Exhibit 5. Incremental Costs for Dual-Fuel Capability and Firm Transportation

## Combined Cycle - 2x1 GE 7FA

Location No.	Base	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PPA	PJM	2	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	NYISO	NYISO	NYISO	NYISO	MISO	MISO	MISO
												Lower Hudson		Upper		
Location Name		3	Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Valley	Capital District	Penninsula	Twin Cities	Southern III
Area/Zone		4	CT	CT	SEMA	SEMA	ME	NH	VT	J	K	GHI	F	North	North	Centr
State	ОН	5	CT	CT	MA	MA	ME	NH	VT	NY	NY	NY	NY	MI	MN	IL
County		7	Middlesex	Fairfield	Barnstable	Bristol	Cumberland	Merrimack	Windham	Queens	Suffolk	Orange	Albany	Marquette	Ramsey	Jacksor
City/Town	Cleveland	6	Middletown	Norwalk	Sandwich	Somerset	Yarmouth	Bow	Vernon	NYC (Astoria)	Yaphank	Newburgh	Albany	Marquette	St. Paul	Carbonda
Elevation above sea level (feet)	1,070	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Summer temperature (for ICAP, F)	89.5	14	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Winter temperature (for ULSD burn and MDQ, F)	0.0	15	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Adjusted Performance Data																
Summer Installed Capacity (w/duct burners, MW)	651		620	620	620	620	620	620	620	620	620	620	620	620	620	
Winter Output on NG (w/o duct burners, MW)			668	668	668	668	668	668	668	668	668	668	668	668	668	
Winter Heat Rate on NG (w/o duct burners, Btu/kWh)			6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,
Winter Burn Rate on NG (MMBtu/h)			4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,
Winter Output on ULSD (w/o duct burners, MW)			652	652	652	652	652	652	652	652	652	652	652	652	652	,
Winter Heat Rate on ULSD (w/o duct burners, Btu/kWh)			6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,
Winter Burn Rate on ULSD (MMBtu/h)			4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,
Test output on ULSD (w/o duct burners, MW)	578		652	652	652	652	652	652	652	652	652	652	652	652	652	
Test heat rate on ULSD (w/o duct burners, Btu/kWh)	6,791		6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,
ULSD test burn rate (MMBtu/h)	3,925		4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,
Water injection rate on ULSD (gal/h)	42,000		42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,
NOx emission rate on natural gas (lb/MWh)	, , , , , , , , , , , , , , , , , , , ,		0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.
NOx emission rate on ULSD (lb/MWh)			0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.
Labor cost multiplier (v. Cleveland)	1.000	29	1.139	1.139	1.265	1.265	0.852	0.957	0.841	1.558	1.511	1.300	0.991	1.142	1.138	0.93
Land cost (2018 \$/acre)	\$38,100	30	\$50,000	\$50,000	\$50,000	\$50,000	\$25,000	\$50,000	\$25,000	\$850,000	\$75,000	\$75,000	\$50,000	\$15,000	\$50,000	\$25,
Sales tax rate	6.00%	37	6.35%	6.35%	6.25%	6.25%	5.50%	0.00%	6.00%		8.63%	. ,		6.00%		. ,
ULSD Storage Capacity (days of full load)	3	9	4.6	7.0	7.0	7.0	8.0	2.9	4.8	6.1	2.9	7.0	3.3	3.3	1.9	
Capacity in gallons	2,040,683		3,652,274	5,525,378	5,525,378	5,525,378	6,274,619	2,247,724	3,746,207	4,776,136	2,247,724	5,488,027	2,622,345	2,622,345	1,498,483	1,498,
Demin Water Storage Capacity (days at full load on ULSD)	2		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Capacity in gallons	2,016,000		2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,0
Average Days of inventory on ULSD	3	11	3.3	5.7	5.7	5.7	6.7	2.9	4.8	4.8	2.9	6.2	3.3	3.3	1.9	
Inventory in gallons	2,040,683		2,622,345	4,495,448	4,495,448	4,495,448	5,244,690	2,247,724	3,746,207	3,746,207	2,247,724	4,870,069	2,622,345	2,622,345	1,498,483	1,498,
ULSD Price (2018 \$/MMBtu)	\$18.00	17	\$21.885	\$21.728	\$21.885	\$21.885	\$22.002	\$22.576	\$23.245	\$21.416	\$22.119	\$21.807	\$22.178	\$23.245	\$22.569	\$22.
Test energy revenue (2018 \$/MWh)	\$38.70	16	\$40.840	\$40.840	\$40.690	\$40.690	\$40.530	\$40.690	\$40.690	\$46.440	\$55.500	\$45.400	\$43.940	\$42.940	\$42.080	\$40.
Effective Real Property Tax Rate	2.0%	38	2.00%	2.00%	2.00%	2.00%	1.80%	2.00%	2.20%	5.00%	4.00%	4.00%	4.00%	3.00%	3.50%	. 2
Effective Personal Property Tax Rate	1.3%	39	0.60%	0.60%	0.30%	0.30%	1.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0
Firm Transportation Rate (Level for 2018 \$/mo per Dth/d)		19	\$54.69	\$30.40	\$56.71	\$54.69	\$72.37	\$37.96	\$37.96	\$38.50	\$62.63	\$19.12	\$6.31	\$14.39	\$14.39	\$9
Avoided IT Rate (Level for 2018 \$/mo per Dth/d)		22	\$6.03	\$9.49	\$7.00	\$6.62	\$26.97	\$6.05	\$5.20	\$10.24	\$10.96	\$8.23	\$3.51	\$13.08	\$13.08	\$6
Weighted Cost of Capital		32	8.06%	8.05%	8.03%	8.03%	8.01%	8.02%	8.02%		8.02%			8.09%		
Inventory Carrying Charge (level current \$)		33	15.41%	15.47%	15.53%	15.53%	15.64%	15.59%	15.59%		15.56%					
Combined Cycle Plant Charge Rate (level current \$)		34	13.55%	13.57%	13.60%	13.60%	13.66%	13.63%	13.63%		13.62%			13.49%		
NOx Emission Reduction Credit Multiplier		41	1.15	1.15	1.26	1.26	1.15	1.15	1.15	1.15	1.15	1.15	1.15	0.00	0.00	(
Nominal ERC Price (2018\$ per ton/yr PTE)	1	42	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,

Combined Cycle - 2x1 GE 7FA

Combined Cycle - 2x1 GE 7FA															
Location No.	Base	1 1	2	3	4	5	6	7	8	9	10	11	12	13	14
Nominal Capital \$MM for 2018 CO															
Gas Turbine Scope	\$4.700	\$4.7	00 \$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700
Other major equipment	\$0.000	\$0.0	00 \$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Other construction labor	\$0.000	\$0.0	00 \$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Liquid Fuel, Demin water handling (Mat'l)	\$0.900	\$0.9	00 \$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900
Liquid Fuel, Demin water handling (Labor)	\$0.900	\$1.0	25 \$1.025	\$1.139	\$1.139	\$0.767	\$0.861	\$0.757	\$1.402	\$1.360	\$1.170	\$0.891	\$1.028	\$1.024	\$0.838
Liquid fuel storage tank (Mat'l)	\$0.827	\$1.3	25 \$1.904	\$1.904	\$1.904	\$2.135	\$0.891	\$1.354	\$1.672	\$0.891	\$1.892	\$1.007	\$1.007	\$0.659	\$0.659
Liquid fuel storage tank (Labor)	\$0.556	\$1.0	16 \$1.459	\$1.621	\$1.621	\$1.224	\$0.574	\$0.766	\$1.753	\$0.906	\$1.655	\$0.671	\$0.773	\$0.505	\$0.413
Demin water storage tank (Mat'l)	\$0.498	\$0.4	98 \$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498
Demin water storage tank (Labor)	\$0.335	\$0.3	82 \$0.382	\$0.424	\$0.424	\$0.286	\$0.321	\$0.282	\$0.523	\$0.507	\$0.436	\$0.332	\$0.383	\$0.382	\$0.312
Incremental Land for Tanks	\$0.038	\$0.0	50 \$0.050	\$0.050	\$0.050	\$0.025	\$0.050	\$0.025	\$0.850	\$0.075	\$0.075	\$0.050	\$0.015	\$0.050	\$0.025
Startup Testing ULSD	\$5.087	\$7.1	48 \$7.096	\$7.148	\$7.148	\$7.186	\$7.373	\$7.592	\$6.994	\$7.224	\$7.122	\$7.243	\$7.592	\$7.371	\$7.265
Startup Testing Energy Sales on ULSD	(\$1.611)	(\$1.9	17) (\$1.917	(\$1.910)	(\$1.910)	(\$1.903)	(\$1.910)	(\$1.910)	(\$2.180)	(\$2.605)	(\$2.131)	(\$2.063)	(\$2.016)	(\$1.975)	(\$1.902
Emission Reduction Credits	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$0.4			\$0.514	\$0.469	\$0.469	\$0.469	\$0.469	\$0.469	\$0.469	\$0.469	\$0.000	\$0.000	\$0.000
(Inventory carrying cost as O&M)	\$0.000	\$0.0			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Total Incremental Direct Cost	\$12.232	\$15.5			\$16.987	\$16.287	\$14.728	\$15.432	\$17.581	\$14.924	\$16.786	\$14.699	\$14.880	\$14.114	\$13.709
Sales tax on equipment and materials	\$0.416	\$0.4			\$0.500	\$0.453	\$0.000	\$0.447	\$0.690	\$0.603	\$0.649	\$0.568	\$0.426	\$0.515	\$0.574
EPC Fee	\$1.096	\$1.2			\$1.402	\$1.316	\$1.049	\$1.164	\$1.457	\$1.244	\$1.428	\$1.148	\$1.166	\$1.102	\$1.067
EPC Contingency	\$1.023	\$1.1			\$1.309	\$1.228	\$0.979	\$1.087	\$1.359	\$1.161	\$1.333	\$1.072	\$1.088	\$1.029	\$0.996
Development Cost	\$0.563	\$0.6			\$0.720	\$0.675	\$0.539	\$0.598	\$0.748	\$0.638	\$0.733	\$0.589	\$0.598	\$0.566	\$0.548
Mobilization & Startup	\$0.113	\$0.1			\$0.144	\$0.135	\$0.108	\$0.120	\$0.150	\$0.128	\$0.147	\$0.118	\$0.120	\$0.113	\$0.110
Non-fuel Inventories	\$0.056	\$0.0			\$0.072	\$0.068	\$0.054	\$0.060	\$0.075	\$0.064	\$0.073	\$0.059	\$0.060	\$0.057	\$0.055
Owner's Contingency	\$0.332	\$0.5			\$0.542	\$0.538	\$0.553	\$0.572	\$0.572	\$0.482	\$0.518	\$0.529	\$0.519	\$0.505	\$0.500
Financing Fees	\$0.380	\$0.4			\$0.520	\$0.497	\$0.432	\$0.468	\$0.543	\$0.462	\$0.520	\$0.451	\$0.453	\$0.432	\$0.421
Indirect (factored) Costs	\$3.977	\$4.7			\$5.209	\$4.909	\$3.714	\$4.515	\$5.593	\$4.781	\$5.401	\$4.534	\$4.430	\$4.319	\$4.272
Total Overnight Cost	\$16.209	\$20.2	1.		\$22.196	\$21.196	\$18.442	\$19.947	\$23.174	\$19.705	\$22.187	\$19.233	\$19.310	\$18.432	\$17.981
Total Installed Cost	\$17.765	\$22.2		•	\$24.327	\$23.231	\$20.212	\$21.862	\$25.399	\$21.597	\$24.317	\$21.079	\$21.164	\$20.202	\$19.707
Total instance cost	ψ17.70S	722.2	75 \$25.744	<b>Ψ</b> 24.327	ÇE4.527	723.231	920.212	721.00Z	Ç25.555	QZ1.557	<b>92</b> 4.317	Q21.075	721.10 <sup>-1</sup>	720.202	Ψ13.707
Installed Cost per kW of ICAP	\$27.29	\$35	91 \$38.33	\$39.27	\$39.27	\$37.50	\$32.63	\$35.29	\$41.00	\$34.86	\$39.25	\$34.03	\$34.16	\$32.61	\$31.81
Annual Fixed O&M Cost (2018 \$MM /yr)															
Materials & Contract Services	\$0.118	\$0.1	24 \$0.124	\$0.129	\$0.129	\$0.112	\$0.117	\$0.112	\$0.140	\$0.138	\$0.130	\$0.118	\$0.124	\$0.124	\$0.116
Administrative & General Expense	\$0.023	\$0.0											φ0. <b>1</b> 2.		
ULSD for Regular Testing		۷٠.١	24 \$0.024	\$0.025	\$0.025	\$0.022	\$0.023	\$0.022	\$0.028	\$0.027	\$0.026	\$0.023	\$0.024	\$0.024	\$0.023
Energy Offset for Testing	\$1.060	\$1.4			\$0.025 \$1.489	\$0.022 \$1.497	\$0.023 \$1.536	\$0.022 \$1.582	\$0.028 \$1.457	\$0.027 \$1.505	\$0.026 \$1.484	\$0.023 \$1.509		\$0.024 \$1.536	
Property Taxes	\$1.060 (\$0.336)		89 \$1.478	\$1.489	•				•				\$0.024		\$1.514
Troperty rakes	1 '	\$1.4	89 \$1.478 99) (\$0.399	\$1.489 (\$0.398)	\$1.489	\$1.497	\$1.536	\$1.582	\$1.457	\$1.505	\$1.484	\$1.509	\$0.024 \$1.582	\$1.536	\$1.514 (\$0.396
Insurance	(\$0.336)	\$1.4 (\$0.3	89 \$1.478 99) (\$0.399 80 \$0.210	\$ \$1.489 (\$0.398) \$ \$0.173	\$1.489 (\$0.398)	\$1.497 (\$0.396)	\$1.536 (\$0.398)	\$1.582 (\$0.398)	\$1.457 (\$0.454)	\$1.505 (\$0.543)	\$1.484 (\$0.444)	\$1.509 (\$0.430)	\$0.024 \$1.582 (\$0.420)	\$1.536 (\$0.412)	\$1.514 (\$0.396 \$0.077
	(\$0.336) \$0.259	\$1.4 (\$0.3 \$0.1	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142	\$1.489 (\$0.398) \$0.173 \$0.146	\$1.489 (\$0.398) \$0.173	\$1.497 (\$0.396) \$0.261	\$1.536 (\$0.398) \$0.064	\$1.582 (\$0.398) \$0.091	\$1.457 (\$0.454) \$0.383	\$1.505 (\$0.543) \$0.167	\$1.484 (\$0.444) \$0.264	\$1.509 (\$0.430) \$0.147	\$0.024 \$1.582 (\$0.420) \$0.258	\$1.536 (\$0.412) \$0.105	\$1.514 (\$0.396 \$0.077 \$0.118
Insurance	(\$0.336) \$0.259 \$0.107	\$1.4 (\$0.3 \$0.1 \$0.1	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116	\$1.489 (\$0.398) \$0.173 \$0.146	\$1.497 (\$0.396) \$0.261 \$0.139	\$1.536 (\$0.398) \$0.064 \$0.121	\$1.582 (\$0.398) \$0.091 \$0.131	\$1.457 (\$0.454) \$0.383 \$0.152	\$1.505 (\$0.543) \$0.167 \$0.130	\$1.484 (\$0.444) \$0.264 \$0.146	\$1.509 (\$0.430) \$0.147 \$0.126	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127	\$1.536 (\$0.412) \$0.105 \$0.121	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725
Insurance ULSD Inventory Carrying Cost as Fixed O&M	(\$0.336) \$0.259 \$0.107 \$0.203	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672	\$ \$1.489 (\$0.398) \$ \$0.173 \$ \$0.146 \$ \$2.116	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737	\$0.023 \$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr)	(\$0.336) \$0.259 \$0.107 \$0.203 \$1.435	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672	\$ \$1.489 (\$0.398) \$ \$0.173 \$ \$0.146 \$ \$2.116	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)	(\$0.336) \$0.259 \$0.107 \$0.203 \$1.435	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672	\$ \$1.489 (\$0.398) \$ \$0.173 \$ \$0.146 \$ \$2.116	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr) Variable O&M Cost (2018 \$/MWh)	(\$0.336) \$0.259 \$0.107 \$0.203 \$1.435	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93	\$ \\$1.489 (\\$0.398) \\$0.173 \\$\\$0.146 \\$\\$2.116 \\$\\$3.680 \\$\\$5.94	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$/MWh) On Natural Gas Fuel	(\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20	\$1.4 (\$0.5 \$0.1 \$0.1 \$1.2 \$2.7 \$4	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93	\$\\ \\$1.489 0\\ \\$0.173 2\\ \\$0.146 3\\ \\$2.116 2\\ \\$3.680 3\\ \\$5.94	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$/MWh) On Natural Gas Fuel Major Maintenance Materials	(\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20	\$1.4 (\$0.5 \$0.1 \$0.1 \$1.2 \$2.7 \$4	\$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38	\$ \$1.489 0) (\$0.398) 0 \$0.173 2 \$0.146 52.116 2 \$3.680 4 \$5.94 \$1.01 6 \$0.43	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51 \$1.01 \$0.31
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$/MWh) On Natural Gas Fuel Major Maintenance Materials Major Maintenance Labor	\$0.259 \$0.107 \$0.203 \$1.435 \$2.20 \$0.96 \$0.32	\$1.4 (\$0.5 \$0.1 \$0.1 \$1.2 \$2.7 \$4	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38 14 \$1.14	\$ \$1.489 0) (\$0.398) \$ \$0.173 2 \$0.146 3 \$2.116 2 \$3.680 5.594 4 \$1.01 5 \$0.43 5 \$1.14	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42 \$1.01 \$0.33	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82 \$1.01 \$0.38	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61 \$1.01 \$0.38	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51 \$1.01 \$0.31 \$1.14
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M cost (2018 \$/MWh) On Natural Gas Fuel Major Maintenance Materials Major Maintenance Labor Other (Catalyst, ammonia, water, etc.)	\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20 \$0.96 \$0.32 \$1.14	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2 \$2.7 \$4	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38 14 \$1.14	\$ \$1.489 0) (\$0.398) \$ \$0.173 2 \$0.146 3 \$2.116 2 \$3.680 5.594 4 \$1.01 5 \$0.43 5 \$1.14	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94 \$1.01 \$0.43 \$1.14	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13 \$1.01 \$0.32 \$1.14	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52 \$1.01 \$0.28 \$1.14	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75 \$1.01 \$0.52 \$1.14	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03 \$1.01 \$0.51 \$1.14	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29 \$1.01 \$0.44 \$1.14	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42 \$1.01 \$0.33 \$1.14	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82 \$1.01 \$0.38 \$1.14	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61 \$1.01 \$0.38 \$1.14	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51 \$1.01 \$0.31 \$1.14
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$kW-yr)  On Natural Gas Fuel Major Maintenance Materials Major Maintenance Labor Other (Catalyst, ammonia, water, etc.) Total - Natural Gas Fuel	\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20 \$0.96 \$0.32 \$1.14	\$1.4 (\$0.3 \$0.1 \$0.1 \$1.2 \$2.7 \$4	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38 14 \$1.145 53 \$2.53	\$ \$1.489 0) (\$0.398) 0 \$0.173 2 \$0.146 2 \$3.680 5.94 5.94 \$ \$1.01 3 \$0.43 4 \$1.14 5.257	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94 \$1.01 \$0.43 \$1.14	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13 \$1.01 \$0.32 \$1.14	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52 \$1.01 \$0.28 \$1.14	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75 \$1.01 \$0.52 \$1.14	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03 \$1.01 \$0.51 \$1.14	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29 \$1.01 \$0.44 \$1.14	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42 \$1.01 \$0.33 \$1.14	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82 \$1.01 \$0.38 \$1.14	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61 \$1.01 \$0.38 \$1.14	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51 \$1.01 \$0.31 \$1.14
Insurance ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$/MWh) On Natural Gas Fuel Major Maintenance Materials Major Maintenance Labor Other (Catalyst, ammonia, water, etc.) Total - Natural Gas Fuel On Liquid Fuel	\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20 \$0.96 \$0.32 \$1.14 \$2.42	\$1.4 (\$0.5 \$0.1 \$1.2 \$2.7 \$4 \$1 \$0 \$1 \$2 \$2 \$2 \$2 \$2 \$4	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 225 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38 14 \$1.14 53 \$2.53 51 \$1.51	\$\\ \\$1.489 0\\ \\$0.398\\ \\$0.173 \\ \\$0.146 \\ \\$2.116 \\ \\$2.3680 \\ \\$5.94 \\\ \\$0.43 \\ \\$1.14 \\ \\$2.57	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94 \$1.01 \$0.43 \$1.14 \$2.57	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68 \$1.01 \$0.29 \$1.14 \$2.44	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13 \$1.01 \$0.32 \$1.14 \$2.47	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52 \$1.01 \$0.28 \$1.14 \$2.43	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75 \$1.01 \$0.52 \$1.14 \$2.67	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03 \$1.01 \$0.51 \$1.14 \$2.66	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29 \$1.01 \$0.44 \$1.14 \$2.59	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42 \$1.01 \$0.33 \$1.14 \$2.48	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82 \$1.01 \$0.38 \$1.14 \$2.53	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61 \$1.01 \$0.38 \$1.14 \$2.53	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51 \$1.01 \$0.31 \$1.14 \$2.46
Insurance  ULSD Inventory Carrying Cost as Fixed O&M  Total Fixed O&M (2018 \$MM/yr)  Total Fixed O&M (2018 \$kW-yr)  Variable O&M Cost (2018 \$kW-yr)  On Natural Gas Fuel  Major Maintenance Materials  Major Maintenance Labor  Other (Catalyst, ammonia, water, etc.)  Total - Natural Gas Fuel  On Liquid Fuel  Major Maintenance Materials	\$0.336) \$0.259 \$0.107 \$0.203 \$1.435 \$2.20 \$0.96 \$0.32 \$1.14 \$2.42	\$1.4 (\$0.5 \$0.1 \$0.1 \$1.2 \$2.7 \$4 \$1 \$0 \$1 \$2 \$2 \$2 \$1	89 \$1.478 99) (\$0.399 80 \$0.210 33 \$0.142 25 \$2.093 76 \$3.672 48 \$5.93 01 \$1.01 38 \$0.38 14 \$1.14 53 \$2.53 51 \$1.51 57 \$0.57	\$ \$1.489 0) (\$0.398) 0 \$0.173 2 \$0.146 3 \$2.116 3 \$5.94 5 \$5.94 \$ \$1.01 3 \$0.43 4 \$1.14 5 \$2.57 \$ \$1.51 7 \$0.64	\$1.489 (\$0.398) \$0.173 \$0.146 \$2.116 \$3.680 \$5.94 \$1.01 \$0.43 \$1.14 \$2.57	\$1.497 (\$0.396) \$0.261 \$0.139 \$2.499 \$4.135 \$6.68 \$1.01 \$0.29 \$1.14 \$2.44	\$1.536 (\$0.398) \$0.064 \$0.121 \$1.095 \$2.559 \$4.13 \$1.01 \$0.32 \$1.14 \$2.47	\$1.582 (\$0.398) \$0.091 \$0.131 \$1.880 \$3.420 \$5.52 \$1.01 \$0.28 \$1.14 \$2.43	\$1.457 (\$0.454) \$0.383 \$0.152 \$1.859 \$3.565 \$5.75 \$1.01 \$0.52 \$1.14 \$2.67 \$1.51	\$1.505 (\$0.543) \$0.167 \$0.130 \$1.072 \$2.496 \$4.03 \$1.01 \$0.51 \$1.14 \$2.66 \$1.51	\$1.484 (\$0.444) \$0.264 \$0.146 \$2.289 \$3.895 \$6.29 \$1.01 \$0.44 \$1.14 \$2.59 \$1.51	\$1.509 (\$0.430) \$0.147 \$0.126 \$1.242 \$2.736 \$4.42 \$1.01 \$0.33 \$1.14 \$2.48	\$0.024 \$1.582 (\$0.420) \$0.258 \$0.127 \$1.291 \$2.986 \$4.82 \$1.01 \$0.38 \$1.14 \$2.53	\$1.536 (\$0.412) \$0.105 \$0.121 \$0.737 \$2.236 \$3.61 \$1.01 \$0.38 \$1.14 \$2.53	\$1.514 (\$0.396 \$0.077 \$0.118 \$0.725 \$2.176 \$3.51

Sums of amounts shown in columns may not match indicated totals due to rounding

Combined Cycle - 2x1 GE 7FA

Lacation No.	Dana	Т.	1	2	2			_	7		0	10	11	12	13	14
Location No.	Base	→ 1	1	Z	3	4	5	б	/	8	9	10	11	12		14
	PPA					ISONE					NY	/ISO			MISO	
												Lower Hudson		Upper		
	Site		Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Valley	Capital District	Penninsula	Twin Cities	Southern Illinoi
Fuel Assurance Cost Comparison																
(Levelized Current \$/kW-yr of ICAP for 2018 CO Date)																
Firm Transportation for Natural Gas																
FT Reservation Charge			\$111.67	\$62.08	\$115.79	\$111.67	\$147.77	\$77.51	\$77.51	\$78.62	\$127.89	\$39.04	\$12.88	\$29.37	\$29.37	\$19.74
Avoided IT Charge			(\$12.32)	(\$19.39)	(\$14.29)	(\$13.52)	(\$55.08)	(\$12.36)	(\$10.61)	(\$20.90)	(\$22.37)	(\$16.81)	(\$7.18)	(\$26.70)	(\$26.70)	(\$13.16
Net FT Cost			\$99.35	\$42.69	\$101.49	\$98.15	\$92.69	\$65.16	\$66.90	\$57.72	\$105.51	\$22.22	\$5.70	\$2.67	\$2.67	\$6.58
Dual-Fuel Capability																
Capital Charges for Incremental Plant			\$4.86	\$5.20	\$5.34	\$5.34	\$5.12	\$4.45	\$4.81	\$5.82	\$4.75	\$5.35	\$4.61	\$4.61	\$4.47	\$4.36
Carrying Charges on Fuel Inventory			\$1.98	\$3.38	\$3.42	\$3.42	\$4.03	\$1.77	\$3.03	\$3.00	\$1.73	\$3.70	\$2.01	\$2.08	\$1.19	\$1.17
Incremental Fixed O&M (Excl. Fuel Inventory)			\$2.95	\$3.01	\$2.98	\$2.98	\$3.11	\$2.79	\$2.93	\$3.25	\$2.71	\$3.06	\$2.84	\$3.23	\$2.85	\$2.76
Total			\$9.79	\$11.59	\$11.73	\$11.73	\$12.27	\$9.00	\$10.78	\$12.07	\$9.19	\$12.10	\$9.46	\$9.92	\$8.51	\$8.29

Combined Cycle - 2x1 GE 7FA

Combined Cycle - 2x1 GE 7FA													
Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
PPA	PJM	PJM	PJM	PJM	PJM	PJM	PJM	TVA	TVA	TVA	TVA	IESO	IESO
	Dominion												
Location Name	North	PEPCO	BGE	Delmarva	PECO	PSEG North	PSEG South	Maury East	Colbert	Johnsonville	Summer Shade	Central	East
Area/Zone	Dominion	PEPCO	BGE	Delmarva	PECO	PSEG N	PSEG S	Central	South	Central	Central	Central	East
State	VA	MD	MD	DE	PA	NJ	NJ	TN	AL	TN	KY	ON	ON
County	Arlington	DC	Baltimore	New Castle	Philadelphia	Essex	Mercer	Maury	Colbert	Humphreys	Metcalfe	na	na
,								,		New			Greater
City/Town	Arlington	Washington	Baltimore	Wilmington	Philadelphia	Newark	Trenton	na	na	Johnsonville	Summer Shade	Toronto	Napanee
Elevation above sea level (feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Summer temperature (for ICAP, F)	90	90	90	90	90	90	90	90	90	90	90	90	90
Winter temperature (for ULSD burn and MDQ, F)	20	20	20	20	20	20	20	20	20	20	20	20	20
Adjusted Performance Data													
Summer Installed Capacity (w/duct burners, MW)	620	620	620	620	620	620	620	620	620	620	620	620	620
Winter Output on NG (w/o duct burners, MW)	668	668	668	668	668	668	668	668	668	668	668	668	668
Winter Heat Rate on NG (w/o duct burners, Btu/kWh)	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575	6,575
Winter Burn Rate on NG (MMBtu/h)	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392
Winter Output on ULSD (w/o duct burners, MW)	652	652	652	652	652	652	652	652	652	652	652	652	652
Winter Heat Rate on ULSD (w/o duct burners, Btu/kWh)	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968	6,968
Winter Burn Rate on ULSD (MMBtu/h)	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540	4,540
Test output on ULSD (w/o duct burners, MW)	652	652	652	652	652	652	652	652	652	652	652	652	652
Test heat rate on ULSD (w/o duct burners, Btu/kWh)	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957
ULSD test burn rate (MMBtu/h)	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536	4,536
Water injection rate on ULSD (gal/h)	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000
NOx emission rate on natural gas (lb/MWh)	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
NOx emission rate on ULSD (lb/MWh)	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
Labor cost multiplier (v. Cleveland)	1.128	1.225	1.080	1.060	1.302	1.269	1.269	0.867	0.867	0.867	0.931	1.547	1.467
Land cost (2018 \$/acre)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$5,000	\$5,000	\$5,000	\$5,000	\$50,000	\$25,000
Sales tax rate	6.00%	5.75%	6.00%	0.00%	8.00%	7.00%	7.00%	5.50%	9.25%	9.75%		13.00%	13.00%
ULSD Storage Capacity (days of full load)	2.4	2.4	7.5	3.3	3.3	2.4	2.4	1.9	10.3	10.3	2.4	2.4	2.4
Capacity in gallons	1,873,104	1,873,104	5,899,998	2,622,345	2,622,345	1,873,104	1,873,104				1,873,104	1,873,104	1,873,104
Demin Water Storage Capacity (days at full load on ULSD)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Capacity in gallons	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000
Average Days of inventory on ULSD	2.4	2.4	6.2	3.3	3.3	2.4	2.4	1.9	9.5	9.5	2.4	2.4	2.4
Inventory in gallons	1,873,104	1,873,104	4,870,069	2,622,345					7,492,414			1,873,104	1,873,104
ULSD Price (2018 \$/MMBtu)	\$21.865	\$21.865	\$21.846	\$21.943	\$21.865	\$21.943	\$22.178	\$22.186	\$21.885	\$21.885	\$22.399	\$22.256	\$22.752
Test energy revenue (2018 \$/MWh)	\$39.040	\$42.610	\$42.610	\$42.190	\$41.750	\$42.620	\$42.620	\$39.610	\$38.130	\$39.610	\$38.540	\$33.490	\$33.570
Effective Real Property Tax Rate	1.00%	1.85%	2.36%	0.90%	4.10%	1.90%	1.90%	1.65%	0.75%	1.65%		2.94%	2.17%
Effective Personal Property Tax Rate	0.00%	0.20%	0.50%	0.90%	0.00%	0.00%	0.00%	0.75%	0.73%	0.75%		0.00%	0.00%
Firm Transportation Rate (Level for 2018 \$/mo per Dth/d)	\$22.94	\$22.94	\$22.22	\$13.52	\$21.09	\$20.99	\$20.28	\$18.83	\$14.79	\$11.54	\$6.18	\$43.99	\$46.37
Avoided IT Rate (Level for 2018 \$/mo per Dth/d)	\$22.94	\$22.94	\$8.30	\$13.52	\$16.06	\$20.99	\$20.28	\$18.83	\$14.79	\$6.60	\$0.18	\$43.99	\$46.37
Weighted Cost of Capital	\$5.71 8.09%	\$5.71 7.98%	\$8.30 8.02%	\$2.78 8.01%	7.98%	\$18.02 8.00%	\$18.02 8.00%	\$4.04 8.07%	\$8.42 8.07%	\$6.60 8.07%		\$21.80 8.61%	\$22.98 8.61%
	15.30%				15.77%							13.50%	
Inventory Carrying Charge (level current \$)  Combined Cycle Plant Charge Rate (level current \$)		15.77%	15.56%	15.61%		15.65%	15.65%	15.35%	15.35%	15.35%			13.50%
, , , , , , , , , , , , , , , , , , , ,	13.49%	13.72%	13.62%	13.64%	13.72%	13.66%	13.66%	13.52%	13.52%	13.52%		12.34%	12.34%
NOx Emission Reduction Credit Multiplier	1.15	1.30	1.30	1.15	1.15	1.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00
Nominal ERC Price (2018\$ per ton/yr PTE)	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
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Combined Cycle - 2x1 GE 7FA

Combined Cycle - 2x1 GE 7FA													
Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
Nominal Capital \$MM for 2018 CO													
Gas Turbine Scope	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700	\$4.700
Other major equipment	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Other construction labor	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Liquid Fuel, Demin water handling (Mat'l)	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900	\$0.900
Liquid Fuel, Demin water handling (Labor)	\$1.015	\$1.103	\$0.972	\$0.954	\$1.172	\$1.143	\$1.143	\$0.781	\$0.781	\$0.781	\$0.838	\$1.392	\$1.321
Liquid fuel storage tank (Mat'l)	\$0.775	\$0.775	\$2.019	\$1.007	\$1.007	\$0.775	\$0.775	\$0.659	\$2.702	\$2.702	\$0.775	\$0.775	\$0.775
Liquid fuel storage tank (Labor)	\$0.588	\$0.639	\$1.468	\$0.718	\$0.882	\$0.662	\$0.662	\$0.385	\$1.577	\$1.577	\$0.486	\$0.807	\$0.765
Demin water storage tank (Mat'l)	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498
Demin water storage tank (Labor)	\$0.378	\$0.411	\$0.362	\$0.356	\$0.437	\$0.426	\$0.426	\$0.291	\$0.291	\$0.291	\$0.312	\$0.519	\$0.492
Incremental Land for Tanks	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.005	\$0.005	\$0.005	\$0.005	\$0.050	\$0.025
Startup Testing ULSD	\$7.141	\$7.141	\$7.135	\$7.167	\$7.141	\$7.167	\$7.243	\$7.246	\$7.148	\$7.148	\$7.316	\$7.269	\$7.431
Startup Testing Energy Sales on ULSD	(\$1.833)	(\$2.000)	(\$2.000)	(\$1.981)	(\$1.960)	(\$2.001)	(\$2.001)	(\$1.859)	(\$1.790)	(\$1.859)	(\$1.809)	(\$1.572)	(\$1.576)
Emission Reduction Credits	\$0.469	\$0.530	\$0.530	\$0.469	\$0.469	\$0.530	\$0.530	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
(Inventory carrying cost as O&M)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Total Incremental Direct Cost	\$14.682	\$14.747	\$16.635	\$14.837	\$15.296	\$14.850	\$14.926	\$13.605	\$16.812	\$16.743	\$14.021	\$15.337	\$15.332
Sales tax on equipment and materials	\$0.412	\$0.395	\$0.487	\$0.000	\$0.568	\$0.481	\$0.481	\$0.372	\$0.814	\$0.858	\$0.412	\$0.894	\$0.894
EPC Fee	\$1.112	\$1.131	\$1.369	\$1.096	\$1.220	\$1.150	\$1.150	\$1.030	\$1.472	\$1.477	\$1.071	\$1.258	\$1.241
EPC Contingency	\$1.038	\$1.055	\$1.278	\$1.023	\$1.138	\$1.074	\$1.074	\$0.962	\$1.374	\$1.378	\$0.999	\$1.174	\$1.159
Development Cost	\$0.571	\$0.580	\$0.703	\$0.563	\$0.626	\$0.590	\$0.590	\$0.529	\$0.755	\$0.758	\$0.550	\$0.646	\$0.637
Mobilization & Startup	\$0.114	\$0.116	\$0.141	\$0.113	\$0.125	\$0.118	\$0.118	\$0.106	\$0.151	\$0.152	\$0.110	\$0.129	\$0.127
Non-fuel Inventories	\$0.057	\$0.058	\$0.070	\$0.056	\$0.063	\$0.059	\$0.059	\$0.053	\$0.076	\$0.076	\$0.055	\$0.065	\$0.064
Owner's Contingency	\$0.540	\$0.531	\$0.533	\$0.529	\$0.530	\$0.533	\$0.540	\$0.500	\$0.503	\$0.497	\$0.511	\$0.535	\$0.546
Financing Fees	\$0.445	\$0.447	\$0.509	\$0.437	\$0.470	\$0.453	\$0.455	\$0.412	\$0.527	\$0.527	\$0.425	\$0.481	\$0.480
Indirect (factored) Costs	\$4.289	\$4.313	\$5.090	\$3.816	\$4.740	\$4.458	\$4.467	\$3.962	\$5.671	\$5.722	\$4.133	\$5.181	\$5.149
Total Overnight Cost	\$18.972	\$19.060	\$21.724	\$18.653	\$20.037	\$19.308	\$19.393	\$17.568	\$22.484	\$22.465	\$18.154	\$20.518	\$20.480
Total Installed Cost	\$20.793	\$20.889	\$23.810	\$20.444	\$21.960	\$21.161	\$21.255	\$19.254	\$24.642	\$24.622	\$19.897	\$22.488	\$22.446
					,			,	,				
Installed Cost per kW of ICAP	\$33.56	\$33.72	\$38.43	\$33.00	\$35.45	\$34.16	\$34.31	\$31.08	\$39.78	\$39.74	\$32.12	\$36.30	\$36.23
Annual Fixed O&M Cost (2018 \$MM /yr)		·											
Materials & Contract Services	\$0.123	\$0.127	\$0.121	\$0.121	\$0.130	\$0.129	\$0.129	\$0.113	\$0.113	\$0.113	\$0.116	\$0.140	\$0.137
Administrative & General Expense	\$0.024	\$0.025	\$0.024	\$0.024	\$0.026	\$0.025	\$0.025	\$0.022	\$0.022	\$0.022	\$0.023	\$0.028	\$0.027
ULSD for Regular Testing	\$1.488	\$1.488	\$1.486	\$1.493	\$1.488	\$1.493	\$1.509	\$1.510	\$1.489	\$1.489	\$1.524	\$1.514	\$1.548
Energy Offset for Testing	(\$0.382)	(\$0.417)	(\$0.417)	(\$0.413)	(\$0.408)	(\$0.417)	(\$0.417)	(\$0.387)	(\$0.373)	(\$0.387)	(\$0.377)	(\$0.328)	(\$0.328)
Property Taxes	\$0.032	\$0.091	\$0.220	\$0.033	\$0.169	\$0.065	\$0.065	\$0.148	\$0.128	\$0.232	\$0.068	\$0.114	\$0.081
Insurance	\$0.125	\$0.125	\$0.143	\$0.123	\$0.132	\$0.127	\$0.128	\$0.116	\$0.148	\$0.148	\$0.119	\$0.135	\$0.135
ULSD Inventory Carrying Cost as Fixed O&M	\$0.868	\$0.894	\$2.292	\$1.244	\$1.252	\$0.891	\$0.900	\$0.707	\$3.486	\$3.486	\$0.889	\$0.779	\$0.797
Total Fixed O&M (2018 \$MM/yr)	\$2.278	\$2.334	\$3.871	\$2.624	\$2.788	\$2.313	\$2.339	\$2.227	\$5.014	\$5.103	\$2.361	\$2.382	\$2.396
Total Fixed O&M (2018 \$kW-yr)	\$3.68	\$3.77	\$6.25	\$4.24	\$4.50	\$3.73	\$3.78	\$3.60	\$8.09	\$8.24	\$3.81	\$3.85	\$3.87
Variable O&M Cost (2018 \$/MWh)		·			•								
On Natural Gas Fuel													
Major Maintenance Materials	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01
Major Maintenance Labor	\$0.38	\$0.41	\$0.36	\$0.36	\$0.44	\$0.43	\$0.43	\$0.29	\$0.29	\$0.29	\$0.31	\$0.52	\$0.49
Other (Catalyst, ammonia, water, etc.)	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14
Total - Natural Gas Fuel	\$2.53	\$2.56	\$2.51	\$2.51	\$2.59	\$2.58	\$2.58	\$2.44	\$2.44	\$2.44	\$2.46	\$2.67	\$2.64
On Liquid Fuel	72.00	72.55	, =	72.51	72.55	72.00	72.55	···	···	7=	720	72.07	φ2.54
Major Maintenance Materials	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51	\$1.51
Major Maintenance Materials  Major Maintenance Labor	\$0.57	\$0.62	\$0.54	\$0.53	\$0.66	\$0.64	\$0.64	\$0.44	\$0.44	\$0.44	\$0.47	\$0.78	\$0.74
Other (Catalyst, ammonia, water, etc.)	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14	\$1.14
outer, contained, water, con	71.17	71.17	71.17	71.14	71.17	71.14	71.17	71.17	71.17	71.14	71.17	71.17	71.17
Total - Liquid Fuel	\$3.22	\$3.27	\$3.20	\$3.19	\$3.31	\$3.29	\$3.29	\$3.09	\$3.09	\$3.09	\$3.12	\$3.43	\$3.39

Sums of amounts shown in columns may not match indicated total

Combined Cycle - 2x1 GE 7FA

I N -	45 1	4.0	47	4.0	40	20	24	22	22	24	25	2.0	27
Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
				PJM					T۱	/A		IES	0
	Dominion North	PEPCO	BGE	Delmarva	PECO	PSEG North	PSEG South	Maury East	Colbert	Johnsonville	Summer Shade	Central	East
Fuel Assurance Cost Comparison													
(Levelized Current \$/kW-yr of ICAP for 2018 CO Date)													
Firm Transportation for Natural Gas													
FT Reservation Charge	\$46.85	\$46.85	\$45.37	\$27.60	\$43.07	\$42.86	\$41.40	\$38.44	\$30.19	\$23.57	\$12.61	\$89.82	\$94.67
Avoided IT Charge	(\$11.66)	(\$11.66)	(\$16.95)	(\$5.68)	(\$32.79)	(\$36.80)	(\$36.79)	(\$8.25)	(\$17.19)	(\$13.49)	(\$5.07)	(\$44.52)	(\$46.92)
Net FT Cost	\$35.19	\$35.19	\$28.43	\$21.92	\$10.28	\$6.06	\$4.61	\$30.18	\$13.00	\$10.09	\$7.54	\$45.30	\$47.75
Dual-Fuel Capability													
Capital Charges for Incremental Plant	\$4.53	\$4.63	\$5.23	\$4.50	\$4.86	\$4.67	\$4.69	\$4.20	\$5.38	\$5.37	\$4.33	\$4.48	\$4.47
Carrying Charges on Fuel Inventory	\$1.40	\$1.44	\$3.70	\$2.01	\$2.02	\$1.44	\$1.45	\$1.14	\$5.63	\$5.63	\$1.43	\$1.26	\$1.29
Incremental Fixed O&M (Excl. Fuel Inventory)	\$2.68	\$2.74	\$3.00	\$2.63	\$2.93	\$2.71	\$2.74	\$2.89	\$2.91	\$3.08	\$2.80	\$3.04	\$3.03
Total	\$8.61	\$8.81	\$11.94	\$9.14	\$9.81	\$8.81	\$8.88	\$8.24	\$13.91	\$14.08	\$8.57	\$8.78	\$8.79

Simple Cycle - Technology by Site

Simple Cycle - Technology by Site	1 -	7		-		1		-								
Location No.	Base	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PPA	PJM	2	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	NYISO	NYISO	NYISO	NYISO	MISO	MISO	MISO
												Lower Hudson		Upper		
Location Name		3	Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Valley	Capital District	Penninsula	Twin Cities	Southern Illin
Area/Zone		4	CT	CT	SEMA	SEMA	ME	NH	VT	J	K	GHI	F	North	North	Central
State	OH	5	CT	CT	MA	MA	ME	NH	VT	NY	NY	NY	NY	MI	MN	IL
County		7	Middlesex	Fairfield	Barnstable	Bristol	Cumberland	Merrimack	Windham	Queens	Suffolk	Orange	Albany	Marquette	Ramsey	Jackson
eu /z		1														
City/Town	Cleveland	6	Middletown	Norwalk	Sandwich	Somerset	Yarmouth	Bow	Vernon	NYC (Astoria)	Yaphank	Newburgh	Albany	Marquette	St. Paul	Carbondale
l																
NOx Non-Attainment Status		40	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE
			2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100	2xLMS100		2x7FA w/o	
Simple Cycle Technology Selection			w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	w/SCR	SCR	SCR	SCR
Adjusted Performance Data																
Summer Installed Capacity (MW)			201	201	201	201	201	201	201	201	201	201	201	414	414	41
Winter Output on NG (MW)			224	224	224	224	224	224	224	224	224	224	224	458	458	4.
Winter Heat Rate on NG (Btu/kWh)			8,776	8,776	8,776	8,776	8,776	8,776	8,776	8,776	8,776	8,776	8,776	9,605	9,605	9,6
Winter Burn Rate on NG (MMBtu/h)			1,966	1,966	1,966	1,966	1,966	1,966	1,966	1,966	1,966	1,966	1,966	4,399	4,399	4,3
Winter Output on ULSD (MW)			192	192	192	192	192	192	192	192	192	192	192	448	448	4
Winter Heat Rate on ULSD (Btu/kWh)			8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	10,107	10,107	10,10
Winter Burn Rate on ULSD (MMBtu/h)			1,713	1.713	1,713	1,713	1,713	1.713	1,713	1,713	1,713	1.713	1,713	4,528	4,528	4,5
Test output on ULSD (MW)			218	218	218	218	218	218	218	218	218	218	218	444	444	4
Test heat rate on ULSD (Btu/kWh)			8,628	8,628	8,628	8,628	8,628	8,628	8,628	8,628	8,628	8,628	8,628	10,203	10,203	10,20
ULSD test burn rate (MMBtu/h)			1,884	1,884	1,884	1,884	1,884	1,884	1,884	1,884	1,884	1,884	1,884	4,530	4,530	4,5
Water injection rate on ULSD (gal/h)			0	0	0	0	0	0	0	0	0	0	0	42,000	42,000	42,00
NOx emission rate on natural gas (lb/MWh)			0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.329	0.329	0.32
NOx emission rate on ULSD (lb/MWh)			0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	1.659	1.659	1.65
Labor cost multiplier (v. Cleveland)		29		1.139	1.265	1.265	0.852	0.957	0.841	1.558	1.511	1.300	0.991	1.142	1.138	0.931
Land cost (2018 \$/acre)		30	\$50,000	\$50,000	\$50,000	\$50,000	\$25,000	\$50,000	\$25,000	\$850,000	\$75,000	\$75,000	\$50,000	\$15,000	\$50,000	\$25,00
Sales tax rate		37	6.35%	6.35%	6.25%				6.00%	8.88%	8.63%		8.00%	6.00%	7.63%	
ULSD Storage Capacity (days of full load)		3,	4.6	5.8	5.8	5.8	6.3	1.4	2.4	5.3	1.4	4.8	1.7	1.7	1.0	1
Capacity in gallons			1,362,690	1,716,071		1,716,071	1,857,423	424,057	706,762		424,057	1,439,565		1,307,798	747,313	747,31
Demin Water Storage Capacity (days at full load on ULSD)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2
Capacity in gallons			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,016,000	2,016,000	2,016,00
Average Days of inventory on ULSD			1.7	2.9	2.9	2.9	3.3	1.4	2.4	2.4	1.4	3.1	1.7	1.7	1.0	2,010,00
Inventory in gallons			494,734	848,115	848,115	848,115	989,467	424,057	706,762	706,762	424,057	918,791		1,307,798	747,313	747,3
ULSD Price (2018 \$/MMBtu)		17	1	\$21.728	\$21.885	\$21.885	\$22.002	\$22,576	\$23.245	\$21.416	\$22.119	\$21.807	\$22.178	\$23.245	\$22.569	\$22.24
Test energy revenue (2018 \$/MWh)		16		\$40.840	\$40.690	\$40.690	\$40.530	\$40.690	\$40.690	\$46.440	\$55.500	\$45.400	\$43.940	\$42.940	\$42.080	\$40.52
Effective Real Property Tax Rate				2.00%	2.00%	•			2.20%	5.00%	4.00%			3.00%		
Effective Personal Property Tax Rate		38 39		0.60%	0.30%				0.00%	0.00%	0.00%		0.00%	1.00%	0.00%	
Firm Transportation Rate (Level for 2018 \$/mo per Dth/d)		39	\$54.69	\$37.02	\$56.71	\$54.69	\$72.37	\$37.96	\$37.96	\$49.35	\$103.25	\$19.12	\$6.31	\$14.39	\$14.39	\$9.6
Avoided IT Rate (Level for 2018 \$/mo per Dth/d)			\$3.02	\$4.75	\$3.50	\$3.31	\$13.49	\$37.96	\$37.96	\$49.35	\$103.25	\$19.12	\$1.76	\$6.54	\$6.54	\$9.0
				\$4.75 8.05%	\$3.50 8.03%				\$2.60 8.02%	\$5.12 7.78%	\$5.48 8.02%		8.06%	\$6.54 8.09%		
Weighted Cost of Capital		32														
Inventory Carrying Charge (level current \$)		33			15.53%	15.53%			15.59%	16.73%	15.56%		15.42%	15.30%	15.75%	
Simple Cycle Plant Charge Rate (level current \$)		35	13.06%	13.08%	13.10%	13.10%			13.12%	13.57%	13.12%		13.06%	13.01%	13.18%	
NOx Emission Reduction Credit Multiplier		41	1.15	1.15	1.26	1.26	1.15	1.15	1.15	1.15	1.15	1.15	1.15	0.00	0.00	0.0
Nominal ERC Price (2018\$ per ton/yr PTE)		42	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,00

Simple Cycle - Technology by Site

Simple Cycle - Lechnology by Site		-														
Location No.	Base	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Nominal Capital \$MM for 2018 CO																
Gas Turbine Scope			\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$4.400	\$4.400	\$4.400
Other major equipment			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$1.310	\$1.310	\$1.310
Other construction labor			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$1.142	\$1.138	\$0.931
Liquid Fuel, Demin water handling (Mat'l)			\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$1.000	\$1.000	\$1.000
Liquid Fuel, Demin water handling (Labor)			\$0.175	\$0.175	\$0.195	\$0.195	\$0.131	\$0.147	\$0.129	\$0.240	\$0.233	\$0.200	\$0.152	\$1.142	\$1.138	\$0.931
Liquid fuel storage tank (Mat'l)			\$0.617	\$0.726	\$0.726	\$0.726	\$0.770	\$0.327	\$0.415	\$0.683	\$0.327	\$0.641	\$0.349	\$0.600	\$0.427	\$0.427
Liquid fuel storage tank (Labor)			\$0.473	\$0.557	\$0.619	\$0.619	\$0.442	\$0.211	\$0.235	\$0.716	\$0.333	\$0.561	\$0.233	\$0.461	\$0.327	\$0.268
Demin water storage tank (Mat'l)			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.655	\$0.655	\$0.655
Demin water storage tank (Labor)			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.504	\$0.502	\$0.411
Incremental Land for Tanks			\$0.050	\$0.050	\$0.050	\$0.050	\$0.025	\$0.050	\$0.025	\$0.850	\$0.075	\$0.075	\$0.050	\$0.015	\$0.050	\$0.025
Startup Testing ULSD			\$2.969	\$2.948	\$2.969	\$2.969	\$2.985	\$3.063	\$3.154	\$2.905	\$3.001	\$2.958	\$3.009	\$7.582	\$7.361	\$7.256
Startup Testing Energy Sales on ULSD			(\$0.642)	(\$0.642)	(\$0.640)	(\$0.640)	(\$0.637)	(\$0.640)	(\$0.640)	(\$0.730)	(\$0.873)	(\$0.714)	(\$0.691)	(\$1.373)	(\$1.345)	(\$1.295)
Emission Reduction Credits			\$0.161	\$0.161	\$0.177	\$0.177	\$0.161	\$0.161	\$0.161	\$0.161	\$0.161	\$0.161	\$0.161	\$0.000	\$0.000	\$0.000
(Inventory carrying cost as O&M)			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Total Incremental Direct Cost			\$7.349	\$7.521	\$7.641	\$7.641	\$7.422	\$6.865	\$7.024	\$8.370	\$6.802	\$7.428	\$6.808	\$17.438	\$16.963	\$16.318
Sales tax on equipment and materials			\$0.264	\$0.271	\$0.267	\$0.267	\$0.237	\$0.000	\$0.238	\$0.375	\$0.334	\$0.340	\$0.312	\$0.478	\$0.594	\$0.662
EPC Fee			\$0.508	\$0.528	\$0.535	\$0.535	\$0.513	\$0.423	\$0.456	\$0.556	\$0.477	\$0.529	\$0.459	\$1.169	\$1.149	\$1.100
EPC Contingency			\$0.558	\$0.580	\$0.589	\$0.589	\$0.564	\$0.465	\$0.502	\$0.611	\$0.525	\$0.582	\$0.505	\$1.286	\$1.264	\$1.209
Development Cost			\$0.307	\$0.319	\$0.324	\$0.324	\$0.310	\$0.256	\$0.276	\$0.336	\$0.289	\$0.320	\$0.278	\$0.707	\$0.695	\$0.665
Mobilization & Startup			\$0.061	\$0.064	\$0.065	\$0.065	\$0.062	\$0.051	\$0.055	\$0.067	\$0.058	\$0.064	\$0.056	\$0.141	\$0.139	\$0.133
Non-fuel Inventories			\$0.031	\$0.032	\$0.032	\$0.032	\$0.031	\$0.026	\$0.028	\$0.034	\$0.029	\$0.032	\$0.028	\$0.071	\$0.070	\$0.067
Owner's Contingency			\$0.237	\$0.235	\$0.239	\$0.239	\$0.236	\$0.244	\$0.250	\$0.296	\$0.221	\$0.232	\$0.235	\$0.579	\$0.565	\$0.557
Financing Fees			\$0.224	\$0.229	\$0.233	\$0.233	\$0.225	\$0.200	\$0.212	\$0.255	\$0.210	\$0.229	\$0.208	\$0.525	\$0.515	\$0.497
Indirect (factored) Costs			\$2.190	\$2.258	\$2.283	\$2.283	\$2.178	\$1.665	\$2.016	\$2.531	\$2.141	\$2.327	\$2.080	\$4.957	\$4.990	\$4.890
Total Overnight Cost		1	\$9.539	\$9.779	\$9.924	\$9.924	\$9.600	\$8.530	\$9.040	\$10.901	\$8.943	\$9.754	\$8.888	\$22.395	\$21.953	\$21.208
Total Installed Cost			\$9.977	\$10.229	\$10.381	\$10.381	\$10.042	\$8.922	\$9.456	\$11.403	\$9.355	\$10.203	\$9.297	\$23.425	\$22.963	\$22.184
			,	·					•							
Installed Cost per kW of ICAP			\$49.60	\$50.85	\$51.60	\$51.60	\$49.91	\$44.35	\$47.00	\$56.68	\$46.50	\$50.72	\$46.22	\$56.58	\$55.47	\$53.58
Annual Fixed O&M Cost (2018 \$MM /yr)		1														
Materials & Contract Services			\$0.010	\$0.010	\$0.010	\$0.010	\$0.009	\$0.010	\$0.009	\$0.011	\$0.011	\$0.011	\$0.010	\$0.046	\$0.046	\$0.043
Administrative & General Expense			\$0.011	\$0.011	\$0.011	\$0.011	\$0.010	\$0.010	\$0.010	\$0.012	\$0.012	\$0.011	\$0.011	\$0.050	\$0.050	\$0.046
ULSD for Regular Testing			\$0.619	\$0.614	\$0.619	\$0.619	\$0.622	\$0.638	\$0.657	\$0.605	\$0.625	\$0.616	\$0.627	\$1.580	\$1.534	\$1.512
Energy Offset for Testing			(\$0.134)	(\$0.134)	(\$0.133)	(\$0.133)	(\$0.133)	(\$0.133)	(\$0.133)	(\$0.152)	(\$0.182)	(\$0.149)	(\$0.144)	(\$0.286)	(\$0.280)	(\$0.270)
Property Taxes			\$0.076	\$0.081	\$0.060	\$0.060	\$0.112	\$0.015	\$0.020	\$0.153	\$0.040	\$0.070	\$0.035	\$0.266	\$0.093	\$0.068
Insurance			\$0.060	\$0.061	\$0.062	\$0.062	\$0.060	\$0.054	\$0.057	\$0.068	\$0.056	\$0.061	\$0.056	\$0.141	\$0.138	\$0.133
ULSD Inventory Carrying Cost as Fixed O&M			\$0.231	\$0.395	\$0.399	\$0.399	\$0.472	\$0.207	\$0.355	\$0.351	\$0.202	\$0.432	\$0.234	\$0.644	\$0.368	\$0.362
Total Fixed O&M (2018 \$MM/yr)		1	\$0.873	\$1.039	\$1.029	\$1.029	\$1.152	\$0.800	\$0.974	\$1.049	\$0.765	\$1.053	\$0.828	\$2.439	\$1.947	\$1.893
Total Fixed O&M (2018 \$kW-yr)			\$4.34	\$5.16	\$5.11	\$5.11	\$5.73	\$3.98	\$4.84	\$5.21	\$3.80	\$5.23	\$4.11	\$5.89	\$4.70	\$4.57
Variable O&M Cost (2018 \$/MWh)		1														
On Natural Gas Fuel																
Major Maintenance Materials			\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$1.26	\$1.26	\$1.26
Major Maintenance Labor		1	\$0.17	\$0.17	\$0.19	\$0.19	\$0.13	\$0.15	\$0.13	\$0.24	\$0.23	\$0.20	\$0.15	\$0.46	\$0.46	\$0.37
Other (Catalyst, ammonia, water, etc.)			\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$1.89	\$1.89	\$1.89
Total - Natural Gas Fuel		1	\$5.18	\$5.18	\$5.20	\$5.20	\$5.14	\$5.15	\$5.13	\$5.24	\$5.24	\$5.20	\$5.16	\$3.61	\$3.61	\$3.52
On Liquid Fuel			Ψ3.10	<b>95.10</b>	<b>₹3.20</b>	Ų3. <b>2</b> 0	75.14	75.15	75.15	<b>↓</b> 3. <b>∠</b> 4	<b>↓</b> 3. <b>∠</b> 4	75.20	<b>75.10</b>	Ų3.UI	Ų3.UI	75.52
Major Maintenance Materials			\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$1.89	\$1.89	\$1.89
Major Maintenance Labor		1	\$0.26	\$0.26	\$5.75 \$0.29	\$0.29	\$0.20	\$0.22	\$0.19	\$0.36	\$0.35	\$0.30	\$0.23	\$0.69	\$0.69	\$0.56
Other (Catalyst, ammonia, water, etc.)			\$2.52	\$2.52	\$0.29	\$2.52	\$0.20	\$2.52	\$2.52	\$2.52	\$0.55	\$2.52	\$2.52	\$1.89	\$1.89	\$1.89
Total - Liquid Fuel	-	-	\$6.51	\$6.51	\$6.54	\$6.54	\$6.44	\$6.47	\$6.44	\$6.61	\$6.59	\$6.55	\$6.48	\$1.89	\$1.89	\$1.89
Sums of amounts shown in columns may not match indicated total	1	1		10.31	۶u.J4	90.54	0.44	74.47	<del>ب</del> 0.44	λ0.01	ود.ںډ	ود.ن	γυ.46	74.47	94.40	4.54

Sums of amounts shown in columns may not match indicated totals due to rounding.

nle Cycle - Techn	ology by Site	•

Location No.	Base	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	PPA					ISONE					NY	'ISO			MISO	
	Site		Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Lower Hudson Valley	Capital District	Upper Penninsula	Twin Cities	Southern Illinois
Fuel Assurance Cost Comparison			l	ı		ı										1
(Levelized Current \$/kW-yr of ICAP for 2018 CO Date)																
Firm Transportation for Natural Gas																
FT Reservation Charge			\$153.96	\$104.22	\$159.64	\$153.96	\$203.74	\$106.87	\$106.87	\$138.95	\$290.67	\$53.82	\$17.76	\$44.02	\$44.02	\$29.58
Avoided IT Charge			(\$8.49)	(\$13.36)	(\$9.85)	(\$9.32)	(\$37.97)	(\$8.52)	(\$7.32)	(\$14.41)	(\$15.42)	(\$11.59)	(\$4.95)	(\$20.01)	(\$20.01)	(\$9.86)
Net FT Cost			\$145.47	\$90.86	\$149.79	\$144.64	\$165.77	\$98.35	\$99.55	\$124.54	\$275.24	\$42.23	\$12.81	\$24.02	\$24.02	\$19.72
Dual-Fuel Capability			\$145.47	\$90.86	\$149.79	\$144.64	\$165.77	\$98.35	\$99.55	\$124.54	\$275.24	\$42.23	\$12.81	\$24.02	\$24.02	\$19.72
Capital Charges for Incremental Plant			\$6.48	\$6.65	\$6.76	\$6.76	\$6.56	\$5.82	\$6.17	\$7.69	\$6.10	\$6.65	\$6.04	\$7.36	\$7.31	\$7.06
Carrying Charges on Fuel Inventory			\$1.15	\$1.96	\$1.98	\$1.98	\$2.34	\$1.03	\$1.76	\$1.74	\$1.01	\$2.15	\$1.16	\$1.56	\$0.89	\$0.87
Incremental Fixed O&M (Excl. Fuel Inventory)			\$3.76	\$3.78	\$3.69	\$3.69	\$3.99	\$3.48	\$3.63	\$4.10	\$3.30	\$3.64	\$3.48	\$5.11	\$4.50	\$4.36
Total			\$11.38	\$12.39	\$12.44	\$12.44	\$12.89	\$10.33	\$11.57	\$13.53	\$10.40	\$12.44	\$10.68	\$14.03	\$12.70	\$12.29

Simple Cycle - Technology by Site

Simple Cycle - Technology by Site			1		1	ı		1	1	1			
Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
PPA	PJM	TVA	TVA	TVA	TVA	IESO	IESO						
	Dominion												
Location Name	North	PEPCO	BGE	Delmarva	PECO	PSEG North	PSEG South	Maury East	Colbert	Johnsonville	Summer Shade	Central	East
Area/Zone	Dominion	PEPCO	BGE	Delmarva	PECO	PSEG N	PSEG S	Central	South	Central	Central	Central	East
State	VA	MD	MD	DE	PA	NJ	NJ	TN	AL	TN	KY	ON	ON
County	Arlington	DC	Baltimore	New Castle	Philadelphia	Essex	Mercer	Maury	Colbert	Humphreys	Metcalfe	na	na
Cit. IT										New			Greater
City/Town	Arlington	Washington	Baltimore	Wilmington	Philadelphia	Newark	Trenton	na	na	Johnsonville	Summer Shade	Toronto	Napanee
NO. Non Attainment Status	TOUE	TDUE	TOUE	TDUE	TOUE	TOUE	TRUE	EALCE	FALCE	FALCE	EALCE	FALCE	EALCE
NOx Non-Attainment Status	TRUE 2xLMS100	FALSE	FALSE	FALSE	FALSE 2x7FA w/o	FALSE	FALSE						
Charale Code Tarkardana Calantina	w/SCR	w/SCR											
Simple Cycle Technology Selection	W/SCR	SCR	SCR	SCR	SCR	SCR	SCR						
Adjusted Performance Data													
•	201	201	201	201	201	201	201	414	414	414	414	414	414
Summer Installed Capacity (MW)	201	201	201	201 224	201 224	201 224	201 224	414	414	414	414	414	414
Winter Output on NG (MW)	224	224	224					458	458	458	458	458	458
Winter Heat Rate on NG (Btu/kWh)	8,776	8,776	8,776	8,776	8,776	8,776	8,776	9,605	9,605	9,605	9,605	9,605	9,605
Winter Burn Rate on NG (MMBtu/h)	1,966	1,966	1,966	1,966	1,966	1,966	1,966	4,399	4,399	4,399	4,399	4,399	4,399
Winter Output on ULSD (MW)	192	192	192	192	192	192	192	448	448	448	448	448	448
Winter Heat Rate on ULSD (Btu/kWh)	8,908	8,908	8,908	8,908	8,908	8,908	8,908	10,107	10,107	10,107	10,107	10,107	10,107
Winter Burn Rate on ULSD (MMBtu/h)	1,713	1,713	1,713	1,713	1,713	1,713	1,713	4,528	4,528	4,528	4,528	4,528	4,528
Test output on ULSD (MW)	218	218	218	218	218	218	218	444	444	444	444	444	444
Test heat rate on ULSD (Btu/kWh)	8,628	8,628	8,628	8,628	8,628	8,628	8,628	10,203	10,203	10,203	10,203	10,203	10,203
ULSD test burn rate (MMBtu/h)	1,884	1,884	1,884	1,884	1,884	1,884	1,884	4,530	4,530	4,530	4,530	4,530	4,530
Water injection rate on ULSD (gal/h)	0	0	0	0	0	0	0	42,000	42,000	42,000	42,000	42,000	42,000
NOx emission rate on natural gas (lb/MWh)	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.329	0.329	0.329	0.329	0.329	0.329
NOx emission rate on ULSD (lb/MWh)	0.199	0.199	0.199	0.199	0.199	0.199	0.199	1.659	1.659	1.659	1.659	1.659	1.659
Labor cost multiplier (v. Cleveland)	1.128	1.225	1.080	1.060	1.302	1.269	1.269	0.867	0.867	0.867	0.931	1.547	1.467
Land cost (2018 \$/acre)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$5,000	\$5,000	\$5,000	\$5,000	\$50,000	\$25,000
Sales tax rate	6.00%	5.75%	6.00%	0.00%	8.00%	7.00%		5.50%	9.25%		6.00%	13.00%	13.00%
ULSD Storage Capacity (days of full load)	1.2	1.2	6.0	1.7	1.7	1.2	1.2	1.0	5.5	5.5	1.2	1.2	1.2
Capacity in gallons	353,381	353,381	1,786,747	494,734	494,734	353,381	353,381	747,313	4,351,959	4,351,959	934,142	934,142	934,142
Demin Water Storage Capacity (days at full load on ULSD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
Capacity in gallons	0	0	0	0	0	0	0	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000	2,016,000
Average Days of inventory on ULSD	1.2	1.2	3.1	1.7	1.7	1.2	1.2	1.0	4.8	4.8	1.2	1.2	1.2
Inventory in gallons	353,381	353,381	918,791	494,734	494,734	353,381	353,381	747,313	3,736,567	3,736,567	934,142	934,142	934,142
ULSD Price (2018 \$/MMBtu)	\$21.865	\$21.865	\$21.846	\$21.943	\$21.865	\$21.943	\$22.178	\$22.186	\$21.885	\$21.885	\$22.399	\$22.256	\$22.752
Test energy revenue (2018 \$/MWh)	\$39.040	\$42.610	\$42.610	\$42.190	\$41.750	\$42.620	\$42.620	\$39.610	\$38.130	\$39.610	\$38.540	\$33.490	\$33.570
Effective Real Property Tax Rate	1.00%	1.85%	2.36%	0.90%	4.10%	1.90%	1.90%	1.65%	0.75%	1.65%	1.10%	2.94%	2.17%
Effective Personal Property Tax Rate	0.00%	0.20%	0.50%	0.00%	0.00%	0.00%	0.00%	0.75%	0.50%	0.75%	0.25%	0.00%	0.00%
Firm Transportation Rate (Level for 2018 \$/mo per Dth/d)	\$22.94	\$22.94	\$36.17	\$13.52	\$22.66	\$22.44	\$23.52	\$18.83	\$14.79	\$11.54	\$6.18	\$43.99	\$46.37
Avoided IT Rate (Level for 2018 \$/mo per Dth/d)	\$2.86	\$2.85	\$4.15	\$1.39	\$8.03	\$9.01	\$9.01	\$2.02	\$4.21	\$3.30	\$1.24	\$10.90	\$11.49
Weighted Cost of Capital	8.09%	7.98%	8.02%	8.01%	7.98%	8.00%	8.00%	8.07%	8.07%	8.07%	8.09%	8.61%	8.61%
Inventory Carrying Charge (level current \$)	15.30%	15.77%	15.56%	15.61%	15.77%	15.65%	15.65%	15.35%	15.35%	15.35%	15.30%	13.50%	13.50%
Simple Cycle Plant Charge Rate (level current \$)	13.01%	13.19%	13.11%	13.13%	13.19%	13.15%	13.15%	13.03%	13.03%	13.03%	13.01%	11.60%	11.60%
NOx Emission Reduction Credit Multiplier	1.15	1.30	1.30	1.15	1.15	1.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00
Nominal ERC Price (2018\$ per ton/yr PTE)	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000

Simple Cycle - Technology by Site

Incomprise   Section   S	Simple Cycle - Technology by Site													
Sas Turnifus Scope	Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
Other candiprement   \$0.000   \$0.000   \$0.000   \$0.000   \$0.000   \$0.000   \$0.000   \$1.310	Nominal Capital \$MM for 2018 CO													
Deher construction labor   S0.000   S	Gas Turbine Scope	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$3.345	\$4.400	\$4.400	\$4.400	\$4.400	\$4.400	\$4.400
Liquid Fiel, Demin water handling (MarTi)   So 200   So	Other major equipment	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$1.310	\$1.310	\$1.310	\$1.310	\$1.310	\$1.310
Liquis Fleen   Demin water handring (Labor)   \$0.138   \$0.168   \$0.138   \$0.208   \$0.195   \$0.195   \$0.057   \$0.087   \$0.087   \$0.087   \$0.085   \$0.485	Other construction labor	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.867	\$0.867	\$0.867	\$0.931	\$1.547	\$1.467
Liquid fiel storage tank (Marti)  50.035 5.035 5.035 5.035 5.0378 5.0349 5.0349 5.0355 5.0355 5.0372 5.1541 5.1541 5.048 5.0485 5.0355	Liquid Fuel, Demin water handling (Mat'l)	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000
Light Hard Hard Franker Hark (Labor)   50.212   50.234   50.009   50.000	Liquid Fuel, Demin water handling (Labor)	\$0.174	\$0.189	\$0.166	\$0.163	\$0.200	\$0.195	\$0.195	\$0.867	\$0.867	\$0.867	\$0.931	\$1.547	\$1.467
Demin water stronger tank (MaPri)   \$0,000   \$	Liquid fuel storage tank (Mat'l)	\$0.305	\$0.305	\$0.748	\$0.349	\$0.349	\$0.305	\$0.305	\$0.427	\$1.541	\$1.541	\$0.485	\$0.485	\$0.485
Demin water storage tank Labary	Liquid fuel storage tank (Labor)	\$0.232	\$0.252	\$0.544	\$0.249	\$0.306	\$0.261	\$0.261	\$0.249	\$0.900	\$0.900	\$0.304	\$0.505	\$0.479
Incremental Land for Tanks	Demin water storage tank (Mat'l)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.655	\$0.655	\$0.655	\$0.655	\$0.655	\$0.655
Samup Testing (USD   \$2,966   \$2,966   \$2,966   \$2,976   \$3,077   \$2,966   \$2,977   \$3,000   \$7,28   \$7,188   \$7,318   \$7,306   \$7,298   \$7,218   \$1,200	Demin water storage tank (Labor)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.383	\$0.383	\$0.383	\$0.411	\$0.682	\$0.647
Startup Testing tenegy Sales on UISD   Sign 670   Sig	Incremental Land for Tanks	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.050	\$0.005	\$0.005	\$0.005	\$0.005	\$0.050	\$0.025
Emission Reduction Credits   SO.161   SO.182   SO.182   SO.161   SO.182   SO.000	Startup Testing ULSD	\$2.966	\$2.966	\$2.964	\$2.977	\$2.966	\$2.977	\$3.009	\$7.236	\$7.138	\$7.138	\$7.306	\$7.259	\$7.421
Non-fuel mentation   Sound	Startup Testing Energy Sales on ULSD	(\$0.614)	(\$0.670)	(\$0.670)	(\$0.663)	(\$0.656)	(\$0.670)	(\$0.670)	(\$1.266)	(\$1.219)	(\$1.266)	(\$1.232)	(\$1.071)	(\$1.073)
Total Incremental Direct Cost	Emission Reduction Credits	\$0.161	\$0.182	\$0.182	\$0.161	\$0.161	\$0.182	\$0.182	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Sales tax on equipment and materials   S0.231   S0.221   S0.258   S0.000   S0.312   S0.270   S0.270   S0.270   S0.029   S0.828   S0.471   S0.121   S1.122   S1.100	(Inventory carrying cost as O&M)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Sales tax on equipment and materials   S0.231   S0.221   S0.258   S0.000   S0.312   S0.270   S0.270   S0.270   S0.029   S0.828   S0.471   S0.121   S1.122   S1.100	Total Incremental Direct Cost	\$6.820	\$6.819	\$7.530	\$6.831	\$6.922	\$6.846	\$6.878	\$16.134	\$17.847	\$17.800	\$16.506	\$18.369	\$18.284
EPC Contingency	Sales tax on equipment and materials	\$0.231	\$0.221	\$0.258	\$0.000	\$0.312	\$0.270	\$0.270	\$0.429		\$0.868	\$0.471	\$1.021	\$1.021
Development Cost   S0.271   S0.273   S0.218   S0.281   S0.285   S0.287   S0.277   S0.277   S0.271   S0.774   S0.579   S0.786	EPC Fee	\$0.449	\$0.451	\$0.526	\$0.431	\$0.471	\$0.458	\$0.458	\$1.059	\$1.275	\$1.279	\$1.090	\$1.315	\$1.293
Development Cost   S0.271   S0.273   S0.218   S0.261   S0.285   S0.285   S0.277   S0.277   S0.277   S0.277   S0.277   S0.277   S0.277   S0.278	EPC Contingency	\$0.494	\$0.496	\$0.579	\$0.474	\$0.518	\$0.503	\$0.503	\$1.165	\$1.402	\$1.407	\$1.199	\$1.447	\$1.422
Mobilization & Startup   S.0.054   S.0.055   S.0.064   S.0.075   S.0.055   S.0.055   S.0.128   S.0.154   S.0.155   S.0.132   S.0.159   S.0.156   S.0.075   S.0.075   S.0.075   S.0.077   S.0.057   S.0.557		\$0.271	\$0.273	\$0.318	\$0.261	\$0.285	\$0.277	\$0.277	\$0.641	\$0.771	\$0.774	\$0.659	\$0.796	\$0.782
Source   S	Mobilization & Startup	\$0.054	\$0.055	\$0.064	\$0.052		\$0.055	\$0.055	\$0.128	\$0.154	\$0.155	\$0.132	\$0.159	\$0.156
Financing Fees	Non-fuel Inventories	\$0.027	\$0.027	\$0.032	\$0.026	\$0.029	\$0.028	\$0.028	\$0.064	\$0.077	\$0.077	\$0.066	\$0.080	\$0.078
Indirect (factored) Costs   S1.970   S1.965   S2.241   S1.677   S2.118   S2.035   S2.038   S4.524   S5.607   S5.660   S4.678   S5.970   S5.915     Total Overnight Cost   S8.790   S8.784   S9.771   S8.508   S9.040   S8.880   S8.916   S20.658   S23.454   S23.460   S21.184   S24.339   S24.199     Total Installed Cost per kW of ICAP   S45.70   S45.67   S50.80   S44.24   S7.00   S4.617   S46.36   S52.19   S9.26   S25.33   S24.539   S22.159   S25.548   S5.313     Installed Cost per kW of ICAP   S45.70   S45.67   S50.80   S44.24   S7.00   S46.17   S46.36   S52.19   S9.26   S59.27   S53.52   S61.49   S61.14     Annual Fixed O&M Cost (2018 SMM /yr)   Materials & Contract Services   S0.010   S0.010   S0.010   S0.011   S0.011   S0.010   S0.012   S0.042   S0.042   S0.042   S0.043   S0.052   S0.050     Administrative & General Expense   S0.011   S0.011   S0.011   S0.011   S0.011   S0.011   S0.045   S0	Owner's Contingency	\$0.238	\$0.235	\$0.236	\$0.234	\$0.235	\$0.236	\$0.239	\$0.555	\$0.554	\$0.550	\$0.565	\$0.583	\$0.595
Total Overnight Cost Total Installed Cost Sp.194 Sp.198 Sp.199 Sp.198 Sp.199 Sp.198 Sp.199 Sp.198 Sp.199 Sp.198 Sp.199 Sp.198 Sp.199 Sp	Financing Fees	\$0.206	\$0.206	\$0.229	\$0.199	\$0.212	\$0.208	\$0.209	\$0.484	\$0.550	\$0.550	\$0.497	\$0.570	\$0.567
Total Installed Cost per kW of ICAP  \$45.70 \$45.67 \$50.80 \$44.24 \$47.00 \$46.17 \$46.36 \$52.19 \$59.26 \$59.27 \$59.26 \$59.27 \$59.27 \$53.52 \$61.49 \$61.14 \$Annual Fixed O&M Cost (2018 \$MM /yr)  Materials & Contract Services \$0.010 \$0.010 \$0.010 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.010 \$0.010 \$0.020 \$0.042 \$0.042 \$0.042 \$0.045 \$0.046 \$0.056 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.057 \$1.508 \$1.487 \$1.487 \$1.487 \$1.51.21 \$1.512 \$1.546 \$1.69	Indirect (factored) Costs	\$1.970	\$1.965	\$2.241	\$1.677	\$2.118	\$2.035	\$2.038	\$4.524	\$5.607	\$5.660	\$4.678	\$5.970	\$5.915
Total Installed Cost per kW of ICAP  \$45.70 \$45.67 \$50.80 \$44.24 \$47.00 \$46.17 \$46.36 \$52.19 \$59.26 \$59.27 \$59.26 \$59.27 \$59.27 \$53.52 \$61.49 \$61.14 \$Annual Fixed O&M Cost (2018 \$MM /yr)  Materials & Contract Services \$0.010 \$0.010 \$0.010 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.010 \$0.010 \$0.020 \$0.042 \$0.042 \$0.042 \$0.045 \$0.046 \$0.056 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.055 \$0.057 \$1.508 \$1.487 \$1.487 \$1.487 \$1.51.21 \$1.512 \$1.546 \$1.69	Total Overnight Cost	\$8,790	\$8,784	\$9,771	\$8,508	\$9.040	\$8,880	\$8.916	\$20.658	\$23,454	\$23,460	\$21.184	\$24.339	\$24.199
Installed Cost per kW of ICAP  Annual Fixed O&M Cost (2018 SMM/yr)  Materials & Contract Services  \$0.010 \$0.010 \$0.010 \$0.010 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.015 \$0.045 \$	1					•			•		•			
Annual Fixed O&M Cost (2018 \$MM/yr)  Materials & Contract Services \$0.010 \$0.010 \$0.011 \$0.01		, -				,			,				,	
Materials & Contract Services   \$0.010   \$0.010   \$0.010   \$0.010   \$0.011		\$45.70	\$45.67	\$50.80	\$44.24	\$47.00	\$46.17	\$46.36	\$52.19	\$59.26	\$59.27	\$53.52	\$61.49	\$61.14
Administrative & General Expense \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.011 \$0.045 \$0.045 \$0.045 \$0.046 \$0.056 \$0.055 \$0.0	Annual Fixed O&M Cost (2018 \$MM /yr)													
ULSD for Regular Testing \$0.618 \$0.618 \$0.618 \$0.617 \$0.620 \$0.618 \$0.620 \$0.627 \$1.508 \$1.487 \$1.487 \$1.522 \$1.512 \$1.546   Energy Offset for Testing \$0.018 \$0.0140 \$0.0140 \$0.0140 \$0.0140 \$0.0140 \$0.0140 \$0.0244 \$0.024 \$0.024 \$0.024 \$0.025 \$0.023 \$0.0224 \$0.024 \$0.024 \$0.024 \$0.025 \$0.029 \$0.070 \$0.023 \$0.024 \$0.024 \$0.025 \$0.024 \$0.025 \$0.024 \$0.025 \$0.024 \$0.025 \$0.024 \$0.025 \$0.024 \$0.025 \$0.024 \$0.025 \$0.0	Materials & Contract Services	\$0.010	\$0.010	\$0.010	\$0.010	\$0.011	\$0.010	\$0.010	\$0.042	\$0.042	\$0.042	\$0.043	\$0.052	\$0.050
Fenergy Offset for Testing   (\$0.128) (\$0.140) (\$0.140) (\$0.138) (\$0.137) (\$0.140) (\$0.140) (\$0.140) (\$0.264) (\$0.254) (\$0.264) (\$0.264) (\$0.257) (\$0.223) (\$0.224) (\$0.244)	Administrative & General Expense	\$0.011	\$0.011	\$0.011	\$0.011	\$0.011	\$0.011	\$0.011	\$0.045	\$0.045	\$0.045	\$0.046	\$0.056	\$0.055
Property Taxes   \$0.008   \$0.030   \$0.080   \$0.080   \$0.080   \$0.099   \$0.016   \$0.016   \$0.164   \$0.122   \$0.209   \$0.070   \$0.097   \$0.069   \$0.081   \$0.055   \$0.055   \$0.055   \$0.055   \$0.061   \$0.053   \$0.057   \$0.056   \$0.056   \$0.056   \$0.130   \$0.147   \$0.147   \$0.133   \$0.153   \$0.152   \$0.051   \$0.051   \$0.051   \$0.051   \$0.051   \$0.052   \$0.055   \$0.069   \$0.055   \$0	ULSD for Regular Testing	\$0.618	\$0.618	\$0.617	\$0.620	\$0.618	\$0.620	\$0.627	\$1.508	\$1.487	\$1.487	\$1.522	\$1.512	\$1.546
Insurance	Energy Offset for Testing	(\$0.128)	(\$0.140)	(\$0.140)	(\$0.138)	(\$0.137)	(\$0.140)	(\$0.140)	(\$0.264)	(\$0.254)	(\$0.264)	(\$0.257)	(\$0.223)	(\$0.224)
ULSD Inventory Carrying Cost as Fixed O&M Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$MM/yr) Total Fixed O&M (2018 \$MM/yr) Solvant So	Property Taxes	\$0.008	\$0.030	\$0.080	\$0.008	\$0.039	\$0.016	\$0.016	\$0.164	\$0.122	\$0.209	\$0.070	\$0.097	\$0.069
Total Fixed O&M (2018 \$MM/yr) \$0.738 \$0.754 \$1.073 \$0.798 \$0.836 \$0.742 \$0.751 \$1.977 \$3.328 \$3.405 \$2.000 \$2.035 \$2.046 Total Fixed O&M (2018 \$kW-yr) \$3.67 \$3.75 \$5.33 \$3.97 \$4.15 \$3.69 \$3.73 \$4.77 \$8.04 \$8.22 \$4.83 \$4.92 \$4.94 \$2.49	Insurance	\$0.055	\$0.055	\$0.061	\$0.053	\$0.057	\$0.056	\$0.056	\$0.130	\$0.147	\$0.147	\$0.133	\$0.153	\$0.152
Total Fixed O&M (2018 \$kW-yr) \$3.67 \$3.75 \$5.33 \$3.97 \$4.15 \$3.69 \$3.73 \$4.77 \$8.04 \$8.22 \$4.83 \$4.92 \$4.94 \$2.49 \$0.00 \$1.26	ULSD Inventory Carrying Cost as Fixed O&M	\$0.164	\$0.169	\$0.432	\$0.235	\$0.236	\$0.168	\$0.170	\$0.353	\$1.739	\$1.739	\$0.443	\$0.389	\$0.397
Variable O&M Cost (2018 \$/MWh)  On Natural Gas Fuel  Major Maintenance Materials \$2.49 \$2.49 \$2.49 \$2.49 \$2.49 \$2.49 \$1.26 \$1.26 \$1.26 \$1.26 \$1.26 \$1.26 \$1.26 Major Maintenance Labor \$0.17 \$0.19 \$0.17 \$0.16 \$0.20 \$0.19 \$0.19 \$0.19 \$0.35 \$0.35 \$0.35 \$0.35 \$0.37 \$0.62 \$0.59 \$0.60 \$0.	Total Fixed O&M (2018 \$MM/yr)	\$0.738	\$0.754	\$1.073	\$0.798	\$0.836	\$0.742	\$0.751	\$1.977	\$3.328	\$3.405	\$2.000	\$2.035	\$2.046
On Natural Gas Fuel         \$2.49         \$1.26 <td>Total Fixed O&amp;M (2018 \$kW-yr)</td> <td>\$3.67</td> <td>\$3.75</td> <td>\$5.33</td> <td>\$3.97</td> <td>\$4.15</td> <td>\$3.69</td> <td>\$3.73</td> <td>\$4.77</td> <td>\$8.04</td> <td>\$8.22</td> <td>\$4.83</td> <td>\$4.92</td> <td>\$4.94</td>	Total Fixed O&M (2018 \$kW-yr)	\$3.67	\$3.75	\$5.33	\$3.97	\$4.15	\$3.69	\$3.73	\$4.77	\$8.04	\$8.22	\$4.83	\$4.92	\$4.94
Major Maintenance Materials         \$2.49         \$2.49         \$2.49         \$2.49         \$2.49         \$2.49         \$1.26         \$1.89         \$1.89         \$1.89         \$1.89	Variable O&M Cost (2018 \$/MWh)													
Major Maintenance Labor         \$0.17         \$0.19         \$0.17         \$0.16         \$0.20         \$0.19         \$0.19         \$0.35         \$0.35         \$0.35         \$0.35         \$0.35         \$0.37         \$0.62         \$0.59           Other (Catalyst, ammonia, water, etc.)         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$1.89 <t< td=""><td>On Natural Gas Fuel</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	On Natural Gas Fuel													
Other (Catalyst, ammonia, water, etc.)         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$2.52         \$1.89	Major Maintenance Materials	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26
Total - Natural Gas Fuel \$5.18 \$5.19 \$5.17 \$5.17 \$5.20 \$5.20 \$5.20 \$3.50 \$3.50 \$3.50 \$3.52 \$3.77 \$3.74 \$0.00 Liquid Fuel  Major Maintenance Materials \$3.73 \$3.73 \$3.73 \$3.73 \$3.73 \$3.73 \$3.73 \$3.73 \$3.73 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89 \$0.26 \$0.26 \$0.28 \$0.25 \$0.24 \$0.30 \$0.29 \$0.29 \$0.29 \$0.25 \$0.52 \$0.52 \$0.52 \$0.56 \$0.93 \$0.89 \$0.40	Major Maintenance Labor	\$0.17	\$0.19	\$0.17	\$0.16	\$0.20	\$0.19	\$0.19	\$0.35	\$0.35	\$0.35	\$0.37	\$0.62	\$0.59
On Liquid Fuel     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$3.73     \$1.89<	Other (Catalyst, ammonia, water, etc.)	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89
Major Maintenance Materials       \$3.73       \$3.73       \$3.73       \$3.73       \$3.73       \$3.73       \$3.73       \$1.89 <t< td=""><td>Total - Natural Gas Fuel</td><td>\$5.18</td><td>\$5.19</td><td>\$5.17</td><td>\$5.17</td><td>\$5.20</td><td>\$5.20</td><td>\$5.20</td><td>\$3.50</td><td>\$3.50</td><td>\$3.50</td><td>\$3.52</td><td>\$3.77</td><td>\$3.74</td></t<>	Total - Natural Gas Fuel	\$5.18	\$5.19	\$5.17	\$5.17	\$5.20	\$5.20	\$5.20	\$3.50	\$3.50	\$3.50	\$3.52	\$3.77	\$3.74
Major Maintenance Labor     \$0.26     \$0.28     \$0.25     \$0.24     \$0.30     \$0.29     \$0.29     \$0.52     \$0.52     \$0.56     \$0.93     \$0.89       Other (Catalyst, ammonia, water, etc.)     \$2.52     \$2.52     \$2.52     \$2.52     \$2.52     \$2.52     \$2.52     \$1.89     \$1.89     \$1.89     \$1.89     \$1.89	On Liquid Fuel													
Other (Catalyst, ammonia, water, etc.) \$2.52 \$2.52 \$2.52 \$2.52 \$2.52 \$2.52 \$1.89 \$1.89 \$1.89 \$1.89 \$1.89	Major Maintenance Materials	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$3.73	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89
		\$0.26	\$0.28	\$0.25	\$0.24	\$0.30	\$0.29	\$0.29	\$0.52	\$0.52	\$0.52	\$0.56	\$0.93	\$0.89
Total - Liquid Fuel \$6.51 \$6.53 \$6.50 \$6.49 \$6.55 \$6.54 \$6.54 \$4.30 \$4.30 \$4.30 \$4.34 \$4.71 \$4.66	Other (Catalyst, ammonia, water, etc.)	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89	\$1.89
	Total - Liquid Fuel	\$6.51	\$6.53	\$6.50	\$6.49	\$6.55	\$6.54	\$6.54	\$4.30	\$4.30	\$4.30	\$4.34	\$4.71	\$4.66

Sums of amounts shown in columns may not match indicated total

Simple Cycle - Technology by Site

Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
	PJM							TVA				IESO	
	Dominion North	PEPCO	BGE	Delmarva	PECO	PSEG North	PSEG South	Maury East	Colbert	Johnsonville	Summer Shade	Central	East
Fuel Assurance Cost Comparison													
(Levelized Current \$/kW-yr of ICAP for 2018 CO Date)													
Firm Transportation for Natural Gas													
FT Reservation Charge	\$64.59	\$64.59	\$101.82	\$38.05	\$63.80	\$63.16	\$66.21	\$57.61	\$45.25	\$35.33	\$18.90	\$134.62	\$141.89
Avoided IT Charge	(\$8.04)	(\$8.04)	(\$11.68)	(\$3.92)	(\$22.61)	(\$25.37)	(\$25.36)	(\$6.19)	(\$12.89)	(\$10.11)	(\$3.80)	(\$33.36)	(\$35.16)
Net FT Cost	\$56.55	\$56.55	\$90.13	\$34.14	\$41.19	\$37.79	\$40.84	\$51.42	\$32.37	\$25.22	\$15.10	\$101.25	\$106.72
Dual-Fuel Capability	\$56.55	\$56.55	\$90.13	\$34.14	\$41.19	\$37.79	\$40.84	\$51.42	\$32.37	\$25.22	\$15.10	\$101.25	\$106.72
Capital Charges for Incremental Plant	\$5.95	\$6.03	\$6.66	\$5.81	\$6.20	\$6.07	\$6.09	\$6.80	\$7.72	\$7.73	\$6.96	\$7.13	\$7.09
Carrying Charges on Fuel Inventory	\$0.81	\$0.84	\$2.15	\$1.17	\$1.17	\$0.84	\$0.84	\$0.85	\$4.20	\$4.20	\$1.07	\$0.94	\$0.96
Incremental Fixed O&M (Excl. Fuel Inventory)	\$3.36	\$3.43	\$3.75	\$3.30	\$3.52	\$3.37	\$3.41	\$4.62	\$4.53	\$4.74	\$4.43	\$4.67	\$4.68
Total	\$10.13	\$10.30	\$12.57	\$10.28	\$10.89	\$10.27	\$10.34	\$12.28	\$16.45	\$16.67	\$12.47	\$12.75	\$12.73