



REDACTED

William P. Cox
Senior Attorney
Florida Power & Light Company
700 Universe Boulevard
Juno Beach, FL 33408-0420
(561) 304-5662
(561) 691-7135 (Facsimile)
January 29, 2013

VIA HAND DELIVERY

Ms. Ann Cole
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

claim of confidentiality
 notice of intent
 request for confidentiality
 filed by OPC

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is in locked storage. You must be
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COMMISSION
CLERK

Re: Notice of Intent - Docket No. 120314-EQ

Dear Ms. Cole:

Enclosed for filing on behalf of Florida Power & Light Company are an original and five (5) copies of FPL's responses to Staff's First Data Request. As requested, FPL is providing the responses in electronic format and hard copies. In addition, FPL is also filing a Notice of Intent to Request Confidential Classification of documents produced in FPL's response to Staff's First Data Request Nos. 6, 7, and 8. The confidential documents have been separated and marked "Confidential" on both the electronic and hard copies included with this filing.

Please contact me if you and your staff have any questions regarding this filing.

Sincerely,

William P. Cox

Enclosures

cc: Pauline E. Robinson, Attorney

COM _____
AFD _____
APA _____
ECO | _____
ENG (2+CD) _____
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TEL _____
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DOCUMENT NUMBER-DATE
00563 JAN 29 2013
FPSC-COMMISSION CLERK

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

In re: Petition for approval of negotiated renewable energy contracts with U.S. EcoGen Okeechobee, LLC, U.S. EcoGen Clay, LLC, and U.S. EcoGen Martin, LLC, by Florida Power & Light Company

Docket No. 120314-EQ
January 29, 2013

**FLORIDA POWER & LIGHT COMPANY'S
NOTICE OF INTENT TO REQUEST CONFIDENTIAL CLASSIFICATION**

Pursuant to Florida Administrative Code Rule 25-22.006(3)(a), Florida Power & Light Company ("FPL") files this Notice of Intent to Request Confidential Classification ("Notice"). This Notice relates to FPL's responses to Staff's First Data Request Nos. 6, 7, and 8 in this docket.

This information is intended to be and has been treated by FPL as private and confidential and has not been publicly disclosed. A compact disc containing FPL's confidential responses to Staff's First Data Request is enclosed in the envelope labeled "**ATTACHMENT 1 – CONFIDENTIAL INFORMATION.**"

FPL, pursuant to Rule 25-22.006(3)(a) and (d), requests confidential handling of all materials furnished in response to the above stated request.

Respectfully submitted this 29th day of January 2013.

William P. Cox, Esq.
Senior Attorney
Florida Power & Light Company
700 Universe Boulevard
Juno Beach, FL 33408
Telephone: (561) 304-5662
Facsimile: (561) 691-7135

By: 
bx

William P. Cox
Fla. Bar No. 0093531

DOCUMENT NUMBER-DATE
00563 JAN 29 2013
FPSC-COMMISSION CLERK

**CERTIFICATE OF SERVICE
DOCKET NO. 120015-EI**

I HEREBY CERTIFY that a true and correct copy of this Notice of Intent (without attachment) was served via hand delivery and electronically this 29th day of January 2013, to the following:

Pauline E. Robinson, Esquire
Office of the General Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-1400
parobins@psc.state.fl.us

By: 
William P. Cox

Q.

Please provide an electronic (.xls) copy of Appendix E/Exhibit TLH-1.

A.

See Attachment No. 1 for an electronic (.xls) copy of the requested Excel spreadsheet.

Appendix E: FPL System Cost Including EcoGen PPA

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	USEcoGen Capacity and Energy Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	2,331	99	-7	0	2,423	2,424	2,424	2,424
2013	0.932	0	0	0	0	0	0	0	1	1	2,530	105	-13	0	2,622	2,624	2,445	4,869
2014	0.869	0	0	0	0	0	0	0	1	1	2,830	114	-14	0	2,930	2,931	2,546	7,415
2015	0.810	0	0	0	0	0	0	0	1	1	3,161	124	-11	0	3,274	3,275	2,652	10,067
2016	0.755	115	3	6	16	252	0	0	11	404	3,366	126	-9	0	3,483	3,887	2,933	13,000
2017	0.703	192	5	10	29	274	0	0	3	515	3,705	127	-9	0	3,823	4,338	3,051	16,051
2018	0.656	185	5	11	30	274	0	0	3	508	4,226	133	-9	0	4,350	4,858	3,185	19,236
2019	0.611	179	5	11	31	274	0	88	3	591	4,554	138	-9	0	4,683	5,273	3,222	22,459
2020	0.570	172	5	11	32	413	0	98	3	734	4,937	145	-10	0	5,072	5,806	3,307	25,766
2021	0.531	166	5	12	33	426	0	100	3	743	5,402	148	-9	0	5,541	6,284	3,336	29,101
2022	0.495	159	4	12	34	426	0	101	6	742	5,489	153	-10	0	5,632	6,374	3,154	32,255
2023	0.461	153	4	12	35	426	0	104	3	737	5,499	158	353	0	6,010	6,747	3,111	35,367
2024	0.430	147	4	12	36	426	0	105	3	734	5,825	166	413	0	6,404	7,138	3,068	38,435
2025	0.401	296	15	20	58	426	0	107	7	929	6,141	176	462	0	6,779	7,709	3,088	41,523
2026	0.373	473	22	30	87	426	0	109	3	1,150	6,519	189	536	0	7,244	8,394	3,134	44,657
2027	0.348	593	21	37	109	426	0	110	3	1,300	6,994	198	636	0	7,828	9,128	3,177	47,834
2028	0.324	712	21	45	132	426	0	112	4	1,451	7,248	206	724	0	8,178	9,630	3,124	50,957
2029	0.302	830	20	53	157	426	0	113	4	1,604	7,648	215	844	0	8,707	10,311	3,117	54,075
2030	0.282	949	19	62	183	426	0	115	8	1,762	8,160	227	997	0	9,384	11,146	3,141	57,216
2031	0.263	1,067	18	71	211	426	0	117	4	1,914	8,567	238	1,137	0	9,942	11,855	3,114	60,329
2032	0.245	1,376	18	89	266	426	0	119	4	2,297	9,193	248	1,339	0	10,780	13,077	3,201	63,531
2033	0.228	1,719	17	110	330	426	0	120	4	2,726	10,304	277	1,653	0	12,234	14,961	3,414	66,944
2034	0.213	1,891	16	124	374	426	0	122	4	2,957	10,879	303	1,897	0	13,079	16,037	3,410	70,355
2035	0.198	2,095	16	140	425	426	0	124	4	3,230	11,409	325	2,141	0	13,875	17,104	3,390	73,745
2036	0.185	2,480	15	165	503	426	0	126	4	3,720	12,452	365	2,539	0	15,356	19,076	3,524	77,269
2037	0.172	2,720	14	185	567	426	0	128	7	4,047	13,050	386	2,840	0	16,276	20,324	3,500	80,769
2038	0.160	2,806	14	198	611	426	0	130	5	4,189	13,701	406	3,191	0	17,298	21,487	3,449	84,217
2039	0.150	2,892	13	212	657	426	0	132	5	4,337	14,384	433	3,551	0	18,368	22,705	3,396	87,614
2040	0.139	2,979	12	227	705	426	0	135	8	4,492	14,953	456	3,899	0	19,308	23,800	3,318	90,932
2041	0.130	3,192	12	247	773	426	0	137	5	4,792	15,636	481	4,361	0	20,478	25,270	3,284	94,216
2042	0.121	3,363	11	267	839	426	0	139	5	5,052	16,367	505	4,866	0	21,738	26,790	3,245	97,461
2043	0.113	3,708	11	295	933	426	0	142	5	5,520	17,369	535	5,541	0	23,445	28,965	3,270	100,731
2044	0.105	3,966	11	322	1,020	426	0	144	5	5,893	18,214	562	6,212	0	24,988	30,881	3,249	103,980
2045	0.098	4,172	10	346	1,103	426	0	147	5	6,210	18,884	590	6,865	0	26,339	32,549	3,192	107,172
2046	0.091	4,309	10	370	1,185	426	0	149	6	6,454	19,602	616	7,613	0	27,831	34,285	3,134	110,306
2047	0.085	4,504	10	396	1,276	426	0	152	6	6,770	20,339	642	8,425	0	29,406	36,176	3,082	113,388
2048	0.079	4,672	9	422	1,366	426	0	155	0	7,050	21,110	675	9,312	0	31,097	38,148	3,029	116,417
2049	0.074	4,892	9	451	1,466	426	0	158	0	7,401	21,897	702	10,277	0	32,876	40,278	2,981	119,398
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119,398
1 Total NPV =		\$9,732	\$103	\$712	\$2,192	\$3,862	\$0	\$904	\$50	\$17,555	\$87,108	\$2,699	\$12,036	\$0	\$101,843	\$119,398	USEcoGen	
2 Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$87,960	\$2,706	\$12,151	\$0	\$102,818	\$119,565	W/O USEcoGen	
CPVRR of Contracts =		(\$73)	\$0	(\$5)	(\$15)	\$0	\$0	\$904	(\$3)	\$808	(\$853)	(\$6)	(\$116)		(\$975)	(\$167)		

Appendix E: FPL System Cost Without EcoGen PPA

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	Misc System Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	2,331	99	-7	0	2,423	2,424	2,424	2,424
2013	0.932	0	0	0	0	0	0	0	1	1	2,530	105	-13	0	2,622	2,624	2,445	4,869
2014	0.869	0	0	0	0	0	0	0	1	1	2,830	114	-14	0	2,930	2,931	2,546	7,415
2015	0.810	0	0	0	0	0	0	0	1	1	3,161	124	-11	0	3,274	3,275	2,652	10,067
2016	0.755	115	3	6	16	252	0	0	11	404	3,366	126	-9	0	3,483	3,887	2,933	13,000
2017	0.703	192	5	10	29	274	0	0	3	515	3,705	127	-9	0	3,823	4,338	3,051	16,051
2018	0.656	185	5	11	30	274	0	0	3	508	4,226	133	-9	0	4,350	4,858	3,185	19,236
2019	0.611	179	5	11	31	274	0	0	3	503	4,625	138	-9	0	4,754	5,256	3,212	22,448
2020	0.570	172	5	11	32	413	0	0	3	636	5,021	146	-9	0	5,158	5,793	3,300	25,748
2021	0.531	166	5	12	33	426	0	0	3	643	5,488	148	-9	0	5,627	6,270	3,329	29,076
2022	0.495	159	4	12	34	426	0	0	6	641	5,583	153	-10	0	5,726	6,367	3,150	32,227
2023	0.461	153	4	12	35	426	0	0	3	634	5,591	158	358	0	6,107	6,741	3,109	35,336
2024	0.430	147	4	12	36	426	0	0	3	629	5,920	167	419	0	6,506	7,135	3,067	38,403
2025	0.401	296	15	20	58	426	0	0	7	822	6,241	177	470	0	6,888	7,710	3,089	41,491
2026	0.373	473	22	30	87	426	0	0	3	1,041	6,621	188	544	0	7,353	8,394	3,134	44,626
2027	0.348	593	21	37	109	426	0	0	3	1,190	7,102	199	645	0	7,946	9,136	3,179	47,805
2028	0.324	712	21	45	132	426	0	0	4	1,339	7,357	206	735	0	8,298	9,637	3,126	50,931
2029	0.302	830	20	53	157	426	0	0	4	1,490	7,759	216	855	0	8,830	10,320	3,120	54,051
2030	0.282	949	19	62	183	426	0	0	19	1,658	8,273	228	1,011	0	9,512	11,170	3,148	57,199
2031	0.263	1,067	18	71	211	426	0	0	4	1,797	8,684	240	1,152	0	10,076	11,873	3,118	60,317
2032	0.245	1,376	18	89	266	426	0	0	4	2,178	9,314	250	1,356	0	10,920	13,098	3,206	63,524
2033	0.228	1,719	17	110	330	426	0	0	4	2,606	10,428	278	1,672	0	12,378	14,984	3,419	66,942
2034	0.213	1,991	16	129	388	426	0	0	4	2,955	10,979	304	1,913	0	13,196	16,151	3,435	70,377
2035	0.198	2,159	16	143	435	426	0	0	4	3,184	11,531	326	2,160	0	14,017	17,200	3,409	73,787
2036	0.185	2,469	15	165	503	426	0	0	4	3,583	12,585	367	2,562	0	15,514	19,097	3,528	77,315
2037	0.172	2,709	14	185	567	426	0	0	7	3,908	13,184	389	2,867	0	16,440	20,349	3,504	80,819
2038	0.160	2,795	14	198	611	426	0	0	5	4,048	13,836	408	3,222	0	17,466	21,514	3,453	84,271
2039	0.150	2,882	13	212	657	426	0	0	5	4,194	14,523	435	3,586	0	18,544	22,738	3,401	87,673
2040	0.139	3,090	12	232	722	426	0	0	8	4,490	15,069	456	3,929	0	19,454	23,944	3,338	91,011
2041	0.130	3,259	12	251	785	426	0	0	5	4,738	15,772	483	4,396	0	20,651	25,389	3,299	94,311
2042	0.121	3,341	11	267	839	426	0	0	5	4,890	16,514	507	4,912	0	21,933	26,823	3,249	97,559
2043	0.113	3,686	11	295	933	426	0	0	5	5,357	17,517	536	5,591	0	23,644	29,001	3,274	100,833
2044	0.105	4,080	11	327	1,039	426	0	0	5	5,888	18,343	564	6,253	0	25,160	31,048	3,267	104,100
2045	0.098	4,238	10	350	1,117	426	0	0	5	6,147	19,023	592	6,920	0	26,535	32,682	3,205	107,305
2046	0.091	4,274	10	370	1,185	426	0	0	6	6,270	19,759	617	7,677	0	28,053	34,323	3,137	110,443
2047	0.085	4,470	10	396	1,276	426	0	0	6	6,584	20,503	645	8,492	0	29,640	36,224	3,086	113,529
2048	0.079	4,791	9	429	1,387	426	0	0	0	7,043	21,240	673	9,371	0	31,284	38,327	3,043	116,572
2049	0.074	4,956	9	456	1,482	426	0	0	0	7,329	22,045	704	10,356	0	33,105	40,434	2,993	119,565
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119,565	2050
Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$87,960	\$2,706	\$12,151	\$0	\$102,818	\$119,565		

Q.

Please provide two alternative versions of the cost-effectiveness analysis performed in Appendix E/Exhibit TLH-1, using a low fuel cost scenario and a high fuel cost scenario.

A.

See Attachment No. 1 to this data request.

FPL System Cost Including EcoGen PPA - Baseline Fuel

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	USEcoGen Capacity and Energy Costs (Millions)	Misc Unit Costs (Millions)	Total Pivotal Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	2,331	99	-7	0	2,423	2,424	2,424	2,424
2013	0.932	0	0	0	0	0	0	0	1	1	2,530	105	-13	0	2,622	2,624	2,445	4,869
2014	0.869	0	0	0	0	0	0	0	1	1	2,830	114	-14	0	2,930	2,931	2,546	7,415
2015	0.810	0	0	0	0	0	0	0	1	1	3,161	124	-11	0	3,274	3,275	2,652	10,067
2016	0.755	115	3	6	16	252	0	11	404	3,366	126	-9	0	3,483	3,887	2,933	13,000	
2017	0.703	192	5	10	29	274	0	3	515	3,705	127	-9	0	3,823	4,338	3,051	16,051	
2018	0.656	185	5	11	30	274	0	3	508	4,226	133	-9	0	4,350	4,858	3,185	19,236	
2019	0.611	179	5	11	31	274	0	3	591	4,554	138	-9	0	4,683	5,273	3,222	22,459	
2020	0.570	172	5	11	32	413	0	3	734	4,937	145	-10	0	5,072	5,806	3,307	25,766	
2021	0.531	166	5	12	33	426	0	3	743	5,402	148	-9	0	5,541	6,284	3,336	29,101	
2022	0.495	159	4	12	34	426	0	6	742	5,489	153	-10	0	5,632	6,374	3,154	32,255	
2023	0.461	153	4	12	35	426	0	104	737	5,499	158	353	0	6,010	6,747	3,111	35,367	
2024	0.430	147	4	12	36	426	0	105	734	5,825	166	413	0	6,404	7,138	3,068	38,435	
2025	0.401	296	15	20	58	426	0	107	929	6,141	176	462	0	6,779	7,709	3,088	41,523	
2026	0.373	473	22	30	87	426	0	109	3	1,150	6,519	189	536	0	7,244	8,394	3,134	44,657
2027	0.348	593	21	37	109	426	0	110	3	1,300	6,994	198	636	0	7,828	9,128	3,177	47,834
2028	0.324	712	21	45	132	426	0	112	4	1,451	7,248	206	724	0	8,178	9,630	3,124	50,957
2029	0.302	830	20	53	157	426	0	113	4	1,604	7,648	215	844	0	8,707	10,311	3,117	54,075
2030	0.282	949	19	62	183	426	0	115	8	1,762	8,160	227	997	0	9,384	11,146	3,141	57,216
2031	0.263	1,067	18	71	211	426	0	117	4	1,914	8,367	238	1,137	0	9,942	11,855	3,114	60,329
2032	0.245	1,376	18	89	266	426	0	119	4	2,297	9,193	248	1,339	0	10,780	13,077	3,201	63,531
2033	0.228	1,719	17	110	330	426	0	120	4	2,726	10,304	277	1,653	0	12,234	14,961	3,414	66,944
2034	0.213	1,891	16	124	374	426	0	122	4	2,957	10,879	303	1,897	0	13,079	16,037	3,410	70,355
2035	0.198	2,095	16	140	425	426	0	124	4	3,230	11,409	325	2,141	0	13,875	17,104	3,390	73,745
2036	0.185	2,480	15	165	503	426	0	126	4	3,720	12,452	365	2,539	0	15,356	19,076	3,524	77,269
2037	0.172	2,720	14	185	567	426	0	128	7	4,047	13,050	386	2,840	0	16,276	20,324	3,500	80,769
2038	0.160	2,806	14	198	611	426	0	130	5	4,189	13,701	406	3,191	0	17,298	21,487	3,449	84,217
2039	0.150	2,892	13	212	657	426	0	132	5	4,337	14,384	433	3,551	0	18,368	22,705	3,396	87,614
2040	0.139	2,979	12	227	705	426	0	135	8	4,492	14,953	456	3,899	0	19,308	23,800	3,318	90,932
2041	0.130	3,192	12	247	773	426	0	137	5	4,792	15,636	481	4,361	0	20,478	25,270	3,284	94,216
2042	0.121	3,363	11	267	839	426	0	139	5	5,052	16,367	505	4,866	0	21,738	26,790	3,245	97,461
2043	0.113	3,708	11	295	933	426	0	142	5	5,520	17,369	535	5,541	0	23,445	28,965	3,270	100,731
2044	0.105	3,966	11	322	1,020	426	0	144	5	5,893	18,214	562	6,212	0	24,988	30,881	3,249	103,980
2045	0.098	4,172	10	346	1,103	426	0	147	5	6,210	18,884	590	6,865	0	26,339	32,549	3,192	107,172
2046	0.091	4,309	10	370	1,185	426	0	149	6	6,454	19,602	616	7,613	0	27,831	34,285	3,134	110,306
2047	0.085	4,504	10	396	1,276	426	0	152	6	6,770	20,339	642	8,425	0	29,406	36,176	3,082	113,388
2048	0.079	4,672	9	422	1,366	426	0	155	0	7,050	21,110	675	9,312	0	31,097	38,148	3,029	116,417
2049	0.074	4,892	9	451	1,466	426	0	158	0	7,401	21,897	702	10,277	0	32,876	40,278	2,981	119,398
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119,398
[1] Total NPV =		\$9,732	\$103	\$712	\$2,192	\$3,862	\$0	\$904	\$50	\$17,555	\$87,108	\$2,699	\$12,036	\$0	\$101,843	\$119,398		USEcoGen
[2] Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$87,960	\$2,706	\$12,151	\$0	\$102,818	\$119,565		W/O USEcoGen
CPVRR of Contracts =		(\$73)	\$0	(\$5)	(\$15)	\$0	\$0	\$904	(\$3)	\$808	(\$853)	(\$6)	(\$116)		(\$975)	(\$167)		

FPL System Cost Without EcoGen PPA - Baseline Fuel

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	Misc System Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	+ VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.090	0	0	0	0	0	0	0	1	1	2,331	99	-7	0	2,423	2,424	2,424	2,424
2013	0.932	0	0	0	0	0	0	0	1	1	2,530	105	-13	0	2,622	2,624	2,445	4,869
2014	0.869	0	0	0	0	0	0	0	1	1	2,830	114	-14	0	2,930	2,931	2,546	7,415
2015	0.810	0	0	0	0	0	0	0	1	1	3,161	124	-11	0	3,274	3,275	2,652	10,067
2016	0.755	115	3	6	16	252	0	0	11	404	3,366	126	-9	0	3,483	3,887	2,933	13,000
2017	0.703	192	5	10	29	274	0	0	3	515	3,705	127	-9	0	3,823	4,338	3,051	16,051
2018	0.656	185	5	11	30	274	0	0	3	508	4,226	133	-9	0	4,350	4,858	3,185	19,236
2019	0.611	179	5	11	31	274	0	0	3	503	4,625	138	-9	0	4,754	5,256	3,212	22,448
2020	0.570	172	5	11	32	413	0	0	3	636	5,021	146	-9	0	5,158	5,793	3,300	25,748
2021	0.531	166	5	12	33	426	0	0	3	643	5,488	148	-9	0	5,627	6,270	3,329	29,076
2022	0.495	159	4	12	34	426	0	0	6	641	5,583	153	-10	0	5,726	6,367	3,150	32,227
2023	0.461	153	4	12	35	426	0	0	3	634	5,591	158	358	0	6,107	6,741	3,109	35,336
2024	0.430	147	4	12	36	426	0	0	3	629	5,920	167	419	0	6,506	7,135	3,067	38,403
2025	0.401	296	15	20	58	426	0	0	7	822	6,241	177	470	0	6,888	7,710	3,089	41,491
2026	0.373	473	22	30	87	426	0	0	3	1,041	6,621	188	544	0	7,353	8,394	3,134	44,626
2027	0.348	593	21	37	109	426	0	0	3	1,190	7,102	199	645	0	7,946	9,136	3,179	47,805
2028	0.324	712	21	45	132	426	0	0	4	1,339	7,357	206	735	0	8,298	9,637	3,126	50,931
2029	0.302	830	20	53	157	426	0	0	4	1,490	7,759	216	855	0	8,830	10,320	3,120	54,051
2030	0.282	949	19	62	183	426	0	0	19	1,658	8,273	228	1,011	0	9,512	11,170	3,148	57,199
2031	0.263	1,067	18	71	211	426	0	0	4	1,797	8,684	240	1,152	0	10,076	11,873	3,118	60,317
2032	0.245	1,376	18	89	266	426	0	0	4	2,178	9,314	250	1,356	0	10,920	13,098	3,206	63,524
2033	0.228	1,719	17	110	330	426	0	0	4	2,606	10,428	278	1,672	0	12,378	14,984	3,419	66,942
2034	0.213	1,991	16	129	388	426	0	0	4	2,955	10,979	304	1,913	0	13,196	16,151	3,435	70,377
2035	0.198	2,159	16	143	435	426	0	0	4	3,184	11,531	326	2,160	0	14,017	17,200	3,409	73,787
2036	0.185	2,469	15	165	503	426	0	0	4	3,583	12,585	367	2,562	0	15,514	19,097	3,528	77,315
2037	0.172	2,709	14	185	567	426	0	0	7	3,908	13,184	389	2,867	0	16,440	20,349	3,504	80,819
2038	0.160	2,795	14	198	611	426	0	0	5	4,048	13,836	408	3,222	0	17,466	21,514	3,453	84,271
2039	0.150	2,882	13	212	657	426	0	0	5	4,194	14,523	435	3,586	0	18,544	22,738	3,401	87,673
2040	0.139	3,090	12	232	722	426	0	0	8	4,490	15,069	456	3,929	0	19,454	23,944	3,338	91,011
2041	0.130	3,259	12	251	785	426	0	0	5	4,738	15,772	483	4,396	0	20,651	25,389	3,299	94,311
2042	0.121	3,341	11	267	839	426	0	0	5	4,890	16,514	507	4,912	0	21,933	26,823	3,249	97,559
2043	0.113	3,686	11	295	933	426	0	0	5	5,357	17,517	536	5,591	0	23,644	29,001	3,274	100,833
2044	0.105	4,080	11	327	1,039	426	0	0	5	5,888	18,343	564	6,253	0	25,160	31,048	3,267	104,100
2045	0.098	4,238	10	350	1,117	426	0	0	5	6,147	19,023	592	6,920	0	26,535	32,682	3,205	107,305
2046	0.091	4,274	10	370	1,185	426	0	0	6	6,270	19,759	617	7,677	0	28,053	34,323	3,137	110,443
2047	0.085	4,470	10	396	1,276	426	0	0	6	6,584	20,503	645	8,492	0	29,640	36,224	3,086	113,529
2048	0.079	4,791	9	429	1,387	426	0	0	0	7,043	21,240	673	9,371	0	31,284	38,327	3,043	116,572
2049	0.074	4,956	9	456	1,482	426	0	0	0	7,329	22,045	704	10,356	0	33,105	40,434	2,993	119,565
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119,565
Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$87,960	\$2,706	\$12,151	\$0	\$102,818	\$119,565		

FPL System Cost Including EcoGen PPA - High Fuel

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	USEcoGen Capacity and Energy Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	2,811	99	-7	0	2,903	2,904	2,904	2,904
2013	0.932	0	0	0	0	0	0	0	1	1	3,034	104	-12	0	3,126	3,127	2,914	5,818
2014	0.869	0	0	0	0	0	0	0	1	1	3,396	114	-14	0	3,496	3,497	3,038	8,856
2015	0.810	0	0	0	0	0	0	0	1	1	3,798	123	-11	0	3,910	3,911	3,167	12,023
2016	0.755	115	5	6	16	252	0	0	11	404	4,043	125	-9	0	4,159	4,563	3,444	15,466
2017	0.703	192	5	10	29	274	0	0	3	515	4,444	128	-9	0	4,563	5,078	3,572	19,038
2018	0.656	185	5	11	30	274	0	0	3	508	5,080	133	-9	0	5,204	5,712	3,745	22,783
2019	0.611	179	5	11	31	274	0	88	3	591	5,471	138	-10	0	5,599	6,190	3,783	26,565
2020	0.570	172	5	11	32	415	0	98	3	734	5,935	145	-10	0	6,070	6,804	3,875	30,441
2021	0.531	166	5	12	33	426	0	100	3	743	6,498	148	-9	0	6,637	7,380	3,917	34,358
2022	0.495	159	4	12	34	426	0	101	6	742	6,597	153	-10	0	6,740	7,482	3,702	38,060
2023	0.461	153	4	12	35	426	0	104	3	737	6,599	157	354	0	7,110	7,847	3,619	41,679
2024	0.430	147	4	12	36	426	0	105	3	734	6,989	166	415	0	7,570	8,305	3,570	45,249
2025	0.401	296	15	20	58	426	0	107	7	929	7,369	176	466	0	8,011	8,941	3,582	48,831
2026	0.373	473	22	30	87	426	0	109	3	1,150	7,832	189	536	0	8,557	9,707	3,625	52,455
2027	0.348	593	21	37	109	426	0	110	3	1,300	8,408	198	636	0	9,242	10,542	3,669	56,124
2028	0.324	712	21	45	132	426	0	112	4	1,451	8,712	206	725	0	9,643	11,094	3,599	59,723
2029	0.302	830	20	53	157	426	0	113	4	1,604	9,193	215	845	0	10,253	11,857	3,585	63,308
2030	0.282	949	19	62	183	426	0	115	8	1,762	9,810	227	999	0	11,036	12,798	3,606	66,914
2031	0.263	1,067	18	71	211	426	0	117	4	1,914	10,295	239	1,139	0	11,673	13,587	3,569	70,482
2032	0.245	1,376	18	89	266	426	0	119	4	2,297	11,051	249	1,341	0	12,641	14,938	3,657	74,139
2033	0.228	1,719	17	110	330	426	0	120	4	2,726	12,404	277	1,655	0	14,336	17,062	3,893	78,032
2034	0.213	1,891	16	124	374	426	0	122	4	2,957	13,096	304	1,898	0	15,298	18,255	3,882	81,915
2035	0.198	2,095	16	140	425	426	0	124	4	3,230	13,729	325	2,145	0	16,199	19,429	3,851	85,766
2036	0.185	2,480	15	165	503	426	0	126	4	3,720	14,989	365	2,551	0	17,905	21,625	3,995	89,761
2037	0.172	2,720	14	185	567	426	0	128	7	4,047	15,681	387	2,877	0	18,945	22,992	3,959	93,720
2038	0.160	2,806	14	198	611	426	0	130	5	4,189	16,443	406	3,253	0	20,102	24,291	3,899	97,619
2039	0.150	2,892	13	212	657	426	0	132	5	4,337	17,234	433	3,646	0	21,313	25,650	3,837	101,456
2040	0.139	2,979	12	227	705	426	0	135	8	4,492	17,872	455	4,036	0	22,363	26,855	3,744	105,200
2041	0.130	3,192	12	247	773	426	0	137	5	4,792	18,700	481	4,501	0	23,682	28,473	3,700	108,900
2042	0.121	3,363	11	267	839	426	0	139	5	5,052	19,585	506	5,003	0	25,094	30,146	3,651	112,551
2043	0.113	3,708	11	295	933	426	0	142	5	5,520	20,834	534	5,645	0	27,013	32,533	3,673	116,224
2044	0.105	3,966	11	322	1,020	426	0	144	5	5,893	21,859	561	6,316	0	28,736	34,630	3,644	119,868
2045	0.098	4,172	10	346	1,103	426	0	147	5	6,210	22,671	590	6,964	0	30,225	36,435	3,573	123,441
2046	0.091	4,309	10	370	1,185	426	0	149	6	6,454	23,553	615	7,705	0	31,873	38,328	3,503	126,945
2047	0.085	4,504	10	396	1,276	426	0	152	6	6,770	24,455	641	8,503	0	33,599	40,369	3,439	130,384
2048	0.079	4,672	9	422	1,366	426	0	155	0	7,050	25,406	673	9,375	0	35,454	42,505	3,375	133,759
2049	0.074	4,892	9	451	1,466	426	0	158	0	7,401	26,375	701	10,323	0	37,397	44,798	3,316	137,075
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137,075
[1] Total NPV =		\$9,732	\$103	\$712	\$2,192	\$3,862	\$0	\$904	\$50	\$17,555	\$104,636	\$2,697	\$12,186	\$0	\$119,519	\$137,075	USEcoGen	

FPL System Cost Without EcoGen PPA - High Fuel

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Finns Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	Misc System Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	2,811	99	-7	0	2,903	2,904	2,904	2,904
2013	0.932	0	0	0	0	0	0	0	1	1	3,034	104	-12	0	3,126	3,127	2,914	5,818
2014	0.869	0	0	0	0	0	0	0	1	1	3,396	114	-14	0	3,496	3,497	3,038	8,856
2015	0.810	0	0	0	0	0	0	0	1	1	3,798	123	-11	0	3,910	3,911	3,167	12,023
2016	0.755	115	3	6	16	252	0	0	11	404	4,043	125	-9	0	4,159	4,563	3,444	15,466
2017	0.703	192	5	10	29	274	0	0	3	515	4,444	128	-9	0	4,563	5,078	3,572	19,038
2018	0.656	185	5	11	30	274	0	0	3	508	5,080	133	-9	0	5,204	5,712	3,745	22,783
2019	0.611	179	5	11	31	274	0	0	3	503	5,558	139	-9	0	5,688	6,190	3,783	26,565
2020	0.570	172	5	11	32	413	0	0	3	636	6,037	145	-9	0	6,173	6,808	3,878	30,443
2021	0.531	166	5	12	33	426	0	0	3	643	6,603	148	-9	0	6,742	7,385	3,920	34,364
2022	0.495	159	4	12	34	426	0	0	6	641	6,712	154	-10	0	6,856	7,498	3,710	38,073
2023	0.461	153	4	12	35	426	0	0	3	634	6,713	158	360	0	7,231	7,864	3,627	41,700
2024	0.430	147	4	12	36	426	0	0	3	629	7,104	166	422	0	7,692	8,321	3,576	45,276
2025	0.401	296	15	20	58	426	0	0	7	822	7,489	177	474	0	8,140	8,962	3,590	48,867
2026	0.373	473	22	30	87	426	0	0	3	1,041	7,954	188	544	0	8,686	9,728	3,632	52,499
2027	0.348	593	21	37	109	426	0	0	3	1,190	8,538	199	645	0	9,382	10,572	3,679	56,178
2028	0.324	712	21	45	132	426	0	0	4	1,339	8,843	206	735	0	9,784	11,123	3,608	59,787
2029	0.302	830	20	53	157	426	0	0	4	1,490	9,328	216	856	0	10,400	11,890	3,595	63,381
2030	0.282	949	19	62	183	426	0	0	19	1,658	9,947	228	1,012	0	11,187	12,845	3,620	67,001
2031	0.263	1,067	18	71	211	426	0	0	4	1,797	10,439	240	1,155	0	11,832	13,629	3,580	70,581
2032	0.245	1,376	18	89	266	426	0	0	4	2,178	11,197	249	1,358	0	12,804	14,982	3,668	74,248
2033	0.228	1,719	17	110	330	426	0	0	4	2,606	12,554	278	1,674	0	14,506	17,111	3,904	78,153
2034	0.213	1,991	16	129	388	426	0	0	4	2,955	13,217	305	1,915	0	15,437	18,391	3,911	82,064
2035	0.198	2,159	16	143	435	426	0	0	4	3,184	13,877	327	2,165	0	16,369	19,552	3,876	85,939
2036	0.185	2,469	15	165	503	426	0	0	4	3,583	15,150	367	2,575	0	18,092	21,675	4,004	89,944
2037	0.172	2,709	14	185	567	426	0	0	7	3,908	15,843	390	2,904	0	19,137	23,045	3,968	93,912
2038	0.160	2,795	14	198	611	426	0	0	5	4,048	16,608	407	3,282	0	20,297	24,345	3,907	97,819
2039	0.150	2,882	13	212	657	426	0	0	5	4,194	17,402	435	3,680	0	21,517	25,711	3,846	101,665
2040	0.139	3,090	12	232	722	426	0	0	8	4,490	18,010	456	4,067	0	22,533	27,023	3,768	105,433
2041	0.130	3,259	12	251	785	426	0	0	5	4,738	18,862	484	4,536	0	23,882	28,620	3,719	109,152
2042	0.121	3,341	11	267	839	426	0	0	5	4,890	19,763	507	5,051	0	25,321	30,211	3,659	112,811
2043	0.113	3,686	11	295	933	426	0	0	5	5,357	21,010	535	5,700	0	27,245	32,602	3,680	116,492
2044	0.105	4,080	11	327	1,039	426	0	0	5	5,888	22,009	563	6,361	0	28,933	34,821	3,664	120,156
2045	0.098	4,238	10	350	1,117	426	0	0	5	6,147	22,843	592	7,015	0	30,450	36,597	3,589	123,745
2046	0.091	4,274	10	370	1,185	426	0	0	6	6,270	23,742	616	7,770	0	32,128	38,397	3,510	127,255
2047	0.085	4,470	10	396	1,276	426	0	0	6	6,584	24,654	644	8,570	0	33,868	40,452	3,446	130,701
2048	0.079	4,791	9	429	1,387	426	0	0	0	7,043	25,557	673	9,439	0	35,669	42,711	3,392	134,093
2049	0.074	4,956	9	456	1,482	426	0	0	0	7,329	26,559	704	10,398	0	37,661	44,990	3,330	137,423
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137,423	2050
Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$105,669	\$2,704	\$12,302	\$0	\$120,675	\$137,423		

FPL System Cost Including EcoGen PPA - Low Fuel

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	USEcoGen Capacity and Energy Costs (Millions)	Mbe Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup + VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	1,864	98	-7	0	1,955	1,956	1,956	1,956
2013	0.932	0	0	0	0	0	0	0	1	1	2,059	105	-13	0	2,151	2,152	2,006	3,962
2014	0.869	0	0	0	0	0	0	0	1	1	2,299	114	-15	0	2,398	2,400	2,085	6,047
2015	0.810	0	0	0	0	0	0	0	1	1	2,557	123	-11	0	2,669	2,670	2,162	8,208
2016	0.755	115	3	6	16	252	0	0	11	404	2,724	126	-9	0	2,841	3,245	2,449	10,657
2017	0.703	192	5	10	29	274	0	0	3	515	2,997	128	-9	0	3,116	3,630	2,554	13,211
2018	0.656	185	5	11	30	274	0	0	3	508	3,410	134	-9	0	3,535	4,043	2,651	15,861
2019	0.611	179	5	11	31	274	0	88	3	591	3,676	139	-9	0	3,806	4,396	2,686	18,548
2020	0.570	172	5	11	32	413	0	98	3	734	3,979	147	-10	0	4,116	4,850	2,763	21,310
2021	0.531	166	5	12	33	426	0	100	3	743	4,346	150	-9	0	4,487	5,230	2,776	24,086
2022	0.495	159	4	12	34	426	0	101	6	742	4,428	153	-10	0	4,571	5,313	2,629	26,715
2023	0.461	153	4	12	35	426	0	104	3	737	4,462	157	351	0	4,970	5,707	2,632	29,347
2024	0.430	147	4	12	36	426	0	105	3	734	4,726	166	411	0	5,303	6,037	2,595	31,942
2025	0.401	296	15	20	58	426	0	107	7	929	4,984	176	459	0	5,619	6,549	2,624	34,566
2026	0.375	473	22	30	87	426	0	109	3	1,150	5,285	189	533	0	6,007	7,157	2,672	37,238
2027	0.348	593	21	37	109	426	0	110	3	1,300	5,658	197	632	0	6,487	7,787	2,710	39,948
2028	0.324	712	21	45	132	426	0	112	4	1,451	5,867	206	720	0	6,793	8,244	2,674	42,622
2029	0.302	830	20	53	157	426	0	113	4	1,604	6,188	215	839	0	7,242	8,845	2,674	45,297
2030	0.282	949	19	62	183	426	0	115	8	1,762	6,600	227	991	0	7,818	9,580	2,700	47,996
2031	0.263	1,067	18	71	211	426	0	117	4	1,914	6,942	238	1,127	0	8,307	10,221	2,684	50,681
2032	0.245	1,376	18	89	266	426	0	119	4	2,297	7,437	248	1,325	0	9,010	11,307	2,768	53,449
2033	0.228	1,719	17	110	330	426	0	120	4	2,726	8,282	281	1,637	0	10,200	12,926	2,949	56,398
2034	0.213	1,891	16	124	374	426	0	122	4	2,957	8,751	302	1,866	0	10,919	13,876	2,951	59,349
2035	0.198	2,095	16	140	425	426	0	124	4	3,230	9,213	323	2,071	0	11,607	14,836	2,941	62,290
2036	0.185	2,480	15	165	503	426	0	126	4	3,720	10,056	367	2,414	0	12,837	16,557	3,059	65,349
2037	0.172	2,720	14	185	567	426	0	128	7	4,047	10,545	387	2,695	0	13,627	17,674	3,043	68,392
2038	0.160	2,806	14	198	611	426	0	130	5	4,189	11,063	407	3,040	0	14,510	18,698	3,001	71,393
2039	0.150	2,892	13	212	657	426	0	132	5	4,337	11,580	436	3,425	0	15,441	19,777	2,958	74,351
2040	0.139	2,979	12	227	705	426	0	135	8	4,492	11,999	457	3,813	0	16,269	20,761	2,895	77,246
2041	0.130	3,192	12	247	773	426	0	137	5	4,792	12,536	482	4,284	0	17,302	22,093	2,871	80,117
2042	0.121	3,363	11	267	839	426	0	139	5	5,052	13,102	507	4,806	0	18,415	23,466	2,842	82,959
2043	0.113	3,708	11	295	933	426	0	142	5	5,520	13,867	536	5,494	0	19,897	25,417	2,869	85,829
2044	0.105	3,966	11	322	1,020	426	0	144	5	5,893	14,515	563	6,181	0	21,259	27,153	2,857	88,686
2045	0.098	4,172	10	346	1,103	426	0	147	5	6,210	15,033	591	6,848	0	22,472	28,682	2,813	91,499
2046	0.091	4,309	10	370	1,185	426	0	149	6	6,454	15,600	617	7,600	0	23,817	30,271	2,767	94,266
2047	0.085	4,504	10	396	1,276	426	0	152	6	6,770	16,187	642	8,408	0	25,237	32,007	2,727	96,993
2048	0.079	4,672	9	422	1,366	426	0	155	0	7,050	16,794	675	9,302	0	26,771	33,822	2,686	99,678
2049	0.074	4,892	9	451	1,466	426	0	158	0	7,401	17,418	702	10,268	0	28,388	35,789	2,649	102,327
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102,327
Total NPV =		\$9,732	\$103	\$712	\$2,192	\$3,862	\$0	\$904	\$50	\$17,555	\$70,209	\$2,703	\$11,860	\$0	\$84,772	\$102,327		USEcoGen

FPL System Cost Without EcoGen PPA - Low Fuel

Year	Annual Discount Factor 7.290%	Generation Capital PPL (Millions)	Transmission Capital PPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Pipeline Capital Costs (Millions)	Misc System Costs (Millions)	Misc Unit Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	+ VOM Costs (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2012	1.000	0	0	0	0	0	0	0	1	1	1,864	98	-7	0	1,955	1,956	1,956	1,956
2013	0.932	0	0	0	0	0	0	0	1	1	2,059	105	-13	0	2,151	2,152	2,006	3,962
2014	0.869	0	0	0	0	0	0	0	1	1	2,299	114	-15	0	2,398	2,400	2,085	6,047
2015	0.810	0	0	0	0	0	0	0	1	1	2,557	123	-11	0	2,669	2,670	2,162	8,208
2016	0.755	115	3	6	16	252	0	0	11	404	2,724	126	-9	0	2,841	3,245	2,449	10,657
2017	0.703	192	5	10	29	274	0	0	3	515	2,997	128	-9	0	3,116	3,630	2,554	13,211
2018	0.656	185	5	11	30	274	0	0	3	508	3,410	134	-9	0	3,535	4,043	2,651	15,861
2019	0.611	179	5	11	31	274	0	0	3	503	3,732	138	-9	0	3,861	4,363	2,666	18,528
2020	0.570	172	5	11	32	413	0	0	3	636	4,046	147	-9	0	4,184	4,819	2,745	21,273
2021	0.531	166	5	12	33	426	0	0	3	643	4,413	150	-9	0	4,554	5,197	2,759	24,031
2022	0.495	159	4	12	34	426	0	0	6	641	4,501	156	-10	0	4,647	5,288	2,617	26,648
2023	0.461	153	4	12	35	426	0	0	3	634	4,535	158	357	0	5,050	5,683	2,621	29,269
2024	0.430	147	4	12	36	426	0	0	3	629	4,800	167	418	0	5,385	6,013	2,585	31,854
2025	0.401	296	15	20	58	426	0	0	7	822	5,061	177	467	0	5,705	6,527	2,615	34,469
2026	0.373	473	22	30	87	426	0	0	3	1,041	5,365	188	541	0	6,094	7,136	2,664	37,135
2027	0.348	593	21	37	109	426	0	0	3	1,190	5,743	198	642	0	6,583	7,772	2,705	39,838
2028	0.324	712	21	45	132	426	0	0	-4	1,339	5,952	206	750	0	6,888	8,227	2,669	42,507
2029	0.302	830	20	53	157	426	0	0	-4	1,490	6,276	215	850	0	7,341	8,831	2,670	45,177
2030	0.282	949	19	62	183	426	0	0	19	1,658	6,689	227	1,004	0	7,920	9,578	2,699	47,876
2031	0.263	1,067	18	71	211	426	0	0	-4	1,797	7,035	239	1,142	0	8,416	10,213	2,683	50,559
2032	0.245	1,376	18	89	266	426	0	0	4	2,178	7,532	249	1,342	0	9,123	11,301	2,767	53,325
2033	0.228	1,719	17	110	330	426	0	0	-4	2,606	8,380	281	1,656	0	10,317	12,923	2,949	56,274
2034	0.213	1,991	16	129	388	426	0	0	-4	2,955	8,831	302	1,881	0	11,014	13,968	2,971	59,244
2035	0.198	2,159	16	143	435	426	0	0	-4	3,184	9,312	325	2,088	0	11,725	14,909	2,955	62,200
2036	0.185	2,469	15	165	503	426	0	0	-4	3,583	10,159	368	2,439	0	12,966	16,549	3,057	65,257
2037	0.172	2,709	14	185	567	426	0	0	7	3,908	10,650	389	2,724	0	13,763	17,671	3,043	68,300
2038	0.160	2,795	14	198	611	426	0	0	5	4,048	11,169	409	3,071	0	14,649	18,697	3,001	71,301
2039	0.150	2,882	13	212	657	426	0	0	5	4,194	11,689	436	3,460	0	15,585	19,780	2,959	74,259
2040	0.139	3,090	12	232	722	426	0	0	8	4,490	12,094	458	3,841	0	16,393	20,883	2,912	77,171
2041	0.130	3,259	12	251	785	426	0	0	5	4,738	12,639	482	4,322	0	17,443	22,181	2,882	80,053
2042	0.121	3,341	11	267	839	426	0	0	5	4,890	13,219	509	4,851	0	18,579	23,468	2,843	82,896
2043	0.113	3,686	11	295	933	426	0	0	5	5,357	13,986	537	5,543	0	20,066	25,423	2,870	85,766
2044	0.105	4,080	11	327	1,039	426	0	0	5	5,888	14,615	564	6,224	0	21,403	27,291	2,872	88,638
2045	0.098	4,238	10	350	1,117	426	0	0	5	6,147	15,143	593	6,904	0	22,640	28,787	2,823	91,461
2046	0.091	4,274	10	370	1,185	426	0	0	6	6,270	15,725	618	7,663	0	24,006	30,276	2,767	94,228
2047	0.085	4,470	10	396	1,276	426	0	0	6	6,584	16,316	645	8,477	0	25,438	32,022	2,728	96,957
2048	0.079	4,791	9	429	1,387	426	0	0	0	7,043	16,898	674	9,362	0	26,934	33,976	2,698	99,655
2049	0.074	4,956	9	456	1,482	426	0	0	0	7,329	17,537	704	10,344	0	28,585	35,913	2,658	102,313
2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102,313
Total NPV =		\$9,805	\$103	\$717	\$2,207	\$3,862	\$0	\$0	\$53	\$16,747	\$70,880	\$2,708	\$11,977	\$0	\$85,565	\$102,313		

Q.

Please provide the date the fuel forecast used in Appendix E/Exhibit TLH-1 was developed, and whether it represented the most recent fuel forecast available at the time of filing. If not the most recent, please explain why the most recent fuel forecast was not used.

A.

The fuel forecast date was August 3, 2012. This was the most recent fuel forecast used by FPL for resource assessment and planning studies at the time of filing.

Q.

Please clarify if the 2025 Combined Cycle identified in each of the contract documents is the same 2025 Combined Cycle discussed in Order PSC-12-0336-TRF-EQ, issued on June 27, 2012, in Docket No. 120072-EQ, In re: Petition for approval of renewable energy tariff and standard offer contract, by Florida Power & Light Company.

A.

Yes, it is the same 2025 Combined Cycle.

Q.

Please provide the approximate amount of land (in acres) that would be required by each of the three EcoGen facilities to maintain a closed-loop fuel cycle while meeting the contract's requirements to maintain sufficient on-site fuel storage.

A.

In response to this data request, U.S. EcoGen provided FPL with the following information:

"U.S. EcoGen, LLC estimates that each of its nominal 60 MW Generating Facilities will require approximately 10,000 acres of productive growing lands ("Plantations") for harvesting Eucalyptus on a closed-loop basis. Such Plantations will be vertically integrated in a supply chain with each Generating Facility to provide a fully dedicated timbering operation. Additionally, each Generating Facility will have approximately 26 acres of laydown area on-site for round wood and chipped wood storage ("On-Site Storage"). Further, the On-Site Storage for both round wood and chipped wood shall serve to meet the contract's fuel storage requirements."

Q.

Please provide the estimated \$/MMBTU of natural gas, coal , uranium, and oil generated by the fuel forecast used in Appendix E/Exhibit TLH-1, and the low fuel and high fuel scenarios requested above for each year of the contract.

Fuel Cost Scenario	(Baseline, Low, High)			
Fuel Forecast (\$/MMBTU, delivered)				
Year	Natural Gas	Coal	Uranium	Oil
2019				
2020				
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				
2032				
2033				
2034				
2035				
2036				
2037				
2038				
2039				
2040				
2041				
2042				
2043				
2044				
2045				
2046				
2047				
2048				
2049				

A.

See Attachment No. 1 to this data request. Attachment No. 1 is confidential and will be provided to the Clerk with a notice of intent.

Q.

Please provide the average annual rates for each year of the contracts of the following payments to the three facilities combined: capacity, energy (for each fuel scenario), and energy performance bonus.

Year	Capacity Payment Rate (\$/kw-mo)	Energy Payment Rate			Energy Performance Bonus Payment Rate (\$/MWh)
		Low Fuel Scenario (\$/MWh)	Baseline Scenario (\$/MWh)	High Fuel Scenario (\$/MWh)	
2019					
2020					
2021					
2022					
2023					
2024					
2025					
2026					
2027					
2028					
2029					
2030					
2031					
2032					
2033					
2034					
2035					
2036					
2037					
2038					
2039					
2040					
2041					
2042					
2043					
2044					
2045					
2046					
2047					
2048					
2049					

A.

See Attachment No. 1 to this data request.



The redacted response and Attachment No. 1 are confidential and will be provided to the Clerk with a notice of intent.

A.

The confidential Attachment No. 1 directly address the question asked, i.e., it compares the combined payments to the three biomass contracts to FPL's existing Standard Offer Contract and a 2025 Combined Cycle avoided unit. Neither of these analyses, however, directly addresses costs avoided by the U.S. EcoGen contracts, which each have a 30 year life. The Standard Offer Contract, in accordance with Rule 25-17.0832(4), F.A.C., is based upon a one-year purchase of capacity, since the 2012 Ten Year Site Plan contained no avoidable fossil fuel generating units at the time of submitting the existing Standard Offer Contract. The U.S. EcoGen contracts, however, not only allow for deferral of some of the capacity need identified in the Standard Offer Contract but also allow deferral of capacity needs of the utility beyond the period addressed by the Ten Year Site Plan. The comparison of the three biomass contracts with the 2025 Combined Cycle unit is a better proxy for FPL's full avoided costs, but again not perfect. Full avoided cost is defined in Section 366.051, Florida Statutes, as "the incremental costs to the utility of the electric energy or capacity, or both, which but for the purchase from cogenerators or small power producers, such utility would generate itself or purchase from another source." Since FPL's response to Staff's First Data Request No. 2 models FPL's system generation costs (under all fuel price scenarios) with and without the U.S. EcoGen contracts, consistent with FPL's resource planning, the response to Staff's First Data Request No. 2 provides the best comparison of the full avoided cost impact of the U.S. EcoGen contracts for FPL and its customers.

Attachment No. 1 is confidential and will be provided to the Clerk with a notice of intent.