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May 7, 2012

RECEIVED-FPSC
12 MAY -7 PM 2:11
COMMISSION
CLERK

Ms. Ann Cole, Director
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Re: Docket No. 120072-EQ - Florida Power & Light Company's Petition for Approval
of a Renewable Energy Tariff and Standard Offer Contract

Dear Ms. Cole:

Please find enclosed for filing an original and five (5) copies of Florida Power & Light
Company's responses to Staff's First Data Requests Nos. 1-11.

Thank you for your assistance. Please contact me should you or your staff have any
questions regarding this filing.

Sincerely,

William P. Cox
Senior Attorney
Florida Bar No. 0093531

WPC/aal
Enclosures

COM	_____
APA	_____
ECR	1
GCL	1
<u>RAD</u>	3
SRC	_____
ADM	_____
OPC	_____
CLK	_____

DOCUMENT NUMBER-DATE

02896 MAY-7 12

FPSC-COMMISSION CLERK

Q.

What is the basis for the average annual heat rate of 13,000 BTU per kilowatt/hour (kw/h) contained on the Sixth Revised Sheet No. 10.304?

A.

The heat rate is based upon an actual contract for 150 MW of capacity and energy from the DeSoto simple cycle gas turbines, executed by FPL at the end of December 2011, for delivery in the spring of 2012. This contract represents FPL's most recent power purchase.

2012

DOCUMENT NUMBER-DATE

02896 MAY-7 2012

FPSC-COMMISSION CLERK

Q.

What is the basis for the capacity payment of \$3.52/kw/month contained on the Sixth Revised Sheet No. 10.301?

A.

The capacity payment is based upon a contract for 150 MW of capacity and energy executed by FPL for delivery in the spring of 2012, FPL's most recent power purchase, as discussed in Question 1. An allowance is made for the number of expected starts, and then the start costs and capacity costs in the existing contract are escalated by 3% per annum to arrive at an estimated capacity cost in 2021.

Q.

If FPL is anticipating a one-year purchase in 2021, would energy payments beyond 2021 only be based on the as-available energy cost?

A.

Yes.

Q.

In Docket No. 110309-EI, FPL filed testimony and provided responses to interrogatories which identified the addition of a greenfield combined-cycle power plant in 2021. Regarding FPL's decision to change from a 2021 greenfield combined cycle unit to a single year power purchase agreement in 2021, please answer the following questions:

- a. When did FPL begin the study that led to the aforementioned change to meet its projected need in 2021?
- b. When did FPL conclude that a one-year power purchase agreement was the appropriate action to take in order to meet its projected need in 2021?
- c. What caused FPL to change from a 2021 greenfield combined cycle unit to a single year power purchase agreement in 2021 (i.e. changes in the economy, changes in available capacity, etc.)

A.

- a. The analysis was performed as part of the Ten-Year Power Plant Site Plan 2012-2021 work done during the first quarter of 2012.
- b. FPL reached that conclusion in March, 2012.
- c. The change was the result of FPL's 2012 Site Plan analysis mentioned above. This analysis utilized a number of assumptions that had been updated in early 2012 for use in FPL's 2012 resource planning work. A partial list of the major updated assumptions includes an updated environmental compliance forecast, updated performance (heat rate and availability) for all fossil units, higher output for the nuclear extended power uprate units (490 MW versus 450 MW), as well as changes to unit outage schedules. The result of the analysis shows that a purchase in 2021 has a lower CPVRR by \$77 million (2012\$) than a greenfield combined cycle unit in 2021.

Q.

Please provide the analysis performed by FPL to determine that a one-year power purchase agreement is the most cost-effective way to satisfy its need in 2021.

A.

Please see the attached files. File FC BC2012 wCC2021-030212 provides the analysis of the case with a Greenfield combined cycle in 2021. File BC2012 w Purch2021-030212 provides the analysis of the case with a purchase in 2021.

File BC2012 w Purch2021-030212

Steps:

Once for each study

I Enter library of unit types (candidates)

- Enter non capital unit data
- Enter generation capital unit data
- Enter transmission capital unit data
- Enter pipeline capital unit data

Unit inputs library
Generation capital input lib
Transmission capital input lib
Pipeline capital inputs library

II Enter generic system data

- Gas transport charges
- Retail sales
- discount rate
- escalation rates
- Transmission marginal costs

System input1

For each case in study

II Enter units in plan

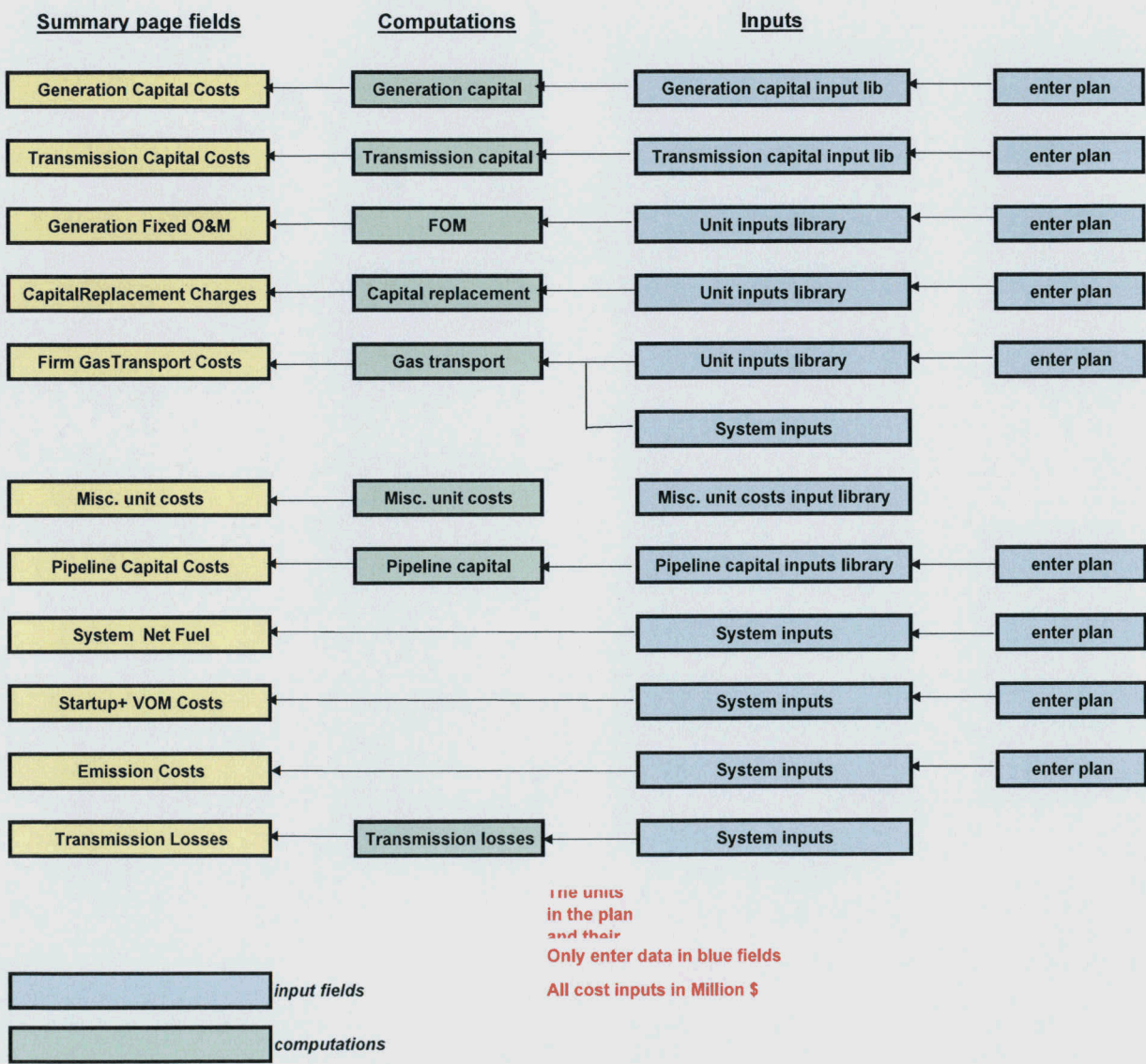
- Units and in-service dates

enter plan

III Enter Plan specific input

Transmission losses
System gas transport
Pmarea inputs: Fuel, startup, VOM, emissions in tons
System transmission capital investments

System input2



Dimensions:	
max number of unit types =	25
max number of units in plan =	50
base year =	2011
max number of years in analysis=	50
last possible year of analysis =	2060

tie units
in the plan
and their
Only enter data in blue fields
All cost inputs in Million \$

Case name: BC2012 TYSP

Date: 3/2/2012

Note: do not enter data in this table

	Annual	Generation	Transmission		Capital	Firm Gas	Pipeline			Total		Startup		Total	Total	NPV	NPV		
	Discount	Capital	Capital	Generation	Replacement	Transport	Capital	Misc System Costs	Misc Unit Costs	Fixed	System	+ VOM	Emission	Transmission	VOM/Fuel	Annual	Total	Cumulative	
Year	Factor	FPL	FPL	Fixed O&M	Charges	Costs	Costs	(Millions)	(Millions)	Costs	Net Fuel	Costs	Costs	Losses	Costs	Costs	Annual Cost	Total Annual Cost	Total Costs
	7.290%	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)
1	2012	1.000	0	0	0	0	0	0	1	1	2,769	116	-3	0	2,882	2,883	2,883	2,883	2012
2	2013	0.932	0	0	0	0	0	0	1	1	2,871	118	-7	0	2,982	2,983	2,781	5,664	2013
3	2014	0.869	0	0	0	0	0	0	1	1	3,212	128	-6	0	3,334	3,336	2,898	8,561	2014
4	2015	0.810	0	0	0	0	0	0	1	1	3,507	134	-6	0	3,635	3,636	2,944	11,506	2015
5	2016	0.755	115	3	6	16	252	0	11	404	3,871	134	-8	0	3,997	4,400	3,321	14,827	2016
6	2017	0.703	192	5	10	29	274	0	3	515	4,199	132	-9	0	4,322	4,837	3,402	18,229	2017
7	2018	0.656	185	5	11	30	274	0	3	508	4,612	140	-10	0	4,742	5,251	3,442	21,671	2018
8	2019	0.611	179	5	11	31	274	0	3	503	4,944	145	-10	0	5,079	5,582	3,411	25,082	2019
9	2020	0.570	172	5	11	32	413	0	3	636	5,458	154	-10	0	5,602	6,238	3,553	28,635	2020
10	2021	0.531	166	5	12	33	426	0	13	657	6,094	159	-9	0	6,244	6,901	3,663	32,298	2021
11	2022	0.495	159	4	12	34	426	0	6	641	6,361	163	-10	0	6,514	7,155	3,540	35,838	2022
12	2023	0.461	153	4	12	35	426	0	3	634	6,313	160	375	0	6,848	7,481	3,450	39,288	2023
13	2024	0.430	147	4	12	36	426	0	3	629	6,815	170	438	0	7,423	8,052	3,461	42,749	2024
14	2025	0.401	296	15	20	58	426	0	7	822	7,349	186	492	0	8,027	8,849	3,545	46,295	2025
15	2026	0.373	473	22	30	87	426	0	3	1,041	7,706	208	557	0	8,471	9,512	3,552	49,846	2026
16	2027	0.348	593	21	37	109	426	0	3	1,190	8,124	220	657	0	9,001	10,191	3,547	53,393	2027
17	2028	0.324	712	21	45	132	426	0	4	1,339	8,297	232	747	0	9,276	10,616	3,444	56,837	2028
18	2029	0.302	830	20	53	157	426	0	4	1,490	8,616	247	869	0	9,732	11,222	3,393	60,230	2029
19	2030	0.282	949	19	62	183	426	0	4	1,643	9,083	261	1,024	0	10,368	12,010	3,384	63,614	2030
20	2031	0.263	1,067	18	71	211	426	0	4	1,797	9,377	274	1,166	0	10,817	12,613	3,313	66,927	2031
21	2032	0.245	1,376	18	89	266	426	0	4	2,178	9,935	292	1,372	0	11,599	13,777	3,373	70,299	2032
22	2033	0.228	1,817	17	114	344	426	0	4	2,722	10,924	315	1,682	0	12,921	15,642	3,569	73,869	2033
23	2034	0.213	2,054	16	132	398	426	0	4	3,030	11,393	334	1,931	0	13,658	16,689	3,549	77,418	2034
24	2035	0.198	2,149	16	143	435	426	0	4	3,173	11,861	351	2,196	0	14,408	17,580	3,485	80,902	2035
25	2036	0.185	2,459	15	165	503	426	0	4	3,572	12,829	379	2,605	0	15,813	19,385	3,581	84,484	2036
26	2037	0.172	2,699	14	185	567	426	0	7	3,898	13,320	395	2,940	0	16,655	20,553	3,539	88,023	2037
27	2038	0.160	2,785	14	198	611	426	0	5	4,038	13,879	411	3,310	0	17,600	21,639	3,473	91,496	2038
28	2039	0.150	2,872	13	212	657	426	0	5	4,185	14,477	431	3,694	0	18,602	22,787	3,409	94,904	2039
29	2040	0.139	3,081	12	232	722	426	0	8	4,481	14,980	450	4,026	0	19,456	23,937	3,337	98,242	2040
30	2041	0.130	3,250	12	251	785	426	0	5	4,729	15,639	473	4,472	0	20,584	25,313	3,289	101,531	2041
31	2042	0.121	3,460	11	273	857	426	0	5	5,032	16,318	493	4,969	0	21,780	26,812	3,248	104,779	2042
32	2043	0.113	3,759	11	300	946	426	0	5	5,446	17,266	518	5,655	0	23,439	28,885	3,261	108,040	2043
33	2044	0.105	4,057	11	327	1,039	426	0	5	5,865	18,028	545	6,336	0	24,909	30,775	3,238	111,278	2044
34	2045	0.098	4,216	10	350	1,117	426	0	5	6,125	18,648	569	7,018	0	26,235	32,360	3,174	114,452	2045
35	2046	0.091	4,396	10	376	1,205	426	0	6	6,418	19,318	591	7,776	0	27,685	34,104	3,117	117,569	2046
36	2047	0.085	4,541	10	401	1,291	426	0	6	6,674	20,016	618	8,609	0	29,243	35,917	3,060	120,629	2047
37	2048	0.079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2048
38	2049	0.074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2049
39	2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2050
40	2051	0.064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2051
41	2052	0.060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2052
42	2053	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2053
43	2054	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2054
44	2055	0.049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2055
45	2056	0.045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2056
46	2057	0.042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2057
47	2058	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2058
48	2059	0.037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2059
49	2060	0.034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2060
50	2061	0.032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2061
51	2062	0.030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2062
52	2063	0.028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2063
53	2064	0.026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2064
54	2065	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2065
55	2066	0.022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2066
56	2067	0.021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2067
57	2068	0.019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2068
58	2069	0.018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2069
59	2070	0.017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,629	2070
Total NPV =			\$9,117	\$102	\$653	\$2,000	\$3,796	\$0	\$7	\$49	\$15,724	\$91,292	\$2,759	\$10,854	\$0	\$104,905	\$120,629		

Case Name:

BC2012 TYSP

Date:

3/2/2012

Enter Plan

	[a]	[c]	
	I/S	Unit name	Number of units
1	2016	PEEC	1
2	2016	GFCC	
3	2020	GFCC	
4	2021	GFCC	
5	2025	GFCC	1
6	2026	GFCC	
7	2016	TP 1	
8	2016	PE 3	
9	2016	PE 4	
10	2016	PE 1	
11	2016	PE 2	
12	2016	TP 2	
13	2018	TP 1 ESP	
14	2026	Filler 698	0
15	2027	Filler 713	
16	2027	Filler 302	
17	2027	Filler 498	
18	2026	Filler	1
19	2027	Filler	1
20	2028	Filler	1
21	2029	Filler	1
22	2030	Filler	1
23	2031	Filler	1
24	2032	Filler	3
25	2033	Filler	3
26	2034	Filler	1
27	2035	Filler	1
28	2036	Filler	3
29	2037	Filler	1
30	2038	Filler	1
31	2039	Filler	1
32	2040	Filler	2
33	2041	Filler	1
34	2042	Filler	2
35	2043	Filler	2
36	2044	Filler	2
37	2045	Filler	1
38	2046	Filler	2
39	2047	Filler	1
40	2048	Filler	2
41	2049	Filler	1
42	2050	Filler	2
43	2016	TP1 SC	1
44	2011	TP2 SC	1
45			
46			
47			
48			
49			
50			

Note:

Name of unit must match one of the units entered in the unit input libraries

2026	1
2027	1
2028	1
2029	1
2030	1
2031	1
2032	3
2033	3
2034	1
2035	1
2036	3
2037	1
2038	1
2039	1
2040	2
2041	1
2042	2
2043	2
2044	2
2045	1
2046	2
2047	1
2048	2
2049	1
2050	2

Case name: BC2012 TYSP

Date: 3/2/2012

System Inputs1

Transmission Losses Input

	Gas Transport Charge \$/MMBTU	On-peak marginal costs \$/MWH	Off - peakmarginal costs \$/MWH
2011	0.00	42	37
2012	0.00	49	40
2013	0.00	48	41
2014	0.00	50	42
2015	0.00	55	45
2016	1.88	57	46
2017	1.93	61	50
2018	1.98	82	69
2019	2.02	84	73
2020	2.08	91	77
2021	2.13	95	80
2022	2.18	100	85
2023	2.23	104	90
2024	2.29	113	96
2025	2.35	119	102
2026	2.41	123	104
2027	2.47	125	106
2028	2.53	127	108
2029	2.59	131	111
2030	2.66	134	114
2031	2.72	138	117
2032	2.79	143	121
2033	2.86	145	124
2034	2.93	149	127
2035	3.01	154	131
2036	3.08	161	136
2037	3.16	167	140
2038	3.24	172	144
2039	3.32	178	149
2040	3.40	184	154
2041	3.49	184	154
2042	3.57	184	154
2043	3.66	184	154
2044	3.75	184	154
2045	3.85	184	154
2046	3.94	184	154
2047	4.04	184	154
2048	4.14	184	154
2049	4.25	184	154
2050	4.35	184	154
2051	4.46		
2052	4.57		
2053	4.69		
2054	4.80		
2055	4.92		
2056	5.05		
2057	5.17		
2058	5.30		
2059	5.44		
2060	5.57		
2061	5.71		
2062	5.85		
2063	6.00		
2064	6.15		
2065	6.30		
2066	6.46		
2067	6.62		
2068	6.79		
2069	6.96		
2070	7.13		

Billed retail sales MWH	
101,940,005	2011
101,686,001	2012
103,200,444	2013
105,480,286	2014
108,126,655	2015
109,787,405	2016
111,104,514	2017
112,313,386	2018
113,670,026	2019
116,014,027	2020
118,799,954	2021
121,724,855	2022
124,286,280	2023
126,775,731	2024
129,260,329	2025
131,782,300	2026
134,088,398	2027
136,356,139	2028
138,542,123	2029
140,654,235	2030
143,001,133	2031
145,378,133	2032
147,806,093	2033
150,272,627	2034
152,777,664	2035
155,324,941	2036
157,911,908	2037
160,542,473	2038
163,216,257	2039
165,928,590	2040
168,691,863	2041
171,497,204	2042
174,348,546	2043
177,246,647	2044
180,192,260	2045
183,186,164	2046
186,229,143	2047
189,321,998	2048
192,465,541	2049
195,660,596	2050
198,595,504	2051
201,574,437	2052
204,598,054	2053
207,667,024	2054
210,782,030	2055
213,943,760	2056
217,152,917	2057
220,410,210	2058
223,716,364	2059
227,072,109	2060
230,478,191	2061
233,935,363	2062
237,444,394	2063
241,006,060	2064
244,621,151	2065
248,290,468	2066
252,014,825	2067
255,795,047	2068
259,631,973	2069
263,526,453	2070

Discount and escalation rates

Discount rate=	0.0729
OM escalation=	0.0250
Capital escalation=	0.0300
End year of analysis (for summary pg.)	2047

Gas Transport data

Gas transport month before i/s date	0
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Transmission losses data

Proxy ref year	2011
Purchase Proxy Starting Cost (\$/kw-month) =	5
Annual Escalation Rate for Proxy Purchase =	0.025
On-Peak Hours =	876
Off-Peak Hours =	7,884

Case name BC2012 TYSP	Date: 3/2/2012
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System Inputs2

[illegible]

Miscellaneous System Costs
Revenue requirements in Millions

[illegible]

	1	2	3	4
	System gas added MMCF/day	System gas added MMCF/day	System gas added MMCF/day	System gas added MMCF/day
amount	400	200	0	0
year	2016	2020	0	0
month	1	1	1	1

Case name: BC2012 TYSP

Date: 3/2/2012

Unit inputs library- non capital

Enter data in blue fields only

	[a]	[b]	[c]	[d]	[e]	[f]	[g]
	Unit name	Start Month	Ref year for OM, cap rep \$	Summer Capacity MW	Cap Rep \$/KW-year	FOM \$/KW-year	Gas transport MMCF/day
1	PEEC	6	2016	1277	22.10	7.99	0
2	GFCC	6	2016	1262	22.36	8.08	0
3	TP 1	6	2016	396			0
4	PE 3	6	2016	387			0
5	PE 4	6	2016	374			0
6	PE 1	6	2016	213			0
7	PE 2	6	2016	213			0
8	TP 2	6	2016	396			0
9	TP 1 ESP	6	2016	0			0
10	Filler 698	6	2016	698	22.36	8.08	0
11	Filler 713	6	2016	713	22.36	8.08	0
12	Filler 302	6	2016	302	22.36	8.08	0
13	Filler 498	6	2016	498	22.36	8.08	0
14	Filler	6	2016	631	22.36	8.08	0
15	TP1 SC	6	2016	0			0
16	TP2 SC	6	2016	0			0
17		6					
18		6					
19		6					
20		6					
21		6					
22		6					
23		6					
24		6					
25		6					

Enter data in blue fields only
Enter costs in Millions

Revenue Requirements	Generation capital costs (INPUT)
----------------------	----------------------------------

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	PEEC	GFCF	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
gen. capital & ref year	2016	2020	2014	2014	2014	2014	2014	2014	2014	2020	2020	2020	2020	2020	2018	2011									

[illegible]

Enter data in blue fields only

Case name: BC2012 TYSP Date: 3/2/2012

Enter data in blue fields only
Enter costs in Millions

Revenue Requirements Generation capital costs (INPUT)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
transm. capital \$ ref	PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
year	2016	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2016	2011	2016	2016	2016	2016	2016	2016	2016	2016	2016

	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2011	0	0	0																							
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2015	0	0	0																							
2016	3	3	0																							
2017	5	5	0																							
2018	5	5	0																							
2019	5	5	0																							
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2049	7	1	5																							
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NPV 2011	113	35	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Enter data in blue fields only

Case name: BC2012 TYSP Date: 3/2/2012

Enter data in blue fields only

Enter costs in Millions

Revenue Requirements		Pipeline capital costs (INPUT)										Enter costs in Millions															
		PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filter 696	Filter 713	Filter 302	Filter 498	Filter	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0	0
pipeline capital \$ ref year		2016	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2016	2011										
Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
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Enter data in blue fields only

Case name: BC2012 TYSP Date: 3/2/2012

Enter data in blue fields only
Enter costs in Millions

Revenue Requirements Misc Unit Costs

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
\$ ref year	2016	2020	2014	2014	2014	2014	2014	2014	2016	2020	2020	2020	2020	2020	2016	2011									

	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2011	0			0	0	0	0	0	0							0	0									
2012	1			0	0	0	0	0	0							0	1									
2013	1			0	0	0	0	0	0							0	1									
2014	148			9	40	35	29	31	11							0	1									
2015	178			28	40	35	29	31	11							0	1									
2016	53			13	6	6	5	8	5							10	1									
2017	84			16	10	10	34	4	8							1	1									
2018	193			76	5	28	5	8	68							1	1									
2019	80			11	20	6	6	32	3							1	1									
2020	80			11	5	5	28	27	3							1	1									
2021	84			28	9	9	8	6	20							1	1									
2022	45			12	5	7	6	6	4							2	5									
2023	134			15	47	45	11	7	6							2	2									
2024	45			13	7	8	6	6	3							2	2									
2025	58			18	8	6	5	6	9							5	2									
2026	89			13	11	39	6	13	4							2	2									
2027	91			14	31	6	15	17	4							2	2									
2028	139			34	22	18	25	14	23							2	2									
2029	129			49	9	8	15	5	39							2	2									
2030	59			16	9	11	6	7	5							2	2									
2031	59			16	8	8	8	9	5							2	2									
2032	49			15	8	8	6	7	4							2	2									
2033	93			24	11	11	19	11	12							2	2									
2034	112			21	29	20	18	10	9							2	2									
2035	96			27	28	7	6	9	16							2	2									
2036	98			35	10	10	9	7	23							2	2									
2037	85			28	10	10	7	13	13							2	5									
2038	89			23	14	14	13	11	10							2	2									
2039	104			22	13	28	22	7	8							2	2									
2040	76			22	8	9	9	11	9							6	2									
2041	88			20	10	10	9	19	6							2	2									
2042	63			20	8	8	7	9	5							2	2									
2043	71			21	11	11	10	7	6							3	3									
2044	71			21	11	11	10	7	5							3	3									
2045	70			22	9	9	8	10	7							3	3									
2046	6															3	3									
2047	6															3	3									
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NPV 2011	1,060	0	0	227	180	175	152	148	133	0	0	0	0	0	0	23	22	0	0	0	0	0	0	0	0	0

Enter data in blue fields only

NPV 2011	11,888	1,222	0	0	0	868	0	0	0	0	0	0	0	0	0	0	0	0	417	400	384	369	354	340	979	939	301	289	631	266	255	245	471	226	432	413	394	188	359	171	326
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[illegible]

155	295	0	0	0	0	0	0	0	0
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[illegible]

NPV 2011	1,112	145	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	43	41	39	37	35	33	94	89	28	27	75	24	22	21	40	19	35	33	31	14	27	13	24
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[illegible]

Date: 3/2/2012

Gas Transportation

Note: do not enter data in this table

		added MMCFriday	added MMCFriday	added MMCFriday	added MMCFriday	U/s year # of units amount month charge	unit U/s month charge	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
year	amount month charge	2016	2020	0	0			PEBC	GFCC	GFCC	GFCC	GFCC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	Filler	
		2016	2020	0	0			2016	2016	2020	2021	2025	2026	2016	2016	2016	2016	2016	2016	2016	2018	2026	2027	2027	2027	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
		400	220	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1.88	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1.88	2.075	#N/A	#N/A			1.88	1.88	2.08	2.13	2.35	2.41	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.98	2.41	2.47	2.47	2.41	2.41	2.47	2.53	2.59	2.66	2.72	2.79	2.88	2.93	3.01	3.08	3.16	3.24	3.32		
Total	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
2011	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2013	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2016	252	292	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2017	274	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2018	274	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2019	274	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2020	413	274	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2021	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2022	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2023	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2024	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2025	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2026	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2027	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2028	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2029	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2030	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2031	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2032	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2033	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2034	426	274	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0</																						

Case name: BC2012 TVSP

Date: 3/2/2012

Transmission Losses

Year	On-Peak Marginal Energy Cost (\$/MWh)	Off-Peak Marginal Energy Cost (\$/MWh)	Peak Load Loss (\$/MWh)	On - Peak Hours Annual Energy Loss (\$/MWh)	On - Peak Hours Loss Cost Nominal \$ M	Average Load Loss (\$/MWh)	Off - Peak Hours Annual Energy Loss (\$/MWh)	Off - Peak Hours Loss Cost Nominal \$ M	Capacity Cost Charge Nominal \$/MWh month	Annual capacity Loss Cost Nominal \$ M	Total Cost Of Losses \$ M	Year
2011	42	37	0	0	0	0	0	0	5.9	0	0	2011
2012	40	40	0	0	0	0	0	0	5.1	0	0	2012
2013	46	41	0	0	0	0	0	0	5.3	0	0	2013
2014	50	42	0	0	0	0	0	0	5.4	0	0	2014
2015	55	45	0	0	0	0	0	0	5.5	0	0	2015
2016	57	46	0	0	0	0	0	0	5.7	0	0	2016
2017	61	50	0	0	0	0	0	0	5.9	0	0	2017
2018	82	58	0	0	0	0	0	0	6.1	0	0	2018
2019	84	73	0	0	0	0	0	0	6.2	0	0	2019
2020	81	77	0	0	0	0	0	0	6.4	0	0	2020
2021	95	80	0	0	0	0	0	0	6.6	0	0	2021
2022	100	85	0	0	0	0	0	0	6.8	0	0	2022
2023	104	90	0	0	0	0	0	0	6.7	0	0	2023
2024	113	96	0	0	0	0	0	0	6.9	0	0	2024
2025	119	102	0	0	0	0	0	0	7.1	0	0	2025
2026	123	104	0	0	0	0	0	0	7.2	0	0	2026
2027	125	108	0	0	0	0	0	0	7.4	0	0	2027
2028	127	109	0	0	0	0	0	0	7.6	0	0	2028
2029	131	111	0	0	0	0	0	0	7.8	0	0	2029
2030	134	114	0	0	0	0	0	0	8.0	0	0	2030
2031	138	117	0	0	0	0	0	0	8.2	0	0	2031
2032	143	121	0	0	0	0	0	0	8.4	0	0	2032
2033	146	124	0	0	0	0	0	0	8.6	0	0	2033
2034	149	127	0	0	0	0	0	0	8.8	0	0	2034
2035	154	131	0	0	0	0	0	0	9.0	0	0	2035
2036	161	136	0	0	0	0	0	0	9.3	0	0	2036
2037	167	140	0	0	0	0	0	0	9.5	0	0	2037
2038	172	144	0	0	0	0	0	0	9.7	0	0	2038
2039	178	146	0	0	0	0	0	0	10.0	0	0	2039
2040	184	154	0	0	0	0	0	0	10.2	0	0	2040
2041	184	154	0	0	0	0	0	0	10.5	0	0	2041
2042	184	154	0	0	0	0	0	0	10.8	0	0	2042
2043	184	154	0	0	0	0	0	0	11.0	0	0	2043
2044	184	154	0	0	0	0	0	0	11.3	0	0	2044
2045	184	154	0	0	0	0	0	0	11.6	0	0	2045
2046	184	154	0	0	0	0	0	0	11.9	0	0	2046
2047	184	154	0	0	0	0	0	0	12.2	0	0	2047
2048	184	154	0	0	0	0	0	0	12.5	0	0	2048
2049	184	154	0	0	0	0	0	0	12.8	0	0	2049
2050	184	154	0	0	0	0	0	0	13.1	0	0	2050
2051	0	0	0	0	0	0	0	0	13.4	0	0	2051
2052	0	0	0	0	0	0	0	0	13.8	0	0	2052
2053	0	0	0	0	0	0	0	0	14.1	0	0	2053
2054	0	0	0	0	0	0	0	0	14.5	0	0	2054
2055	0	0	0	0	0	0	0	0	14.8	0	0	2055
2056	0	0	0	0	0	0	0	0	15.2	0	0	2056
2057	0	0	0	0	0	0	0	0	15.6	0	0	2057
2058	0	0	0	0	0	0	0	0	15.9	0	0	2058
2059	0	0	0	0	0	0	0	0	16.4	0	0	2059
2060	0	0	0	0	0	0	0	0	16.8	0	0	2060
2061	0	0	0	0	0	0	0	0	17.2	0	0	2061
2062	0	0	0	0	0	0	0	0	17.6	0	0	2062
2063	0	0	0	0	0	0	0	0	18.1	0	0	2063
2064	0	0	0	0	0	0	0	0	18.5	0	0	2064
2065	0	0	0	0	0	0	0	0	19.0	0	0	2065
2066	0	0	0	0	0	0	0	0	19.4	0	0	2066
2067	0	0	0	0	0	0	0	0	19.8	0	0	2067
2068	0	0	0	0	0	0	0	0	20.4	0	0	2068
2069	0	0	0	0	0	0	0	0	20.9	0	0	2069
2070	0	0	0	0	0	0	0	0	21.5	0	0	2070
					0				0.0	0	0	

File FC BC2012 wCC2021-030212

Steps:

Once for each study

I Enter library of unit types (candidates)

- Enter non capital unit data
- Enter generation capital unit data
- Enter transmission capital unit data
- Enter pipeline capital unit data

Unit inputs library
Generation capital input lib
Transmission capital input lib
Pipeline capital inputs library

II Enter generic system data

- Gas transport charges
- Retail sales
- discount rate
- escalation rates
- Transmission marginal costs

System input1

For each case in study

II Enter units in plan

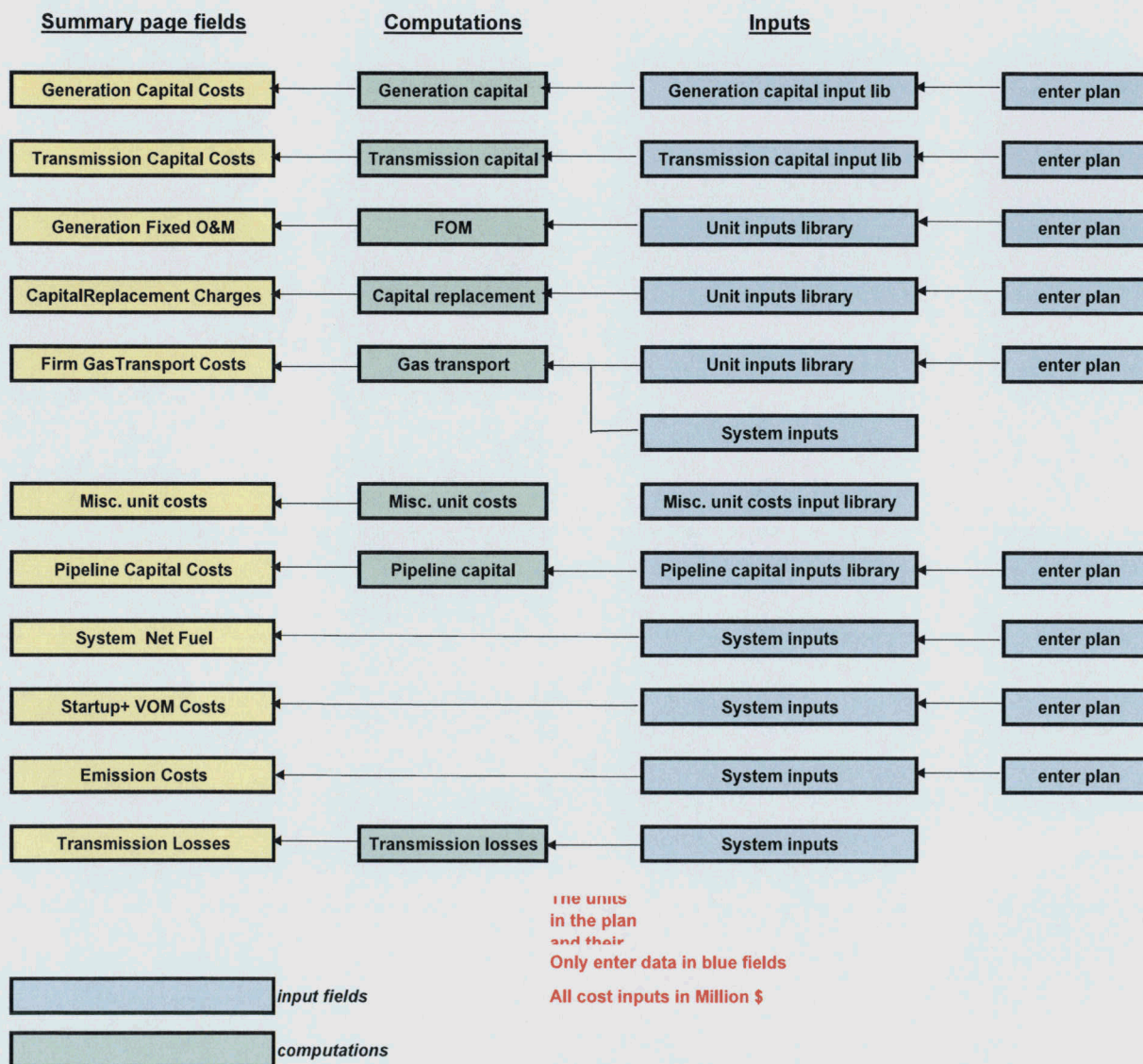
- Units and in-service dates

enter plan

III Enter Plan specific input

Tranmission losses
System gas transport
Pmarea inputs: Fuel, startup, VOM, emissions in tons
System transmission capital investments

System input2



Dimensions:	
max number of unit types =	25
max number of units in plan =	50
base year =	2011
max number of years in analysis =	50
last possible year of analysis =	2060

the units
in the plan
and their
Only enter data in blue fields
All cost inputs in Million \$

Case name: BC2012 wCC2021

Date: 3/2/2012

Note: do not enter data in this table

	Annual	Generation	Transmission		Capital	Firm Gas	Pipeline			Total		Startup			Total	Total	NPV	NPV
	Discount	Capital	Capital	Generation	Replacement	Transport	Capital	Misc System Costs	Misc Unit Costs	Fixed	System	+ VOM	Emission	Transmission	VOM/Fuel	Annual	Total	Cumulative
Year	Factor	PPL	PPL	Fixed O&M	Charges	Costs	Costs	(Millions)	(Millions)	Costs	Net Fuel	Costs	Costs	Losses	Costs	Costs	Annual Cost	Total Costs
	7.290%	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)			(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)
1	2012	1.000	0	0	0	0	0	0	1	1	2,769	116	-3	0	2,882	2,883	2,883	2,883
2	2013	0.932	0	0	0	0	0	0	1	1	2,871	118	-7	0	2,982	2,983	2,781	5,664
3	2014	0.869	0	0	0	0	0	0	1	1	3,212	128	-6	0	3,334	3,336	2,898	8,561
4	2015	0.810	0	0	0	0	0	0	1	1	3,507	134	-6	0	3,635	3,636	2,944	11,506
5	2016	0.755	115	3	6	16	252	0	11	404	3,871	134	-8	0	3,997	4,400	3,321	14,827
6	2017	0.703	192	5	10	29	274	0	3	515	4,199	132	-9	0	4,322	4,837	3,402	18,229
7	2018	0.656	185	5	11	30	274	0	3	508	4,612	140	-10	0	4,742	5,251	3,442	21,671
8	2019	0.611	179	5	11	31	274	0	3	503	4,944	145	-10	0	5,079	5,582	3,411	25,082
9	2020	0.570	172	5	11	32	413	0	3	636	5,458	154	-10	0	5,602	6,238	3,553	28,635
10	2021	0.531	303	15	18	52	426	0	3	816	5,998	165	-10	0	6,153	6,969	3,700	32,335
11	2022	0.495	388	21	24	67	426	0	6	932	6,238	169	-11	0	6,396	7,328	3,626	35,961
12	2023	0.461	374	20	24	69	426	0	3	917	6,262	172	369	0	6,763	7,680	3,542	39,502
13	2024	0.430	360	19	25	72	426	0	3	905	6,700	181	432	0	7,313	8,217	3,532	43,034
14	2025	0.401	346	19	25	74	426	0	7	896	7,320	191	490	0	8,001	8,897	3,564	46,599
15	2026	0.373	412	18	30	87	426	0	3	976	7,706	208	557	0	8,471	9,447	3,527	50,126
16	2027	0.348	534	17	37	109	426	0	3	1,127	8,124	220	657	0	9,001	10,128	3,525	53,651
17	2028	0.324	655	16	45	132	426	0	4	1,279	8,297	232	747	0	9,276	10,555	3,424	57,075
18	2029	0.302	776	16	53	157	426	0	4	1,432	8,616	247	869	0	9,732	11,164	3,375	60,450
19	2030	0.282	896	15	62	183	426	0	4	1,586	9,083	261	1,024	0	10,368	11,953	3,368	63,818
20	2031	0.263	1,016	14	71	211	426	0	4	1,741	9,377	274	1,166	0	10,817	12,558	3,298	67,117
21	2032	0.245	1,325	14	89	266	426	0	4	2,124	9,935	292	1,372	0	11,599	13,722	3,359	70,476
22	2033	0.228	1,767	13	114	344	426	0	4	2,668	10,924	315	1,682	0	12,921	15,589	3,557	74,033
23	2034	0.213	2,005	13	132	398	426	0	4	2,978	11,393	334	1,931	0	13,658	16,636	3,538	77,571
24	2035	0.198	2,100	12	143	435	426	0	4	3,121	11,861	351	2,196	0	14,408	17,529	3,474	81,045
25	2036	0.185	2,411	11	165	503	426	0	4	3,521	12,829	379	2,605	0	15,813	19,335	3,572	84,617
26	2037	0.172	2,653	11	185	567	426	0	7	3,849	13,320	395	2,940	0	16,655	20,503	3,531	88,148
27	2038	0.160	2,740	11	198	611	426	0	5	3,990	13,879	411	3,310	0	17,600	21,590	3,465	91,613
28	2039	0.150	2,828	10	212	657	426	0	5	4,138	14,477	431	3,694	0	18,602	22,740	3,402	95,014
29	2040	0.139	3,037	10	232	722	426	0	8	4,435	14,980	450	4,026	0	19,456	23,891	3,331	98,345
30	2041	0.130	3,208	10	251	785	426	0	5	4,685	15,639	473	4,472	0	20,584	25,269	3,284	101,629
31	2042	0.121	3,420	9	273	857	426	0	5	4,991	16,318	493	4,969	0	21,780	26,771	3,243	104,872
32	2043	0.113	3,723	9	300	946	426	0	5	5,409	17,266	518	5,655	0	23,439	28,847	3,257	108,128
33	2044	0.105	4,025	9	327	1,039	426	0	5	5,831	18,028	545	6,336	0	24,909	30,741	3,235	111,363
34	2045	0.098	4,187	8	350	1,117	426	0	5	6,094	18,648	569	7,018	0	26,235	32,329	3,171	114,534
35	2046	0.091	4,369	8	376	1,205	426	0	6	6,389	19,318	591	7,776	0	27,685	34,074	3,115	117,648
36	2047	0.085	4,515	8	401	1,291	426	0	6	6,646	20,016	618	8,609	0	29,243	35,889	3,058	120,706
37	2048	0.079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
38	2049	0.074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
39	2050	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
40	2051	0.064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
41	2052	0.060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
42	2053	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
43	2054	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
44	2055	0.049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
45	2056	0.045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
46	2057	0.042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
47	2058	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
48	2059	0.037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
49	2060	0.034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
50	2061	0.032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
51	2062	0.030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
52	2063	0.028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
53	2064	0.026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
54	2065	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
55	2066	0.022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
56	2067	0.021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
57	2068	0.019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
58	2069	0.018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
59	2070	0.017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120,706
Total NPV =			\$9,304	\$116	\$676	\$2,064	\$3,796	\$0	\$0	\$49	\$16,084	\$91,078	\$2,777	\$10,847	\$0	\$104,702	\$120,706	

Avg Rate	Impact
\$/1000 KWH	
2012	28.35
2013	28.91
2014	31.62
2015	33.63
2016	40.08
2017	43.53
2018	46.75
2019	49.11
2020	53.77
2021	58.67
2022	60.21
2023	61.79
2024	64.82
2025	68.83
2026	71.69
2027	75.53
2028	77.41
2029	80.58
2030	84.98
2031	87.82
2032	94.39
2033	105.47
2034	110.70
2035	114.73
2036	124.48
2037	129.84
2038	134.48
2039	139.33
2040	143.98
2041	149.79
2042	156.10
2043	165.46
2044	173.43
2045	179.41
2046	186.01
2047	192.72
2048	0.00
2049	0.00
2050	0.00
2051	0.00
2052	0.00
2053	0.00
2054	0.00
2055	0.00
2056	0.00
2057	0.00
2058	0.00
2059	0.00
2060	0.00
2061	0.00
2062	0.00
2063	0.00
2064	0.00
2065	0.00
2066	0.00
2067	0.00
2068	0.00
2069	0.00
2070	0.00

Case Name:

BC2012 wCC2021

Date:

3/2/2012

Enter Plan

	[a] I/S	[c] Unit name	Number of units
1	2016	PEEC	1
2	2016	GFCC	
3	2020	GFCC	
4	2021	GFCC	
5	2021	GFCC	1
6	2026	GFCC	
7	2016	TP 1	
8	2016	PE 3	
9	2016	PE 4	
10	2016	PE 1	
11	2016	PE 2	
12	2016	TP 2	
13	2018	TP 1 ESP	
14	2026	Filler 698	0
15	2027	Filler 713	
16	2027	Filler 302	
17	2027	Filler 498	
18	2026	Filler	1
19	2027	Filler	1
20	2028	Filler	1
21	2029	Filler	1
22	2030	Filler	1
23	2031	Filler	1
24	2032	Filler	3
25	2033	Filler	3
26	2034	Filler	1
27	2035	Filler	1
28	2036	Filler	3
29	2037	Filler	1
30	2038	Filler	1
31	2039	Filler	1
32	2040	Filler	2
33	2041	Filler	1
34	2042	Filler	2
35	2043	Filler	2
36	2044	Filler	2
37	2045	Filler	1
38	2046	Filler	2
39	2047	Filler	1
40	2048	Filler	2
41	2049	Filler	1
42	2050	Filler	2
43	2016	TP1 SC	1
44	2011	TP2 SC	1
45			
46			
47			
48			
49			
50			

Note:

Name of unit must match one of the units entered in the unit input libraries

2026	1
2027	1
2028	1
2029	1
2030	1
2031	1
2032	3
2033	3
2034	1
2035	1
2036	3
2037	1
2038	1
2039	1
2040	2
2041	1
2042	2
2043	2
2044	2
2045	1
2046	2
2047	1
2048	2
2049	1
2050	2

Case name: BC2012 wCC2021

Date: 3/2/2012

System Inputs1

Transmission Losses Input

	Gas Transport Charge \$/MMBtu	On-peak marginal costs \$/MWH	Off - peakmarginal costs \$/MWH
2011	0.00	42	37
2012	0.00	49	40
2013	0.00	48	41
2014	0.00	50	42
2015	0.00	55	45
2016	1.88	57	46
2017	1.93	61	50
2018	1.98	82	69
2019	2.02	84	73
2020	2.08	91	77
2021	2.13	95	80
2022	2.18	100	85
2023	2.23	104	90
2024	2.29	113	96
2025	2.35	119	102
2026	2.41	123	104
2027	2.47	125	106
2028	2.53	127	108
2029	2.59	131	111
2030	2.66	134	114
2031	2.72	138	117
2032	2.79	143	121
2033	2.86	145	124
2034	2.93	149	127
2035	3.01	154	131
2036	3.08	161	136
2037	3.16	167	140
2038	3.24	172	144
2039	3.32	178	149
2040	3.40	184	154
2041	3.49	184	154
2042	3.57	184	154
2043	3.66	184	154
2044	3.75	184	154
2045	3.85	184	154
2046	3.94	184	154
2047	4.04	184	154
2048	4.14	184	154
2049	4.25	184	154
2050	4.35	184	154
2051	4.46		
2052	4.57		
2053	4.69		
2054	4.80		
2055	4.92		
2056	5.05		
2057	5.17		
2058	5.30		
2059	5.44		
2060	5.57		
2061	5.71		
2062	5.85		
2063	6.00		
2064	6.15		
2065	6.30		
2066	6.46		
2067	6.62		
2068	6.79		
2069	6.96		
2070	7.13		

Billed retail sales MWH	
101,940,005	2011
101,686,001	2012
103,200,444	2013
105,490,286	2014
108,126,655	2015
109,787,405	2016
111,104,514	2017
112,313,386	2018
113,670,026	2019
116,014,027	2020
118,799,954	2021
121,724,855	2022
124,286,280	2023
126,775,731	2024
129,260,329	2025
131,782,300	2026
134,088,398	2027
136,356,139	2028
138,542,123	2029
140,654,235	2030
143,001,133	2031
145,378,133	2032
147,808,093	2033
150,272,627	2034
152,777,664	2035
155,324,841	2036
157,911,908	2037
160,542,473	2038
163,216,257	2039
165,928,590	2040
168,691,863	2041
171,497,204	2042
174,348,548	2043
177,246,647	2044
180,192,260	2045
183,186,164	2046
186,229,143	2047
189,321,998	2048
192,465,541	2049
195,660,596	2050
198,595,504	2051
201,574,437	2052
204,598,054	2053
207,667,024	2054
210,782,030	2055
213,943,760	2056
217,152,917	2057
220,410,210	2058
223,716,364	2059
227,072,109	2060
230,476,191	2061
233,935,363	2062
237,444,394	2063
241,006,060	2064
244,621,151	2065
248,290,468	2066
252,014,825	2067
255,795,047	2068
259,631,973	2069
263,526,453	2070

Discount and escalation rates

Discount rate=	0.0729
OM escalation=	0.0250
Capital escalation=	0.0300
End year of analysis (for summary pg.)	2047

Gas Transport data

Gas transport month before i/s date	0
-------------------------------------	---

Transmission losses data

Proxy ref year	2011
Purchase Proxy Starting Cost (\$/kw-month) =	5
Annual Escalation Rate for Proxy Purchase =	0.025
On-Peak Hours =	876
Off-Peak Hours =	7,884

Date: 3/2/2012

System Inputs2

PMAREA Inputs						1	2	3	Transmission Losses	
	System Net fuel	Startup Costs	Generation VOM	Emission Costs \$/M	Emission Offsets \$/M	System transmission rev req \$/M	System transmission rev req \$/M	System transmission rev req \$/M	Peak losses MW	Avg losses MW
2011	0	0	0	0	0					
2012	2,769	102	14	10	-13					
2013	2,871	106	12	7	-14					
2014	3,212	116	12	7	-13					
2015	3,507	120	14	7	-13					
2016	3,871	121	13	5	-13					
2017	4,199	120	12	5	-14					
2018	4,612	128	12	4	-14					
2019	4,944	133	12	5	-14					
2020	5,458	141	13	5	-15					
2021	5,998	148	17	5	-15					
2022	6,238	150	19	5	-15					
2023	6,222	154	18	385	-16					
2024	6,700	162	19	448	-16					
2025	7,320	172	19	507	-17					
2026	7,706	186	22	574	-17					
2027	8,124	194	26	675	-17					
2028	8,297	202	30	765	-18					
2029	8,616	212	35	887	-18					
2030	9,083	222	39	1,042	-19					
2031	9,377	231	43	1,185	-19					
2032	9,935	239	53	1,391	-20					
2033	10,924	248	67	1,702	-20					
2034	11,393	258	76	1,952	-21					
2035	11,861	270	81	2,217	-21					
2036	12,829	286	93	2,627	-22					
2037	13,320	293	102	2,962	-22					
2038	13,879	303	108	3,333	-23					
2039	14,477	316	115	3,718	-23					
2040	14,980	328	122	4,050	-24					
2041	15,639	343	130	4,496	-24					
2042	16,318	356	137	4,994	-25					
2043	17,266	369	149	5,680	-26					
2044	18,028	384	161	6,363	-26					
2045	18,648	401	168	7,045	-27					
2046	19,318	413	178	7,804	-28					
2047	20,016	429	189	8,638	-28					
2048	20,733	446	199	9,537	-29					
2049	21,489	465	209	10,532	-30					
2050	22,258	486	221	11,602	-31					
2051										
2052										
2053										
2054										
2055										
2056										
2057										
2058										
2059										
2060										
2061										
2062										
2063										
2064										
2065										
2066										
2067										
2068										
2069										
2070										

Miscellaneous System Costs
Revenue requirements in Millions

	1	2	3	4
	System gas added MMCF/day	System gas added MMCF/day	System gas added MMCF/day	System gas added MMCF/day
amount	400	200	0	0
year	2016	2020	0	0
month	1	1	1	1

Case name: BC2012 wCC2021

Date: 3/2/2012

Unit inputs library- non capital

Enter data in blue fields only

	[a]	[b]	[c]	[d]	[e]	[f]	[g]
	Unit name	Start Month	Ref year for OM, cap rep \$	Summer Capacity MW	Cap Rep \$/KW-year	FOM \$/KW-year	Gas transport MMCF/day
1	PEEC	6	2016	1277	22.10	7.99	0
2	GFCC	6	2016	1262	22.36	8.08	0
3	TP 1	6	2016	396			0
4	PE 3	6	2016	387			0
5	PE 4	6	2016	374			0
6	PE 1	6	2016	213			0
7	PE 2	6	2016	213			0
8	TP 2	6	2016	396			0
9	TP 1 ESP	6	2016	0			0
10	Filler 698	6	2016	698	22.36	8.08	0
11	Filler 713	6	2016	713	22.36	8.08	0
12	Filler 302	6	2016	302	22.36	8.08	0
13	Filler 498	6	2016	498	22.36	8.08	0
14	Filler	6	2016	631	22.36	8.08	0
15	TP1 SC	6	2016	0			0
16	TP2 SC	6	2016	0			0
17		6					
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Case name: BC2012 wCC2021 Date: 3/2/2012

Enter data in blue fields only
Enter costs in Millions

Revenue Requirements Generation capital costs (INPUT)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
gen. capital \$ ref year	PEEC 2016	GFCC 2020	TP 1 2014	PE 3 2014	PE 4 2014	PE 1 2014	PE 2 2014	TP 2 2014	TP 1 ESP 2016	Filter 698 2020	Filter 713 2020	Filter 302 2020	Filter 498 2020	Filter 2020	TP1 SC 2016	TP2 SC 2011		0	0	0	0	0	0	0	0

	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2011	0	0	0							0	0	0	0	0	0											
2012	0	0	0							0	0	0	0	0	0											
2013	0	0	0							0	0	0	0	0	0											
2014	0	0	0							0	0	0	0	0	0											
2015	1	0	0							1	0	0	0	0	0											
2016	130	115	0							15	0	0	0	0	0											
2017	207	192	0							14	0	0	0	0	0											
2018	199	185	0							14	0	0	0	0	0											
2019	192	179	0							13	0	0	0	0	0											
2020	618	172	133							13	74	76	32	53	67											
2021	900	166	222							12	123	126	53	88	111											
2022	867	169	214							12	118	121	51	84	107											
2023	835	163	206							11	114	116	49	81	103											
2024	804	147	195							11	110	112	47	78	99											
2025	773	142	191							10	105	108	46	75	96											
2026	744	136	184							10	102	104	44	73	92											
2027	715	130	177							9	98	100	42	70	88											
2028	687	124	170							9	94	96	41	67	85											
2029	658	118	163							9	90	92	39	64	82											
2030	630	112	157							8	87	89	37	62	78											
2031	602	106	150							8	83	85	36	59	75											
2032	573	101	143							7	79	81	34	56	72											
2033	545	95	136							7	75	77	33	54	68											
2034	517	89	130							6	72	73	31	51	65											
2035	489	83	123							6	68	69	29	48	61											
2036	461	78	116							6	64	66	28	46	58											
2037	435	74	109							5	60	62	26	43	55											
2038	409	70	103							5	57	58	25	40	51											
2039	383	65	96							5	53	54	23	38	48											
2040	359	63	90							5	50	51	21	35	45											
2041	340	60	85							4	47	48	20	34	42											
2042	324	57	81							4	45	46	19	32	40											
2043	307	54	77							4	42	43	18	30	38											
2044	290	51	72							4	40	41	17	29	35											
2045	275	48	69							3	38	39	16	27	34											
2046	232	19	65							0	36	37	16	26	33											
2047	202	0	62							0	34	35	15	25	31											
2048	181	0	59							0	33	33	14	23	29											
2049	180	0	55							0	31	31	13	22	28											
2050	72	0	22							0	12	13	5	9	11											
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NPV 2011	4.779	1.222	1.064	0	0	0	0	0	0	98	589	601	265	420	632	0	0	0	0	0	0	0	0	0	0	0

Enter data in blue fields only

Case name: BC2012 wCC2021 Date: 3/2/2012

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Enter costs in Millions

Revenue Requirements		Generation capital costs (INPUT)																							
transm. capital \$ ref year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
	2016	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2016	2011	2016	2016	2016	2016	2016	2016	2016	2016	2016
Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Case name: BC2012 wCC2021 Date: 3/2/2012

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Revenue Requirements Pipeline capital costs (INPUT)

Enter costs in Millions

								8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
pipeline capital \$ ref year	PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
	2016	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2016	2011									
Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Case name: BC2012 wCC2021 Date: 3/2/2012

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Enter costs in Millions

Revenue Requirements Misc Unit Costs

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	PEEC	GFCC	TP 1	PE 3	PE 4	PE 1	PE 2	TP 2	TP 1 ESP	Filler 698	Filler 713	Filler 302	Filler 498	Filler	TP1 SC	TP2 SC	0	0	0	0	0	0	0	0	0
\$ ref year	2016	2020	2014	2014	2014	2014	2014	2014	2016	2020	2020	2020	2020	2020	2016	2011									

	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2011	0			0	0	0	0	0	0							0	0									
2012	1			0	0	0	0	0	0							0	1									
2013	1			8	0	0	0	0	0							0	1									
2014	148			0	40	35	29	31	11							0	1									
2015	176			29	40	35	29	31	11							0	1									
2016	53			13	6	6	5	8	5							10	1									
2017	84			16	10	10	34	4	8							1	1									
2018	193			76	5	28	5	8	68							1	1									
2019	80			11	20	6	6	32	3							1	1									
2020	80			11	5	6	28	27	3							1	1									
2021	84			29	9	9	8	6	20							1	1									
2022	45			12	5	7	5	6	4							2	5									
2023	134			15	47	45	11	7	6							2	2									
2024	45			13	7	5	5	6	3							2	2									
2025	58			18	9	6	5	6	9							5	2									
2026	89			13	11	39	6	13	4							2	2									
2027	91			14	31	6	15	17	4							2	2									
2028	139			34	22	18	25	14	23							2	2									
2029	128			49	9	8	15	5	39							2	2									
2030	58			16	9	11	6	7	5							2	2									
2031	59			16	8	8	8	9	5							2	2									
2032	49			15	6	6	8	7	4							2	2									
2033	93			24	11	11	19	11	12							2	2									
2034	112			21	29	20	18	10	9							2	2									
2035	96			27	28	7	6	9	16							2	2									
2036	98			35	10	10	9	7	23							2	2									
2037	86			26	10	10	7	13	13							2	5									
2038	99			23	14	14	13	11	10							2	2									
2039	104			22	13	28	22	7	8							2	2									
2040	76			22	8	8	9	11	9							6	2									
2041	80			20	10	10	9	19	6							2	2									
2042	63			20	8	8	7	9	5							2	2									
2043	71			21	11	11	10	7	6							3	3									
2044	71			21	11	11	10	7	5							3	3									
2045	70			22	9	9	8	10	7							3	3									
2046	6															3	3									
2047	6															3	3									
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Note: do not enter data in this table

Year	Train
2011	0
2012	0
2013	0
2014	0
2015	0
2016	0
2017	5
2018	5
2019	5
2020	5
2021	21
2022	16
2023	29
2024	19
2025	19
2026	19
2027	17
2028	16
2029	16
2030	15
2031	14
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2035	12
2036	11
2037	11
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2041	10
2042	9
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2048	8
2049	7
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2070	0

[illegible]

NPV 2011

[illegible]

NPV 2011

[illegible]

NPV 2011	3625	436	.	.	.	345	.	.	.	.	.	.	.	.	.	.	.	.	.	136	130	123	117	112	106	302	287	61	66	245	77	73	68	131	62	116	110	103	48	91	43	80	37	66	.	.	.	.	.	.
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Note: do not enter data in this table

NPV 2011	3.910	2.766	1.144	-	-
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[illegible][illegible]

Q.

Has FPL issued an RFP for a 2021 power purchase agreement?

- a. If yes, have there been any responses to the request?
- b. If no, when does FPL plan to issue an RFP?

A.

- a. No.
- b. FPL has made no decision at this time.

Q.

Please complete the table below describing payments to a renewable provider based on the parameters included in FPL's revised standard offer contract. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an in-service date of January 1, 2013, and a contract duration of 20 years (1/1/13 through 12/31/32). Please provide this information for the following scenarios:

- Normal Payments
- Levelized Payments
- Early Payments
- Early Levelized Payments

	Committed Capacity (MW)	50		
	Capacity Factor (%)			
	Payment Type:			
	Energy (MWh)	Capacity Rates (\$/kw-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)Total Energy Payments (\$000)Total Payments to Renewable Provider (\$000)
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
2024				
2025				
2026				
2027				

2028				
2029				
2030				
2031				
2032				
Total				
2012 NPV				

A.
See the attached table.

Committed Capacity (MW) 50
Capacity Factor (%) 94%
Payment Type: Normal

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	3.523	2.114	73.02	30,062	30,064
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	-	-	83.98	34,578	34,578
2026	411,720	-	-	84.94	34,973	34,973
2027	411,720	-	-	87.43	35,996	35,996
2028	412,848	-	-	88.86	36,685	36,685
2029	411,720	-	-	87.27	35,930	35,930
2030	411,720	-	-	86.58	35,646	35,646
2031	411,720	-	-	86.96	35,804	35,804
2032	412,848	-	-	87.52	36,131	36,131
Total	8,240,040		2.114		577,602	577,605
2012 NPV			\$1.12		\$269,566.86	\$269,567.98

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Levelized

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	0.474	0.284	73.02	30,062	30,063
2022	411,720	0.474	0.284	74.46	30,656	30,656
2023	411,720	0.474	0.284	75.04	30,895	30,895
2024	412,848	0.474	0.284	81.20	33,524	33,525
2025	411,720	0.474	0.284	83.98	34,578	34,578
2026	411,720	0.474	0.284	84.94	34,973	34,973
2027	411,720	0.474	0.284	87.43	35,996	35,996
2028	412,848	0.474	0.284	88.86	36,685	36,685
2029	411,720	0.474	0.284	87.27	35,930	35,930
2030	411,720	0.474	0.284	86.58	35,646	35,646
2031	411,720	0.474	0.284	86.96	35,804	35,804
2032	412,848	0.474	0.284	87.52	36,131	36,131
Total	8,240,040		3.412		577,602	577,606
2012 NPV			\$1.27		\$269,566.86	\$269,568.12

Committed Capacity (MW) 50
Capacity Factor (%) 94%
Payment Type: Early

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720		-	38.48	15,843	15,843
2014	411,720		-	40.15	16,530	16,530
2015	411,720		-	41.70	17,167	17,167
2016	412,848		-	48.22	19,906	19,906
2017	411,720		-	52.29	21,528	21,528
2018	411,720		-	56.43	23,234	23,234
2019	411,720		-	60.14	24,761	24,761
2020	412,848	0.363	0.218	67.22	27,753	27,753
2021	411,720	0.374	0.224	73.02	30,062	30,062
2022	411,720	0.385	0.231	74.46	30,656	30,656
2023	411,720	0.397	0.238	75.04	30,895	30,895
2024	412,848	0.409	0.245	81.20	33,524	33,524
2025	411,720	0.421	0.253	83.98	34,578	34,578
2026	411,720	0.434	0.260	84.94	34,973	34,973
2027	411,720	0.447	0.268	87.43	35,996	35,996
2028	412,848	0.460	0.276	88.86	36,685	36,685
2029	411,720	0.474	0.284	87.27	35,930	35,930
2030	411,720	0.488	0.293	86.58	35,646	35,646
2031	411,720	0.352	0.211	86.96	35,804	35,804
2032	412,848	0.352	0.211	87.52	36,131	36,131
Total	8,240,040		3.213		577,602	577,606
2012 NPV			\$1.23		\$269,566.86	\$269,568.09

Committed Capacity (MW) 50
Capacity Factor (%) 94%
Payment Type: Early Levelized

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	0.414	0.248	67.22	27,753	27,753
2021	411,720	0.414	0.248	73.02	30,062	30,062
2022	411,720	0.414	0.248	74.46	30,656	30,656
2023	411,720	0.414	0.248	75.04	30,895	30,895
2024	412,848	0.414	0.248	81.20	33,524	33,524
2025	411,720	0.414	0.248	83.98	34,578	34,578
2026	411,720	0.414	0.248	84.94	34,973	34,973
2027	411,720	0.414	0.248	87.43	35,996	35,996
2028	412,848	0.414	0.248	88.86	36,685	36,685
2029	411,720	0.414	0.248	87.27	35,930	35,930
2030	411,720	0.414	0.248	86.58	35,646	35,646
2031	411,720	0.414	0.248	86.96	35,804	35,804
2032	412,848	0.414	0.248	87.52	36,131	36,131
Total	8,240,040		3.230		577,602	577,606
2012 NPV			\$1.25		\$269,566.86	\$269,568.11

Q.

What is FPL's next avoidable fossil fueled generating unit beyond the period covered by FPL's current Ten-Year Site Plan?

A.

FPL currently anticipates that the next avoidable fossil fueled generating unit beyond the period covered by FPL's current Ten-Year Site Plan would be a combined cycle unit in 2025.

Q.

Please complete the table below describing payments to a renewable provider based on FPL's next avoidable fossil fueled generating unit beyond the period covered by FPL's current Ten-Year Site Plan. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an in-service date of January 1, 2013 and a contract duration of 20 years (1/1/13 through 12/31/32). Please provide this information for the following scenarios:

- Normal Payments
- Levelized Payments
- Early Payments
- Early Levelized Payments

	Committed Capacity (MW)	50		
	Capacity Factor (%)			
	Payment Type:			
	Energy (MWh)	Capacity Rates (\$/kw-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)Total Energy Payments (\$000)Total Payments to Renewable Provider (\$000)
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
2024				
2025				
2026				
2027				

2028				
2029				
2030				
2031				
2032				
Total				
2012 NPV				

A.

The attached file provides the information requested. Please note that under the terms of Rule 25-17.250(3), F.A.C., the minimum term for a contract is ten years from the in-service date of the avoided unit and in this case would require that the contract extend to 2035.

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Normal

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	-	-	73.02	30,062	30,062
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	8.824	5.294	76.71	31,582	31,587
2026	411,720	9.088	5.453	78.36	32,264	32,269
2027	411,720	9.361	5.617	79.76	32,839	32,845
2028	412,848	9.642	5.785	81.18	33,517	33,523
2029	411,720	9.931	5.959	82.63	34,021	34,027
2030	411,720	10.229	6.137	84.11	34,629	34,635
2031	411,720	10.536	6.322	85.61	35,246	35,253
2032	412,848	10.852	6.511	87.14	35,974	35,980
Total	8,240,040		47.078		561,932	561,980
2012 NPV			\$14.77		\$264,182.61	\$264,197.37

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Early

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	5.916	3.550	73.02	30,062	30,066
2022	411,720	6.094	3.656	74.46	30,656	30,660
2023	411,720	6.277	3.766	75.04	30,895	30,899
2024	412,848	6.465	3.879	81.20	33,524	33,528
2025	411,720	6.659	3.995	76.71	31,582	31,586
2026	411,720	6.859	4.115	78.36	32,264	32,268
2027	411,720	7.064	4.239	79.76	32,839	32,844
2028	412,848	7.276	4.366	81.18	33,517	33,521
2029	411,720	7.495	4.497	82.63	34,021	34,026
2030	411,720	7.719	4.632	84.11	34,629	34,633
2031	411,720	7.951	4.771	85.61	35,246	35,251
2032	412,848	8.190	4.914	87.14	35,974	35,979
Total	8,240,040		50.379		561,932	561,983
2012 NPV			\$18.24		\$264,182.61	\$264,200.85

Committed Capacity (MW) **50**
Capacity Factor (%) **94%**
Payment Type: **Levelized**

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	-	-	73.02	30,062	30,062
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	9.702	5.821	76.71	31,582	31,588
2026	411,720	9.702	5.821	78.36	32,264	32,270
2027	411,720	9.702	5.821	79.76	32,839	32,845
2028	412,848	9.702	5.821	81.18	33,517	33,523
2029	411,720	9.702	5.821	82.63	34,021	34,027
2030	411,720	9.702	5.821	84.11	34,629	34,634
2031	411,720	9.702	5.821	85.61	35,246	35,252
2032	412,848	9.702	5.821	87.14	35,974	35,980
Total	8,240,040		46.568		561,932	561,979
2012 NPV			\$14.77		\$264,182.61	\$264,197.37

Committed Capacity (MW) 50
Capacity Factor (%) 94%
Payment Type: Early Levelized

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2013	411,720	-	-	38.48	15,843	15,843
2014	411,720	-	-	40.15	16,530	16,530
2015	411,720	-	-	41.70	17,167	17,167
2016	412,848	-	-	48.22	19,906	19,906
2017	411,720	-	-	52.29	21,528	21,528
2018	411,720	-	-	56.43	23,234	23,234
2019	411,720	-	-	60.14	24,761	24,761
2020	412,848	-	-	67.22	27,753	27,753
2021	411,720	7.325	4.395	73.02	30,062	30,067
2022	411,720	7.325	4.395	74.46	30,656	30,661
2023	411,720	7.325	4.395	75.04	30,895	30,899
2024	412,848	7.325	4.395	81.20	33,524	33,529
2025	411,720	7.325	4.395	76.71	31,582	31,586
2026	411,720	7.325	4.395	78.36	32,264	32,268
2027	411,720	7.325	4.395	79.76	32,839	32,844
2028	412,848	7.325	4.395	81.18	33,517	33,521
2029	411,720	7.325	4.395	82.63	34,021	34,026
2030	411,720	7.325	4.395	84.11	34,629	34,633
2031	411,720	7.325	4.395	85.61	35,246	35,251
2032	412,848	7.325	4.395	87.14	35,974	35,978
Total	8,240,040		52.737		561,932	561,985
2012 NPV			\$19.57		\$264,182.61	\$264,202.18

Q.

Please complete the table below describing payments to a renewable provider based on the parameters included in FPL's revised standard offer contract. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an in-service date of January 1, 2021 and a contract duration of 20 years (1/1/21 through 12/31/40). Please provide this information for the following scenarios:

- Normal Payments
- Levelized Payments
- Early Payments
- Early Levelized Payments

	Committed Capacity (MW)	50		
	Capacity Factor (%)			
	Payment Type:			
	Energy (MWh)	Capacity Rates (\$/kw-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh) Total Energy Payments (\$000) Total Payments to Renewable Provider (\$000)
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				
2032				
2033				
2034				
2035				
2036				

2037				
2038				
2039				
2040				
Total				
2012 NPV				

A.

Since FPL's Standard Offer Contract is based upon an avoided 2021 purchase, the "Early" and "Early Levelized" scenarios are not applicable for a contract starting on January 1, 2021. The Normal and Levelized scenarios are in the attached tables.

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Normal

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	3.523	2.114	73.02	30,062	30,064
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	-	-	83.98	34,578	34,578
2026	411,720	-	-	84.94	34,973	34,973
2027	411,720	-	-	87.43	35,996	35,996
2028	412,848	-	-	88.86	36,685	36,685
2029	411,720	-	-	87.27	35,930	35,930
2030	411,720	-	-	86.58	35,646	35,646
2031	411,720	-	-	86.96	35,804	35,804
2032	412,848	-	-	87.52	36,131	36,131
2033	411,720	-	-	87.80	36,150	36,150
2034	411,720	-	-	88.02	36,240	36,240
2035	411,720	-	-	87.74	36,126	36,126
2036	412,848	-	-	88.23	36,428	36,428
2037	411,720	-	-	87.21	35,905	35,905
2038	411,720	-	-	86.36	35,555	35,555
2039	411,720	-	-	82.94	34,149	34,149
2040	412,848	-	-	84.90	35,051	35,051
Total	4,944,024		2.114		696,482	696,484
2012 NPV			1.12		201,915	201,916

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Levelized

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	0.317	0.190	73.02	30,062	30,062
2022	411,720	0.317	0.190	74.46	30,656	30,656
2023	411,720	0.317	0.190	75.04	30,895	30,895
2024	412,848	0.317	0.190	81.20	33,524	33,524
2025	411,720	0.317	0.190	83.98	34,578	34,578
2026	411,720	0.317	0.190	84.94	34,973	34,973
2027	411,720	0.317	0.190	87.43	35,996	35,996
2028	412,848	0.317	0.190	88.86	36,685	36,685
2029	411,720	0.317	0.190	87.27	35,930	35,930
2030	411,720	0.317	0.190	86.58	35,646	35,646
2031	411,720	0.317	0.190	86.96	35,804	35,804
2032	412,848	0.317	0.190	87.52	36,131	36,131
2033	411,720	0.317	0.190	87.80	36,150	36,150
2034	411,720	0.317	0.190	88.02	36,240	36,240
2035	411,720	0.317	0.190	87.74	36,126	36,126
2036	412,848	0.317	0.190	88.23	36,428	36,428
2037	411,720	0.317	0.190	87.21	35,905	35,905
2038	411,720	0.317	0.190	86.36	35,555	35,555
2039	411,720	0.317	0.190	82.94	34,149	34,149
2040	412,848	0.317	0.190	84.90	35,051	35,051
Total	4,944,024		3.804		696,482	696,485
2012 NPV			\$1.12		201,915	201,916

Q.

Please complete the table below describing payments to a renewable provider based on FPL's next avoidable fossil fueled generating unit beyond the period covered by FPL's current Ten-Year Site Plan. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an in-service date of January 1, 2021 and a contract duration of 20 years (1/1/21 through 12/31/41). Please provide this information for the following scenarios:

- Normal Payments
- Levelized Payments
- Early Payments
- Early Levelized Payments

	Committed Capacity (MW)	50		
	Capacity Factor (%)			
	Payment Type:			
	Energy (MWh)	Capacity Rates (\$/kw-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh) Total Energy Payments (\$000) Total Payments to Renewable Provider (\$000)
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				

2031				
2032				
2033				
2034				
2035				
2036				
2037				
2038				
2039				
2040				
Total				
2012 NPV				

A.

The attached tables provides the information requested.

Committed Capacity (MW) **50**
Capacity Factor (%) **94%**
Payment Type: **Normal**

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	-	-	73.02	30,062	30,062
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	8.82	5.29	76.71	31,582	31,587
2026	411,720	9.09	5.45	78.36	32,264	32,269
2027	411,720	9.36	5.62	79.76	32,839	32,845
2028	412,848	9.64	5.79	81.18	33,517	33,523
2029	411,720	9.93	5.96	82.63	34,021	34,027
2030	411,720	10.23	6.14	84.11	34,629	34,635
2031	411,720	10.54	6.32	85.61	35,246	35,253
2032	412,848	10.85	6.51	87.14	35,974	35,980
2033	411,720	11.18	6.71	88.69	36,516	36,522
2034	411,720	11.51	6.91	90.27	37,167	37,174
2035	411,720	11.86	7.11	91.88	37,831	37,838
2036	412,848	12.21	7.33	93.53	38,612	38,619
2037	411,720	12.58	7.55	95.19	39,194	39,201
2038	411,720	12.96	7.77	96.89	39,893	39,901
2039	411,720	13.35	8.01	98.62	40,606	40,614
2040	412,848	13.75	8.25	100.39	41,444	41,452
Total	8,240,040		106.72		706,471	706,578
2012 NPV			\$25.42		\$200,669.66	\$200,695.08

Committed Capacity (MW) **50**
Capacity Factor (%) **94%**
Payment Type:

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	7.07	4.241	73.02	30,062	30,066
2022	411,720	7.28	4.368	74.46	30,656	30,661
2023	411,720	7.50	4.499	75.04	30,895	30,899
2024	412,848	7.72	4.634	81.20	33,524	33,529
2025	411,720	7.96	4.773	76.71	31,582	31,587
2026	411,720	8.19	4.917	78.36	32,264	32,269
2027	411,720	8.44	5.064	79.76	32,839	32,844
2028	412,848	8.69	5.216	81.18	33,517	33,522
2029	411,720	8.95	5.373	82.63	34,021	34,027
2030	411,720	9.22	5.534	84.11	34,629	34,634
2031	411,720	9.50	5.700	85.61	35,246	35,252
2032	412,848	9.78	5.871	87.14	35,974	35,980
2033	411,720	10.08	6.047	88.69	36,516	36,522
2034	411,720	10.38	6.228	90.27	37,167	37,174
2035	411,720	10.69	6.415	91.88	37,831	37,837
2036	412,848	11.01	6.608	93.53	38,612	38,618
2037	411,720	11.34	6.806	95.19	39,194	39,200
2038	411,720	11.68	7.010	96.89	39,893	39,900
2039	411,720	12.03	7.220	98.62	40,606	40,613
2040	412,848	12.39	7.437	100.39	41,444	41,451
Total	8,240,040		113.961		706,471	706,585
2012 NPV			\$31.40		\$200,669.66	\$200,701.06

Committed Capacity (MW)
Capacity Factor (%)
Payment Type:

50
94%
Level

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	-	-	73.02	30,062	30,062
2022	411,720	-	-	74.46	30,656	30,656
2023	411,720	-	-	75.04	30,895	30,895
2024	412,848	-	-	81.20	33,524	33,524
2025	411,720	10.641	6.384	76.71	31,582	31,588
2026	411,720	10.641	6.384	78.36	32,264	32,270
2027	411,720	10.641	6.384	79.76	32,839	32,846
2028	412,848	10.641	6.384	81.18	33,517	33,523
2029	411,720	10.641	6.384	82.63	34,021	34,028
2030	411,720	10.641	6.384	84.11	34,629	34,635
2031	411,720	10.641	6.384	85.61	35,246	35,253
2032	412,848	10.641	6.384	87.14	35,974	35,980
2033	411,720	10.641	6.384	88.69	36,516	36,522
2034	411,720	10.641	6.384	90.27	37,167	37,174
2035	411,720	10.641	6.384	91.88	37,831	37,837
2036	412,848	10.641	6.384	93.53	38,612	38,618
2037	411,720	10.641	6.384	95.19	39,194	39,200
2038	411,720	10.641	6.384	96.89	39,893	39,900
2039	411,720	10.641	6.384	98.62	40,606	40,612
2040	412,848	10.641	6.384	100.39	41,444	41,450
Total	8,240,040		102.151		706,471	706,573
2012 NPV			\$25.42		\$200,669.66	\$200,695.08

Committed Capacity (MW) **50**
Capacity Factor (%) **94%**
Payment Type: **Early Levelized**

	Energy (MWh)	Capacity Rates (\$/kW- Mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2021	411,720	9.520	5,712	73.02	30,062	30,068
2022	411,720	9.520	5,712	74.46	30,656	30,662
2023	411,720	9.520	5,712	75.04	30,895	30,901
2024	412,848	9.520	5,712	81.20	33,524	33,530
2025	411,720	9.520	5,712	76.71	31,582	31,588
2026	411,720	9.520	5,712	78.36	32,264	32,269
2027	411,720	9.520	5,712	79.76	32,839	32,845
2028	412,848	9.520	5,712	81.18	33,517	33,522
2029	411,720	9.520	5,712	82.63	34,021	34,027
2030	411,720	9.520	5,712	84.11	34,629	34,634
2031	411,720	9.520	5,712	85.61	35,246	35,252
2032	412,848	9.520	5,712	87.14	35,974	35,979
2033	411,720	9.520	5,712	88.69	36,516	36,521
2034	411,720	9.520	5,712	90.27	37,167	37,173
2035	411,720	9.520	5,712	91.88	37,831	37,837
2036	412,848	9.520	5,712	93.53	38,612	38,617
2037	411,720	9.520	5,712	95.19	39,194	39,199
2038	411,720	9.520	5,712	96.89	39,893	39,899
2039	411,720	9.520	5,712	98.62	40,606	40,611
2040	412,848	9.520	5,712	100.39	41,444	41,450
Total	8,240,040		114,237		706,471	706,585
2012 NPV			\$33.69		\$200,669.66	\$200,703.35