

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

Combined Cycle - 2x1 GE 7FA		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Location No.	Base	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
PPA	PJM	ISONNE	ISONNE	ISONNE	ISONNE	ISONNE	ISONNE	ISONNE	NYISO	NYISO	NYISO	NYISO	MISO	MISO	MISO	
Location Name		Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Lower Hudson Valley	Capital District	Upper Peninsula	Twin Cities	Southern Illinois	
Area/Zone		CT	CT	SEMA	SEMA	ME	NH	VT	J	K	GHI	F	North	North	Central	
State	OH	CT	CT	MA	MA	ME	NH	VT	NY	NY	NY	NY	MI	MN	IL	
County		Middlesex	Fairfield	Barnstable	Bristol	Cumberland	Merrimack	Windham	Queens	Suffolk	Orange	Albany	Marquette	Ramsey	Jackson	
City/Town	Cleveland	Middletown	Norwalk	Sandwich	Somerset	Yarmouth	Bow	Vernon	NYC (Astoria)	Yaphank	Newburgh	Albany	Marquette	St. Paul	Carbondale	
Elevation above sea level (feet)	1,070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Summer temperature (for ICAP, F)	89.5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
Winter temperature (for ULSD burn and MDQ, F)	0.0	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	620	
Winter Output on NG (w/o duct burners, MW)		668	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	6,575	
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	4,392	
Winter Output on ULSD (w/o duct burners, MW)		652	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	6,968	
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	4,540	
Test output on ULSD (w/o duct burners, MW)	578	652	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	6,957	
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	4,536	
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	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	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	0.162	
Labor cost multiplier (v. Cleveland)	1.000	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	0.931	
Land cost (2018 \$/acre)	\$38,100	\$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	\$25,000	
Sales tax rate	6.00%	6.35%	6.35%	6.25%	6.25%	5.50%	0.00%	6.00%	8.88%	8.63%	8.13%	8.00%	6.00%	7.63%	8.50%	
ULSD Storage Capacity (days of full load)	3	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	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	1,498,483	
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	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	2,016,000	
Average Days of inventory on ULSD	3	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	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	1,498,483	
ULSD Price (2018 \$/MMBtu)	\$18.00	\$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	\$22.244	
Test energy revenue (2018 \$/MWh)	\$38.70	\$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	\$40.520	
Effective Real Property Tax Rate	2.0%	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%	2.80%	
Effective Personal Property Tax Rate	1.3%	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%	0.00%	
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	\$9.67	
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	\$6.45	
Weighted Cost of Capital	32	8.06%	8.05%	8.03%	8.03%	8.01%	8.02%	8.02%	7.78%	8.02%	8.02%	8.06%	8.09%	7.98%	7.99%	
Inventory Carrying Charge (level current \$)	33	15.41%	15.47%	15.53%	15.53%	15.64%	15.59%	15.59%	16.73%	15.56%	15.56%	15.42%	15.30%	15.75%	15.71%	
Combined Cycle Plant Charge Rate (level current \$)	34	13.55%	13.57%	13.60%	13.60%	13.66%	13.63%	13.63%	14.19%	13.62%	13.62%	13.55%	13.49%	13.71%	13.69%	
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	0.00	
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	\$15,000	

Combined Cycle - 2x1 GE 7FA

Location No.	Base	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Nominal Capital \$MM for 2018 CO</i>															
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	\$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	\$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	\$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	\$0.900	\$0.900
Liquid Fuel, Demin water handling (Labor)	\$0.900	\$1.025	\$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	\$1.325	\$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	\$1.016	\$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	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498	\$0.498
Demin water storage tank (Labor)	\$0.335	\$0.382	\$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	\$0.050	\$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	\$5.087	\$7.148	\$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)	(\$1.917)	(\$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		\$0.469	\$0.469	\$0.514	\$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	\$0.000	\$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	\$12.232	\$15.595	\$16.567	\$16.987	\$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	\$0.471	\$0.508	\$0.500	\$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	\$1.238	\$1.365	\$1.402	\$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	\$1.156	\$1.274	\$1.309	\$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	\$0.636	\$0.701	\$0.720	\$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	\$0.127	\$0.140	\$0.144	\$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	\$0.064	\$0.070	\$0.072	\$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	\$0.535	\$0.532	\$0.542	\$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	\$0.476	\$0.508	\$0.520	\$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	\$4.701	\$5.098	\$5.209	\$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	\$20.297	\$21.665	\$22.196	\$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	\$22.245	\$23.744	\$24.327	\$24.327	\$23.231	\$20.212	\$21.862	\$25.399	\$21.597	\$24.317	\$21.079	\$21.164	\$20.202	\$19.707
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
<i>Annual Fixed O&M Cost (2018 \$MM /yr)</i>															
Materials & Contract Services	\$0.118	\$0.124	\$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	\$0.024	\$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
ULSD for Regular Testing	\$1.060	\$1.489	\$1.478	\$1.489	\$1.489	\$1.497	\$1.536	\$1.582	\$1.457	\$1.505	\$1.484	\$1.509	\$1.582	\$1.536	\$1.514
Energy Offset for Testing	(\$0.336)	(\$0.399)	(\$0.399)	(\$0.398)	(\$0.398)	(\$0.396)	(\$0.398)	(\$0.398)	(\$0.454)	(\$0.543)	(\$0.444)	(\$0.430)	(\$0.420)	(\$0.412)	(\$0.396)
Property Taxes	\$0.259	\$0.180	\$0.210	\$0.173	\$0.173	\$0.261	\$0.064	\$0.091	\$0.383	\$0.167	\$0.264	\$0.147	\$0.258	\$0.105	\$0.077
Insurance	\$0.107	\$0.133	\$0.142	\$0.146	\$0.146	\$0.139	\$0.121	\$0.131	\$0.152	\$0.130	\$0.146	\$0.126	\$0.127	\$0.121	\$0.118
ULSD Inventory Carrying Cost as Fixed O&M	\$0.203	\$1.225	\$2.093	\$2.116	\$2.116	\$2.499	\$1.095	\$1.880	\$1.859	\$1.072	\$2.289	\$1.242	\$1.291	\$0.737	\$0.725
Total Fixed O&M (2018 \$MM/yr)	\$1.435	\$2.776	\$3.672	\$3.680	\$3.680	\$4.135	\$2.559	\$3.420	\$3.565	\$2.496	\$3.895	\$2.736	\$2.986	\$2.236	\$2.176
Total Fixed O&M (2018 \$kW-yr)	\$2.20	\$4.48	\$5.93	\$5.94	\$5.94	\$6.68	\$4.13	\$5.52	\$5.75	\$4.03	\$6.29	\$4.42	\$4.82	\$3.61	\$3.51
<i>Variable O&M Cost (2018 \$/MWh)</i>															
<i>On Natural Gas Fuel</i>															
Major Maintenance Materials	\$0.96	\$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	\$1.01
Major Maintenance Labor	\$0.32	\$0.38	\$0.38	\$0.43	\$0.43	\$0.29	\$0.32	\$0.28	\$0.52	\$0.51	\$0.44	\$0.33	\$0.38	\$0.38	\$0.31
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	\$1.14	\$1.14
Total - Natural Gas Fuel	\$2.42	\$2.53	\$2.53	\$2.57	\$2.57	\$2.44	\$2.47	\$2.43	\$2.67	\$2.66	\$2.59	\$2.48	\$2.53	\$2.53	\$2.46
<i>On Liquid Fuel</i>															
Major Maintenance Materials	\$1.44	\$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	\$1.51
Major Maintenance Labor	\$0.48	\$0.57	\$0.57	\$0.64	\$0.64	\$0.43	\$0.48	\$0.42	\$0.79	\$0.76	\$0.66	\$0.50	\$0.58	\$0.57	\$0.47
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	\$1.14	\$1.14
Total - Liquid Fuel	\$3.06	\$3.23	\$3.23	\$3.29	\$3.29	\$3.08	\$3.14	\$3.08	\$3.44	\$3.42	\$3.31	\$3.15	\$3.23	\$3.23	\$3.12

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

Combined Cycle - 2x1 GE 7FA

Location No.	Base
	PPA
	Site

1	2	3	4	5	6	7	8	9	10	11	12	13	14
ISONE							NYISO				MISO		
Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Lower Hudson Valley	Capital District	Upper Peninsula	Twin Cities	Southern Illinois

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

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
Location Name	Dominion 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
City/Town	Arlington	Washington	Baltimore	Wilmington	Philadelphia	Newark	Trenton	na	na	New Johnsonville	Summer Shade	Toronto	Greater 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%	6.00%	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	1,498,483	8,110,372	8,110,372	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	2,622,345	1,873,104	1,873,104	1,498,483	7,492,414	7,492,414	1,873,104	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%	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	\$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)	\$5.71	\$5.71	\$8.30	\$2.78	\$16.06	\$18.02	\$18.02	\$4.04	\$8.42	\$6.60	\$2.48	\$21.80	\$22.98
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%
Combined Cycle Plant Charge Rate (level current \$)	13.49%	13.72%	13.62%	13.64%	13.72%	13.66%	13.66%	13.52%	13.52%	13.52%	13.49%	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

Combined Cycle - 2x1 GE 7FA

Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
<i>Nominal Capital \$MM for 2018 CO</i>													
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
<i>Annual Fixed O&M Cost (2018 \$MM /yr)</i>													
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
<i>Variable O&M Cost (2018 \$/MWh)</i>													
<i>On Natural Gas Fuel</i>													
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
<i>On Liquid Fuel</i>													
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 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
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

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	\$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

Location No.	Base	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PPA	PJM	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	ISONE	NYISO	NYISO	NYISO	NYISO	MISO	MISO	MISO
Location Name		Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Lower Hudson Valley	Capital District	Upper Peninsula	Twin Cities	Southern Illinois
Area/Zone		CT	CT	SEMA	SEMA	ME	NH	VT	J	K	GHI	F	North	North	Central
State	OH	CT	CT	MA	MA	ME	NH	VT	NY	NY	NY	NY	MI	MN	IL
County		Middlesex	Fairfield	Barnstable	Bristol	Cumberland	Merrimack	Windham	Queens	Suffolk	Orange	Albany	Marquette	Ramsey	Jackson
City/Town	Cleveland	Middletown	Norwalk	Sandwich	Somerset	Yarmouth	Bow	Vernon	NYC (Astoria)	Yaphank	Newburgh	Albany	Marquette	St. Paul	Carbondale
NOx Non-Attainment Status		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE
Simple Cycle Technology Selection		2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2xLMS100 w/SCR	2x7FA w/o SCR	2x7FA w/o SCR	2x7FA w/o SCR
Adjusted Performance Data															
Summer Installed Capacity (MW)		201	201	201	201	201	201	201	201	201	201	201	414	414	414
Winter Output on NG (MW)		224	224	224	224	224	224	224	224	224	224	224	458	458	458
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	9,605
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	4,399
Winter Output on ULSD (MW)		192	192	192	192	192	192	192	192	192	192	192	448	448	448
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	10,107
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	4,528
Test output on ULSD (MW)		218	218	218	218	218	218	218	218	218	218	218	444	444	444
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	10,203
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	4,530
Water injection rate on ULSD (gal/h)		0	0	0	0	0	0	0	0	0	0	0	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	0.083	0.083	0.083	0.083	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	0.199	0.199	0.199	0.199	1.659	1.659	1.659
Labor cost multiplier (v. Cleveland)		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	0.931
Land cost (2018 \$/acre)		\$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	\$25,000
Sales tax rate		6.35%	6.35%	6.25%	6.25%	5.50%	0.00%	6.00%	8.88%	8.63%	8.13%	8.00%	6.00%	7.63%	8.50%
ULSD Storage Capacity (days of full load)		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	1.0
Capacity in gallons		1,362,690	1,716,071	1,716,071	1,716,071	1,857,423	424,057	706,762	1,574,718	424,057	1,439,565	494,734	1,307,798	747,313	747,313
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	2.0
Capacity in gallons		0	0	0	0	0	0	0	0	0	0	0	2,016,000	2,016,000	2,016,000
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	1.0
Inventory in gallons		494,734	848,115	848,115	848,115	989,467	424,057	706,762	706,762	424,057	918,791	494,734	1,307,798	747,313	747,313
ULSD Price (2018 \$/MMBtu)		\$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	\$22.244
Test energy revenue (2018 \$/MWh)		\$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	\$40.520
Effective Real Property Tax Rate		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%	2.80%
Effective Personal Property Tax Rate		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%	0.00%
Firm Transportation Rate (Level for 2018 \$/mo per Dth/d)		\$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	\$9.67
Avoided IT Rate (Level for 2018 \$/mo per Dth/d)		\$3.02	\$4.75	\$3.50	\$3.31	\$13.49	\$3.03	\$2.60	\$5.12	\$5.48	\$4.12	\$1.76	\$6.54	\$6.54	\$3.22
Weighted Cost of Capital		8.06%	8.05%	8.03%	8.03%	8.01%	8.02%	8.02%	7.78%	8.02%	8.02%	8.06%	8.09%	7.98%	7.99%
Inventory Carrying Charge (level current \$)		15.41%	15.47%	15.53%	15.53%	15.64%	15.59%	15.59%	16.73%	15.56%	15.56%	15.42%	15.30%	15.75%	15.71%
Simple Cycle Plant Charge Rate (level current \$)		13.06%	13.08%	13.10%	13.10%	13.14%	13.12%	13.12%	13.57%	13.12%	13.12%	13.06%	13.01%	13.18%	13.17%
NOx Emission Reduction Credit Multiplier		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	0.00
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	\$15,000

Simple Cycle - Technology by Site

Location No.	Base	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Nominal Capital \$MM for 2018 CO</i>															
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		\$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
<i>Annual Fixed O&M Cost (2018 \$MM /yr)</i>															
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)		\$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
<i>Variable O&M Cost (2018 \$/MWh)</i>															
<i>On Natural Gas Fuel</i>															
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		\$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		\$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
<i>On Liquid Fuel</i>															
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		\$0.26	\$0.26	\$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	\$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 - Liquid Fuel		\$6.51	\$6.51	\$6.54	\$6.54	\$6.44	\$6.47	\$6.44	\$6.61	\$6.59	\$6.55	\$6.48	\$4.47	\$4.46	\$4.34

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

Simple Cycle - Technology by Site

Location No.	Base
	PPA
	Site

1	2	3	4	5	6	7	8	9	10	11	12	13	14
ISONE							NYISO				MISO		
Central CT	SW CT	Cape Cod	SE MA	Maine	New Hampshire	Vermont	NYC	Long Island	Lower Hudson Valley	Capital District	Upper Peninsula	Twin Cities	Southern Illinois

Fuel Assurance Cost Comparison

(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
<i>Dual-Fuel Capability</i>	\$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

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
Location Name	Dominion 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
City/Town	Arlington	Washington	Baltimore	Wilmington	Philadelphia	Newark	Trenton	na	na	New Johnsonville	Summer Shade	Toronto	Greater Napanee
NOx Non-Attainment Status	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	TRUE 2xLMS100 w/SCR	FALSE 2x7FA w/o SCR	FALSE 2x7FA w/o SCR	FALSE 2x7FA w/o SCR	FALSE 2x7FA w/o SCR	FALSE 2x7FA w/o SCR
Simple Cycle Technology Selection													
Adjusted Performance Data													
Summer Installed Capacity (MW)	201	201	201	201	201	201	201	414	414	414	414	414	414
Winter Output on NG (MW)	224	224	224	224	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%	7.00%	5.50%	9.25%	9.75%	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

Location No.	15	16	17	18	19	20	21	22	23	24	25	26	27
<i>Nominal Capital \$MM for 2018 CO</i>													
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
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
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 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
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
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
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
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
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
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	\$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
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)
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
(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	\$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
Sales tax on equipment and materials	\$0.231	\$0.221	\$0.258	\$0.000	\$0.312	\$0.270	\$0.270	\$0.429	\$0.824	\$0.868	\$0.471	\$1.021	\$1.021
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
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
Development Cost	\$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
Mobilization & Startup	\$0.054	\$0.055	\$0.064	\$0.052	\$0.057	\$0.055	\$0.055	\$0.128	\$0.154	\$0.155	\$0.132	\$0.159	\$0.156
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
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
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
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 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
Total Installed Cost	\$9.194	\$9.188	\$10.220	\$8.899	\$9.456	\$9.289	\$9.326	\$21.608	\$24.533	\$24.539	\$22.159	\$25.458	\$25.313
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	\$53.52	\$61.49	\$61.14
<i>Annual Fixed O&M Cost (2018 \$MM /yr)</i>													
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
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
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
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)
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
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
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
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
<i>Variable O&M Cost (2018 \$/MWh)</i>													
<i>On Natural Gas Fuel</i>													
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
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
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 - 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
<i>On Liquid Fuel</i>													
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
Major Maintenance Labor	\$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
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
<i>Dual-Fuel Capability</i>	\$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