

Bulk Power Cost Model with Indian River Shores 2016-2043 (expiration of St. Lucie Contract)

		FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	
System Load Data																														
Retail sales growth rate		0.50%																												
Winter Peak	MW	175	176	177	178	179	179	180	181	182	183	184	185	186	187	188	189	190	191	192	192	193	194	195	196	197	198	199	200	
Summer Peak	MW	161	162	163	164	165	165	166	167	168	169	170	171	171	172	173	174	175	176	177	177	178	179	180	181	182	183	184	185	
Annual Pk adj for Non-Firm Load	MW	165	166	167	168	169	169	170	171	172	173	174	175	176	177	178	179	180	181	182	182	183	184	185	186	187	188	189	190	
Average Peak	MW	140.3	141.0	141.8	142.5	143.2	144.0	144.7	145.5	146.2	147.0	147.7	148.5	149.3	150.0	150.8	151.6	152.4	153.2	154.0	154.8	155.6	156.4	157.2	158.0	158.8	159.6	160.4	161.3	
NEL	MW-Hrs	751,475	755,232	759,008	762,803	766,617	770,450	774,303	778,174	782,065	785,975	789,905	793,855	797,824	801,813	805,822	809,851	813,901	817,970	822,060	826,170	830,301	834,453	838,625	842,818	847,032	851,267	855,524	859,801	
Sys Load Factor	%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	49.0%	
Retail Sales	kW-Hrs	717,658,440	721,246,732	724,852,966	728,477,231	732,119,617	735,780,215	739,459,116	743,156,412	746,872,194	750,606,555	754,359,587	758,131,385	761,922,042	765,731,652	769,560,311	773,408,112	777,275,153	781,161,529	785,067,336	788,992,673	792,937,636	796,902,324	800,886,836	804,891,270	808,915,727	812,960,305	817,025,107	821,110,232	
System Losses	%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	
Production Model																														
Global Inputs																														
OUC Transmission Losses	%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	
FPL Transmission Losses	%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	1.85%	
Nat Gas Prices Low Forecast	\$/M2BTU	\$3.29	\$3.49	\$3.68	\$3.91	\$4.07	\$4.19	\$4.30	\$4.39	\$4.48	\$4.56	\$4.66	\$4.78	\$4.90	\$5.03	\$5.18	\$5.34	\$5.50	\$5.66	\$5.83	\$6.01	\$6.19	\$6.37	\$6.56	\$6.76	\$6.96	\$7.17	\$7.39	\$7.61	
Gas Transportation	\$/M ² BTU	\$0.95	\$0.98	\$1.01	\$1.04	\$1.07	\$1.10	\$1.13	\$1.17	\$1.20	\$1.24	\$1.28	\$1.32	\$1.35	\$1.40	\$1.44	\$1.48	\$1.52	\$1.57	\$1.62	\$1.67	\$1.72	\$1.77	\$1.82	\$1.87	\$1.93	\$1.99	\$2.05	\$2.11	
Stn 1 & 2 Coal Price Delivered	\$/MW-hr	\$41.41	\$42.94	\$42.84	\$44.68	\$46.72	\$48.96	\$51.31	\$53.86	\$56.41	\$59.16	\$62.02	\$65.08	\$68.14	\$71.50	\$73.65	\$75.86	\$78.13	\$80.48	\$82.89	\$85.38	\$87.94	\$90.58	\$93.29	\$96.09	\$98.98	\$101.94	\$105.00	\$108.15	
Retail System Fuel at Gen	\$/MW-hr	\$33.79	\$35.38	\$36.47	\$38.32	\$39.90	\$41.36	\$42.76	\$44.19	\$45.55	\$46.96	\$48.50	\$50.23	\$51.98	\$53.84	\$55.45	\$57.12	\$58.83	\$60.60	\$62.42	\$64.29	\$66.22	\$68.20	\$70.25	\$72.36	\$74.53	\$76.76	\$79.07	\$81.44	
FMPA Contracts (St. Lucie, Stanton & Stanton 2)																														
Capacity	MW	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
Delivered Energy	MW-Hrs	304,418	304,418	304,418	304,418	304,418	304,418	304,418	304,418	304,418	304,418	304,418	175,287	175,287	175,287	175,288	175,289	175,290	175,291	175,292	175,293	175,293	112,347	112,347	112,347	112,347	112,347	112,347	112,347	
Total Project Costs	\$	\$25,327,578	\$25,747,674	\$25,647,217	\$25,778,116	\$23,284,933	\$23,750,631	\$24,225,644	\$24,710,157	\$25,204,360	\$25,708,447	\$26,222,616	\$15,401,236	\$15,709,261	\$16,023,446	\$16,344,008	\$16,670,983	\$17,004,500	\$17,344,689	\$17,691,684	\$18,045,620	\$18,406,533	\$12,032,865	\$12,273,523	\$12,518,993	\$12,769,373	\$13,024,761	\$13,285,256	\$13,550,961	
Projected Cost	\$/MW-Hr	\$83.20	\$84.58	\$84.25	\$84.68	\$76.49	\$78.02	\$79.58	\$81.17	\$82.80	\$84.45	\$86.14	\$87.86	\$89.62	\$91.41	\$93.24	\$95.11	\$97.01	\$98.95	\$100.93	\$102.95	\$105.00	\$107.10	\$109.25	\$111.43	\$113.66	\$115.93	\$118.25	\$120.62	
OUC Revised Contract (VB Offer)																														
Demand Rate Oct-Dec	MW	\$8,331	\$8,331	\$8,851	\$10,885	\$10,930	\$10,951	\$10,986	\$11,007	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	\$11,038	
Demand Rate Jan-Sep	MW	\$8,331	\$8,851	\$10,885	\$10,930	\$10,951	\$10,986	\$11,007	\$11,038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Demand Billing Determinant Oct-Dec	MW	84	85	86	87	88	89	90	91	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
Demand Billing Determinant Jan-Sep	MW	85	86	87	88	89	90	91	92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Fuel Price	\$/MW-Hr	\$33.79	\$35.38	\$36.47	\$38.32	\$39.90	\$41.36	\$42.76	\$44.19	\$45.55	\$46.96	\$48.50	\$50.23	\$51.98	\$53.84	\$55.45	\$57.12	\$58.83	\$60.60	\$62.42	\$64.29	\$66.22	\$68.20	\$70.25	\$72.36	\$74.53	\$76.76	\$79.07	\$81.44	
Energy Delivered	MW-Hrs	437,596	441,353	445,130	448,925	452,739	456,572	460,424	464,295	468,195	472,124	476,099	480,109	484,154	488,234	492,348	496,496	500,678	504,894	509,144	513,428	517,746	522,098	526,484	530,904	535,358	539,846	544,368	548,924	
Demand Charges	\$	\$8,632,325	\$9,144,248	\$11,010,202	\$11,714,259	\$11,876,995	\$12,045,417	\$12,206,778	\$12,373,281	\$12,544,917	\$12,721,695	\$12,903,625	\$13,090,717	\$13,282,971	\$13,480,399	\$13,682,991	\$13,890,747	\$14,103,667	\$14,321,751	\$14,545,000	\$14,773,414	\$15,006,993	\$15,245,737	\$15,489,637	\$15,738,693	\$15,992,905	\$16,252,273	\$16,516,807	\$16,786,507	
Energy Charges	\$	\$15,067,061	\$15,908,795	\$16,540,800	\$17,525,488	\$18,405,508	\$19,241,882	\$20,057,400	\$20,903,007	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042	\$4,861,042
Total Cost	\$	\$23,699,386	\$25,053,043	\$27,551,002	\$29,239,747	\$30,282,504	\$31,287,299	\$32,264,179	\$33,276,287	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953	\$7,964,953
	\$/MW-Hr	\$54.16	\$56.76	\$61.89	\$65.13	\$66.89	\$68.53	\$70.07	\$71.67	\$73.27	\$74.92	\$76.61	\$78.34	\$80.11	\$81.92	\$83.77	\$85.66	\$87.58	\$89.54	\$91.54	\$93.57	\$95.63	\$97.72	\$99.84	\$101.99	\$104.17	\$106.38	\$108.62	\$110.89	
OUC Peaking Proposal (VB Offer)																														
Demand Rate Oct-Dec	MW	\$5,566	\$5,566	\$5,836	\$6,105	\$6,625	\$7,146	\$7,666	\$8,187	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	
Demand Rate Jan-Sep	MW	\$5,566	\$5,836	\$6,105	\$6,625	\$7,146	\$7,666	\$8,187	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	\$8,708	
Contract Capacity	BTU/kW-hr	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
Capacity Factor	%	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%	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%	
Fuel Price	\$/MW-Hr	\$53.76	\$56.33	\$58.89	\$61.85	\$64.07	\$66.87	\$69.44	\$71.88	\$74.20	\$76																			