

GE 7HA.03 with SCR and Dual Fuel						
PROJECT TYPE	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 FNTF)	3	3	3	3	3	3
ESTIMATED PERFORMANCE (BASED ON NATURAL GAS OPERATION)						
ISO Base Load Performance						
Net Plant Output, kW	411,400	423,600	420,400	420,400	427,600	423,600
Net Plant Heat Rate, Btu/kWh (HHV)	8,930	8,920	8,920	8,920	8,920	8,920
Heat Input, MMBtu/hr	3,670	3,780	3,750	3,750	3,810	3,780
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	396,900	405,700	403,200	403,200	409,100	408,500
Net Plant Heat Rate, Btu/kWh (HHV)	9,020	9,050	9,020	9,020	9,030	9,030
Heat Input, MMBtu/hr	3,580	3,670	3,640	3,640	3,690	3,690
Winter Base Load Performance						
Net Plant Output, kW	417,500	429,100	426,900	426,900	434,700	438,100
Net Plant Heat Rate, Btu/kWh (HHV)	8,850	8,870	8,850	8,850	8,830	8,830
Heat Input, MMBtu/hr	3,690	3,810	3,780	3,780	3,840	3,870
Winter DMNC Base Load Performance						
Net Plant Output, kW	419,500	433,800	432,500	432,500	439,100	433,400
Net Plant Heat Rate, Btu/kWh (HHV)	8,820	8,860	8,830	8,830	8,830	8,820
Heat Input, MMBtu/hr	3,700	3,840	3,820	3,820	3,880	3,820
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						
PROJECT TYPE	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\$	\$149	\$150	\$143	\$148	\$191	\$622
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	\$28.3	\$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	\$457.5
Water Supply Infrastructure	\$9.6	\$9.6	\$3.2	\$3.2	\$6.8	\$1.6
Emission Reduction Credits	\$0.9	\$0.9	\$0.9	\$3.4	\$3.5	\$3.5
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
Land Lease During Construction	\$0.8	\$0.8	\$0.8	\$0.8	\$17.2	\$0.9
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)	\$28.5	\$29.0	\$28.8	\$30.6	\$35.3	\$55.2
AFUDC, 2024 MM\$						
EPC Portion	\$41.6	\$42.5	\$42.7	\$45.8	\$50.2	\$49.8
Non-EPC Portion	\$13.8	\$13.9	\$13.3	\$13.7	\$17.5	\$57.6
Total Project Costs, 2024 MM\$	\$654	\$665	\$661	\$702	\$810	\$1,266
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)	\$1,682	\$1,661	\$1,664	\$1,766	\$2,004	\$3,135

GE 7HA.03 with SCR and Dual Fuel						
PROJECT TYPE	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	\$8.6	\$0.5
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A	N/A	\$0.2	N/A
Total Fixed O&M, \$/kW-yr	\$14.9	\$14.9	\$15.6	\$17.0	\$38.7	\$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	\$1.50
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						
PROJECT TYPE	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.

GE 7HA.02 without SCR and with Dual Fuel						
PROJECT TYPE	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
Representative Class Gas Turbine	GE 7HA.02	GE 7HA.02	GE 7HA.02			GE HA.02
Assumed Land Use, Acres	15	15	15			25
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)
Heat Rejection	Fin Fan Heat Exchanger	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			Dry Low NOx on Gas / Water Injection on Fuel Oil
CO Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			SCR Included
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			CO Catalyst
Technology Rating	Mature	Mature	Mature			Good Combustion Practice
Permitting & Construction Schedule (Years from FNTF)	3	3	3			Mature
						3
ESTIMATED PERFORMANCE (BASED ON NATURAL GAS OPERATION)						
ISO Base Load Performance						
Net Plant Output, kW	342,000	352,400	349,700			375,900
Net Plant Heat Rate, Btu/kWh (HHV)	9,070	9,060	9,070			9,060
Heat Input, MMBtu/hr	3,110	3,190	3,170			3,410
Summer Base Load Performance						
Net Plant Output, kW	331,000	340,700	337,400			356,500
Net Plant Heat Rate, Btu/kWh (HHV)	9,120	9,120	9,120			9,220
Heat Input, MMBtu/hr	3,020	3,110	3,080			3,290
Summer DMNC Base Load Performance						
Net Plant Output, kW	327,600	336,600	338,300			356,500
Net Plant Heat Rate, Btu/kWh (HHV)	9,650	9,140	8,110			9,140
Heat Input, MMBtu/hr	3,160	3,080	2,750			3,260
Winter Base Load Performance						
Net Plant Output, kW	357,000	365,000	361,000			388,500
Net Plant Heat Rate, Btu/kWh (HHV)	8,990	8,970	8,960			9,050
Heat Input, MMBtu/hr	3,210	3,280	3,240			3,520
Winter DMNC Base Load Performance						
Net Plant Output, kW	352,800	383,800	366,400			388,700
Net Plant Heat Rate, Btu/kWh (HHV)	9,470	8,960	7,960			8,990
Heat Input, MMBtu/hr	3,340	3,440	2,920			3,500
ICAP Base Load Performance						
Net Plant Output, kW	321,000	330,700	328,100			353,000
Net Plant Heat Rate, Btu/kWh (HHV)	9,180	9,170	9,170			9,240
Heat Input, MMBtu/hr	2,940	3,030	3,010			3,260

GE 7HA.02 without SCR and with Dual Fuel						
PROJECT TYPE	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			\$422
Dual Fuel Breakout Costs, 2024 MM\$ (w/o Owner's Costs)	\$26.9	\$26.9	\$26.9			\$26.9
Owner's Costs, 2024 MM\$	\$145	\$145	\$139			\$136
Owner's Project Development	\$1.2	\$1.2	\$1.2			\$1.2
Owner's Operational Personnel Prior to COD	\$0.3	\$0.3	\$0.3			\$0.3
Owner's Engineer	\$1.6	\$1.6	\$1.6			\$1.6
Owner's Project Management	\$1.6	\$1.6	\$1.6			\$1.6
Owner's Legal Costs	\$0.7	\$0.7	\$0.7			\$0.7
Owner's Start-up Engineering and Commissioning	\$0.1	\$0.1	\$0.1			\$0.1
Land	\$0.0	\$0.0	\$0.0			\$0.0
Construction Power and Water	\$0.5	\$0.5	\$0.5			\$0.5
Permitting Support	\$0.7	\$0.7	\$0.7			\$0.7
Switchyard	\$18.19	\$18.2	\$18.2			\$13.0
Transmission Line and Electrical Interconnection	\$26.05	\$26.0	\$26.0			\$23.0
Gas Interconnection and Reinforcement	\$35.4	\$35.4	\$35.4			\$36.6
System Deliverability Upgrade Costs	\$0.0	\$0.0	\$0.0			\$0.0
Water Supply Infrastructure	\$9.6	\$9.6	\$3.2			\$1.6
Emission Reduction Credits	\$0.5	\$0.6	\$0.6			\$3.1
Public Outreach and Area Development	\$0.6	\$0.6	\$0.6			\$0.6
Startup/Testing (Fuel & Consumables)	\$3.2	\$3.2	\$3.2			\$3.2
Initial Fuel Inventory	\$6.9	\$6.9	\$6.9			\$6.9
Site Security	\$0.7	\$0.7	\$0.7			\$0.7
Operating Spare Parts	\$10.0	\$10.0	\$10.0			\$10.0
Land Lease During Construction	\$0.8	\$0.8	\$0.8			\$0.9
Builders Risk Insurance (0.45% of Construction Costs)	\$1.7	\$1.7	\$1.7			\$2.0
Owner's Contingency (5% for Screening Purposes)	\$24.7	\$25.1	\$24.9			\$27.9
AFUDC, 2024 MM\$						
EPC Portion	\$34.6	\$35.4	\$35.5			\$41.6
Non-EPC Portion	\$13.4	\$13.5	\$12.8			\$12.6
Total Project Costs, 2024 MM\$	\$567	\$576	\$571			\$639
EPC Cost Per kW, 2024 \$/kW (Note 1)	\$1,164	\$1,155	\$1,169			\$1,272
Total Cost Per kW, 2024 \$/kW (Note 1)	\$1,765	\$1,742	\$1,739			\$1,811

GE 7HA.02 without SCR and with Dual Fuel						
PROJECT TYPE	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			240
FIXED O&M COSTS (Note 2)						
Fixed O&M Cost - LABOR, 2024\$MM/Yr	\$1.10	\$1.20	\$1.20			\$1.93
Fixed O&M Cost - OTHER, 2024\$MM/Yr	\$1.60	\$1.60	\$1.60			\$1.61
Property Insurance Allowance	\$2.24	\$2.29	\$2.30			\$2.69
Site Leasing Allowance, 2024\$/MM/Yr	\$0.38	\$0.38	\$0.38			\$0.5
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A			N/A
Total Fixed O&M, \$/kW-yr	\$16.6	\$16.6	\$16.7			\$18.7
LEVELIZED CAPITAL MAINTENANCE COSTS						
Major Maintenance Cost, 2024\$/GT-hr or \$/engine-hr (Note 3)	\$620	\$620	\$620			\$620
Major Maintenance Cost, 2024\$/GT-start	\$23,000	\$23,000	\$23,000			\$23,000
Major Maintenance Cost, 2024\$/MWh	\$1.72	\$1.70	\$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			\$1.50
Water Related O&M, \$/MWh	\$0.00	\$0.00	\$0.00			\$0.00
SCR Related Costs, \$/MWh	NA	NA	NA			\$0.60
Other Consumables and Variable O&M, \$/MWh	\$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			
Water Related O&M, \$/MWh	\$6.98	\$6.77	\$6.82			6.72
SCR Related Costs, \$/MWh	\$0.87	\$0.88	\$0.87			0.88
Other Consumables and Variable O&M, \$/MWh	\$0.90	\$0.90	\$0.90			0.90

GE 7HA.02 without SCR and with Dual Fuel						
PROJECT TYPE	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			341
SO2	1	1	1			1
CO	48	50	50			50
CO2	400,920	413,280	409,680			422,160
GT emissions with SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	NA	NA	NA			27
SO2	NA	NA	NA			1
CO	NA	NA	NA			11
CO2	NA	NA	NA			422,160
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			578
SO2	3	3	3			3
CO	74	77	76			77
CO2	616,470	635,909	630,818			640,557
GT Operating, with SCR / CO Catalyst (lb/hr, HHV) (Note 6)						
NOX	NA	NA	NA			83
SO2	NA	NA	NA			3
CO	NA	NA	NA			17
CO2	NA	NA	NA			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.

200 MW / 2-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	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 / Amortization Period (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						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM\$ (w/o Owner's Costs)	\$153.2	\$154.5	\$153.3	\$159.2	\$189.3	\$163.2
Owner's Cost Allowances, 2024 MM\$	\$70.9	\$71.0	\$71.4	\$71.7	\$120.3	\$63.0
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	\$0.7	\$0.6
Owner's Project Management	\$0.8	\$0.8	\$0.8	\$0.8	\$1.1	\$0.8
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	\$8.5	\$8.5	\$8.9	\$8.9	\$9.8	\$9.0
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	\$18.9	\$18.9	\$18.9	\$18.9	\$54.0	\$13.5
Transmission Line and Electrical Interconnection	\$26.6	\$26.6	\$26.6	\$26.6	\$28.9	\$23.4
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	\$0.5	\$0.5	\$0.5	\$0.5	\$0.5	\$0.5
Land Lease During Construction	\$0.3	\$0.3	\$0.3	\$0.3	\$5.4	\$0.3
Builders Risk Insurance (0.45% of Construction Costs)	\$0.7	\$0.7	\$0.7	\$0.7	\$0.9	\$0.7
Owner's Contingency (5% for Screening Purposes)	\$10.7	\$10.7	\$10.7	\$11.0	\$14.7	\$10.8
AFUDC, 2024 MM\$	\$17.7	\$17.8	\$17.7	\$18.2	\$24.1	\$17.9
EPC Portion	\$12.1	\$12.2	\$12.1	\$12.6	\$14.8	\$12.9
Non-EPC Portion	\$5.6	\$5.6	\$5.6	\$5.7	\$9.4	\$5.0
Total Project Costs, 2024 MM\$	\$241.8	\$243.4	\$242.4	\$249.1	\$333.7	\$244.1
EPC Cost Per kW, 2024 \$/kW	\$770	\$770	\$770	\$800	\$950	\$820
Total Cost Per kW, 2024 \$/kW	\$1,210	\$1,220	\$1,210	\$1,250	\$1,670	\$1,220
EPC Cost Per kWh, 2024 \$/kWh AC at POI	\$340	\$340	\$340	\$350	\$420	\$360
Total Cost Per kWh, 2024 \$/kWh AC at POI	\$540	\$540	\$540	\$550	\$740	\$540
Investment Tax Credit Allowances						
Eligible Basis Allowance as Percent of Total Project Cost, 2024 MM\$	90%	90%	90%	90%	75%	90%
Eligible Cost Basis, 2024 MM\$	\$218	\$219	\$218	\$224	\$250	\$220
ITC Percentage Assumption, %	30%	30%	30%	30%	30%	30%
ITC Value, 2024 MM\$	\$65	\$66	\$65	\$67	\$75	\$66
ITC Legal Fees (Seller pays both sides), 2024 MM\$	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8
Recapture Insurance Coverage Additional Coverage Assumption, %	15%	15%	15%	15%	15%	15%
Recapture Insurance Coverage Amount, 2024 MM\$	\$75.9	\$76.4	\$76.1	\$78.2	\$87.2	\$76.6
Recapture Insurance Premium Assumption, %	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%

200 MW / 2-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
Recapture Insurance Cost, 2024 MM\$	\$1.9	\$1.9	\$1.9	\$2.0	\$2.2	\$1.9
Assumed Value of Transferable Tax Credit (net of brokerage fees), %	92%	92%	92%	92%	92%	92%

200 MW / 2-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
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	\$2.6	\$2.9	\$2.8
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	\$4.3	\$0.3
Property Insurance Allowance, 2024\$MM/Yr	\$0.9	\$0.9	\$0.9	\$1.0	\$1.1	\$1.0
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A	N/A	\$0.2	N/A
Total Fixed O&M, \$/kW-yr	\$21.95	\$22.19	\$22.35	\$23.23	\$47.08	\$24.45
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 \$/MWh	\$6.37	\$6.38	\$6.40	\$6.46	\$6.56	\$6.54
Notes						
Note 1: EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.						
Note 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.						
Note 3: Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, standby/idle aux loads, and an inverter replacement allowance.						
Note 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).						
Note 5: Availability and outage rate assumptions are based on vendor correspondence and industry publications.						
Note 6: Estimated Costs exclude decommissioning costs and salvage values.						

200 MW / 4-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	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 / Amortization Period (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	903,000	903,000	903,000	903,000	903,000	903,000

200 MW / 4-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM\$ (w/o Owner's Costs)	\$255	\$257	\$255	\$263	\$317	\$270
Owner's Cost Allowances, 2024 MM\$	\$83.8	\$83.9	\$84.5	\$85.0	\$140.0	\$76.7
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	\$14.6	\$14.6	\$15.3	\$15.3	\$17.0	\$15.6
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	\$18.9	\$18.9	\$18.9	\$18.9	\$54.0	\$13.5
Transmission Line and Electrical Interconnection	\$26.6	\$26.6	\$26.6	\$26.6	\$28.9	\$23.4
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
Land Lease During Construction	\$0.5	\$0.5	\$0.5	\$0.5	\$9.7	\$0.5
Builders Risk Insurance (0.45% of Construction Costs)	\$1.2	\$1.2	\$1.2	\$1.2	\$1.4	\$1.2
Owner's Contingency (5% for Screening Purposes)	\$16.1	\$16.2	\$16.2	\$16.6	\$21.7	\$16.5
AFUDC, 2024 MM\$	\$29	\$29	\$29	\$30	\$38	\$30
EPC Portion	\$21.7	\$21.9	\$21.7	\$22.5	\$26.6	\$23.0
Non-EPC Portion	\$7.1	\$7.2	\$7.2	\$7.3	\$11.8	\$6.5
Total Project Costs, 2024 MM\$	\$367	\$370	\$368	\$378	\$495	\$376
EPC Cost Per kW, 2024 \$/kW	\$1,270	\$1,280	\$1,270	\$1,320	\$1,580	\$1,350
Total Cost Per kW, 2024 \$/kW	\$1,840	\$1,850	\$1,840	\$1,890	\$2,470	\$1,880
EPC Cost Per kWh, 2024 \$/kWh AC at POI	\$280	\$280	\$280	\$290	\$350	\$300
Total Cost Per kWh, 2024 \$/kWh AC at POI	\$410	\$410	\$410	\$420	\$550	\$420
Investment Tax Credit Allowances						
Eligible Basis Allowance as Percent of Total Project Cost, 2024 MM\$	92%	92%	92%	92%	80%	92%
Eligible Cost Basis, 2024 MM\$	\$338	\$340	\$339	\$348	\$396	\$346
ITC Percentage Assumption, %	30%	30%	30%	30%	30%	30%
ITC Value, 2024 MM\$	\$101	\$102	\$102	\$104	\$119	\$104
ITC Legal Fees (Seller pays both sides), 2024 MM\$	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8
Recapture Insurance Coverage Additional Coverage Assumption, %	15%	15%	15%	15%	15%	15%
Recapture Insurance Coverage Amount, 2024 MM\$	\$117.5	\$118.2	\$117.8	\$120.9	\$137.5	\$120.3
Recapture Insurance Premium Assumption, %	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%

200 MW / 4-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
Recapture Insurance Cost, 2024 MM\$	\$2.9	\$3.0	\$2.9	\$3.0	\$3.4	\$3.0
Assumed Value of Transferable Tax Credit (net of brokerage fees), %	92%	92%	92%	92%	92%	92%

200 MW / 4-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024\$MM/Yr	\$3.8	\$3.9	\$3.9	\$4.1	\$4.7	\$4.4
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024\$MM/Yr	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4
Site Leasing Allowance, 2024\$/MM/Yr	\$0.4	\$0.4	\$0.4	\$0.4	\$6.5	\$0.4
Property Insurance Allowance, 2024\$MM/Yr	\$1.5	\$1.5	\$1.5	\$1.6	\$1.9	\$1.6
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A	N/A	\$0.2	N/A
Total Fixed O&M, \$/kW-yr	\$35.29	\$35.70	\$35.95	\$37.35	\$73.10	\$39.20
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 \$/MWh	\$6.05	\$6.07	\$6.08	\$6.14	\$6.23	\$6.21
Notes						
Note 1: EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.						
Note 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.						
Note 3: Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, standby/idle aux loads, and an inverter replacement allowance.						
Note 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).						
Note 5: Availability and outage rate assumptions are based on vendor correspondence and industry publications.						
Note 6: Estimated Costs exclude decommissioning costs and salvage values.						

200 MW / 6-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	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 / Amortization Period (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	1,354,500	1,354,500	1,354,500	1,354,500	1,354,500	1,354,500

200 MW / 6-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM\$ (w/o Owner's Costs)	\$366	\$369	\$367	\$378	\$445	\$389
Owner's Cost Allowances, 2024 MM\$	\$96.7	\$96.9	\$97.8	\$98.4	\$161.2	\$90.9
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	\$21.1	\$21.1	\$22.1	\$22.1	\$24.0	\$22.6
Construction Power and Water	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2
Permitting Support	\$1.1	\$1.1	\$1.1	\$1.1	\$1.4	\$1.1
Switchyard	\$18.2	\$18.2	\$18.2	\$18.2	\$54.0	\$13.0
Transmission Line and Electrical Interconnection	\$26.1	\$26.1	\$26.1	\$26.1	\$28.9	\$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)	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2
Initial Fuel Inventory	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Site Security	\$0.6	\$0.6	\$0.6	\$0.6	\$0.7	\$0.6
Operating Spare Parts	\$1.5	\$1.5	\$1.5	\$1.5	\$1.5	\$1.5
Land Lease During Construction	\$0.8	\$0.8	\$0.8	\$0.8	\$15.1	\$0.8
Builders Risk Insurance (0.45% of Construction Costs)	\$1.7	\$1.7	\$1.7	\$1.7	\$2.0	\$1.8
Owner's Contingency (5% for Screening Purposes)	\$22.1	\$22.3	\$22.2	\$22.8	\$28.8	\$22.9
AFUDC, 2024 MM\$	\$47	\$47	\$47	\$48	\$60	\$48
EPC Portion	\$36.9	\$37.1	\$36.9	\$38.1	\$44.1	\$39.1
Non-EPC Portion	\$9.7	\$9.7	\$9.8	\$9.9	\$16.0	\$9.1
Total Project Costs, 2024 MM\$	\$510	\$513	\$511	\$525	\$667	\$528
EPC Cost Per kW, 2024 \$/kW	\$1,830	\$1,850	\$1,830	\$1,890	\$2,230	\$1,940
Total Cost Per kW, 2024 \$/kW	\$2,550	\$2,560	\$2,560	\$2,620	\$3,330	\$2,640
EPC Cost Per kWh, 2024 \$/kWh AC at POI	\$270	\$270	\$270	\$280	\$330	\$290
Total Cost Per kWh, 2024 \$/kWh AC at POI	\$380	\$380	\$380	\$390	\$490	\$390
Investment Tax Credit Allowances						
Eligible Basis Allowance as Percent of Total Project Cost, 2024 MM\$	94%	94%	94%	94%	85%	94%
Eligible Cost Basis, 2024 MM\$	\$479	\$482	\$480	\$493	\$567	\$496
ITC Percentage Assumption, %	30%	30%	30%	30%	30%	30%
ITC Value, 2024 MM\$	\$144	\$145	\$144	\$148	\$170	\$149
ITC Legal Fees (Seller pays both sides), 2024 MM\$	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8
Recapture Insurance Coverage Additional Coverage Assumption, %	15%	15%	15%	15%	15%	15%
Recapture Insurance Coverage Amount, 2024 MM\$	\$166.2	\$167.2	\$166.6	\$171.1	\$196.3	\$172.0
Recapture Insurance Premium Assumption, %	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%

200 MW / 6-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
Recapture Insurance Cost, 2024 MM\$	\$4.2	\$4.2	\$4.2	\$4.3	\$4.9	\$4.3
Assumed Value of Transferable Tax Credit (net of brokerage fees), %	92%	92%	92%	92%	92%	92%

200 MW / 6-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024\$MM/Yr	\$5.2	\$5.3	\$5.4	\$5.7	\$6.5	\$6.1
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024\$MM/Yr	\$2.1	\$2.1	\$2.1	\$2.1	\$2.1	\$2.1
Site Leasing Allowance, 2024\$/MM/Yr	\$0.5	\$0.5	\$0.5	\$0.5	\$8.6	\$0.5
Property Insurance Allowance, 2024\$MM/Yr	\$2.2	\$2.2	\$2.2	\$2.3	\$2.7	\$2.3
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A	N/A	\$0.2	N/A
Total Fixed O&M, \$/kW-yr	\$49.84	\$50.32	\$50.70	\$52.70	\$100.11	\$55.36
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 \$/MWh	\$5.84	\$5.85	\$5.86	\$5.92	\$6.01	\$5.99
Notes						
Note 1: EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.						
Note 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.						
Note 3: Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, standby/idle aux loads, and an inverter replacement allowance.						
Note 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).						
Note 5: Availability and outage rate assumptions are based on vendor correspondence and industry publications.						
Note 6: Estimated Costs exclude decommissioning costs and salvage values.						

200 MW / 8-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	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 / Amortization Period (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	1,806,000	1,806,000	1,806,000	1,806,000	1,806,000	1,806,000

200 MW / 8-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED CAPITAL COSTS						
EPC Project Capital Costs, 2024 MM\$ (w/o Owner's Costs)	\$471	\$474	\$471	\$486	\$575	\$500
Owner's Cost Allowances, 2024 MM\$	\$110.1	\$110.3	\$111.5	\$112.3	\$183.6	\$105.2
Owner's Project Development	\$0.7	\$0.7	\$0.7	\$0.7	\$1.0	\$0.7
Owner's Operational Personnel Prior to COD	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1
Owner's Engineer	\$0.7	\$0.7	\$0.7	\$0.7	\$0.9	\$0.7
Owner's Project Management	\$1.0	\$1.0	\$1.0	\$1.0	\$1.3	\$1.0
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	\$27.2	\$27.2	\$28.4	\$28.4	\$31.1	\$29.1
Construction Power and Water	\$0.2	\$0.2	\$0.2	\$0.2	\$0.3	\$0.2
Permitting Support	\$1.1	\$1.1	\$1.1	\$1.1	\$1.5	\$1.1
Switchyard	\$18.2	\$18.2	\$18.2	\$18.2	\$54.0	\$13.0
Transmission Line and Electrical Interconnection	\$26.1	\$26.1	\$26.1	\$26.1	\$28.9	\$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)	\$0.2	\$0.2	\$0.2	\$0.2	\$0.3	\$0.2
Initial Fuel Inventory	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Site Security	\$0.7	\$0.7	\$0.7	\$0.7	\$0.9	\$0.7
Operating Spare Parts	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0
Land Lease During Construction	\$1.1	\$1.1	\$1.1	\$1.1	\$21.5	\$1.2
Builders Risk Insurance (0.45% of Construction Costs)	\$2.1	\$2.1	\$2.1	\$2.2	\$2.6	\$2.3
Owner's Contingency (5% for Screening Purposes)	\$27.7	\$27.9	\$27.8	\$28.6	\$36.0	\$28.9
AFUDC, 2024 MM\$	\$73	\$73	\$73	\$75	\$93	\$76
EPC Portion	\$58.8	\$59.3	\$58.9	\$60.7	\$70.7	\$62.5
Non-EPC Portion	\$13.8	\$13.8	\$13.9	\$14.0	\$22.6	\$13.2
Total Project Costs, 2024 MM\$	\$653	\$657	\$655	\$673	\$852	\$681
EPC Cost Per kW, 2024 \$/kW	\$2,350	\$2,370	\$2,350	\$2,430	\$2,870	\$2,500
Total Cost Per kW, 2024 \$/kW	\$3,270	\$3,290	\$3,280	\$3,370	\$4,260	\$3,400
EPC Cost Per kWh, 2024 \$/kWh AC at POI	\$260	\$260	\$260	\$270	\$320	\$280
Total Cost Per kWh, 2024 \$/kWh AC at POI	\$360	\$360	\$360	\$370	\$470	\$380
Investment Tax Credit Allowances						
Eligible Basis Allowance as Percent of Total Project Cost, 2024 MM\$	95%	95%	95%	95%	85%	95%
Eligible Cost Basis, 2024 MM\$	\$621	\$625	\$622	\$639	\$724	\$647
ITC Percentage Assumption, %	30%	30%	30%	30%	30%	30%
ITC Value, 2024 MM\$	\$186	\$187	\$187	\$192	\$217	\$194
ITC Legal Fees (Seller pays both sides), 2024 MM\$	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8	\$0.8
Recapture Insurance Coverage Additional Coverage Assumption, %	15%	15%	15%	15%	15%	15%
Recapture Insurance Coverage Amount, 2024 MM\$	\$215.0	\$216.3	\$215.6	\$221.5	\$250.6	\$223.9
Recapture Insurance Premium Assumption, %	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%

200 MW / 8-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
Recapture Insurance Cost, 2024 MM\$	\$5.4	\$5.4	\$5.4	\$5.5	\$6.3	\$5.6
Assumed Value of Transferable Tax Credit (net of brokerage fees), %	92%	92%	92%	92%	92%	92%

200 MW / 8-hr Lithium-Ion Battery Energy Storage System						
PROJECT TYPE	ZONE C	ZONE F	ZONE G - Dutchess	ZONE G - Rockland	ZONE J	ZONE K
BASE PLANT DESCRIPTION						
ESTIMATED O&M COSTS						
FIXED O&M COSTS						
Fixed O&M Cost - Assumes LTSA with Integrator/OEM, 2024\$MM/Yr	\$6.7	\$6.8	\$6.9	\$7.3	\$8.2	\$7.9
Capacity Maintenance Agreement (Fixed Portion Levelized), 2024\$MM/Yr	\$2.6	\$2.6	\$2.6	\$2.7	\$2.7	\$2.7
Site Leasing Allowance, 2024\$/MM/Yr	\$0.6	\$0.6	\$0.6	\$0.6	\$10.8	\$0.6
Property Insurance Allowance, 2024\$MM/Yr	\$2.8	\$2.8	\$2.8	\$2.9	\$3.4	\$3.0
Underground Transmission Revocable Consent, 2024\$MM/Yr	N/A	N/A	N/A	N/A	\$0.2	N/A
Total Fixed O&M, \$/kW-yr	\$63.52	\$64.17	\$64.58	\$67.13	\$126.50	\$70.69
VARIABLE O&M COSTS (Augmentation Model)						
Capacity Maintenance Agreement (Variable Portion Levelized), 2024 \$/MWh	\$5.95	\$5.96	\$5.98	\$6.03	\$6.12	\$6.11
Notes						
<p>Note 1: EPC electrical scope ends at the high side of the GSU. Includes engineering, procurement, construction (EPC) contracting methodology.</p> <p>Note 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.</p> <p>Note 3: Battery FOM accounts for routine BESS and PCS maintenance, BOP maintenance, remote monitoring, asset management, performance guarantees, extended warranties, standby/idle aux loads, and an inverter replacement allowance.</p> <p>Note 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).</p> <p>Note 5: Availability and outage rate assumptions are based on vendor correspondence and industry publications.</p> <p>Note 6: Estimated Costs exclude decommissioning costs and salvage values.</p>						