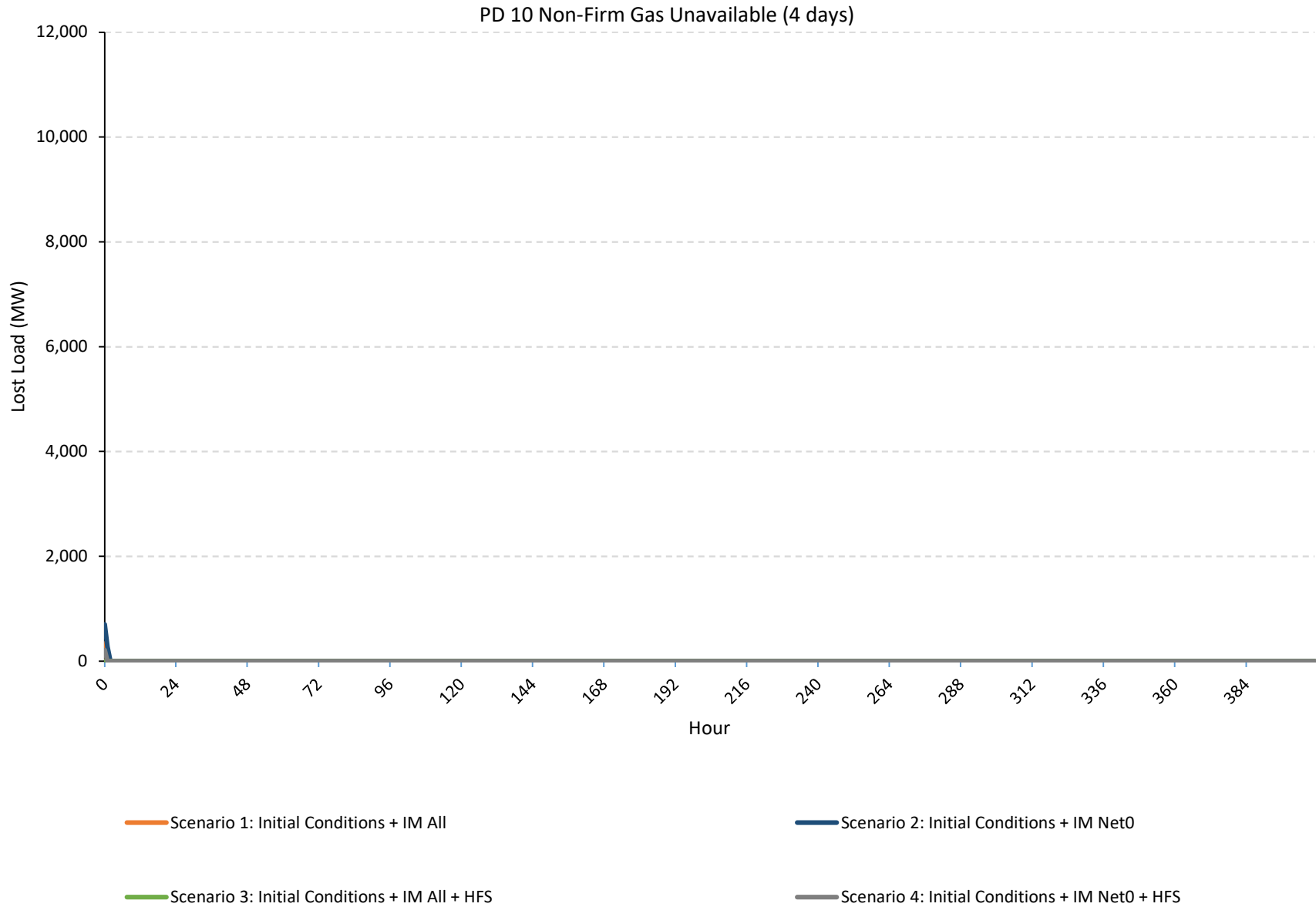
### NYCA Lost Load Duration (MWh) - Winter 2023/2024



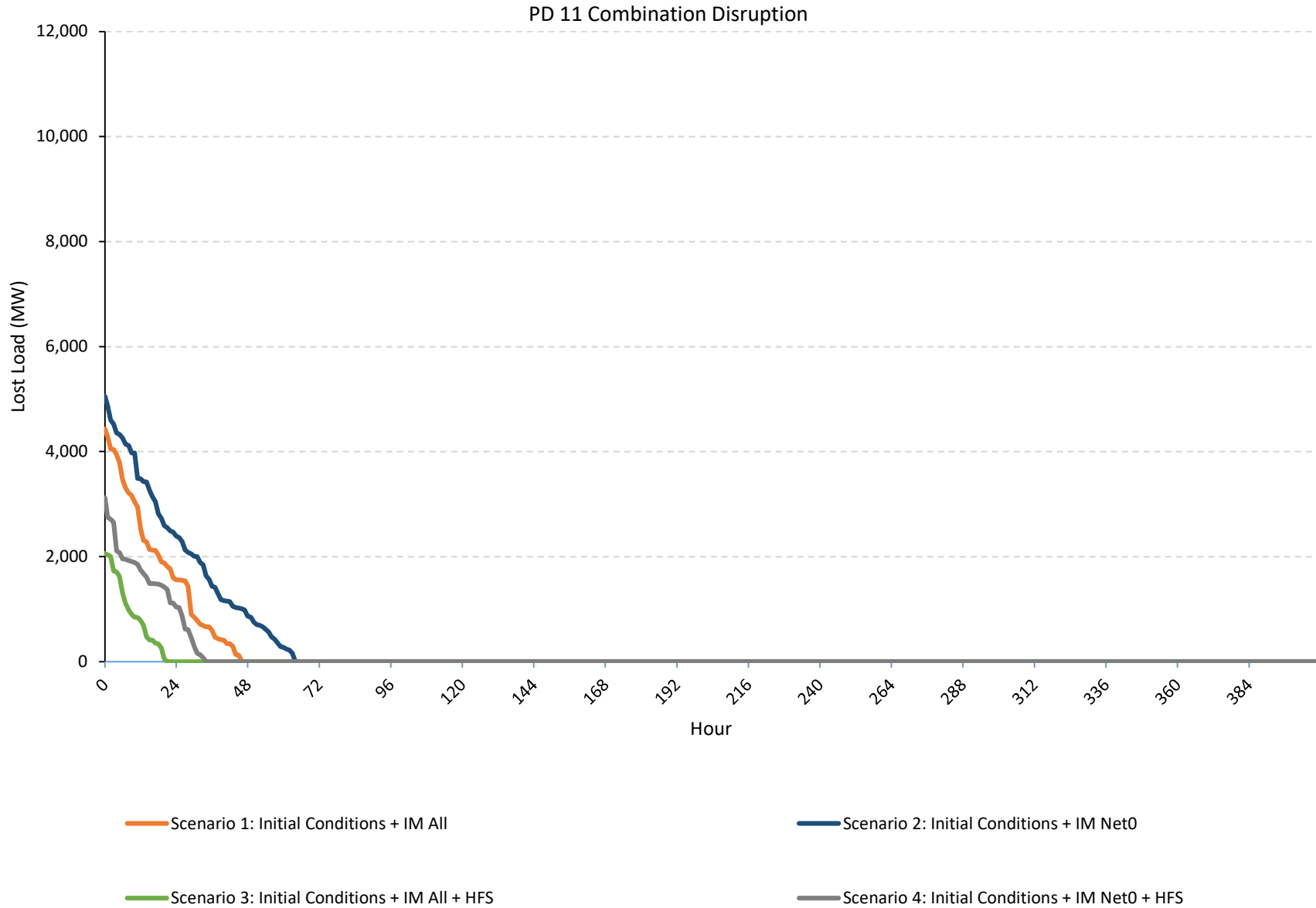
### NYCA Lost Load Duration (MWh) - Winter 2023/2024



### NYCA Lost Load Duration (MWh) - Winter 2023/2024



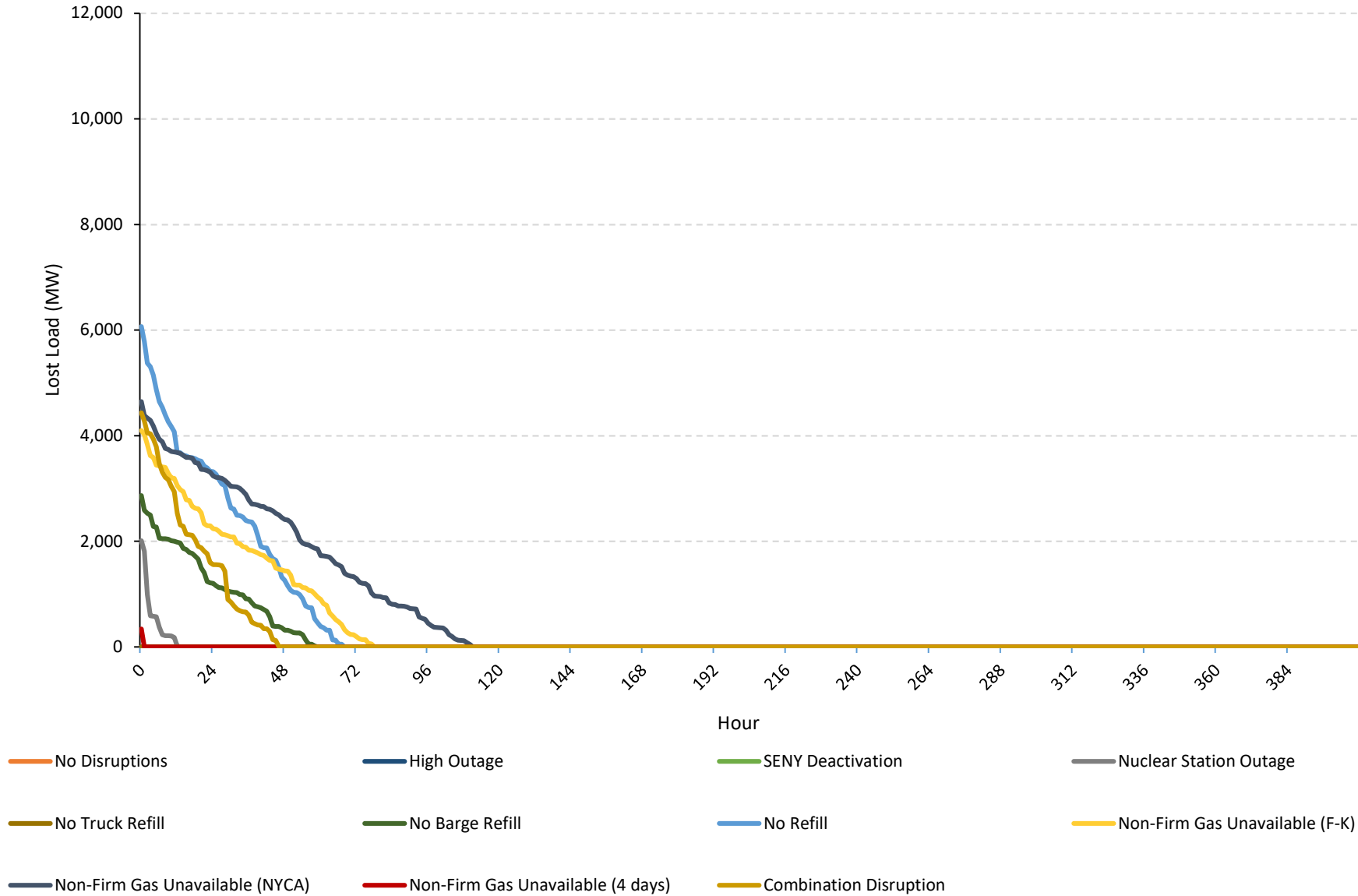
### NYCA Lost Load Duration (MWh) - Winter 2023/2024





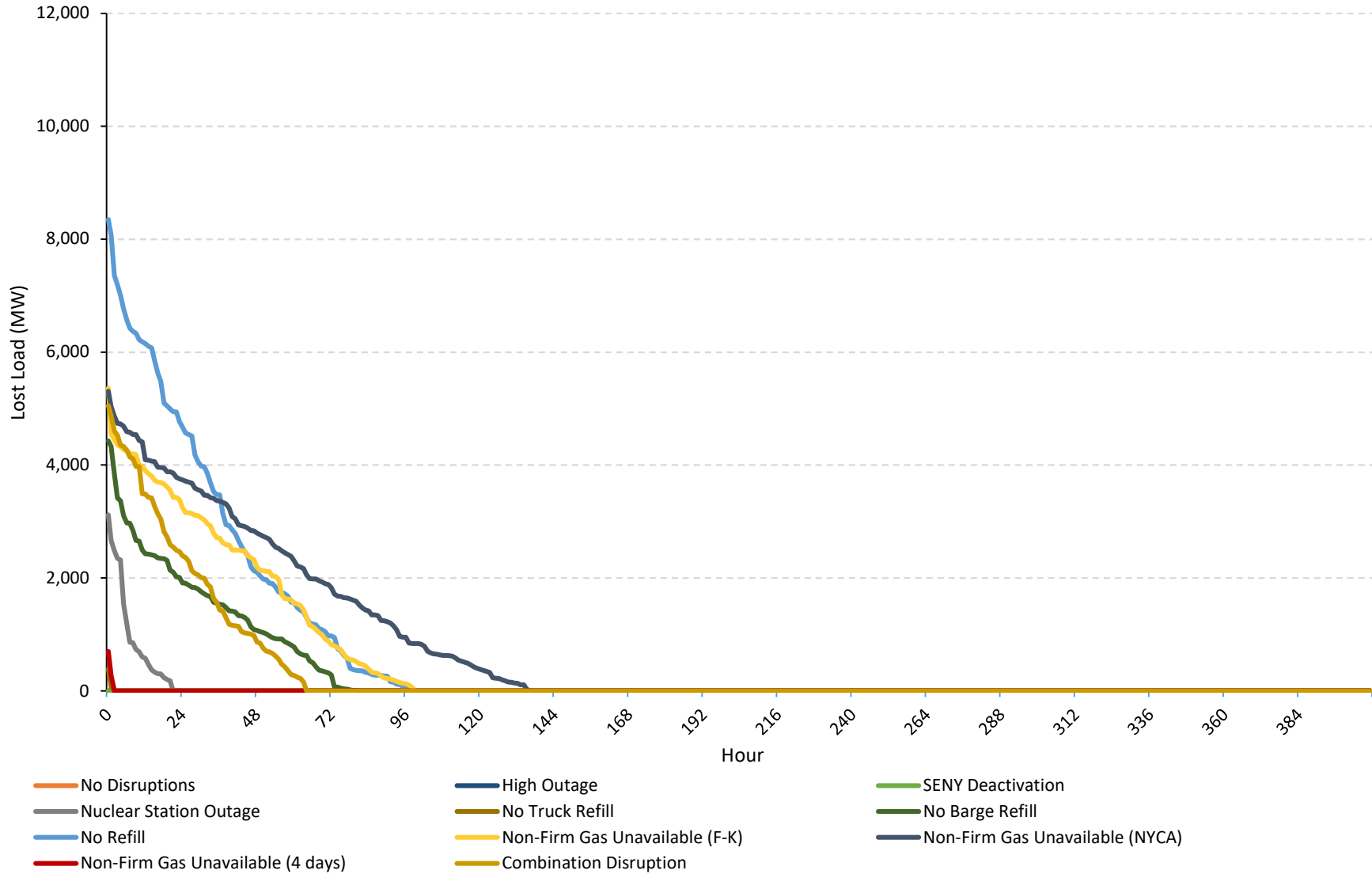
### NYCA Lost Load Duration (MWh) - Winter 2023/2024

Scenario 1: Initial Conditions + IM All



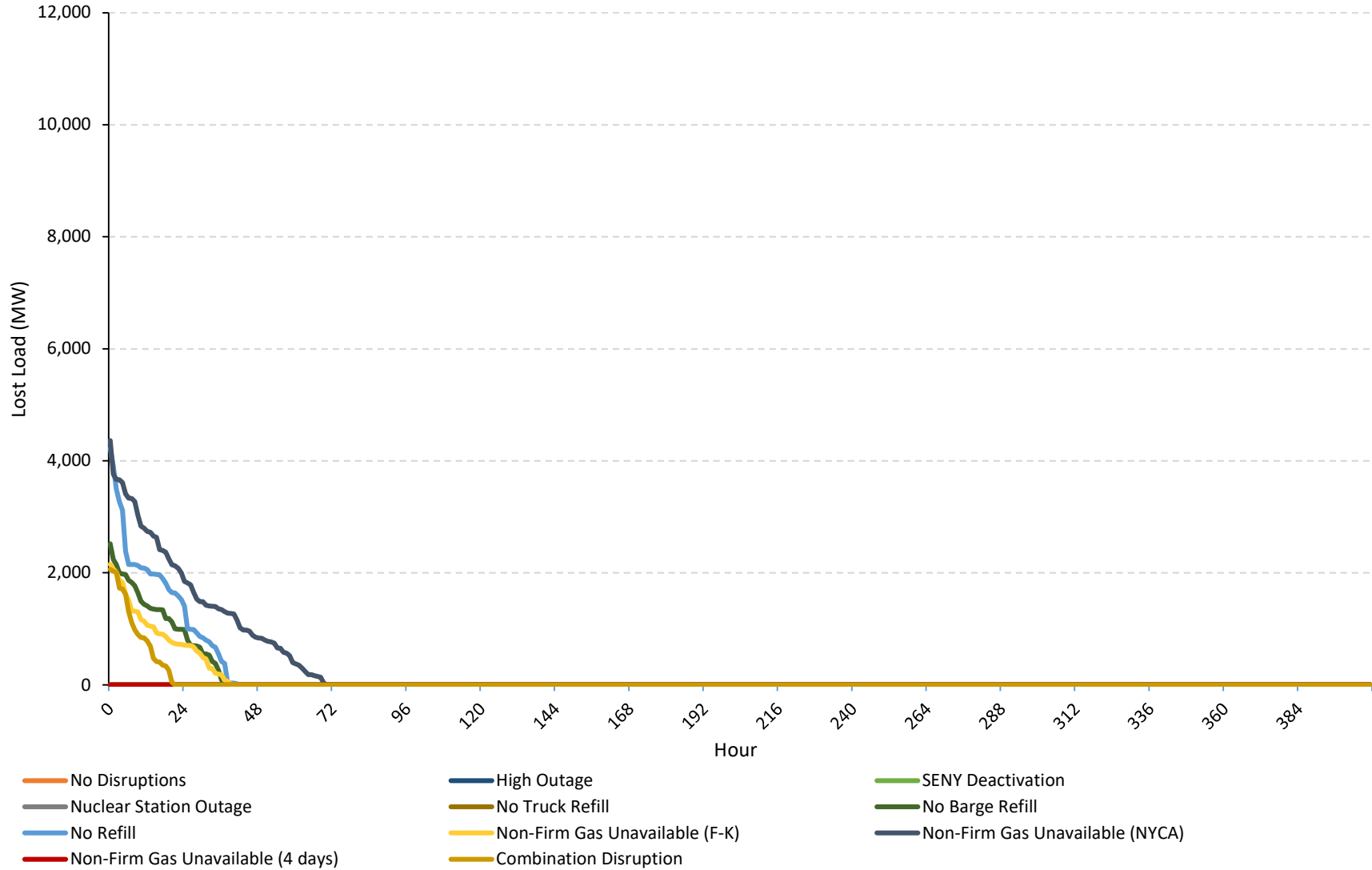
### NYCA Lost Load Duration (MWh) - Winter 2023/2024

Scenario 2: Initial Conditions + IM Net0



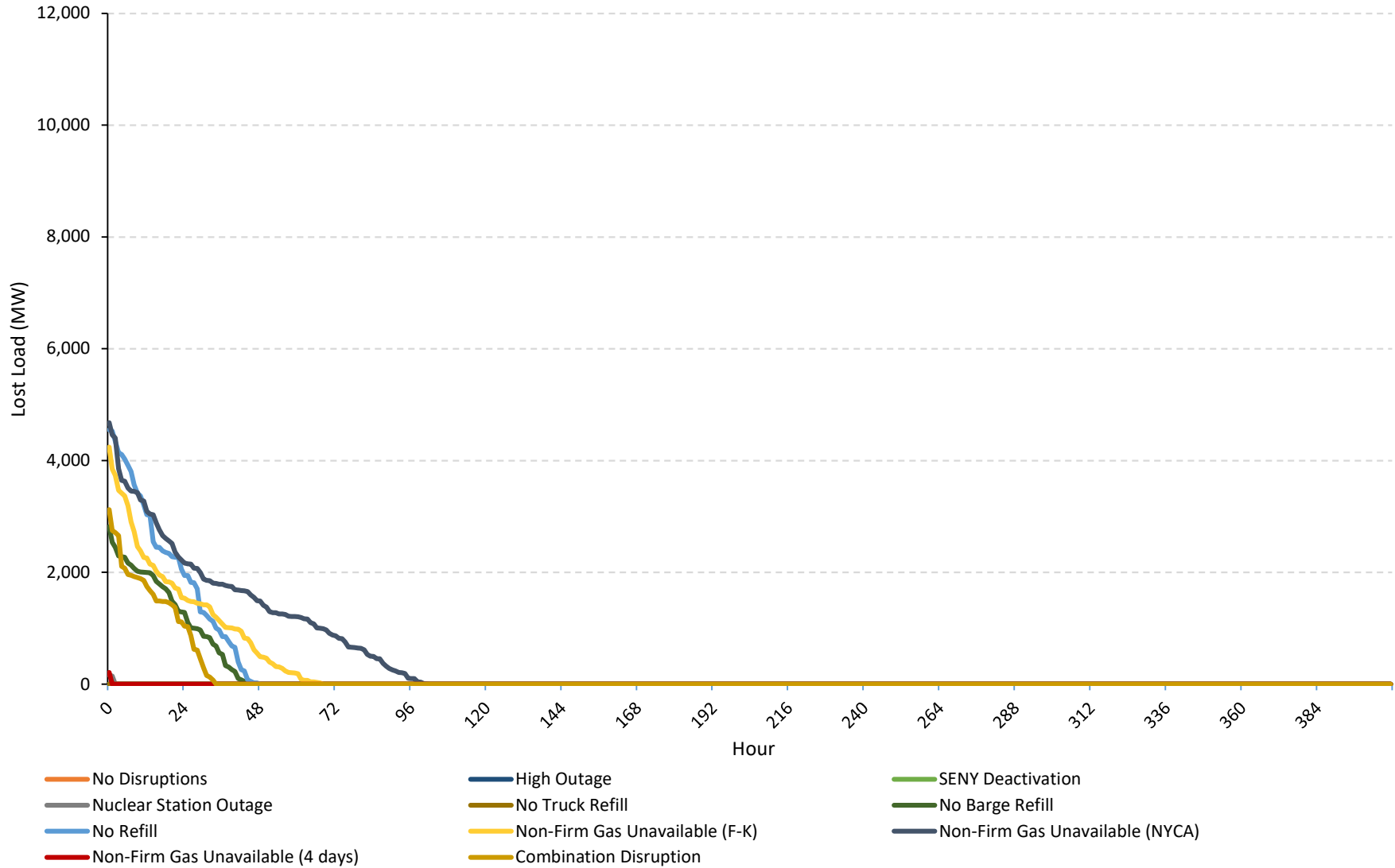
### NYCA Lost Load Duration (MWh) - Winter 2023/2024

Scenario 3: Initial Conditions + IM All + HFS



### NYCA Lost Load Duration (MWh) - Winter 2023/2024

Scenario 4: Initial Conditions + IM Net0 + HFS

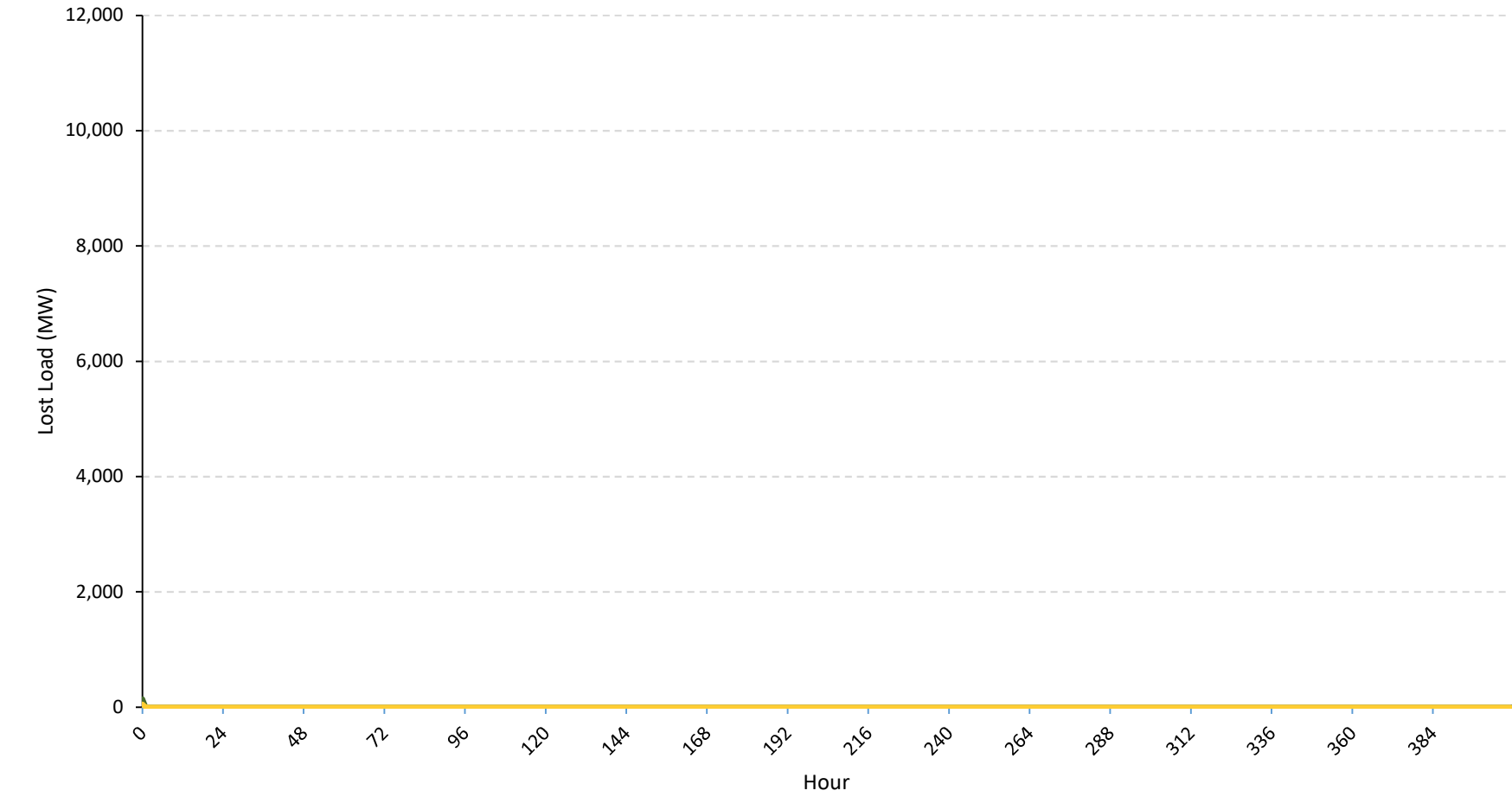


## **Appendix D. Loss of Load Duration Curves for all Scenarios and Disruptions**

### **Winter 2026/2027**

### NYCA Lost Load Duration (MWh) - Winter 2026/2027

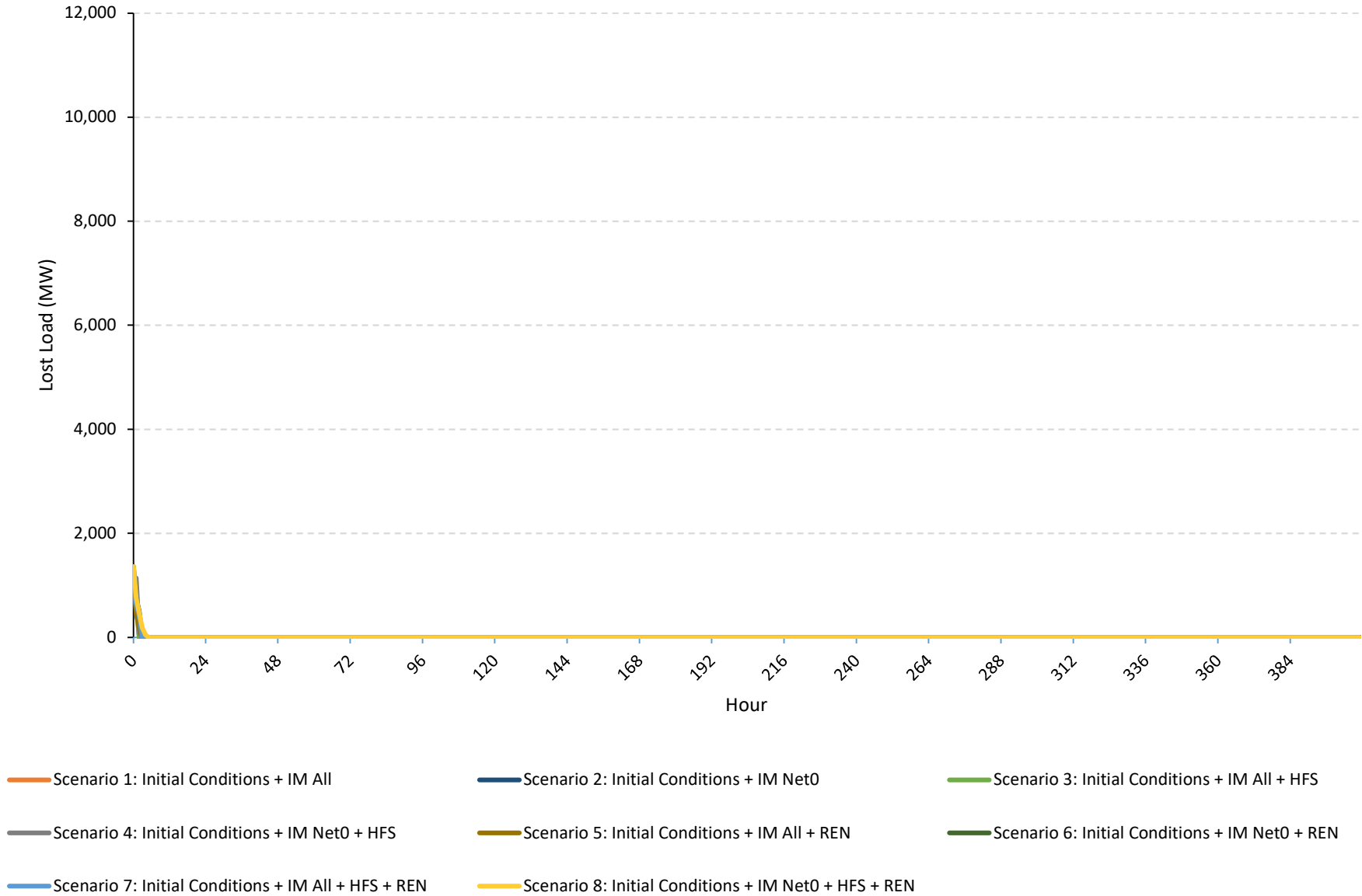
PD 1 No Disruptions



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

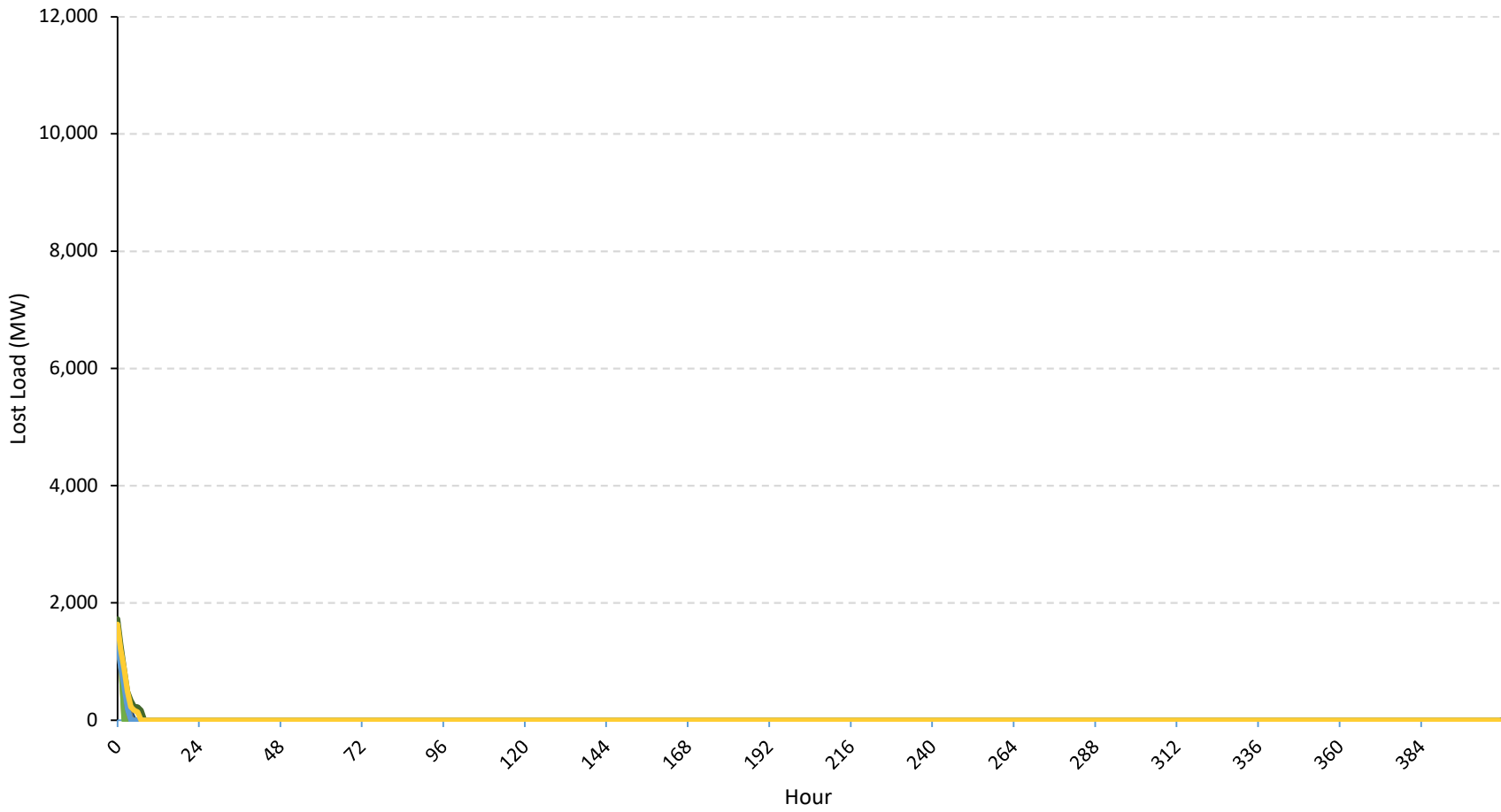
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

PD 2 High Outage



### NYCA Lost Load Duration (MWh) - Winter 2026/2027

PD 3 SENY Deactivation

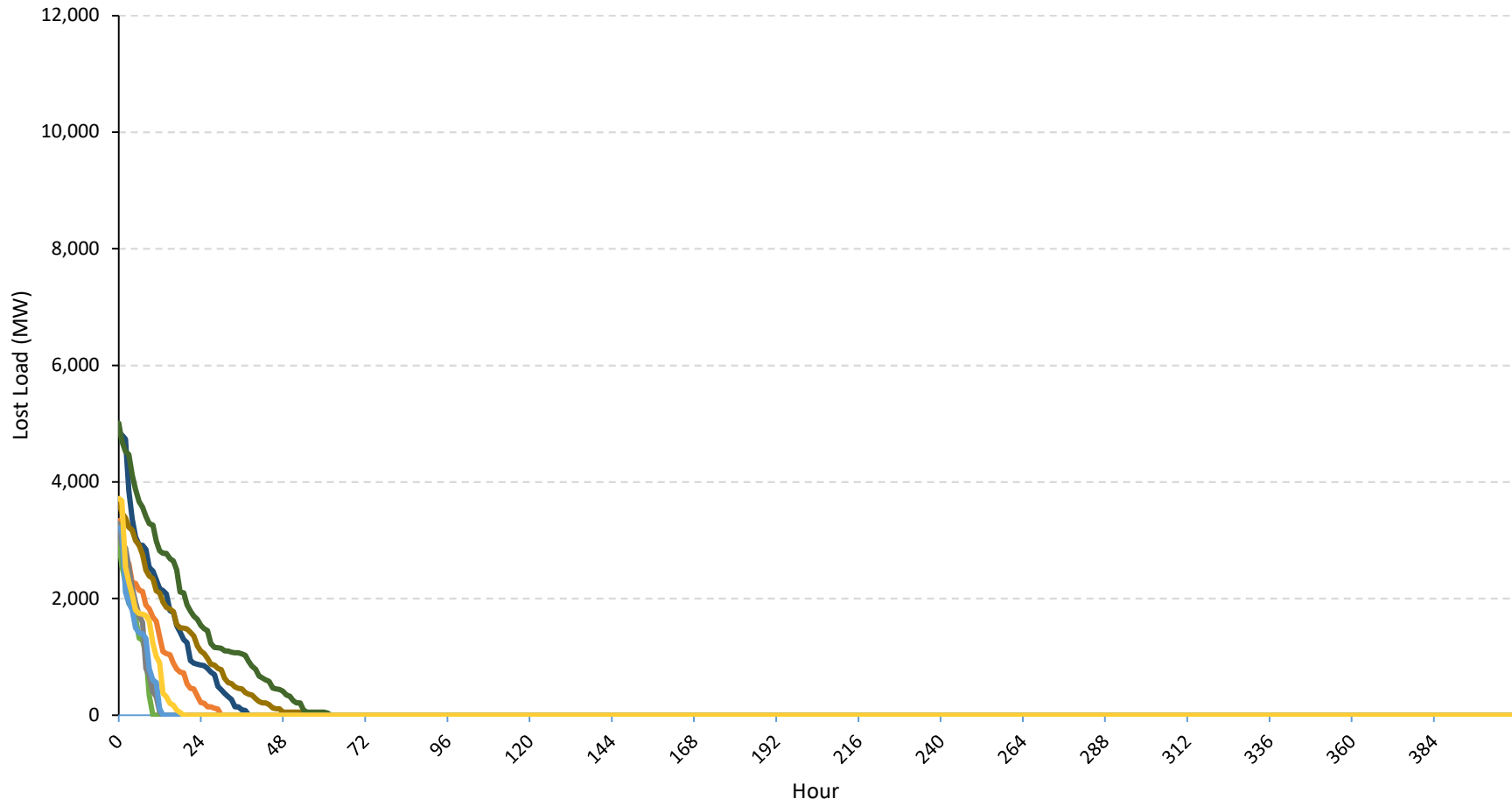


- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN



### NYCA Lost Load Duration (MWh) - Winter 2026/2027

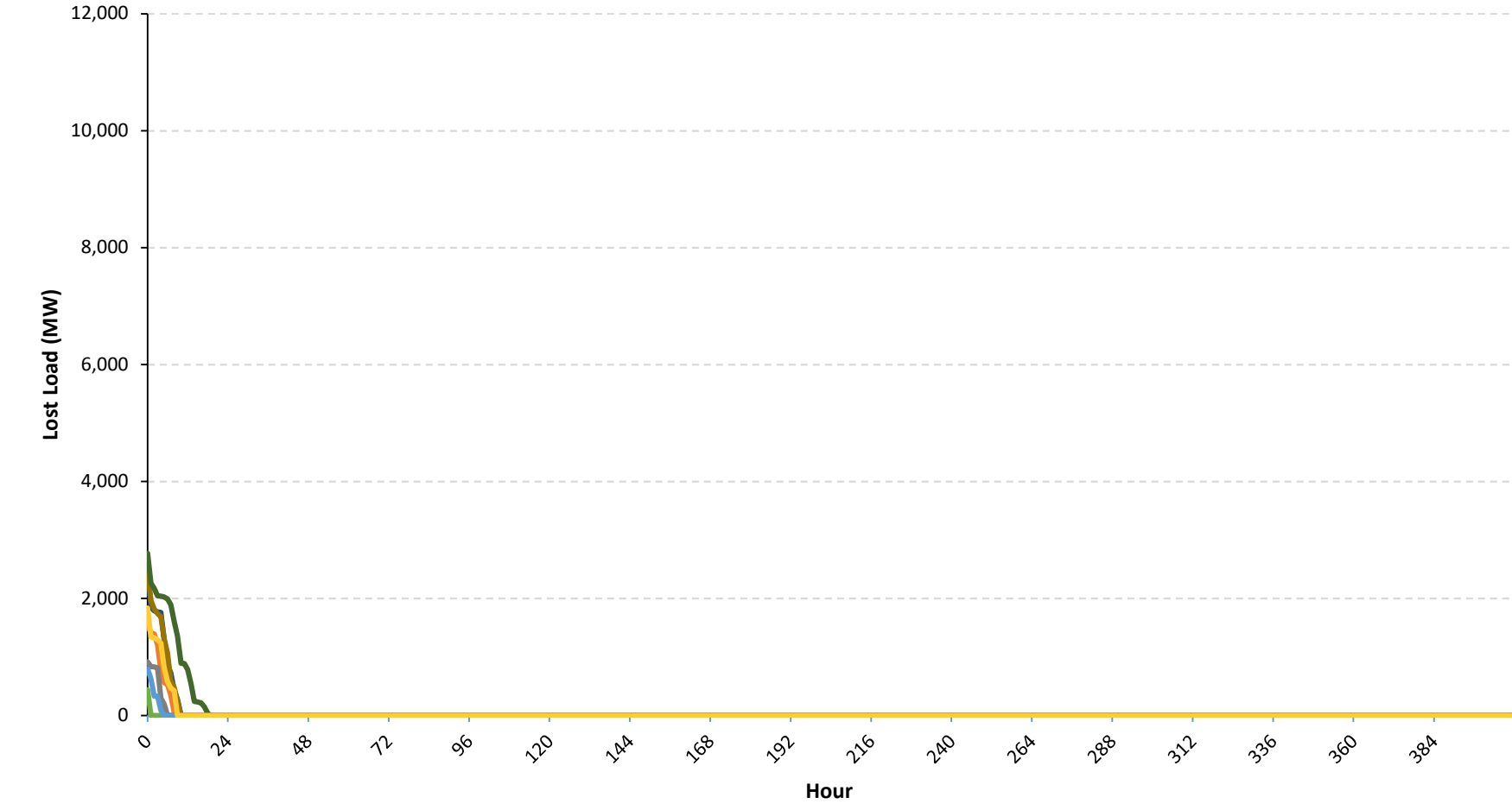
PD 4 Nuclear Station Outage



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2026/2027

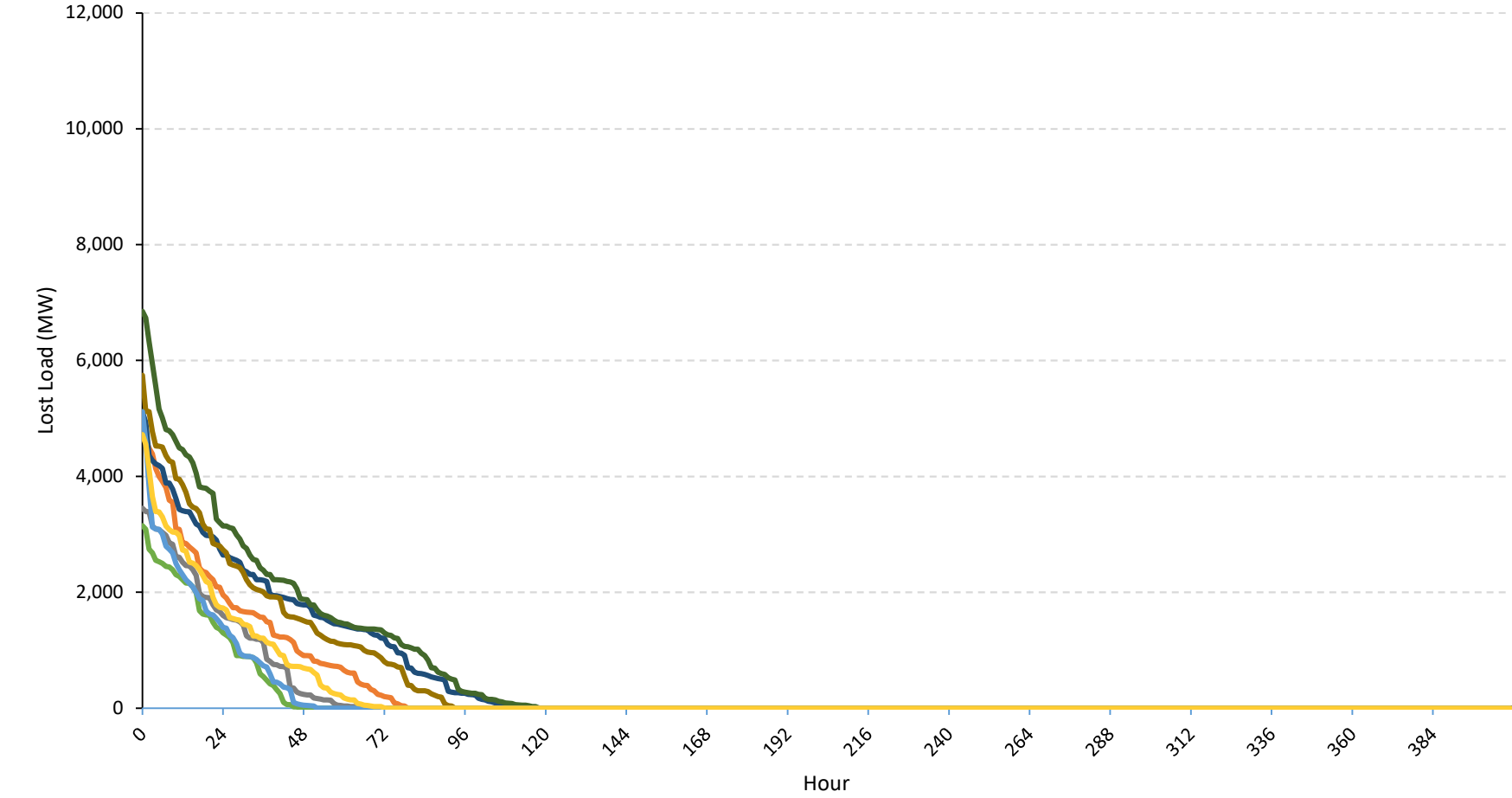
PD 5 No Truck Refill



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2026/2027

PD 6 No Barge Refill



Scenario 1: Initial Conditions + IM All

Scenario 2: Initial Conditions + IM Net0

Scenario 3: Initial Conditions + IM All + HFS

Scenario 4: Initial Conditions + IM Net0 + HFS

Scenario 5: Initial Conditions + IM All + REN

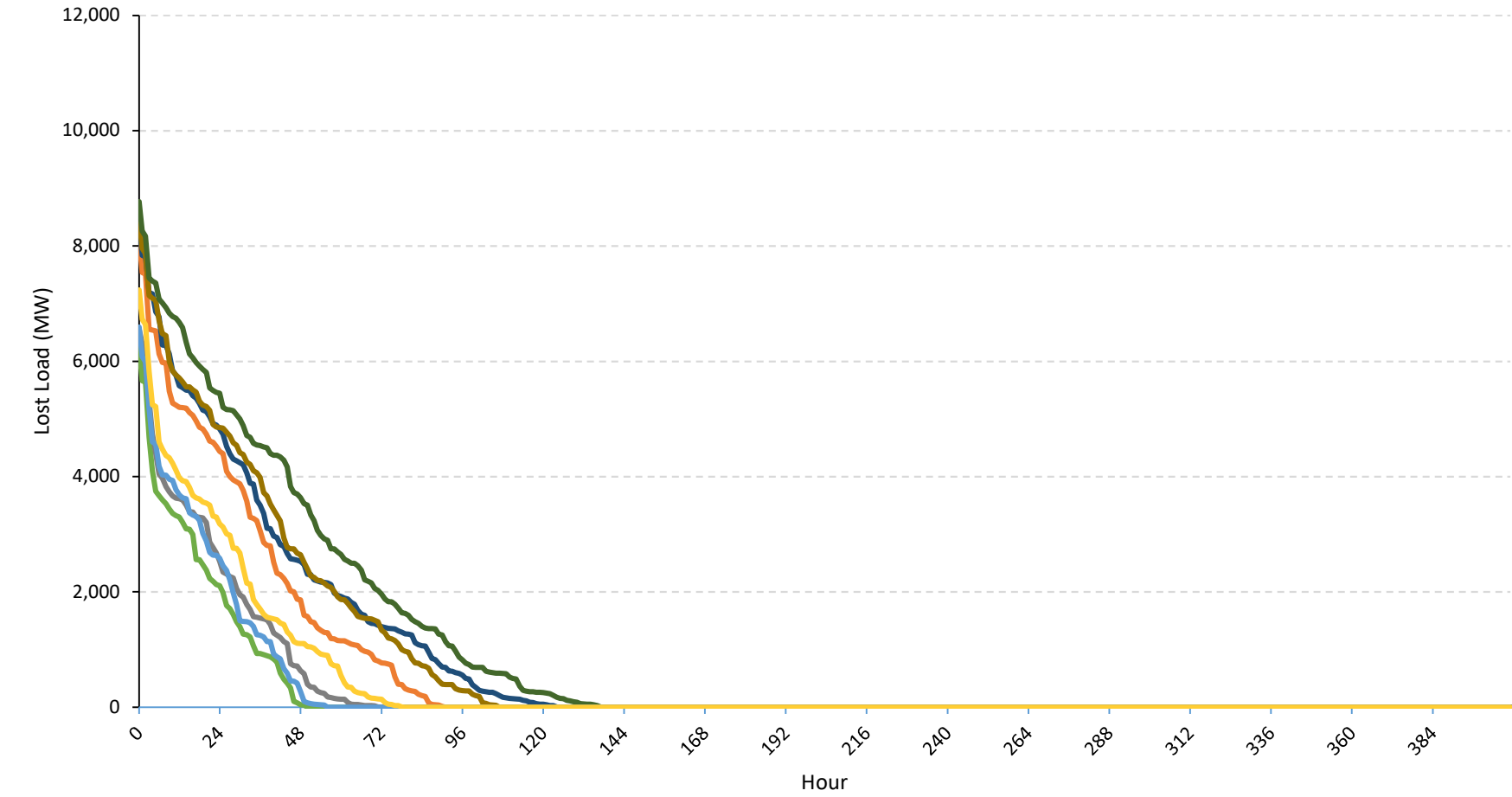
Scenario 6: Initial Conditions + IM Net0 + REN

Scenario 7: Initial Conditions + IM All + HFS + REN

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2026/2027

PD 7 No Refill



Scenario 1: Initial Conditions + IM All

Scenario 2: Initial Conditions + IM Net0

Scenario 3: Initial Conditions + IM All + HFS

Scenario 4: Initial Conditions + IM Net0 + HFS

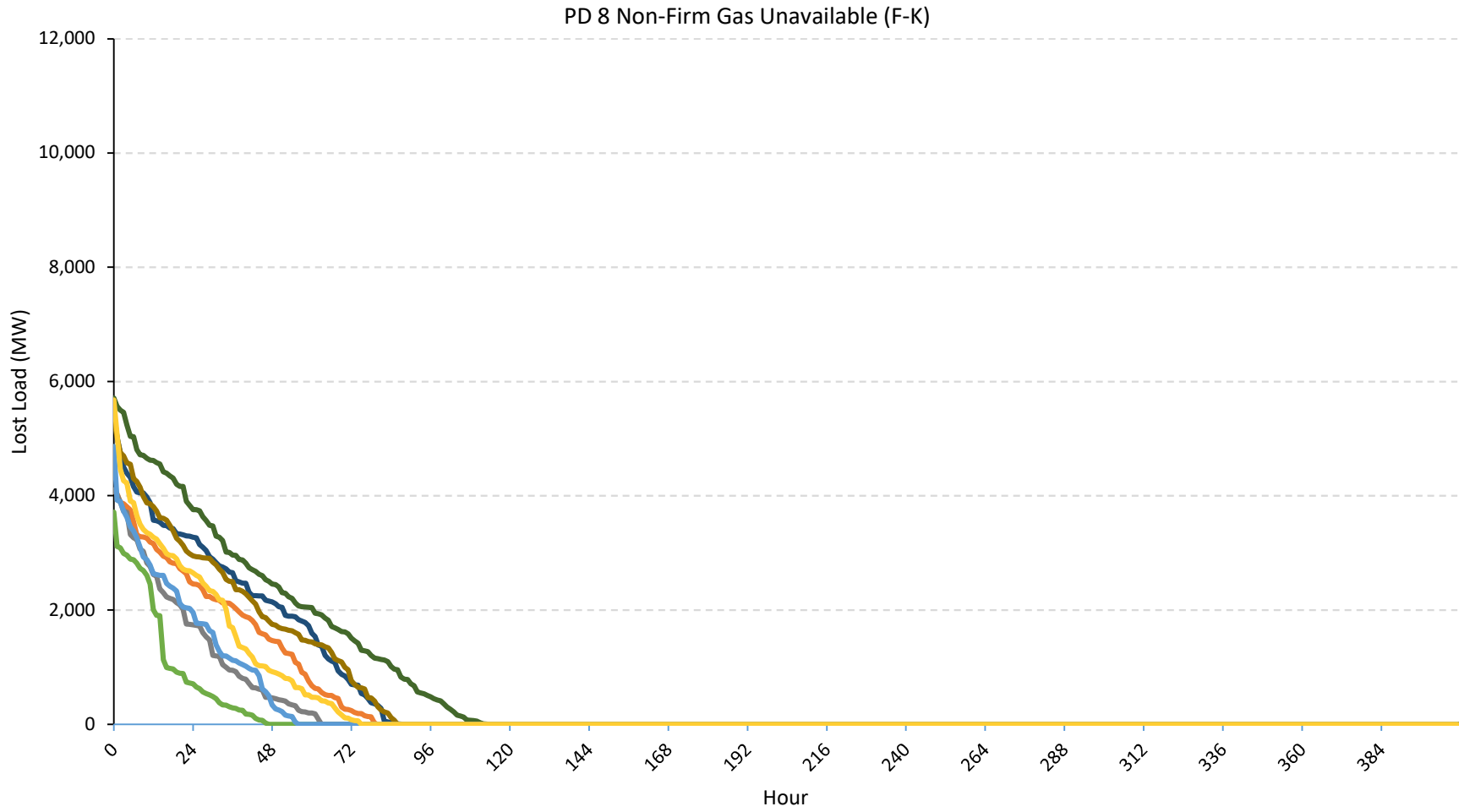
Scenario 5: Initial Conditions + IM All + REN

Scenario 6: Initial Conditions + IM Net0 + REN

Scenario 7: Initial Conditions + IM All + HFS + REN

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

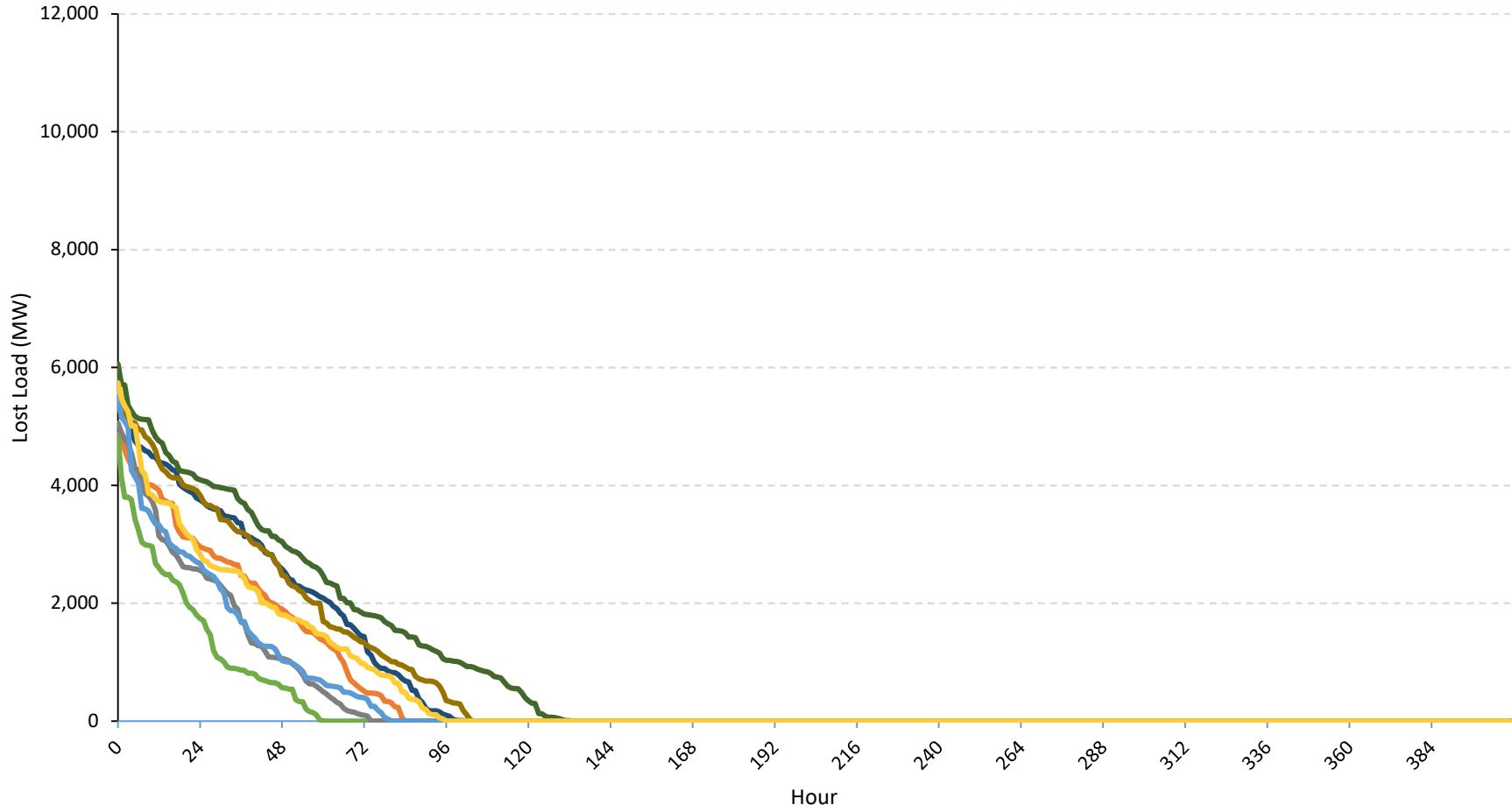
### NYCA Lost Load Duration (MWh) - Winter 2026/2027



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

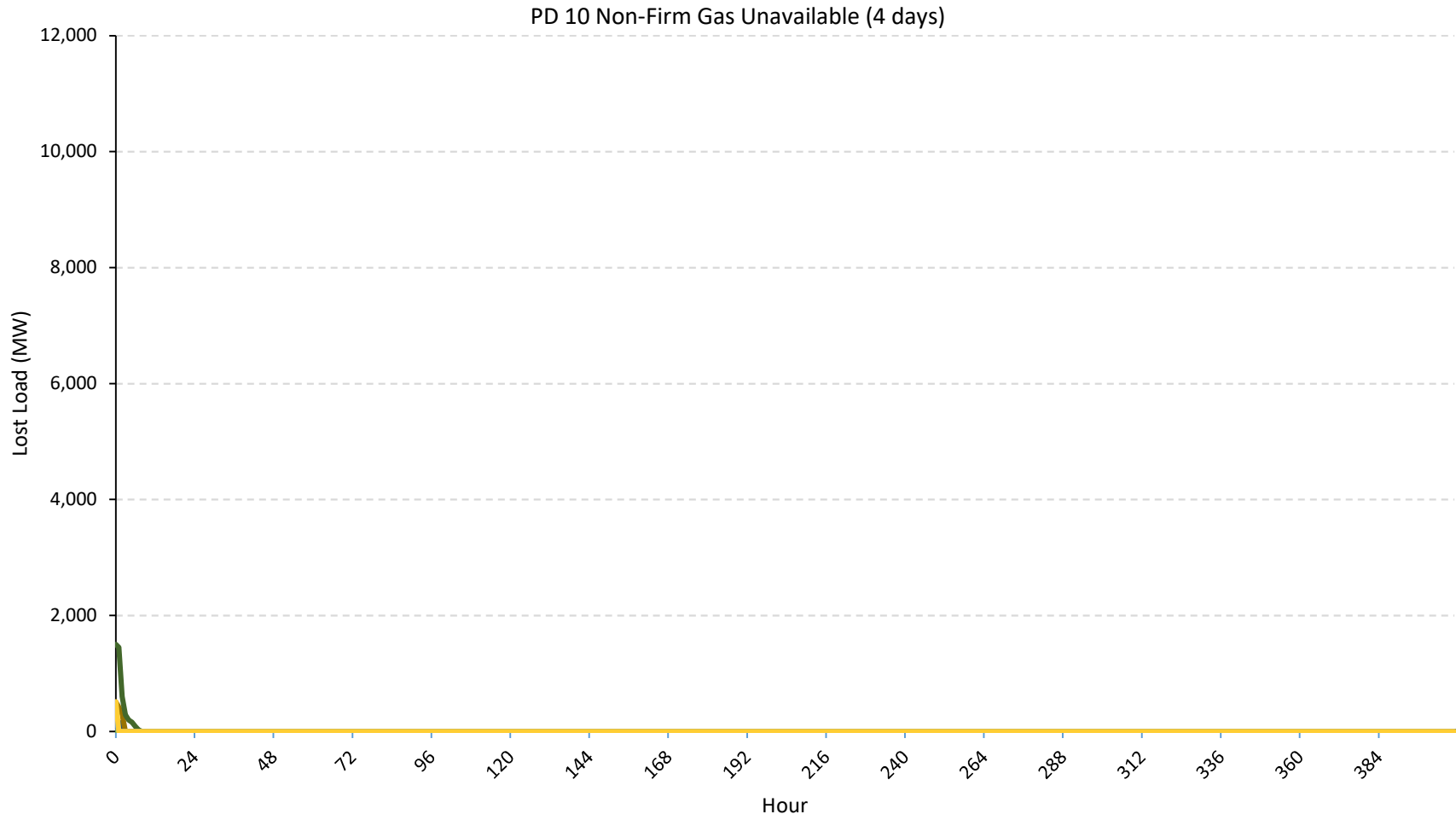
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

PD 9 Non-Firm Gas Unavailable (NYCA)



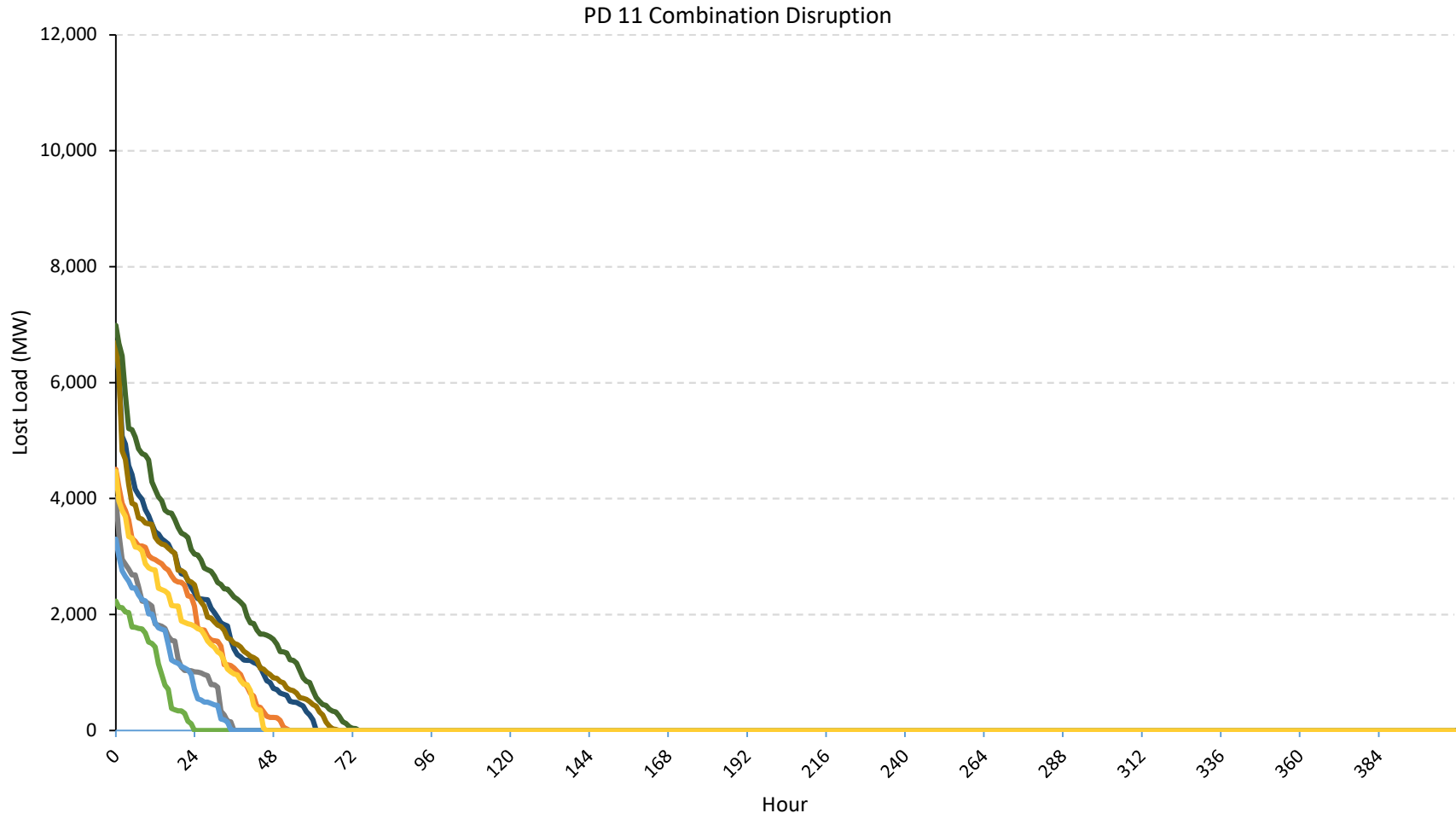
- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2026/2027



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2026/2027

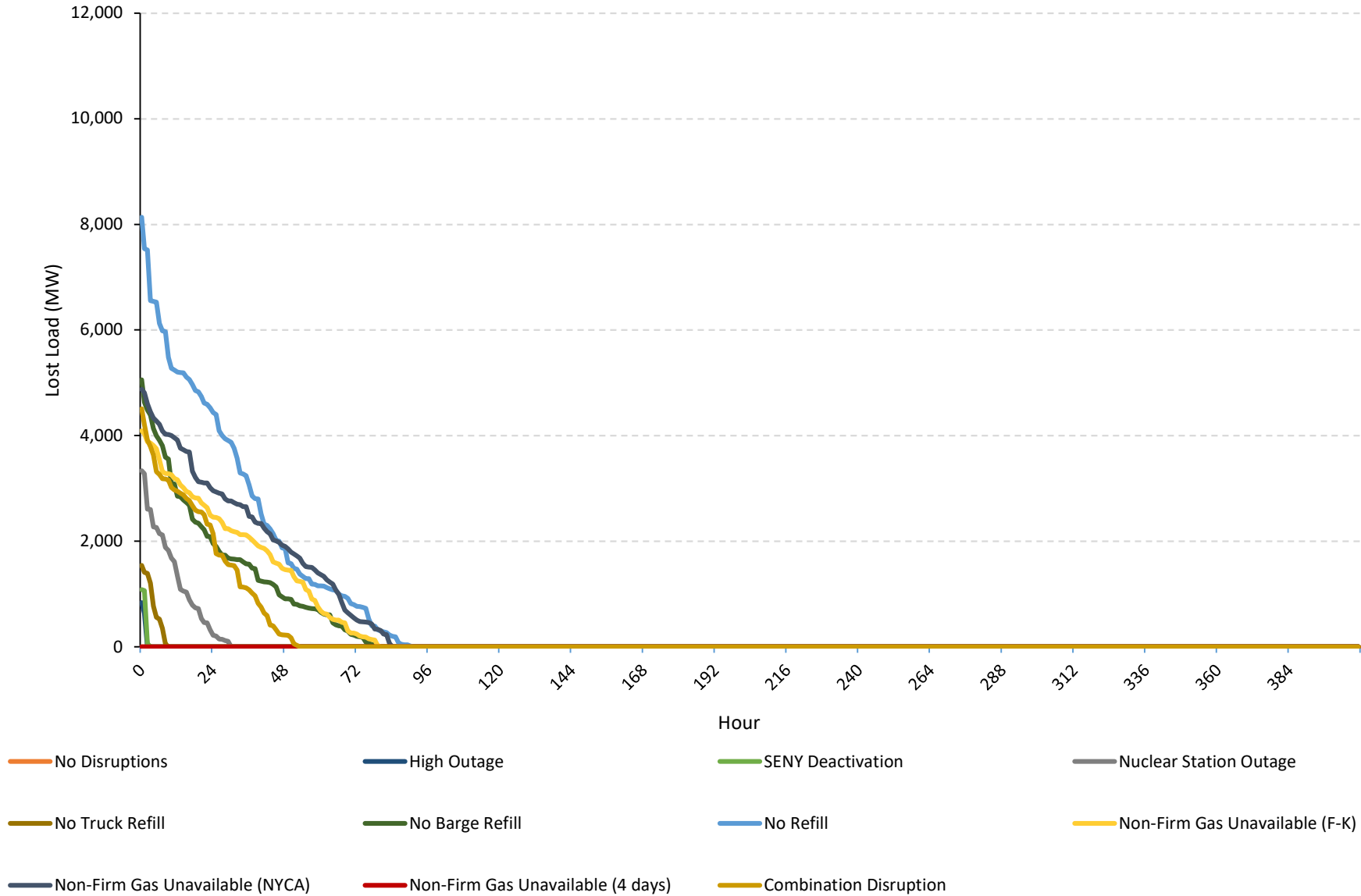


- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN



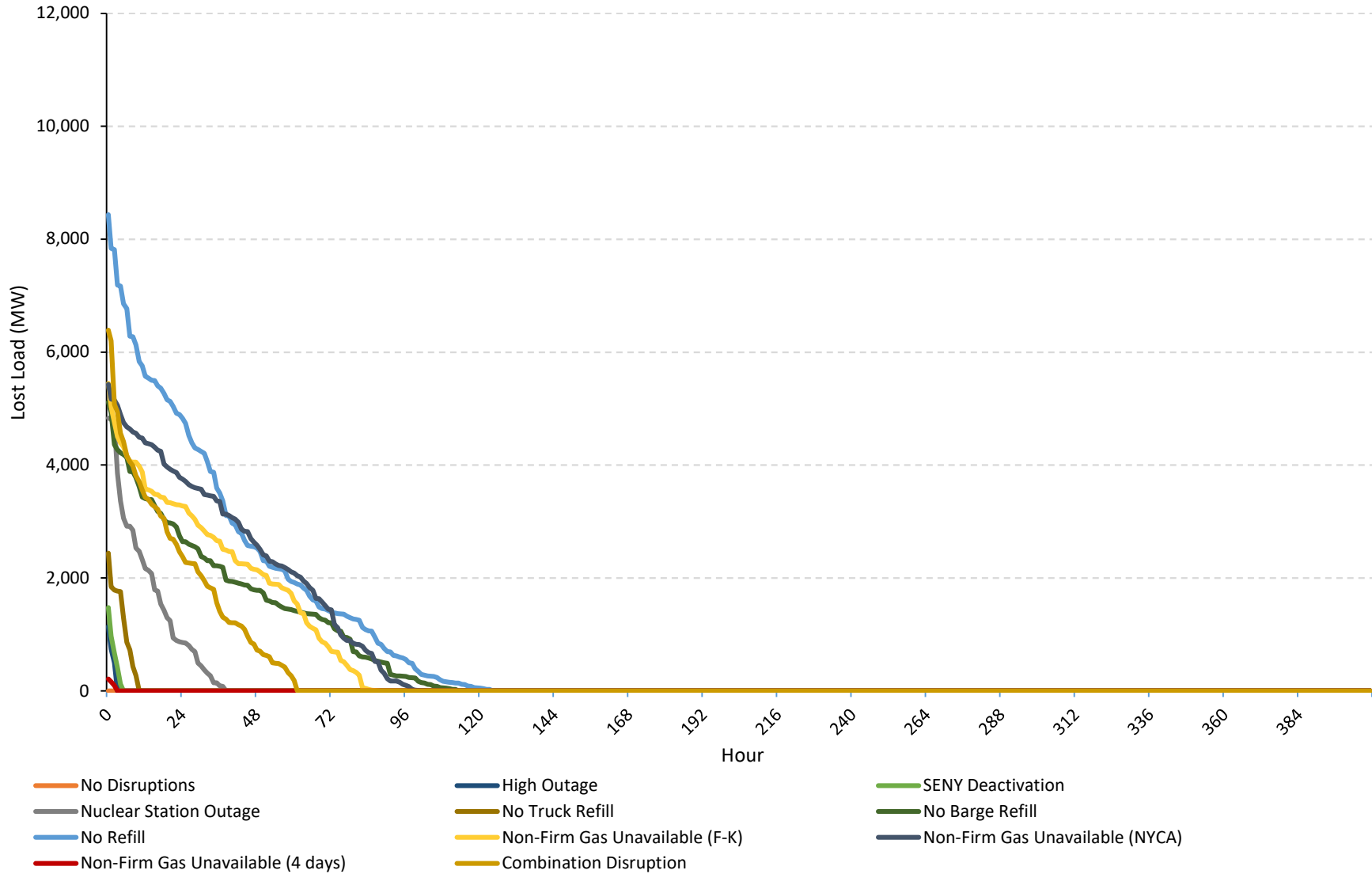
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 1: Initial Conditions + IM All



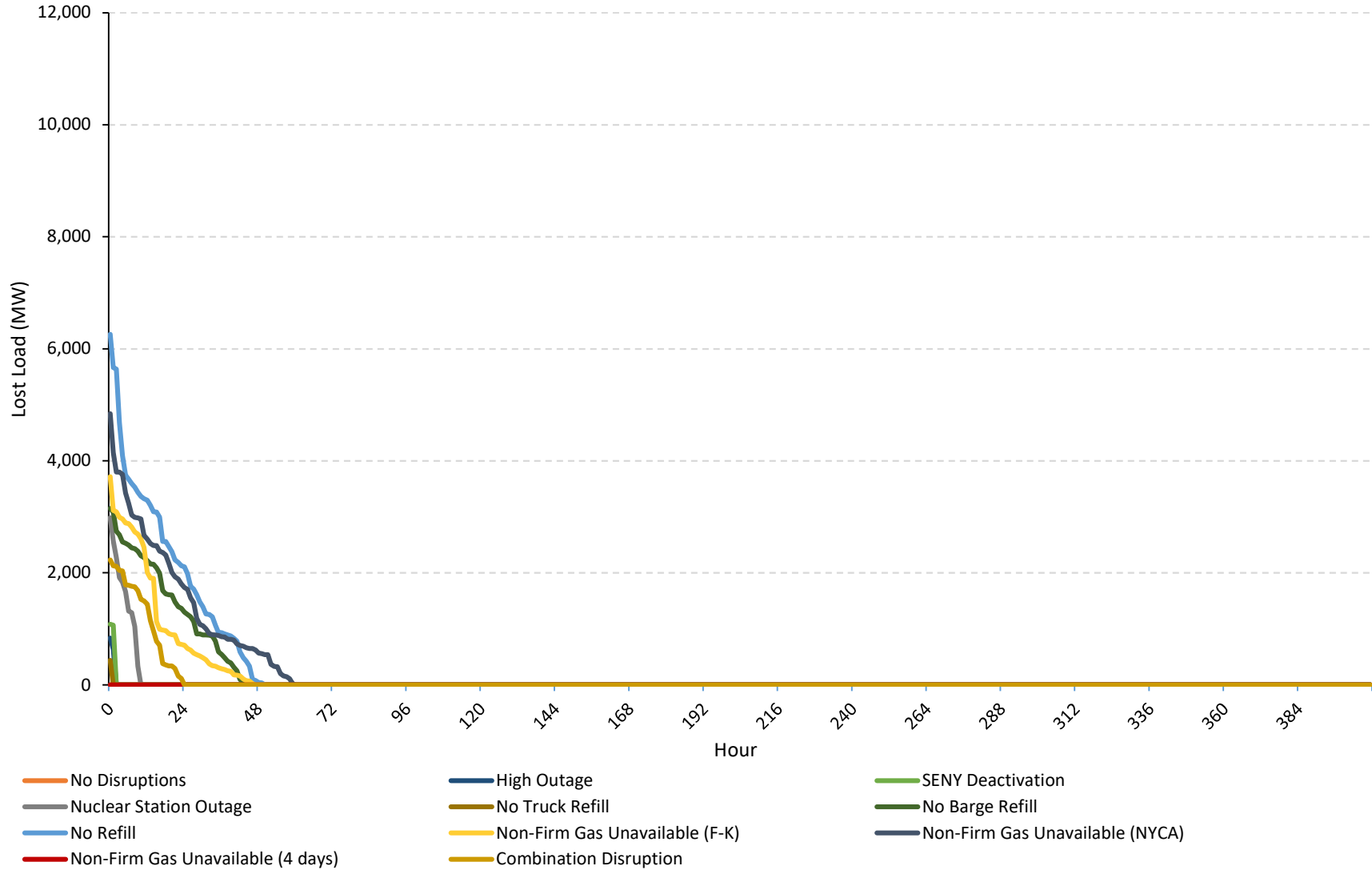
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 2: Initial Conditions + IM Net0



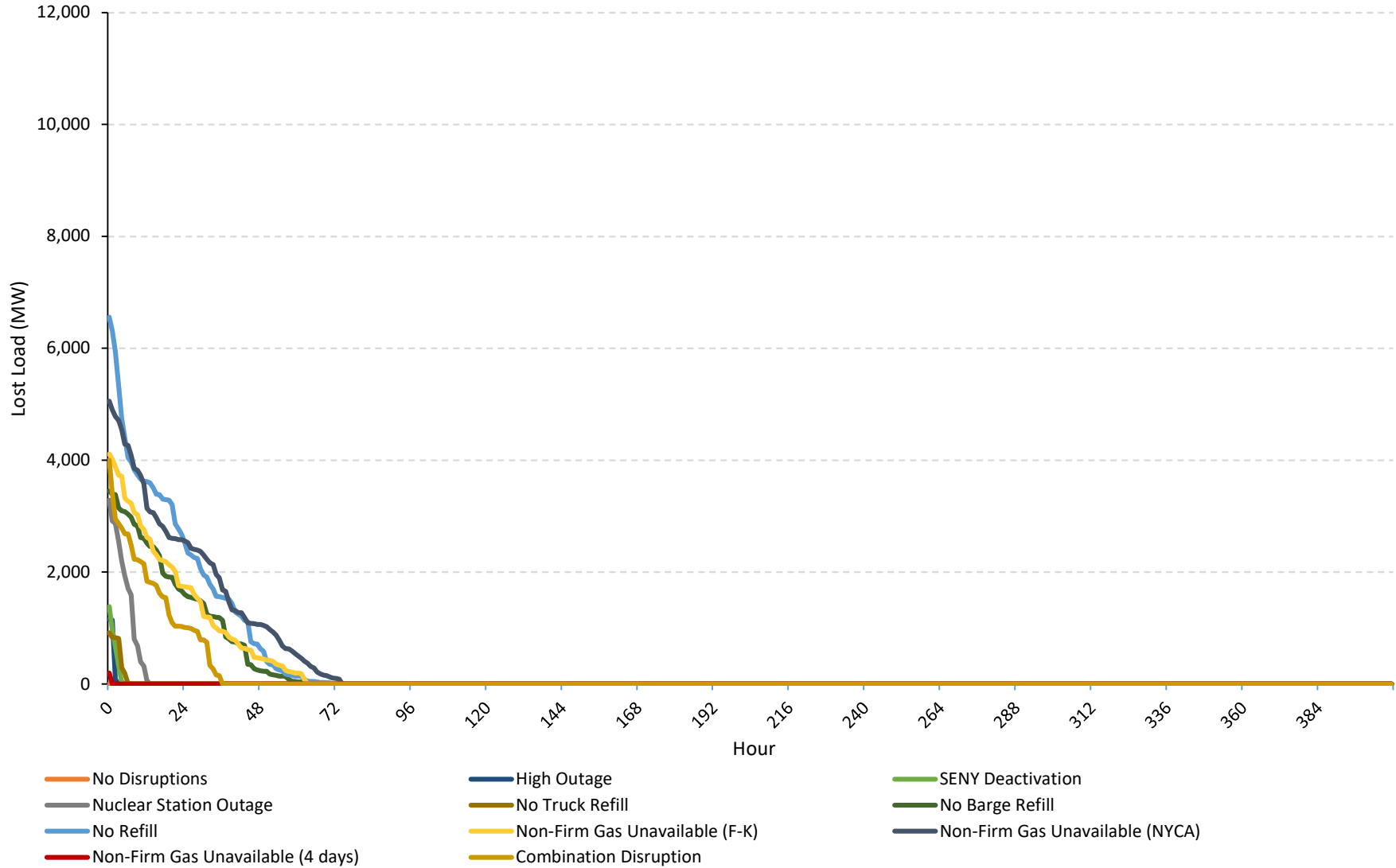
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 3: Initial Conditions + IM All + HFS



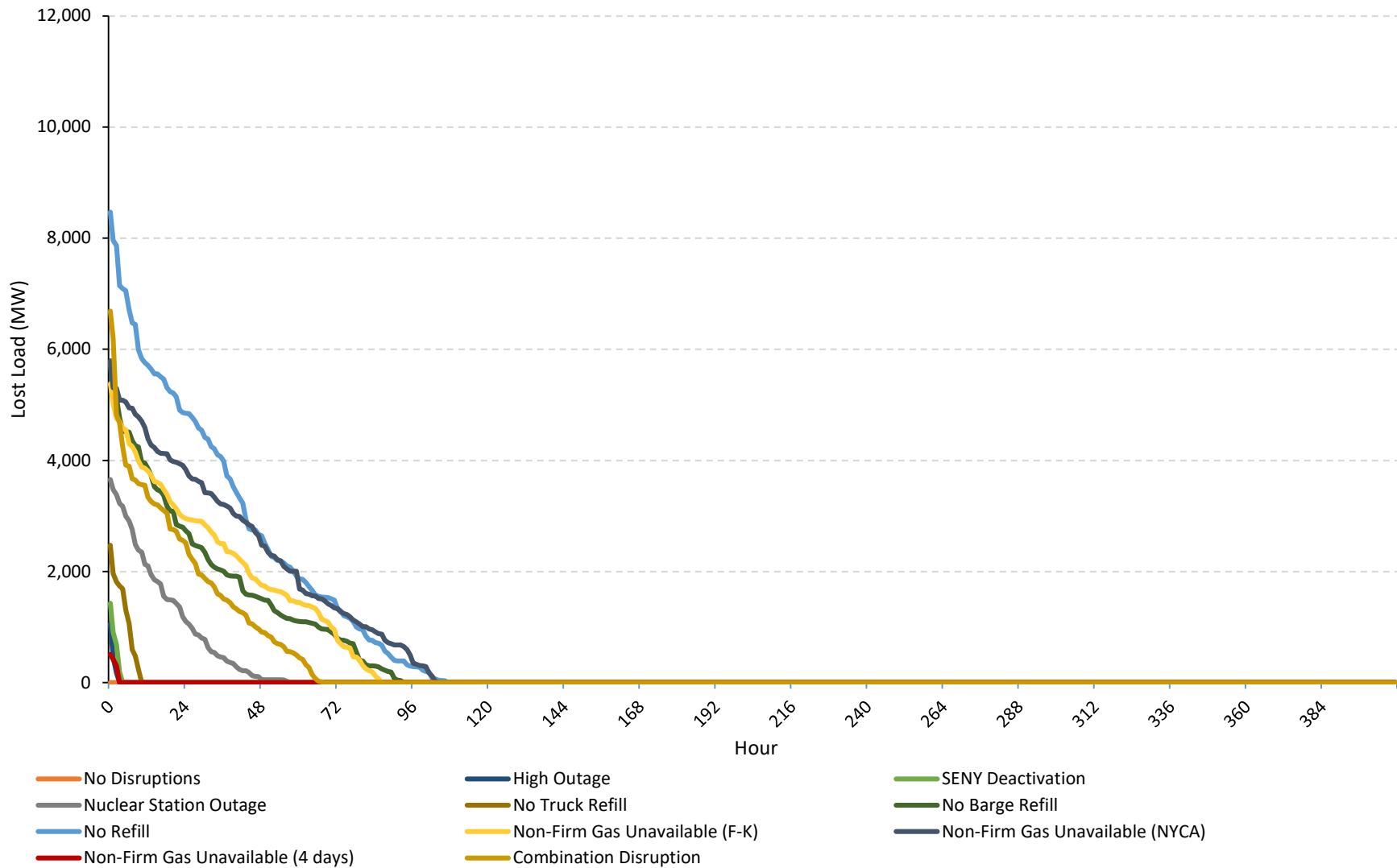
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 4: Initial Conditions + IM Net0 + HFS



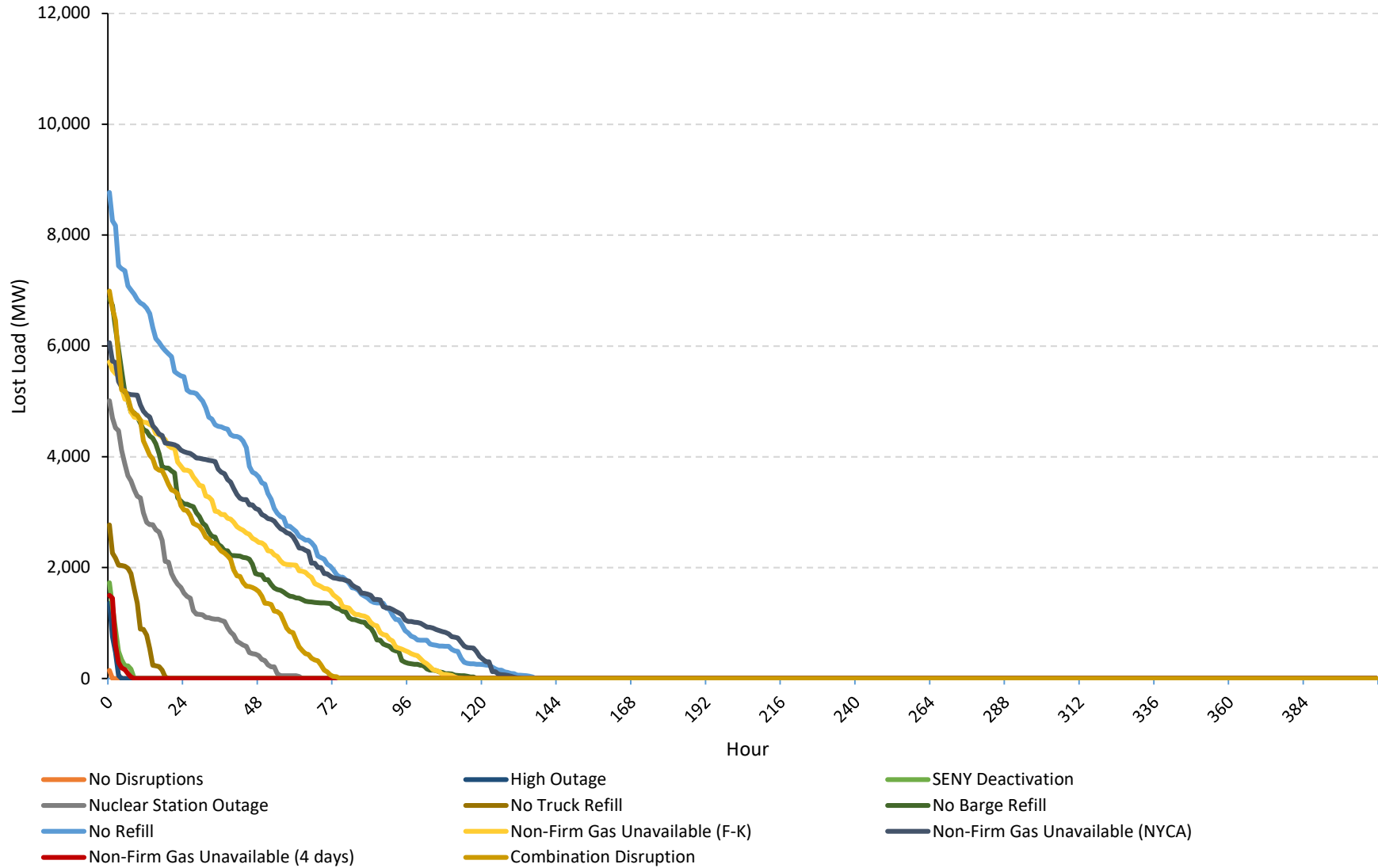
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 5: Initial Conditions + IM All + REN



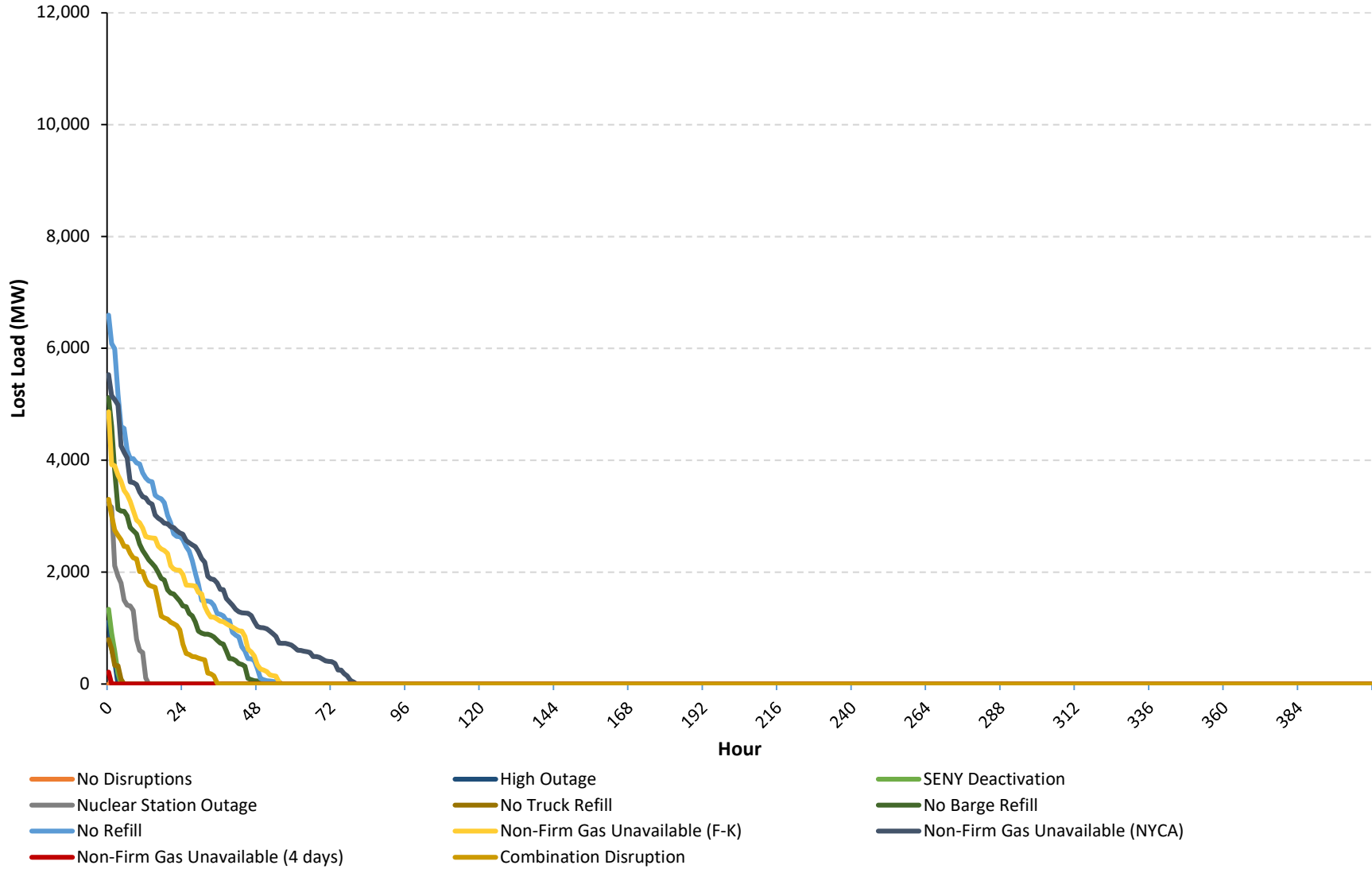
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 6: Initial Conditions + IM Net0 + REN



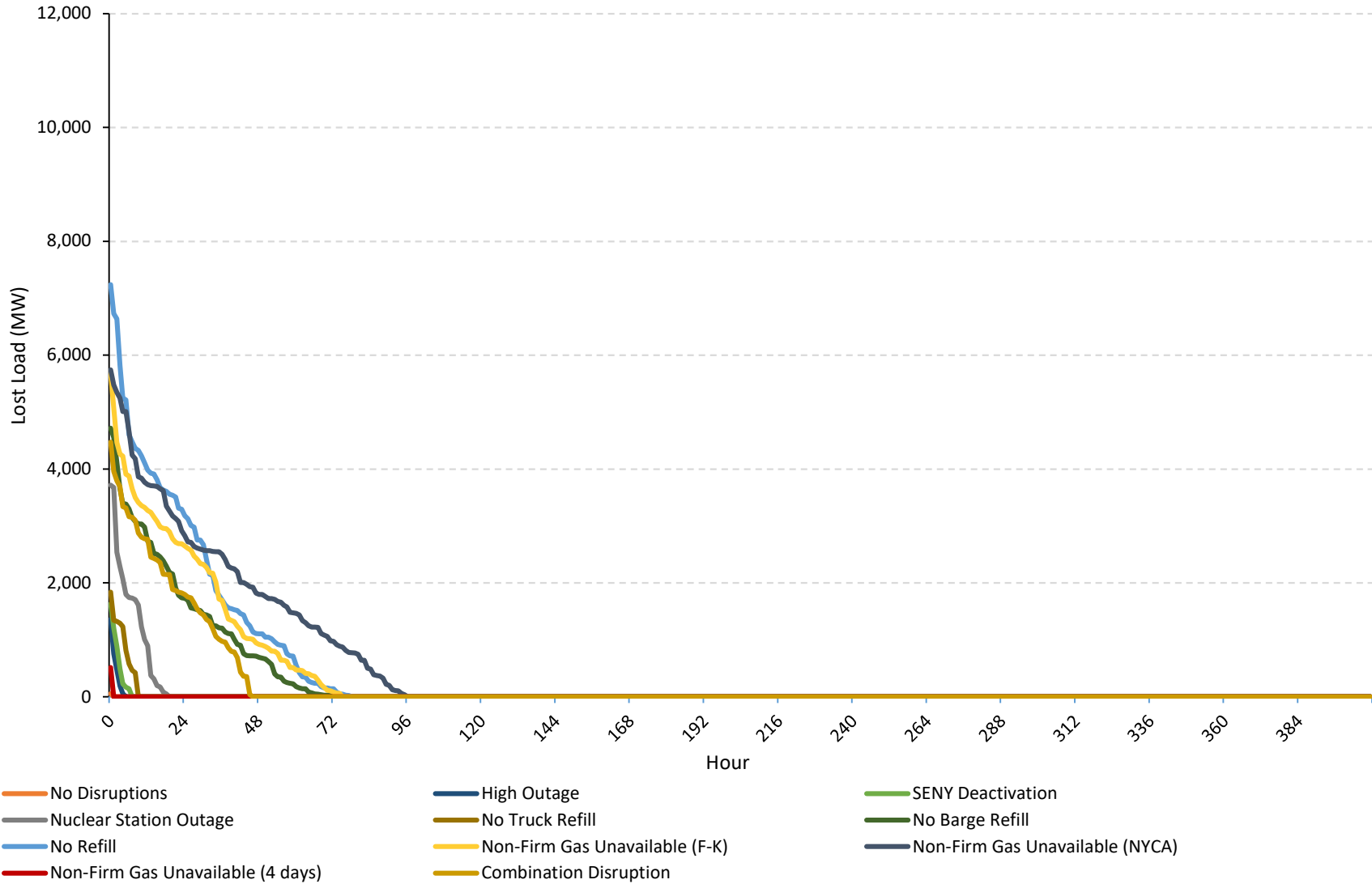
### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 7: Initial Conditions + IM All + HFS + REN



### NYCA Lost Load Duration (MWh) - Winter 2026/2027

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

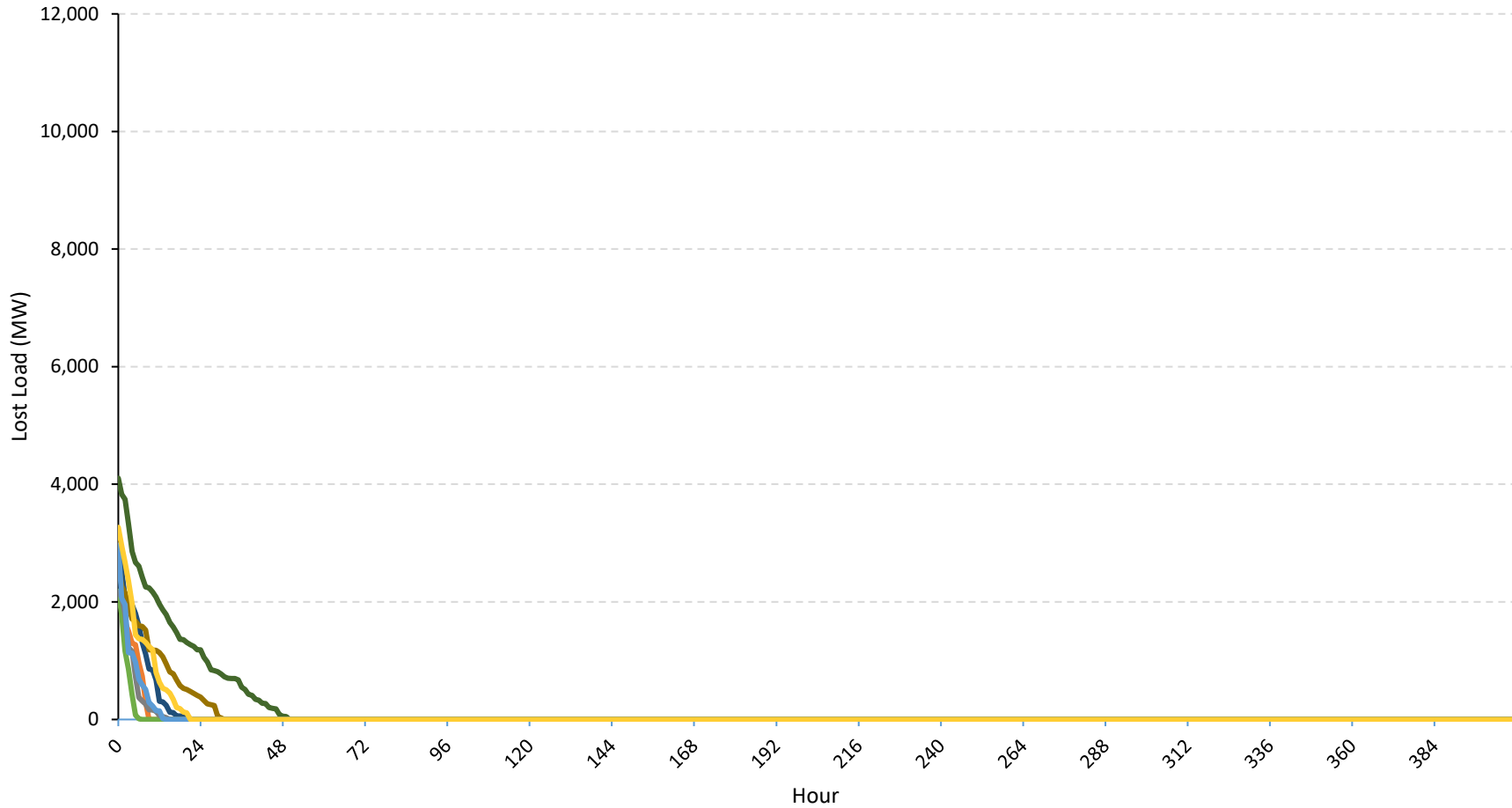




## **Appendix D. Loss of Load Duration Curves for all Scenarios and Disruptions Winter 2030/2031**

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

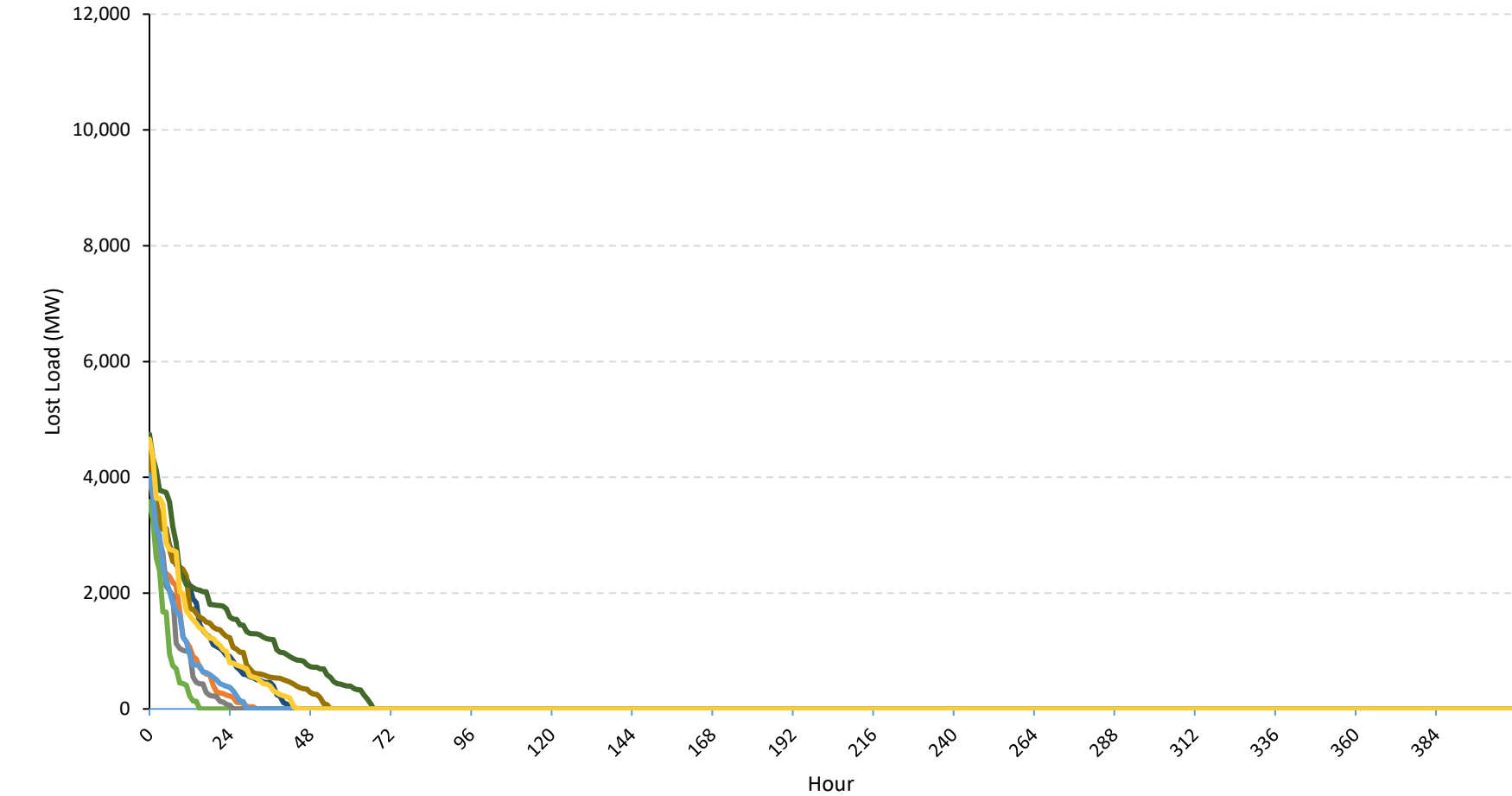
PD 1 No Disruptions



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

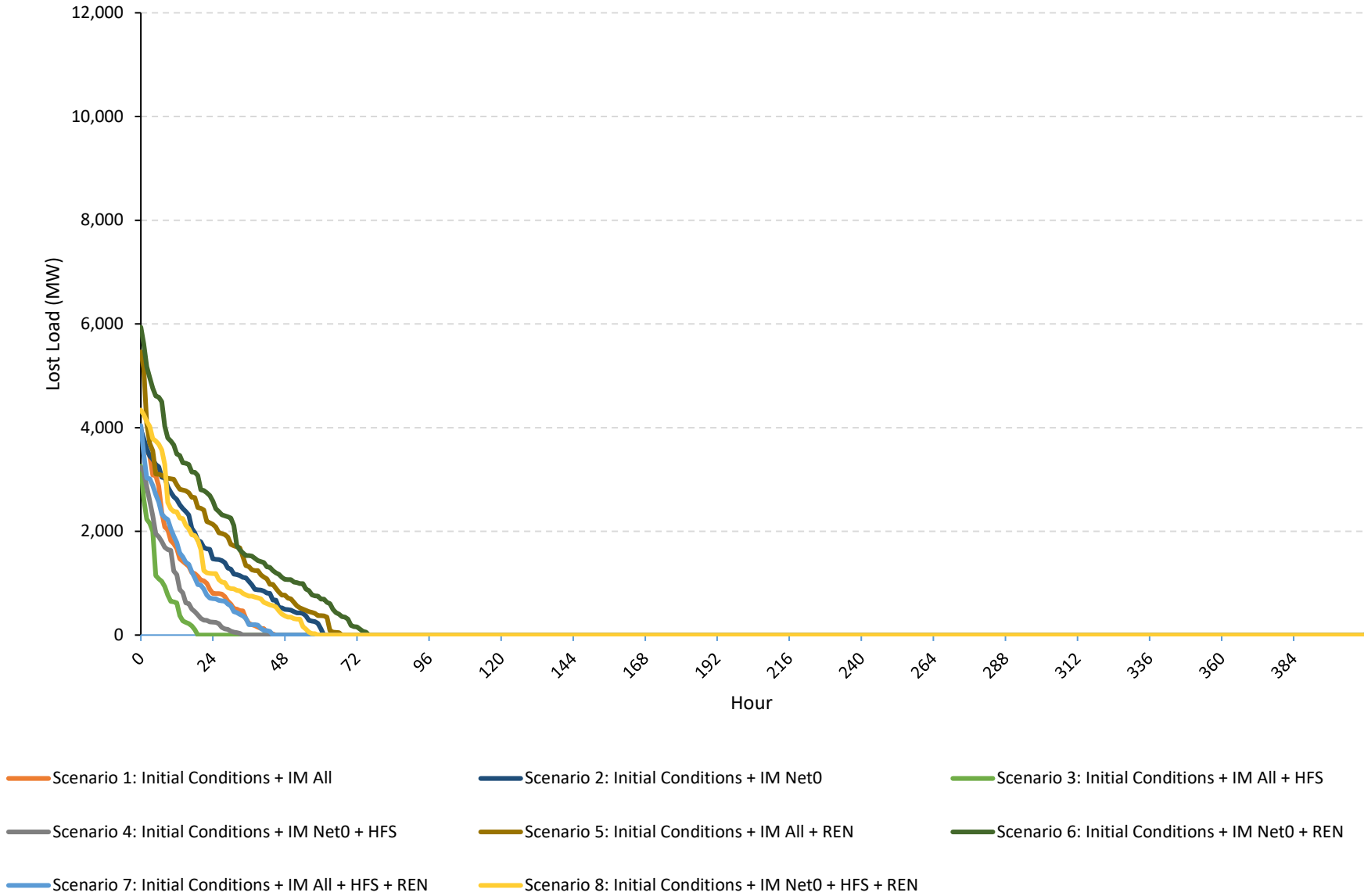
PD 2 High Outage



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

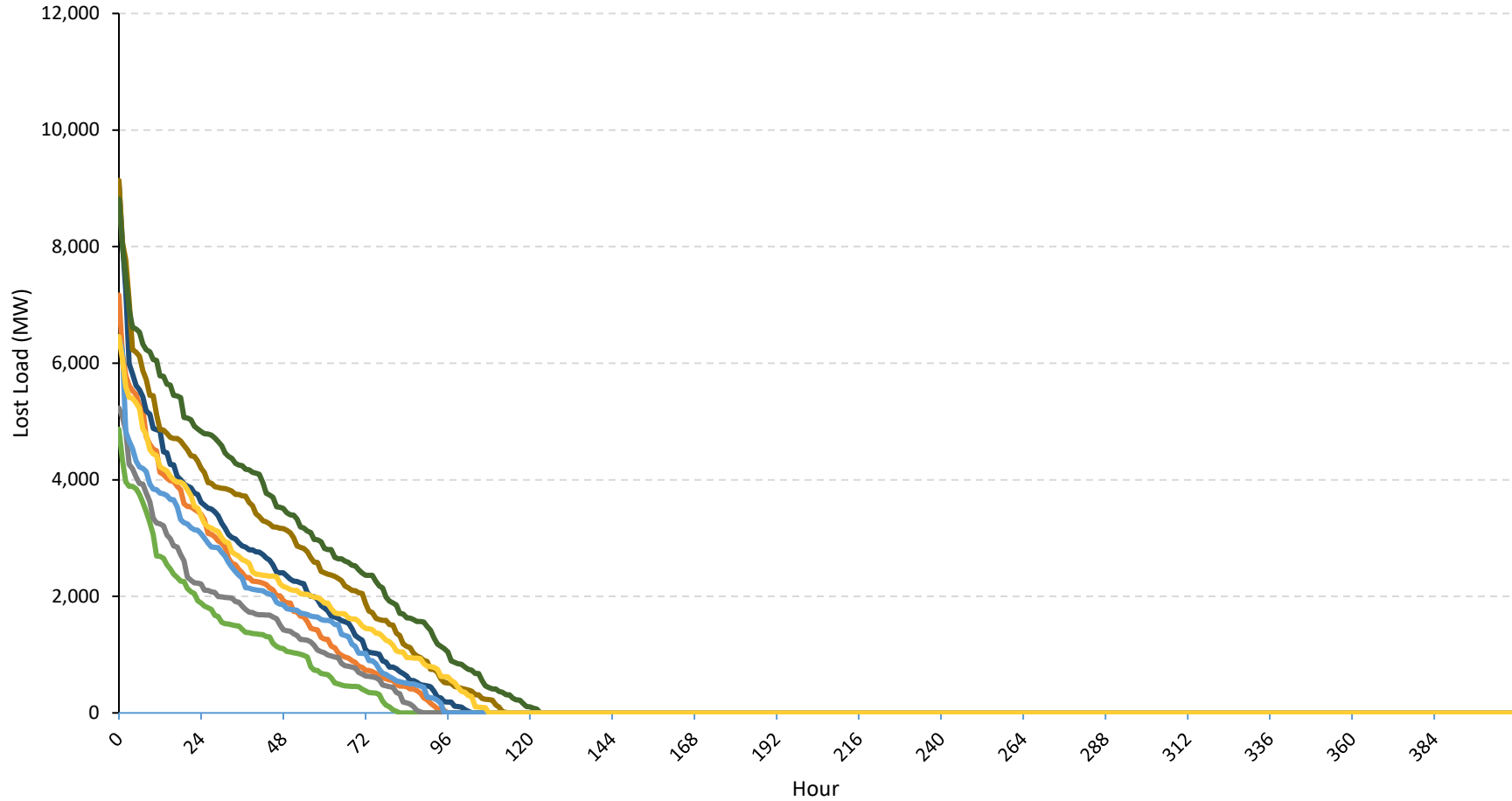
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

PD 3 SENY Deactivation



### NYCA Lost Load Duration (MWh) - Winter 2030/2031

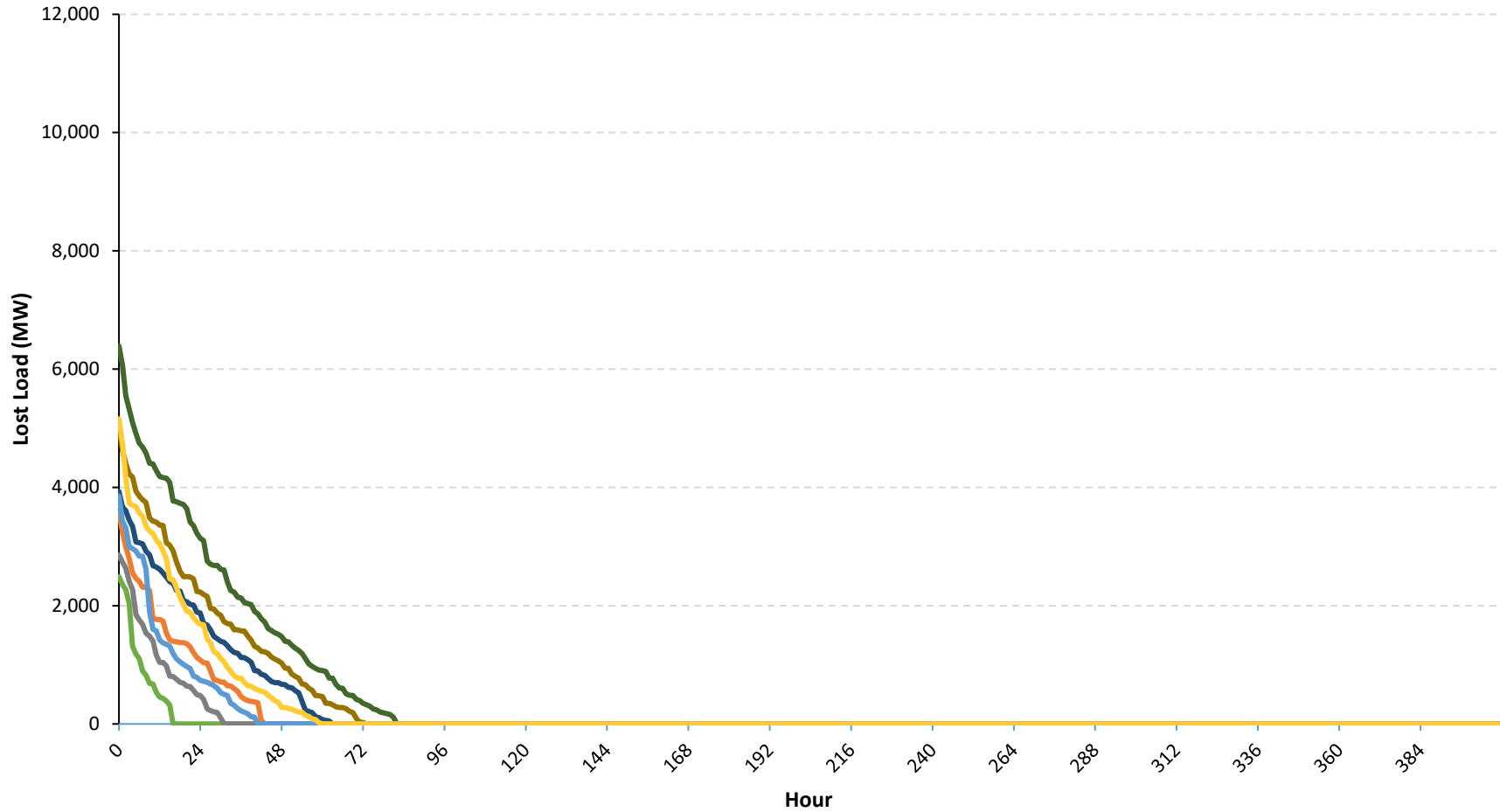
PD 4 Nuclear Station Outage



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

PD 5 No Truck Refill



Scenario 1: Initial Conditions + IM All

Scenario 2: Initial Conditions + IM Net0

Scenario 3: Initial Conditions + IM All + HFS

Scenario 4: Initial Conditions + IM Net0 + HFS

Scenario 5: Initial Conditions + IM All + REN

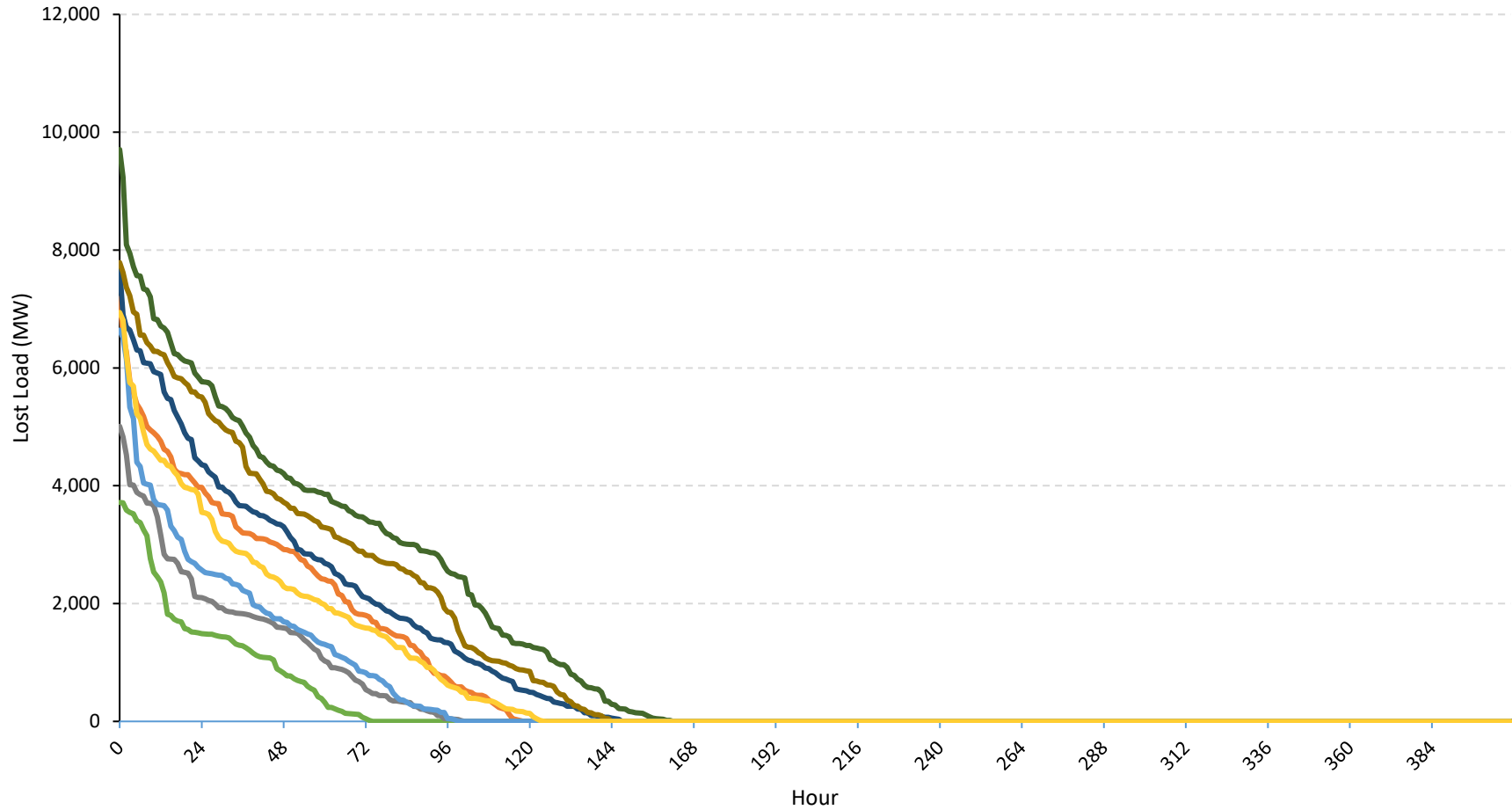
Scenario 6: Initial Conditions + IM Net0 + REN

Scenario 7: Initial Conditions + IM All + HFS + REN

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

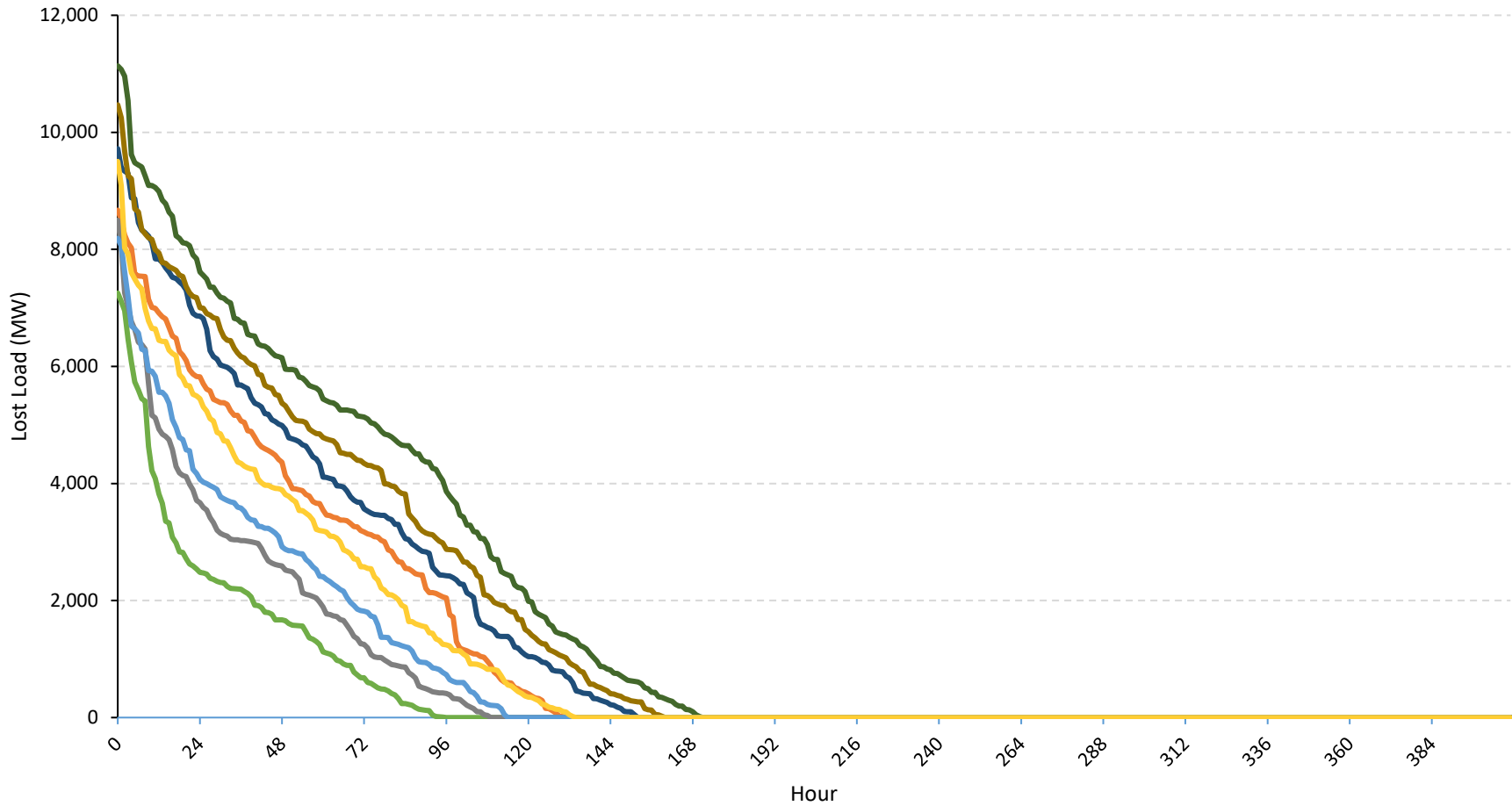
PD 6 No Barge Refill



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

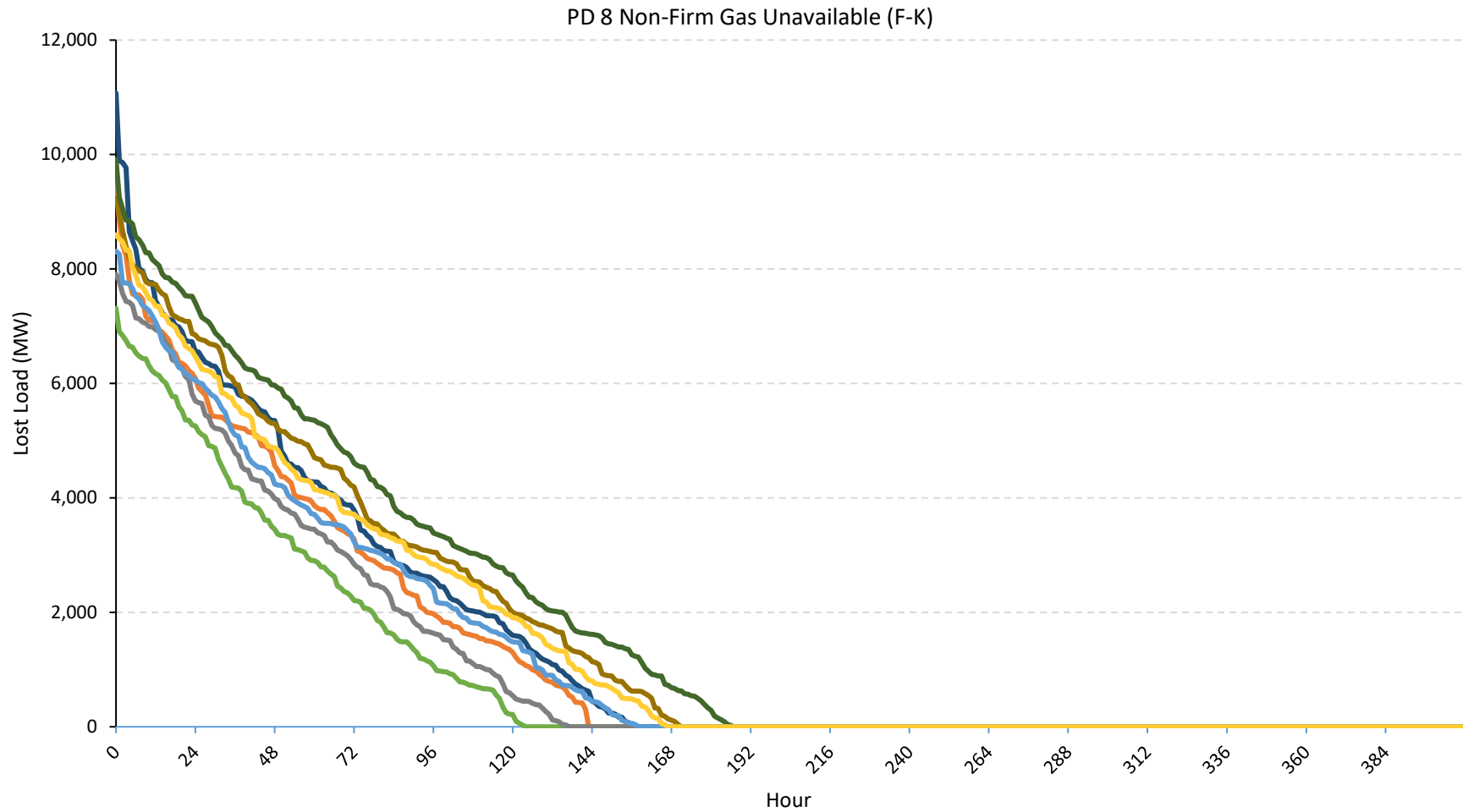
PD 7 No Refill



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN



### NYCA Lost Load Duration (MWh) - Winter 2030/2031



Scenario 1: Initial Conditions + IM All

Scenario 2: Initial Conditions + IM Net0

Scenario 3: Initial Conditions + IM All + HFS

Scenario 4: Initial Conditions + IM Net0 + HFS

Scenario 5: Initial Conditions + IM All + REN

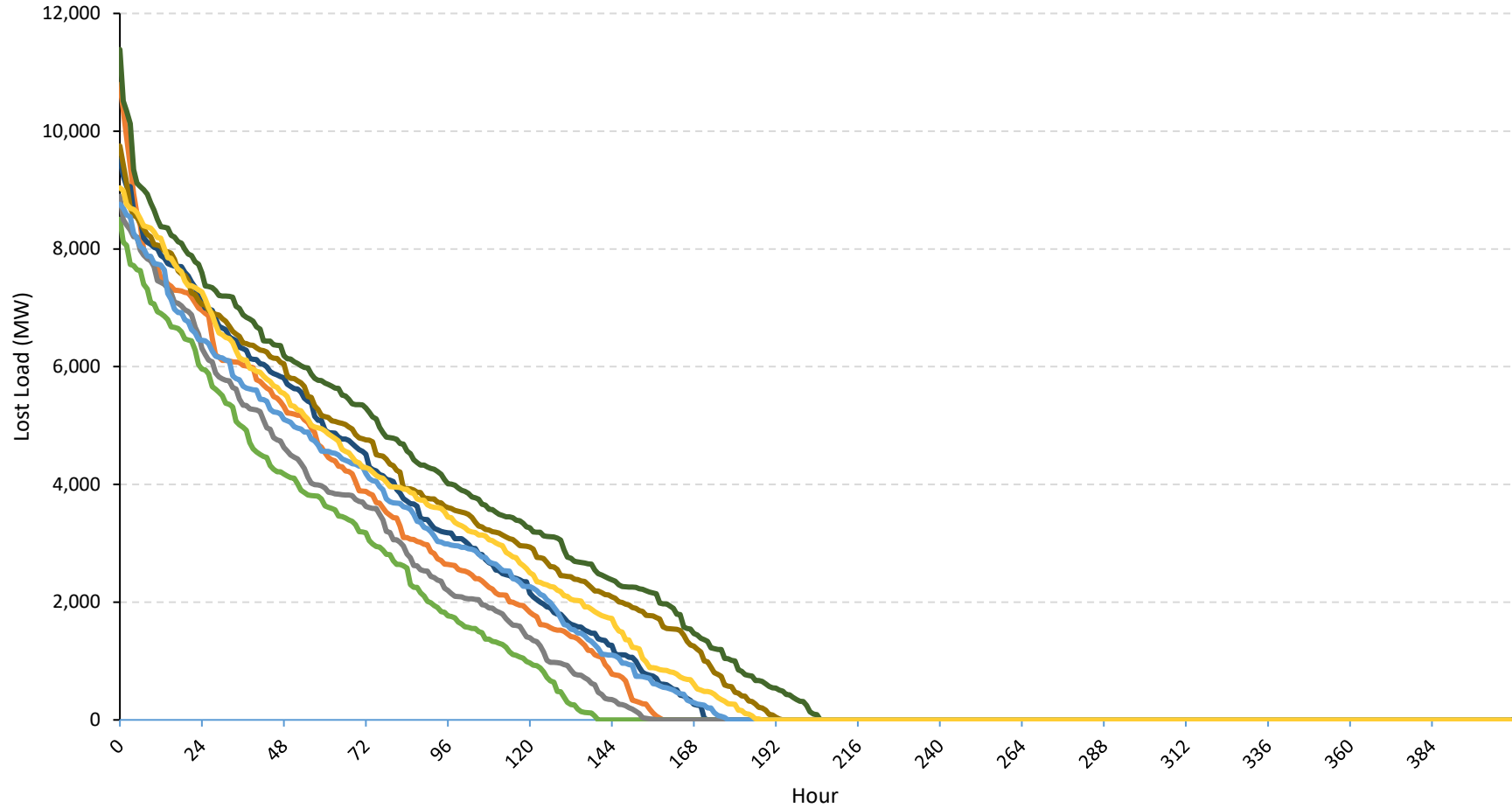
Scenario 6: Initial Conditions + IM Net0 + REN

Scenario 7: Initial Conditions + IM All + HFS + REN

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031

PD 9 Non-Firm Gas Unavailable (NYCA)



Scenario 1: Initial Conditions + IM All

Scenario 2: Initial Conditions + IM Net0

Scenario 3: Initial Conditions + IM All + HFS

Scenario 4: Initial Conditions + IM Net0 + HFS

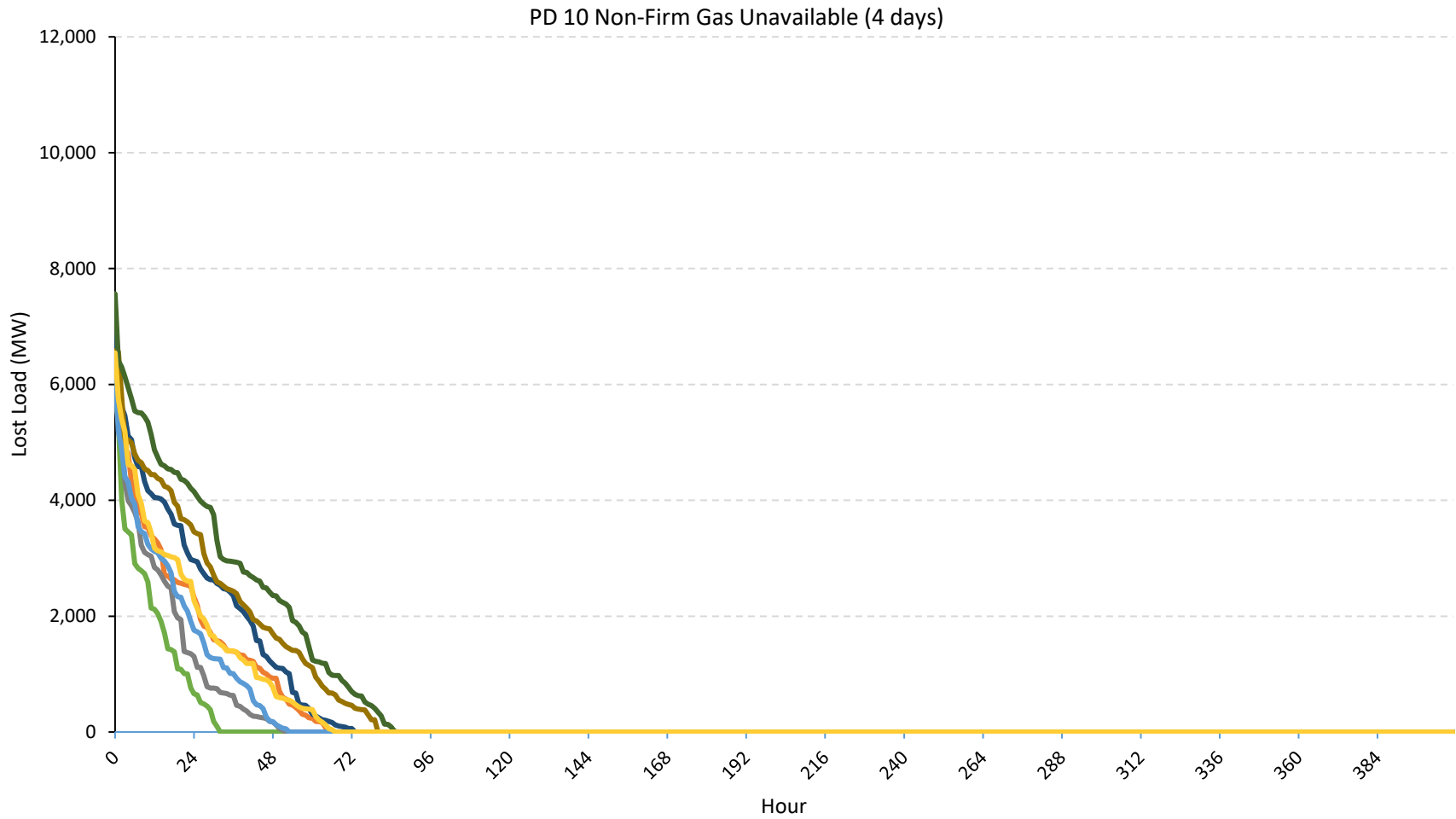
Scenario 5: Initial Conditions + IM All + REN

Scenario 6: Initial Conditions + IM Net0 + REN

Scenario 7: Initial Conditions + IM All + HFS + REN

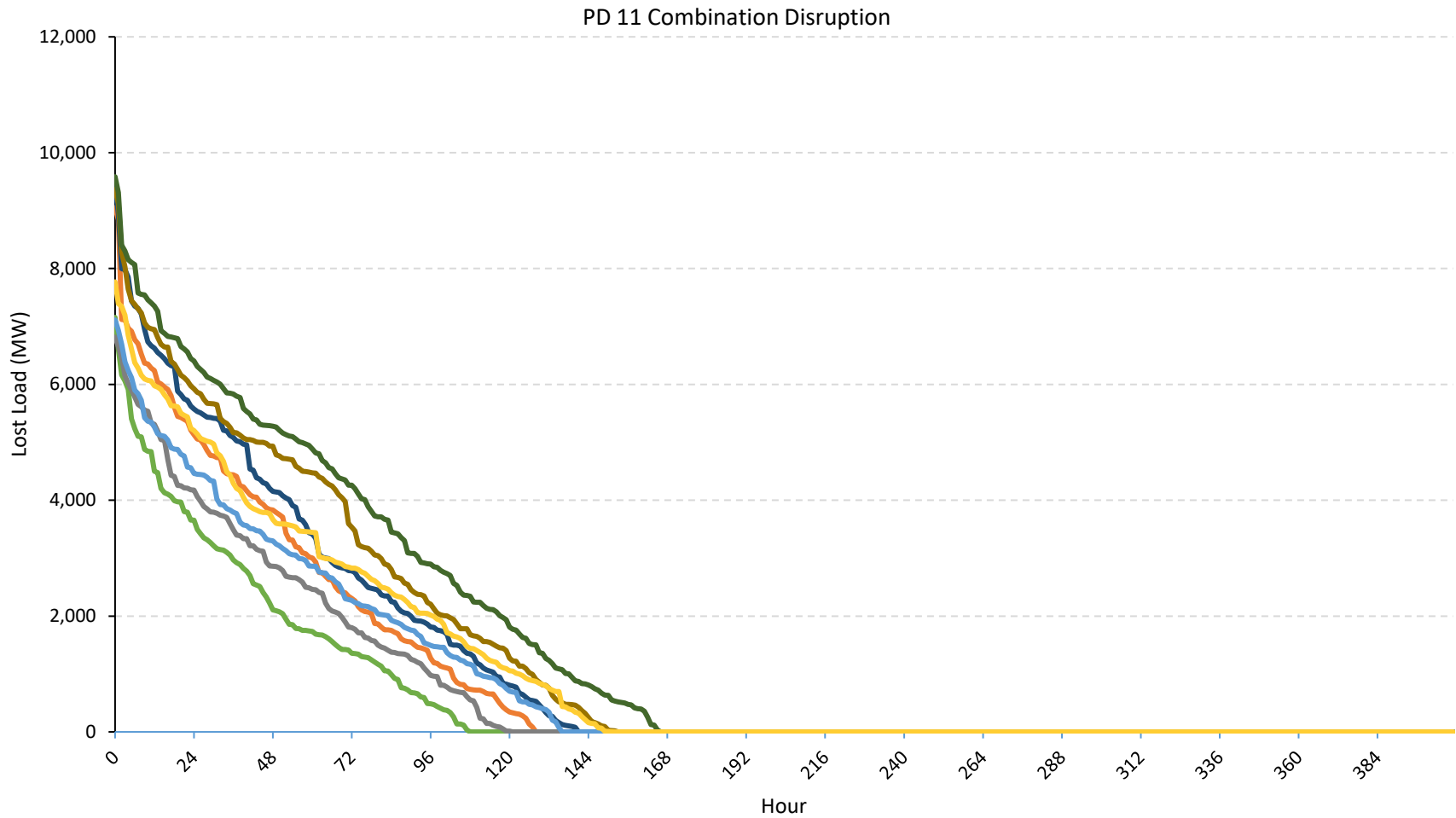
Scenario 8: Initial Conditions + IM Net0 + HFS + REN

### NYCA Lost Load Duration (MWh) - Winter 2030/2031



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

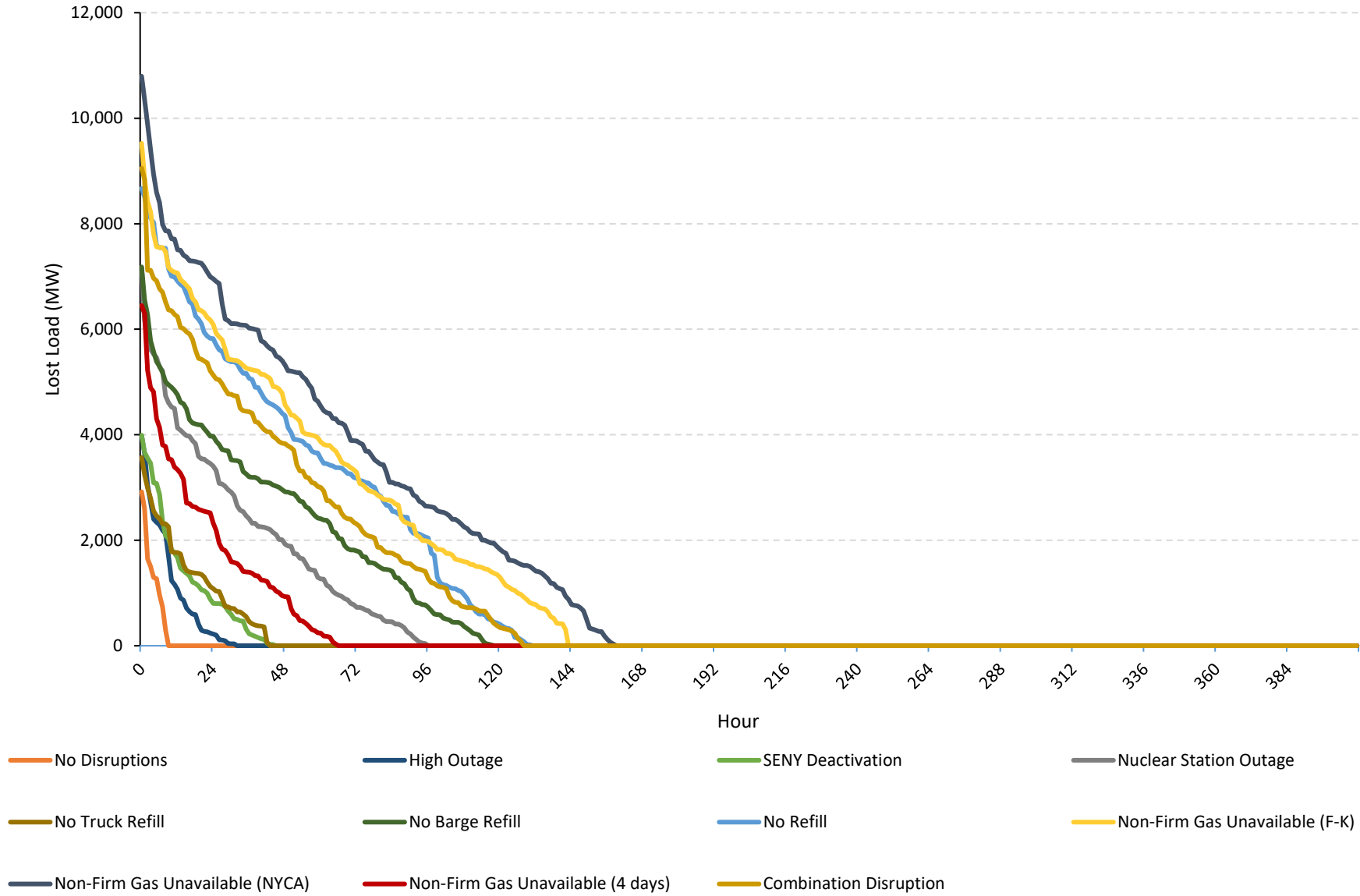
### NYCA Lost Load Duration (MWh) - Winter 2030/2031



- Scenario 1: Initial Conditions + IM All
- Scenario 2: Initial Conditions + IM Net0
- Scenario 3: Initial Conditions + IM All + HFS
- Scenario 4: Initial Conditions + IM Net0 + HFS
- Scenario 5: Initial Conditions + IM All + REN
- Scenario 6: Initial Conditions + IM Net0 + REN
- Scenario 7: Initial Conditions + IM All + HFS + REN
- Scenario 8: Initial Conditions + IM Net0 + HFS + REN

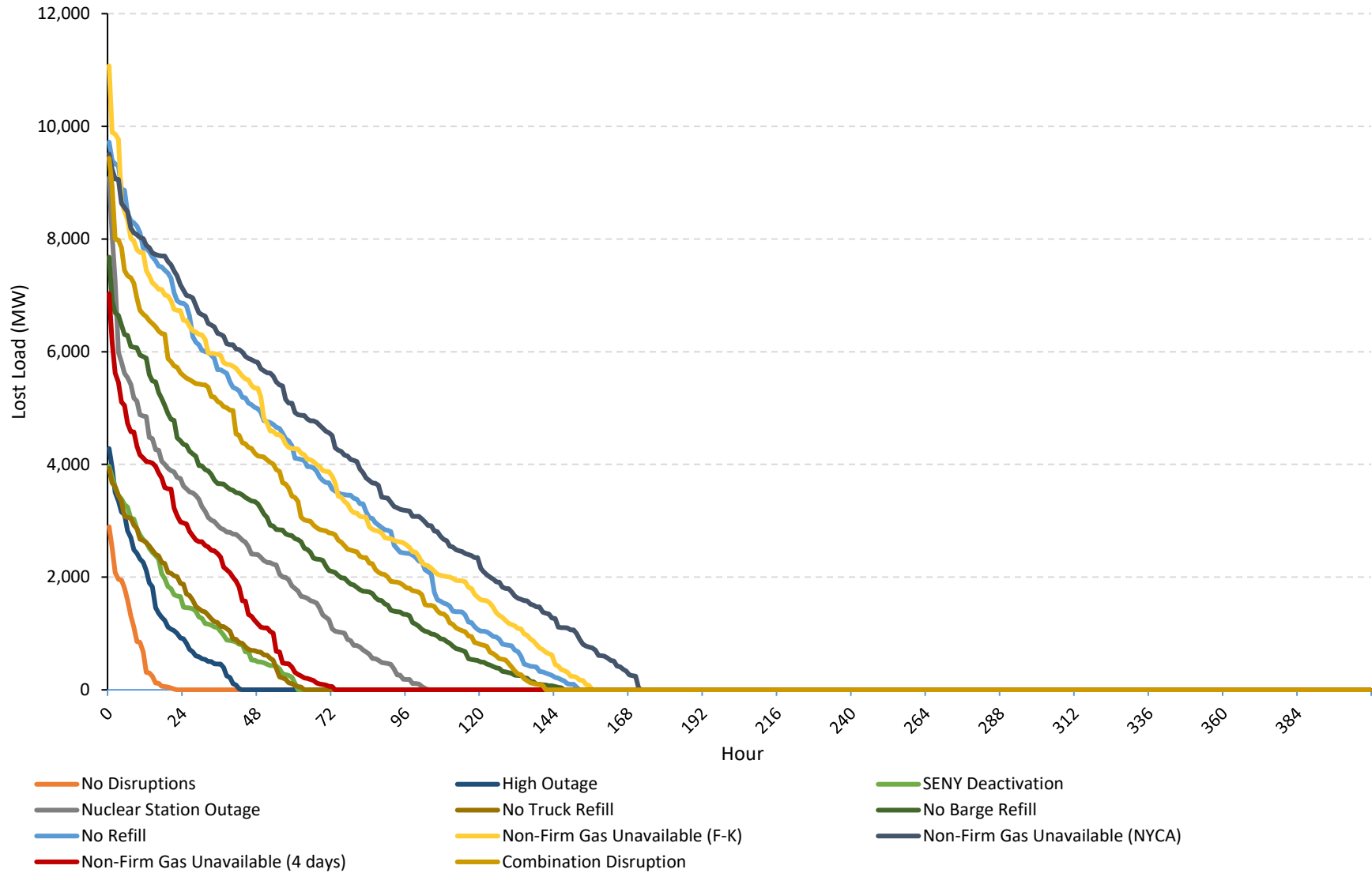
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 1: Initial Conditions + IM All



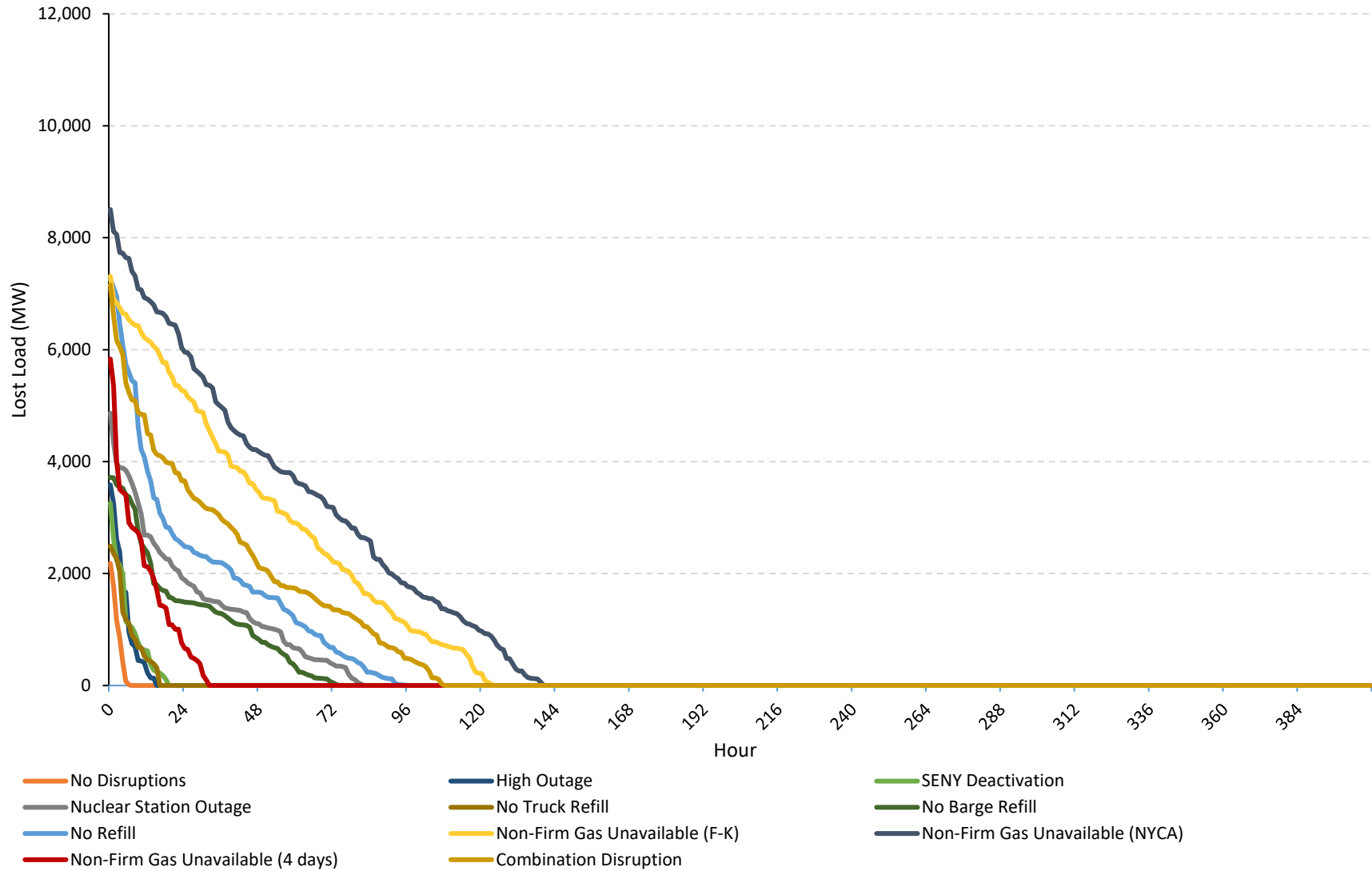
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 2: Initial Conditions + IM Net0



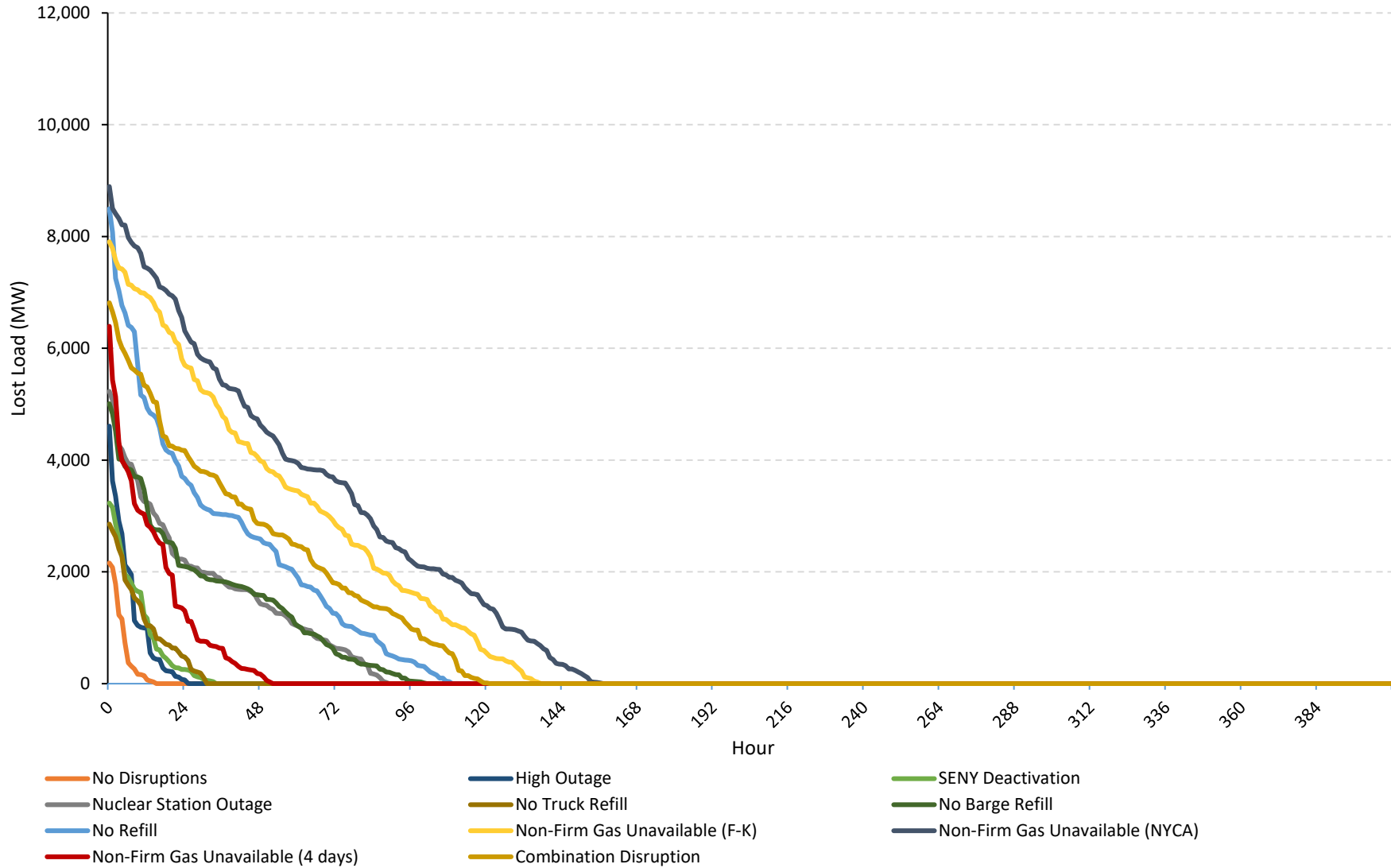
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 3: Initial Conditions + IM All + HFS



### NYCA Lost Load Duration (MWh) - Winter 2030/2031

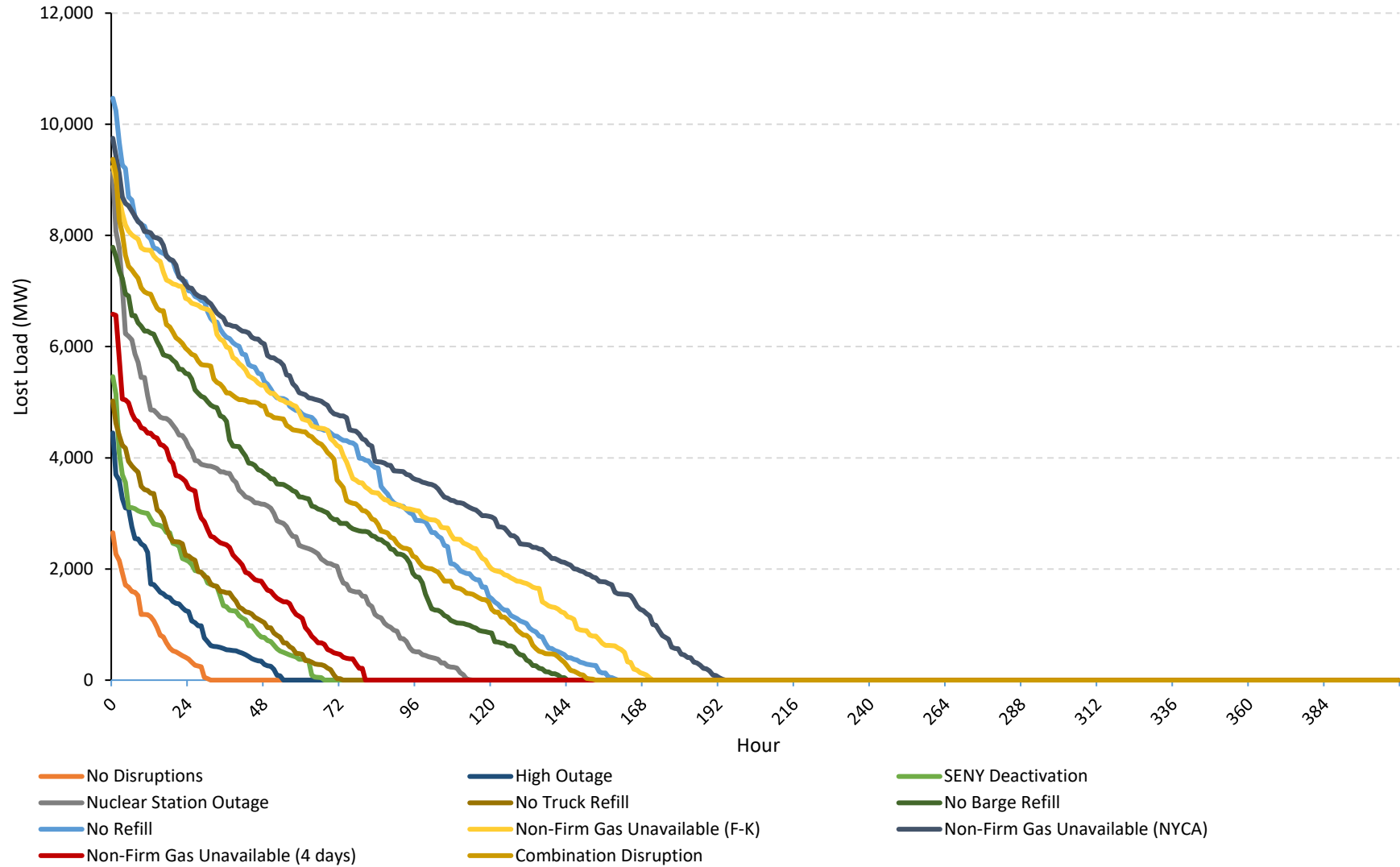
Scenario 4: Initial Conditions + IM Net0 + HFS





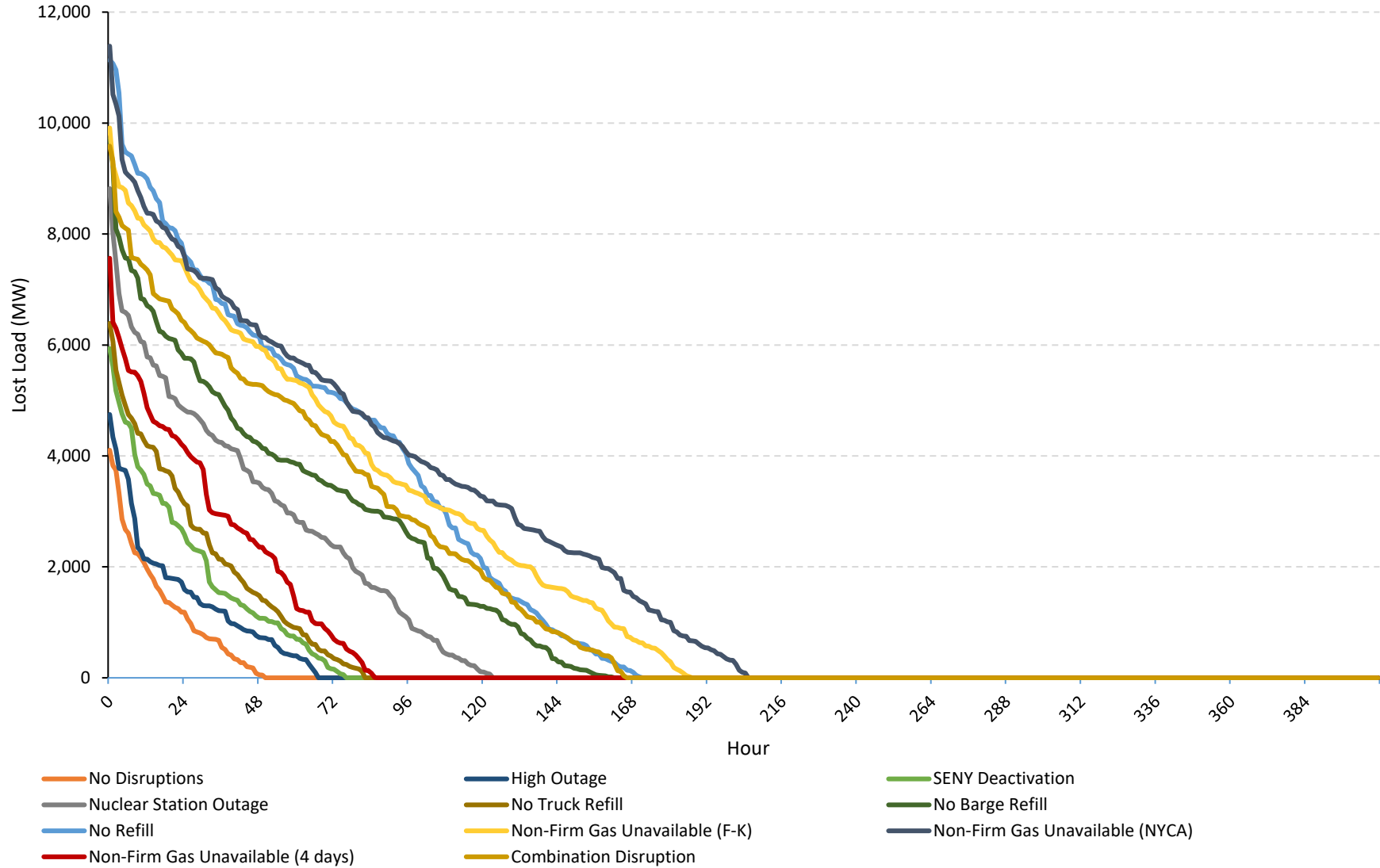
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 5: Initial Conditions + IM All + REN



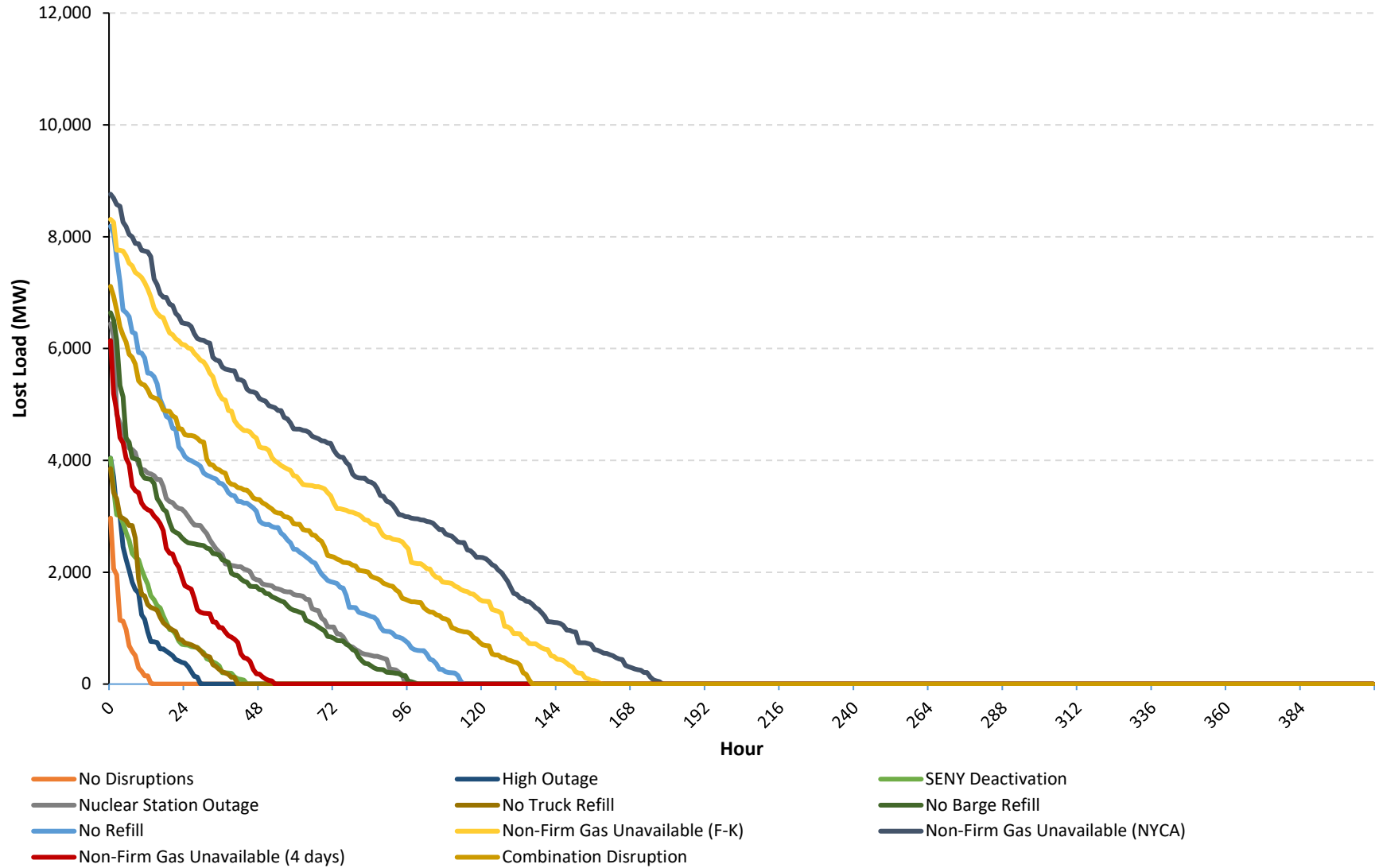
### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 6: Initial Conditions + IM Net0 + REN



### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 7: Initial Conditions + IM All + HFS + REN



### NYCA Lost Load Duration (MWh) - Winter 2030/2031

Scenario 8: Initial Conditions + IM Net0 + HFS + REN

