GE 7HA.03 with SCR and Dual Fuel						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**Zone G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Number of Gas Turbines	1	1	1	1	1	1
Representative Class Gas Turbine	GE 7HA.03	GE 7HA.03	GE 7HA.03	GE 7HA.03	GE 7HA.03	GE 7HA.03
Assumed Land Use, Acres	15	15	15	15	12	15
Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger
NO_x Control	Dry Low Nox / Water Injection / SCR	Dry Low Nox / Water Injection / SCR	Dry Low Nox / Water Injection / SCR	Dry Low Nox / Water Injection / SCR	Dry Low Nox / Water Injection / SCR	Dry Low Nox / Water Injection / SCR
CO Control	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
Permitting & Construction Schedule (Years from FNTP)	3	3	3	3	3	3
ESTIMATED PERFORMANCE (BASED ON NATURAL GAS OPERATION)						
Summer Base Load Performance						
Net Plant Output, kW	400,200	411,800	408,000	408,000	413,900	417,000
Net Plant Heat Rate, Btu/kWh (HHV)	9,000	9,000	9,000	9,000	9,000	9,000
Heat Input, MMBtu/hr	3,600	3,710	3,670	3,670	3,730	3,750
Summer DMNC Base Load Performance						
Net Plant Output, kW	394,500	406,500	400,900	400,900	404,400	407,100
Net Plant Heat Rate, Btu/kWh (HHV)	9,000	9,000	9,040	9,040	9,060	9,060
Heat Input, MMBtu/hr	3,600	3,700	3,620	3,620	3,660	3,690
Winter Base Load Performance						
Net Plant Output, kW	414,300	429,100	426,900	426,900	434,700	438,100
Net Plant Heat Rate, Btu/kWh (HHV)	8,930	8,870	8,850	8,850	8,830	8,830
Heat Input, MMBtu/hr	3,700	3,810	3,780	3,780	3,840	3,870
Winter DMNC Base Load Performance						
Net Plant Output, kW	419,500	431,700	428,500	428,500	435,000	438,100
Net Plant Heat Rate, Btu/kWh (HHV)	8,800	8,800	8,820	8,820	8,820	8,830
Heat Input, MMBtu/hr	3,700	3,800	3,780	3,780	3,840	3,870
ICAP Base Load Performance						
Net Plant Output, kW	389,000	400,300	397,400	397,400	404,100	404,000
Net Plant Heat Rate, Btu/kWh (HHV)	9,070	9,060	9,070	9,070	9,060	9,060
Heat Input, MMBtu/hr	3,530	3,630	3,600	3,600	3,660	3,660

GE 7HA.03 with SCR and Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$423**	**$432**	**$435**	**$495**	**$551**	**$537**
Dual Fuel Breakout Costs, 2024 MM$ (w/o Owner's Costs)	**$26.9**	**$26.9**	**$26.9**	**Included**	**Included**	**Included**
Owner's Costs, 2024 MM$	**$148**	**$148**	**$142**	**$143**	**$171**	**$137**
Owner's Project Development	$1.2	$1.2	$1.2	$1.2	$1.6	$1.2
Owner's Operational Personnel Prior to COD	$0.3	$0.3	$0.3	$0.3	$0.4	$0.3
Owner's Engineer	$1.6	$1.6	$1.6	$1.6	$2.0	$1.6
Owner's Project Management	$1.6	$1.6	$1.6	$1.6	$2.0	$1.6
Owner's Legal Costs	$0.7	$0.7	$0.7	$0.7	$0.8	$0.7
Owner's Start-up Engineering and Commissioning	$0.1	$0.1	$0.1	$0.1	$0.1	$0.1
Land	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Construction Power and Water	$0.5	$0.5	$0.5	$0.5	$0.7	$0.5
Permitting Support	$0.7	$0.7	$0.7	$0.7	$1.0	$0.7
Switchyard	$18.19	$18.2	$18.2	$18.2	$51.0	$13.0
Transmission Line and Electrical Interconnection	$26.05	$26.0	$26.0	$26.0	$29.3	$23.0
Gas Interconnection and Reinforcement	$35.4	$35.4	$35.4	$35.4	$15.5	$36.6
System Deliverability Upgrade Costs	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Water Supply Infrastructure	$9.6	$9.6	$3.2	$3.2	$6.8	$1.6
Emission Reduction Credits	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Public Outreach and Area Development	$0.6	$0.6	$0.6	$0.6	$0.8	$0.6
Startup/Testing (Fuel & Consumables)	$3.2	$3.2	$3.2	$3.2	$4.1	$3.2
Initial Fuel Inventory	$6.9	$6.9	$6.9	$6.9	$6.9	$6.9
Site Security	$0.7	$0.7	$0.7	$0.7	$0.9	$0.7
Operating Spare Parts	$10.0	$10.0	$10.0	$10.0	$10.0	$10.0
Builders Risk Insurance (0.45% of Construction Costs)	$2.0	$2.1	$2.1	$2.2	$2.5	$2.4
Owner's Contingency (5% for Screening Purposes)	$28.4	$28.9	$28.7	$30.4	$34.4	$32.1
AFUDC, 2024 MM$						
EPC Portion	$41.6	$42.5	$42.7	$45.8	$50.2	$49.8
Non-EPC Portion	$13.7	$13.7	$13.1	$13.3	$15.6	$12.7
Total Project Costs, 2024 MM$	**$652**	**$663**	**$659**	**$697**	**$787**	**$737**
EPC Cost Per kW, 2024 $/kW (Note 1)	**$1,156**	**$1,146**	**$1,162**	**$1,244**	**$1,363**	**$1,330**
Total Cost Per kW, 2024 $/kW (Note 1)	**$1,677**	**$1,656**	**$1,659**	**$1,754**	**$1,948**	**$1,823**

GE 7HA.03 with SCR and Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
ESTIMATED STARTUP FUEL USAGE						
Start to Base Load, MMBtu	376	376	376	376	376	376
FIXED O&M COSTS (Note 2)						
Fixed O&M Cost - LABOR, 2024$MM/Yr	$1.11	$1.22	$1.44	$1.80	$1.93	$1.93
Fixed O&M Cost - OTHER, 2024$MM/Yr	$1.61	$1.61	$1.61	$1.61	$1.61	$1.61
Property Insurance Allowance	$2.70	$2.75	$2.77	$2.97	$3.31	$3.22
Site Leasing Allowance, 2024$/MM/Yr	$0.38	$0.38	$0.38	$0.38	$7.7	$0.5
Total Fixed O&M, $/kW-yr	$14.9	$14.9	$15.6	$17.0	$36.1	$17.9
LEVELIZED CAPITAL MAINTENANCE COSTS - GAS OPERATION						
Major Maintenance Cost, 2024$/GT-hr or $/engine-hr (Note 3)	$650	$650	$650	$650	$650	$650
Major Maintenance Cost, 2024$/GT-start	$23,100	$23,100	$23,100	$23,100	$23,100	$23,100
Major Maintenance Cost, 2024$/MWh	$1.57	$1.51	$1.52	$1.52	$1.49	$1.53
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTENANCE, Note 4) - GAS OPERATION						
Total Variable O&M Cost, 2024$/MWh	**$1.45**	**$1.45**	**$1.45**	**$1.45**	**$1.54**	**$1.50**
Water Related O&M, $/MWh	$0.00	$0.00	$0.00	$0.00	$0.04	$0.00
SCR Related Costs, $/MWh	$0.55	$0.55	$0.55	$0.55	$0.60	$0.60
Other Consumables and Variable O&M, $/MWh	$0.90	$0.90	$0.90	$0.90	$0.90	$0.90
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTENANCE, Note 4) - FUEL OIL OPERATION						
Total Variable O&M Cost, 2024$/MWh	**$8.75**	**$8.55**	**$8.59**	**$8.59**	**$8.73**	**$8.49**
Water Related O&M, $/MWh	$6.98	$6.77	$6.82	$6.82	$6.99	$6.72
SCR Related Costs, $/MWh	$0.87	$0.88	$0.87	$0.87	$0.84	$0.87
Other Consumables and Variable O&M, $/MWh	$0.90	$0.90	$0.90	$0.90	$0.90	$0.90

GE 7HA.03 with SCR and Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS (Note 5)						
GT emissions prior to SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	332	341	339	339	345	341
SO2	1	1	1	1	1	1
CO	48	50	50	50	50	50
CO2	432,900	445,770	442,260	442,260	449,280	452,790
Stack emissions with SCR and CO Catalust (lb/hr, HHV) (Note 6)						
NOX	27	27	27	27	28	27
SO2	1	1	1	1	1	1
CO	4	4	4	4	4	4
CO2	432,900	445,770	442,260	442,260	449,280	452,790
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW SULFUR FUEL OIL (Note 7)						
GT Operating, NO SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	556	574	569	569	580	578
SO2	3	3	3	3	3	3
CO	74	77	76	76	77	77
CO2	616,470	635,909	630,818	630,818	642,369	640,557
GT with SCR and CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	79	82	81	81	83	83
SO2	3	3	3	3	3	3
CO	11	11	11	11	11	11
CO2	616,470	635,909	630,818	630,818	642,369	640,557

Notes:

[1] $/kW values based on ICAP net plant performance outputs.

[2] All gas turbine FOM costs assume 7 full time personnel for first unit.

[3] Major maintenance $/hr and $/start are NOT additive. The maintenance will be either starts or hours based depending on operating profile. If average hours/start > 35.6, then maintenance will be hours based.

[4] Gas operation only. VOM assumes the use of temporary trailers for demineralized water treatment, where applicable.

[5] Emissions estimates are shown for steady state operation at ISO conditions for natural gas, unless otherwise stated. Estimates account for the impacts of SCR and CO catalysts, as applicable.
Emissions estimates should not be used for permitting.

[6] SO2 emissions on Natural Gas assume 0.2 gr/100 scf of sulfur in the gas.

[7] Fuel oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

[8] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.

[9] GE 7HA.03 gas-only with SCR design was evaluated for C, F, and both G locations. Performance, capital cost costs, O&M, costs, and emissions are identical to the above table with the exception of "Dual Fuel Breakout Costs," which are $0 for the gas-only design.

GE 7HA.02 without SCR and with Dual Fuel						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**Zone G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Number of Gas Turbines	1	1	1			
Representative Class Gas Turbine	GE 7HA.02	GE 7HA.02	GE 7HA.02			
Assumed Land Use, Acres	15	15	15			
Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)	Dual Fuel (Natural Gas and Fuel Oil)			
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger			
NO_x Control	Dry Low Nox / Water Injection	Dry Low Nox / Water Injection	Dry Low Nox / Water Injection			
CO Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			
Technology Rating	Mature	Mature	Mature			
Permitting & Construction Schedule (Years from FNTP)	3	3	3			
ESTIMATED PERFORMANCE (BASED ON NATURAL GAS OPERATION)						
Summer Base Load Performance						
Net Plant Output, kW	330,966	340,717	337,404			
Net Plant Heat Rate, Btu/kWh (HHV)	9,123	9,123	9,123			
Heat Input, MMBtu/hr	3,020	3,105	3,077			
Summer DMNC Base Load Performance						
Net Plant Output, kW	325,665	335,794	331,250			
Net Plant Heat Rate, Btu/kWh (HHV)	9,153	9,143	9,153			
Heat Input, MMBtu/hr	2,982	3,067	3,029			
Winter Base Load Performance						
Net Plant Output, kW	357,001	365,048	360,977			
Net Plant Heat Rate, Btu/kWh (HHV)	8,993	8,973	8,963			
Heat Input, MMBtu/hr	3,209	3,276	3,238			
Winter DMNC Base Load Performance						
Net Plant Output, kW	352,172	363,722	331,250			
Net Plant Heat Rate, Btu/kWh (HHV)	8,963	8,973	9,153			
Heat Input, MMBtu/hr	3,153	3,257	3,029			
ICAP Base Load Performance						
Net Plant Output, kW	321,026	330,682	328,126			
Net Plant Heat Rate, Btu/kWh (HHV)	9,183	9,173	9,173			
Heat Input, MMBtu/hr	2,944	3,029	3,011			

GE 7HA.02 without SCR and with Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$346.85**	**$355.06**	**$356.54**			
Dual Fuel Breakout Costs, 2024 MM$ (w/o Owner's Costs)	**$26.9**	**$26.9**	**$26.9**			
Owner's Costs, 2024 MM$	**$144**	**$144**	**$137**			
Owner's Project Development	$1.2	$1.2	$1.2			
Owner's Operational Personnel Prior to COD	$0.3	$0.3	$0.3			
Owner's Engineer	$1.6	$1.6	$1.6			
Owner's Project Management	$1.6	$1.6	$1.6			
Owner's Legal Costs	$0.7	$0.7	$0.7			
Owner's Start-up Engineering and Commissioning	$0.1	$0.1	$0.1			
Land	$0.0	$0.0	$0.0			
Construction Power and Water	$0.5	$0.5	$0.5			
Permitting Support	$0.7	$0.7	$0.7			
Switchyard	$18.19	$18.2	$18.2			
Transmission Line and Electrical Interconnection	$26.05	$26.0	$26.0			
Gas Interconnection and Reinforcement	$35.4	$35.4	$35.4			
System Deliverability Upgrade Costs	$0.0	$0.0	$0.0			
Water Supply Infrastructure	$9.6	$9.6	$3.2			
Emission Reduction Credits	$0.0	$0.0	$0.0			
Public Outreach and Area Development	$0.6	$0.6	$0.6			
Startup/Testing (Fuel & Consumables)	$3.2	$3.2	$3.2			
Initial Fuel Inventory	$6.9	$6.9	$6.9			
Site Security	$0.7	$0.7	$0.7			
Operating Spare Parts	$10.0	$10.0	$10.0			
Builders Risk Insurance (0.45% of Construction Costs)	$1.7	$1.7	$1.7			
Owner's Contingency (5% for Screening Purposes)	$24.6	$25.0	$24.8			
AFUDC, 2024 MM$						
EPC Portion	$34.6	$35.4	$35.5			
Non-EPC Portion	$13.3	$13.3	$12.7			
Total Project Costs, 2024 MM$	**$565**	**$575**	**$569**			
EPC Cost Per kW, 2024 $/kW (Note 1)	**$1,164**	**$1,155**	**$1,169**			
Total Cost Per kW, 2024 $/kW (Note 1)	**$1,760**	**$1,738**	**$1,734**			

GE 7HA.02 without SCR and with Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
ESTIMATED STARTUP FUEL USAGE						
Start to Base Load, MMBtu	240	240	240			
FIXED O&M COSTS (Note 2)						
Fixed O&M Cost - LABOR, 2024$MM/Yr	$1.10	$1.20	$1.20			
Fixed O&M Cost - OTHER, 2024$MM/Yr	$1.60	$1.60	$1.60			
Property Insurance Allowance	$2.24	$2.29	$2.30			
Site Leasing Allowance, 2024$/MM/Yr	$0.38	$0.38	$0.38			
Total Fixed O&M, $/kW-yr	$16.6	$16.6	$16.7			
LEVELIZED CAPITAL MAINTENANCE COSTS						
Major Maintenance Cost, 2024$/GT-hr or $/engine-hr (Note 3)	$620	$620	$620			
Major Maintenance Cost, 2024$/GT-start	$23,000	$23,000	$23,000			
Major Maintenance Cost, 2024$/MWh	$1.72	$1.70	$1.70			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTENANCE, Note 4)						
Total Variable O&M Cost, 2024$/MWh	**$0.90**	**$0.90**	**$0.90**			
Water Related O&M, $/MWh	$0.00	$0.00	$0.00			
SCR Related Costs, $/MWh	NA	NA	NA			
Other Consumables and Variable O&M, $/MWh	$0.90	$0.90	$0.90			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTENANCE, Note 4) - FUEL OIL OPERATION						
Total Variable O&M Cost, 2024$/MWh	**$8.75**	**$8.55**	**$8.59**			
Water Related O&M, $/MWh	$6.98	$6.77	$6.82			
SCR Related Costs, $/MWh	$0.87	$0.88	$0.87			
Other Consumables and Variable O&M, $/MWh	$0.90	$0.90	$0.90			

GE 7HA.02 without SCR and with Dual Fuel

	ZONE C	ZONE F	ZONE G - Dutchess	Zone G - Rockland	ZONE J	ZONE K
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS (Note 5)						
GT emissions prior to SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	332	341	339			
SO2	1	1	1			
CO	48	50	50			
CO2	432,900	430,560	442,260			
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW SULFUR FUEL OIL (Note 7)						
GT Operating, NO SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	556	574	569			
SO2	3	3	3			
CO	74	77	76			
CO2	616,470	635,909	630,818			

Notes:

[1] $/kW values based on ICAP net plant performance outputs.

[2] All gas turbine FOM costs assume 7 full time personnel for first unit.

[3] Major maintenance $/hr and $/start are NOT additive. The maintenance will be either starts or hours based depending on operating profile. If average hours/start > 35.6, then maintenance will be hours based.

[4] Gas operation only. VOM assumes the use of temporary trailers for demineralized water treatment, where applicable.

[5] Emissions estimates are shown for steady state operation at ISO conditions for natural gas, unless otherwise stated. Estimates account for the impacts of SCR and CO catalysts, as applicable. Emissions estimates should not be used for permitting.

[6] SO2 emissions on Natural Gas assume 0.2 gr/100 scf of sulfur in the gas.

[7] Fuel oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

[8] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.

[9] GE 7HA.02 gas-only without SCR design was evaluated for C, F, and G (Dutchess County). Performance, capital cost costs, O&M, costs, and emissions are identical to the above table with the exception of "Dual Fuel Breakout Costs," which are $0 for the gas-only design.

200 MW / 2-hr Lithium-Ion Battery Energy Storage System						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**ZONE G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Nominal Output, MW	200	200	200	200	200	200
Nominal Duration, hr	2	2	2	2	2	2
Assumed Useful Life (years)	20	20	20	20	20	20
Equivalent Availability Factor (%)	98%	98%	98%	98%	98%	98%
Assumed Land Use During Operation, Acres (Not Construction Land Use)	10	10	10	10	6	9
Annual System Cycles	365	365	365	365	365	365
Storage System Initial Overbuild (Years)	4	4	4	4	4	4
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%
Interconnection Voltage, kV	345	345	345	345	345	138
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
EPC Schedule (Years from NTP)	2.50	2.50	2.50	2.50	2.50	2.50
ESTIMATED PERFORMANCE						
BESS Performance						
Net Plant Output, kW	200,000	200,000	200,000	200,000	200,000	200,000
Discharge Duration, hr	2	2	2	2	2	2
Net Plant Energy Capacity, kWh	400,000	400,000	400,000	400,000	400,000	400,000
Energy Capacity Installed with Overbuild, kWh AC at POI	451,500	451,500	451,500	451,500	451,500	451,500

200 MW / 2-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$167.8**	**$169.2**	**$167.9**	**$173.9**	**$206.1**	**$177.8**
Owner's Cost Allowances, 2024 MM$	**$61.2**	**$61.3**	**$61.2**	**$61.5**	**$102.7**	**$53.1**
Owner's Project Development	$0.680	$0.680	$0.680	$0.680	$0.880	$0.680
Owner's Operational Personnel Prior to COD	$0.080	$0.080	$0.080	$0.080	$0.080	$0.080
Owner's Engineer	$0.560	$0.560	$0.560	$0.560	$0.730	$0.560
Owner's Project Management	$0.830	$0.830	$0.830	$0.830	$1.080	$0.830
Owner's Legal Costs	$0.650	$0.650	$0.650	$0.650	$0.850	$0.650
Owner's Start-up Engineering and Commissioning	$0.060	$0.060	$0.060	$0.060	$0.080	$0.060
Sales Tax	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Construction Power and Water	$0.170	$0.170	$0.170	$0.170	$0.220	$0.170
Permitting Support	$0.980	$0.980	$0.980	$0.980	$1.270	$0.980
Switchyard	$18.190	$18.190	$18.190	$18.190	$51.040	$13.030
Transmission Line and Electrical Interconnection	$26.050	$26.050	$26.050	$26.050	$29.290	$23.030
Gas Interconnection and Reinforcement	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
System Deliverability Upgrade Costs	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Water Supply Infrastructure	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Emission Reduction Credits	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Public Outreach and Area Development	$0.280	$0.280	$0.280	$0.280	$0.360	$0.280
Startup/Testing (Fuel & Consumables)	$0.050	$0.050	$0.050	$0.050	$0.070	$0.050
Initial Fuel Inventory	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Site Security	$0.440	$0.440	$0.440	$0.440	$0.570	$0.440
Operating Spare Parts	$0.500	$0.500	$0.500	$0.500	$0.500	$0.500
Builders Risk Insurance (0.45% of Construction Costs)	$0.8	$0.8	$0.8	$0.8	$0.9	$0.8
Owner's Contingency (5% for Screening Purposes)	$10.9	$11.0	$10.9	$11.2	$14.7	$11.0
AFUDC, 2024 MM$	**$18**	**$18**	**$18**	**$19**	**$24**	**$18**
EPC Portion	$13.4	$13.5	$13.4	$13.9	$16.2	$14.2
Non-EPC Portion	$4.9	$4.9	$4.9	$4.9	$8.1	$4.2
Total Project Costs, 2024 MM$	**$247**	**$249**	**$247**	**$254**	**$333**	**$249**
EPC Cost Per kW, 2024 $/kW	**$839**	**$846**	**$840**	**$869**	**$1,031**	**$889**
Total Cost Per kW, 2024 $/kW	**$1,236**	**$1,244**	**$1,237**	**$1,271**	**$1,665**	**$1,247**
EPC Cost Per kWh, 2024 $/kWh AC at POI	**$372**	**$375**	**$372**	**$385**	**$456**	**$394**
Total Cost Per kWh, 2024 $/kWh AC at POI	**$548**	**$551**	**$548**	**$563**	**$738**	**$552**

200 MW / 2-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024$MM/Yr	$2.4	$2.4	$2.4	$2.4	$2.4	$2.4
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024$MM/Yr	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9
Site Leasing Allowance, 2024$/MM/Yr	$0.3	$0.3	$0.3	$0.3	$3.9	$0.3
Property Insurance Allowance, 2024$MM/Yr	$1.0	$1.0	$1.0	$1.0	$1.2	$1.1
Total Fixed O&M, $/kW-yr	$22.68	$22.73	$22.69	$22.87	$41.85	$23.03
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 $/MWh	$6.68	$6.68	$6.68	$6.68	$6.68	$6.68

Notes

[1] EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.

[2] EPC cost accounts for BESS sizing that accommodates system losses, equipment efficiencies, minimum state of charge, aux load, degradation during shipping/construction, and 4 years of overbuild.

[3] Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, stanby/idle aux loads, and an inverter replacement allowance.

[4] Augmentation typically occurs in milestone events, but the total lifetime augmentation estimates are levelized here, intended to account for maintaining rated energy capacity for 20-year life. Augmentation estimates are modeled in fixed and variable components to allow for cycle adjustments in DCR (both components together make up the augmentation estimate).

[5] Availability and outage rate assumptions are based on vendor correspondence and industry publications.

[6] Estimated Costs exclude decommisioning costs and salvage values.

[7] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.

200 MW / 4-hr Lithium-Ion Battery Energy Storage System						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**ZONE G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Nominal Output, MW	200	200	200	200	200	200
Nominal Duration, hr	4	4	4	4	4	4
Assumed Useful Life (years)	20	20	20	20	20	20
Equivalent Availability Factor (%)	98%	98%	98%	98%	98%	98%
Assumed Land Use During Operation, Acres (Not Construction Land Use)	14	14	14	14	9	12
Annual System Cycles	365	365	365	365	365	365
Storage System Initial Overbuild (Years)	4	4	4	4	4	4
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%
Interconnection Voltage, kV	345	345	345	345	345	138
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
EPC Schedule (Years from NTP)	2.75	2.75	2.75	2.75	2.75	2.75
ESTIMATED PERFORMANCE						
BESS Performance						
Net Plant Output, kW	200,000	200,000	200,000	200,000	200,000	200,000
Discharge Duration, hr	4	4	4	4	4	4
Net Plant Energy Capacity, kWh	800,000	800,000	800,000	800,000	800,000	800,000
Energy Capacity Installed with Overbuild, kWh AC at POI	903,200	903,200	903,200	903,200	903,200	903,200

200 MW / 4-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$289**	**$291**	**$289**	**$298**	**$361**	**$304**
Owner's Cost Allowances, 2024 MM$	**$68.5**	**$68.6**	**$68.5**	**$69.0**	**$111.8**	**$60.7**
Owner's Project Development	$0.7	$0.7	$0.7	$0.7	$0.9	$0.7
Owner's Operational Personnel Prior to COD	$0.1	$0.1	$0.1	$0.1	$0.1	$0.1
Owner's Engineer	$0.6	$0.6	$0.6	$0.6	$0.8	$0.6
Owner's Project Management	$0.9	$0.9	$0.9	$0.9	$1.2	$0.9
Owner's Legal Costs	$0.7	$0.7	$0.7	$0.7	$0.9	$0.7
Owner's Start-up Engineering and Commissioning	$0.1	$0.1	$0.1	$0.1	$0.1	$0.1
Sales Tax	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Construction Power and Water	$0.2	$0.2	$0.2	$0.2	$0.2	$0.2
Permitting Support	$1.0	$1.0	$1.0	$1.0	$1.3	$1.0
Switchyard	$18.2	$18.2	$18.2	$18.2	$51.0	$13.0
Transmission Line and Electrical Interconnection	$26.1	$26.1	$26.1	$26.1	$29.3	$23.0
Gas Interconnection and Reinforcement	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
System Deliverability Upgrade Costs	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Water Supply Infrastructure	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Emission Reduction Credits	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Public Outreach and Area Development	$0.3	$0.3	$0.3	$0.3	$0.4	$0.3
Startup/Testing (Fuel & Consumables)	$0.1	$0.1	$0.1	$0.1	$0.1	$0.1
Initial Fuel Inventory	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Site Security	$0.4	$0.4	$0.4	$0.4	$0.6	$0.4
Operating Spare Parts	$1.0	$1.0	$1.0	$1.0	$1.0	$1.0
Builders Risk Insurance (0.45% of Construction Costs)	$1.3	$1.3	$1.3	$1.3	$1.6	$1.4
Owner's Contingency (5% for Screening Purposes)	$17.0	$17.1	$17.0	$17.5	$22.5	$17.4
AFUDC, 2024 MM$	**$29**	**$29**	**$29**	**$29**	**$37**	**$29**
EPC Portion	$23.2	$23.4	$23.2	$23.9	$28.6	$24.5
Non-EPC Portion	$5.5	$5.5	$5.5	$5.5	$8.9	$4.9
Total Project Costs, 2024 MM$	**$386**	**$388**	**$386**	**$396**	**$510**	**$394**
EPC Cost Per kW, 2024 $/kW	**$1,445**	**$1,454**	**$1,445**	**$1,488**	**$1,803**	**$1,521**
Total Cost Per kW, 2024 $/kW	**$1,931**	**$1,942**	**$1,932**	**$1,980**	**$2,549**	**$1,971**
EPC Cost Per kWh, 2024 $/kWh AC at POI	**$320**	**$322**	**$320**	**$329**	**$399**	**$337**
Total Cost Per kWh, 2024 $/kWh AC at POI	**$428**	**$430**	**$428**	**$438**	**$565**	**$436**

200 MW / 4-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024$MM/Yr	$3.9	$3.9	$3.9	$3.9	$3.9	$3.9
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024$MM/Yr	$1.6	$1.6	$1.6	$1.6	$1.6	$1.6
Site Leasing Allowance, 2024$/MM/Yr	$0.4	$0.4	$0.4	$0.4	$5.8	$0.4
Property Insurance Allowance, 2024$MM/Yr	$1.7	$1.7	$1.7	$1.8	$2.2	$1.8
Total Fixed O&M, $/kW-yr	$37.62	$37.68	$37.62	$37.88	$66.95	$38.08
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 $/MWh	$6.80	$6.80	$6.80	$6.80	$6.80	$6.80

Notes

[1] EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.
[2] EPC cost accounts for BESS sizing that accommodates system losses, equipment efficiencies, minimum state of charge, aux load, degradation during shipping/construction, and 4 years of overbuild.
[3] Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, stanby/idle aux loads, and an inverter replacement allowance.
[4] Augmentation typically occurs in milestone events, but the total lifetime augmentation estimates are levelized here, intended to account for maintaining rated energy capacity for 20-year life. Augmentation estimates are modeled in fixed and variable components to allow for cycle adjustments in DCR (both components together make up the augmentation estimate).
[5] Availability and outage rate assumptions are based on vendor correspondence and industry publications.
[6] Estimated Costs exclude decommisioning costs and salvage values.
[7] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.

200 MW / 6-hr Lithium-Ion Battery Energy Storage System						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**ZONE G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Nominal Output, MW	200	200	200	200	200	200
Nominal Duration, hr	6	6	6	6	6	6
Assumed Useful Life (years)	20	20	20	20	20	20
Equivalent Availability Factor (%)	98%	98%	98%	98%	98%	98%
Assumed Land Use During Operation, Acres (Not Construction Land Use)	18	18	18	18	12	16
Annual System Cycles	365	365	365	365	365	365
Storage System Initial Overbuild (Years)	4	4	4	4	4	4
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%
Interconnection Voltage, kV	345	345	345	345	345	138
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
EPC Schedule (Years from NTP)	3.00	3.00	3.00	3.00	3.00	3.00
ESTIMATED PERFORMANCE						
BESS Performance						
Net Plant Output, kW	200,000	200,000	200,000	200,000	200,000	200,000
Discharge Duration, hr	6	6	6	6	6	6
Net Plant Energy Capacity, kWh	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Energy Capacity Installed with Overbuild, kWh AC at POI	1,354,800	1,354,800	1,354,800	1,354,800	1,354,800	1,354,800

200 MW / 6-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$418**	**$421**	**$418**	**$430**	**$512**	**$440**
Owner's Cost Allowances, 2024 MM$	**$76.5**	**$76.6**	**$76.5**	**$77.2**	**$121.2**	**$69.1**
Owner's Project Development	$0.710	$0.710	$0.710	$0.710	$0.920	$0.710
Owner's Operational Personnel Prior to COD	$0.080	$0.080	$0.080	$0.080	$0.080	$0.080
Owner's Engineer	$0.640	$0.640	$0.640	$0.640	$0.830	$0.640
Owner's Project Management	$0.940	$0.940	$0.940	$0.940	$1.220	$0.940
Owner's Legal Costs	$0.650	$0.650	$0.650	$0.650	$0.850	$0.650
Owner's Start-up Engineering and Commissioning	$0.080	$0.080	$0.080	$0.080	$0.100	$0.080
Sales Tax	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Construction Power and Water	$0.180	$0.180	$0.180	$0.180	$0.230	$0.180
Permitting Support	$1.060	$1.060	$1.060	$1.060	$1.380	$1.060
Switchyard	$18.190	$18.190	$18.190	$18.190	$51.040	$13.030
Transmission Line and Electrical Interconnection	$26.050	$26.050	$26.050	$26.050	$29.290	$23.030
Gas Interconnection and Reinforcement	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
System Deliverability Upgrade Costs	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Water Supply Infrastructure	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Emission Reduction Credits	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Public Outreach and Area Development	$0.280	$0.280	$0.280	$0.280	$0.360	$0.280
Startup/Testing (Fuel & Consumables)	$0.150	$0.150	$0.150	$0.150	$0.200	$0.150
Initial Fuel Inventory	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Site Security	$0.550	$0.550	$0.550	$0.550	$0.720	$0.550
Operating Spare Parts	$1.500	$1.500	$1.500	$1.500	$1.500	$1.500
Builders Risk Insurance (0.45% of Construction Costs)	$1.9	$1.9	$1.9	$1.9	$2.3	$2.0
Owner's Contingency (5% for Screening Purposes)	$23.6	$23.7	$23.6	$24.2	$30.2	$24.3
AFUDC, 2024 MM$	**$47**	**$47**	**$47**	**$48**	**$59**	**$48**
EPC Portion	$39.6	$39.8	$39.6	$40.7	$47.7	$41.7
Non-EPC Portion	$7.2	$7.3	$7.2	$7.3	$11.3	$6.5
Total Project Costs, 2024 MM$	**$541**	**$544**	**$542**	**$555**	**$692**	**$558**
EPC Cost Per kW, 2024 $/kW	**$2,090**	**$2,104**	**$2,091**	**$2,150**	**$2,560**	**$2,202**
Total Cost Per kW, 2024 $/kW	**$2,707**	**$2,722**	**$2,708**	**$2,776**	**$3,461**	**$2,788**
EPC Cost Per kWh, 2024 $/kWh AC at POI	**$309**	**$311**	**$309**	**$317**	**$378**	**$325**
Total Cost Per kWh, 2024 $/kWh AC at POI	**$400**	**$402**	**$400**	**$410**	**$511**	**$412**

200 MW / 6-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024$MM/Yr	$5.4	$5.4	$5.4	$5.4	$5.4	$5.4
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024$MM/Yr	$2.3	$2.3	$2.3	$2.3	$2.3	$2.3
Site Leasing Allowance, 2024$/MM/Yr	$0.5	$0.5	$0.5	$0.5	$7.7	$0.5
Property Insurance Allowance, 2024$MM/Yr	$2.5	$2.5	$2.5	$2.6	$3.1	$2.6
Total Fixed O&M, $/kW-yr	$53.34	$53.42	$53.35	$53.70	$92.50	$54.11
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 $/MWh	$6.56	$6.56	$6.56	$6.56	$6.56	$6.56

Notes

[1] EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.
[2] EPC cost accounts for BESS sizing that accommodates system losses, equipment efficiencies, minimum state of charge, aux load, degradation during shipping/construction, and 4 years of overbuild.
[3] Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, stanby/idle aux loads, and an inverter replacement allowance.
[4] Augmentation typically occurs in milestone events, but the total lifetime augmentation estimates are levelized here, intended to account for maintaining rated energy capacity for 20-year life. Augmentation estimates are modeled in fixed and variable components to allow for cycle adjustments in DCR (both components together make up the augmentation estimate).
[5] Availability and outage rate assumptions are based on vendor correspondence and industry publications.
[6] Estimated Costs exclude decommisioning costs and salvage values.
[7] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.

200 MW / 8-hr Lithium-Ion Battery Energy Storage System						
	ZONE C	**ZONE F**	**ZONE G - Dutchess**	**ZONE G - Rockland**	**ZONE J**	**ZONE K**
BASE PLANT DESCRIPTION						
Nominal Output, MW	200	200	200	200	200	200
Nominal Duration, hr	8	8	8	8	8	8
Assumed Useful Life (years)	20	20	20	20	20	20
Equivalent Availability Factor (%)	98%	98%	98%	98%	98%	98%
Assumed Land Use During Operation, Acres (Not Construction Land Use)	22	22	22	22	15	20
Annual System Cycles	365	365	365	365	365	365
Storage System Initial Overbuild (Years)	4	4	4	4	4	4
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%
Interconnection Voltage, kV	345	345	345	345	345	138
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
EPC Schedule (Years from NTP)	3.25	3.25	3.25	3.25	3.25	3.25
ESTIMATED PERFORMANCE						
BESS Performance						
Net Plant Output, kW	200,000	200,000	200,000	200,000	200,000	200,000
Discharge Duration, hr	8	8	8	8	8	8
Net Plant Energy Capacity, kWh	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
Energy Capacity Installed with Overbuild, kWh AC at POI	1,806,400	1,806,400	1,806,400	1,806,400	1,806,400	1,806,400

200 MW / 8-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM$ (w/o Owner's Costs)	**$540**	**$543**	**$540**	**$555**	**$664**	**$569**
Owner's Cost Allowances, 2024 MM$	**$84.1**	**$84.3**	**$84.2**	**$85.0**	**$130.6**	**$77.1**
Owner's Project Development	$0.730	$0.730	$0.730	$0.730	$0.950	$0.730
Owner's Operational Personnel Prior to COD	$0.080	$0.080	$0.080	$0.080	$0.080	$0.080
Owner's Engineer	$0.720	$0.720	$0.720	$0.720	$0.940	$0.720
Owner's Project Management	$1.000	$1.000	$1.000	$1.000	$1.300	$1.000
Owner's Legal Costs	$0.650	$0.650	$0.650	$0.650	$0.850	$0.650
Owner's Start-up Engineering and Commissioning	$0.110	$0.110	$0.110	$0.110	$0.140	$0.110
Sales Tax	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Construction Power and Water	$0.200	$0.200	$0.200	$0.200	$0.260	$0.200
Permitting Support	$1.140	$1.140	$1.140	$1.140	$1.480	$1.140
Switchyard	$18.190	$18.190	$18.190	$18.190	$51.040	$13.030
Transmission Line and Electrical Interconnection	$26.050	$26.050	$26.050	$26.050	$29.290	$23.030
Gas Interconnection and Reinforcement	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
System Deliverability Upgrade Costs	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Water Supply Infrastructure	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Emission Reduction Credits	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Public Outreach and Area Development	$0.280	$0.280	$0.280	$0.280	$0.360	$0.280
Startup/Testing (Fuel & Consumables)	$0.200	$0.200	$0.200	$0.200	$0.260	$0.200
Initial Fuel Inventory	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Site Security	$0.660	$0.660	$0.660	$0.660	$0.860	$0.660
Operating Spare Parts	$2.000	$2.000	$2.000	$2.000	$2.000	$2.000
Builders Risk Insurance (0.45% of Construction Costs)	$2.4	$2.4	$2.4	$2.5	$3.0	$2.6
Owner's Contingency (5% for Screening Purposes)	$29.7	$29.9	$29.7	$30.5	$37.8	$30.8
AFUDC, 2024 MM$	**$73**	**$74**	**$73**	**$75**	**$92**	**$76**
EPC Portion	$63.4	$63.9	$63.5	$65.3	$76.9	$66.9
Non-EPC Portion	$9.9	$9.9	$9.9	$10.0	$15.1	$9.1
Total Project Costs, 2024 MM$	**$697**	**$701**	**$697**	**$715**	**$887**	**$722**
EPC Cost Per kW, 2024 $/kW	**$2,698**	**$2,715**	**$2,699**	**$2,774**	**$3,319**	**$2,843**
Total Cost Per kW, 2024 $/kW	**$3,485**	**$3,505**	**$3,486**	**$3,575**	**$4,433**	**$3,609**
EPC Cost Per kWh, 2024 $/kWh AC at POI	**$299**	**$301**	**$299**	**$307**	**$368**	**$315**
Total Cost Per kWh, 2024 $/kWh AC at POI	**$386**	**$388**	**$386**	**$396**	**$491**	**$400**

200 MW / 8-hr Lithium-Ion Battery Energy Storage System

	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024$MM/Yr	$6.9	$6.9	$6.9	$6.9	$6.9	$6.9
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024$MM/Yr	$2.9	$2.9	$2.9	$2.9	$2.9	$2.9
Site Leasing Allowance, 2024$/MM/Yr	$0.6	$0.6	$0.6	$0.6	$9.7	$0.6
Property Insurance Allowance, 2024$MM/Yr	$3.2	$3.3	$3.2	$3.3	$4.0	$3.4
Total Fixed O&M, $/kW-yr	$68.04	$68.14	$68.04	$68.50	$117.27	$69.11
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 $/MWh	$6.73	$6.73	$6.73	$6.73	$6.73	$6.73

Notes

[1] EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.

[2] EPC cost accounts for BESS sizing that accommodates system losses, equipment efficiencies, minimum state of charge, aux load, degradation during shipping/construction, and 4 years of overbuild.

[3] Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, stanby/idle aux loads, and an inverter replacement allowance.

[4] Augmentation typically occurs in milestone events, but the total lifetime augmentation estimates are levelized here, intended to account for maintaining rated energy capacity for 20-year life. Augmentation estimates are modeled in fixed and variable components to allow for cycle adjustments in DCR (both components together make up the augmentation estimate).

[5] Availability and outage rate assumptions are based on vendor correspondence and industry publications.

[6] Estimated Costs exclude decommisioning costs and salvage values.

[7] Preliminary estimates include a preliminary assumption of no required SDU costs. Preliminary assumption may be subject to change based on the results of the NYISO's deliverability assesssment for the 2025-2029 DCR.