



September 30, 2008

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COMMISSION
CLERK

VIA HAND DELIVERY

Ms. Ann Cole, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Petition for approval of negotiated power purchase contract for purchase of firm capacity and energy with Horizon Energy Group, LLC, by Progress Energy Florida, Inc.; Docket No. 080533-EQ

Dear Ms. Cole:

Please find enclosed for filing an original and five (5) copies of Progress Energy Florida, Inc.'s responses to Staff's data request dated September 23, 2008 in the above referenced docket.

Please call me at (727) 820-5184 should you have any questions.

Sincerely,

John T. Burnett lms
John T. Burnett

COM _____
ECR _____
GCL _____
OPC _____
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ADM _____
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JTB/lms
Enclosure

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**PROGRESS ENERGY FLORIDA, INC.'S RESPONSES TO STAFF'S DATA REQUEST
DOCKET NO. 080533-EQ**

Q1. Has Horizon obtained financing for the proposed facility described in the Petition? If not, when will Horizon obtain financing for the proposed facility?

Answer: As of 9/29/08, Horizon has not obtained financing. It is unknown when they will obtain financing.

Q2. Has Horizon purchased a site for the proposed facility? If not, has Horizon set a deadline for land acquisition ?

Answer: As of 9/29/08, Horizon has not purchased a site for the proposed facility. As of this date, PEF is not aware of any deadline set for land acquisition.

Q3. Has Horizon entered into any fuel supply contracts? If so, with whom? What is the term of the contract(s)?

Answer: As of this date, PEF is not aware of any such fuel supply contracts.

Q4. Please explain how the location of the facility site may impact fuel supply costs and availability.

Answer: The location of the facility would need to be near the municipal solid waste source thereby minimizing transportation costs. The availability of municipal solid waste and the location of the facility are not related.

Q5. Please explain how the location of the facility site may impact transmission interconnection costs, such as any transmission system network upgrade charges.

Answer: The location of the facility determines the impact to the transmission system which in turn results in applicable interconnection costs and transmission system network upgrade charges, if any.

Q6. Please review the megawatts (MW) of Committed Capacity referenced in Sections 6.2 (b) and (c) of the contract and provide an explanation as to the amounts stated.

Answer: In Sections 6.2 (b) and (c) there are typographical errors, where "Forty (60) MW," should read "Sixty (60) MW." PEF will submit corrections to this effect. Sections 6.2 (b) and

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(c) are intended to allow Horizon to increase their Committed Capacity from 36 MW to 60 MW, as they may find additional fuel sources and expand the facility.

Q7. Please explain why the Horizon Petition refers to a Committed Capacity of 60 MW, while the associated contract states that approximately 36 MW is the gross electric output expected for the facility.

Answer: Horizon's business plan allows them to increase their Committed Capacity as they may find additional fuel sources and expand the facility.

Q8. Please confirm that the type of fuel referenced in Section 7.1 of the contract is municipal solid waste or indicate what other type of fuel is referenced.

Answer: The type of fuel referenced in Section 7.1 as outlined in Section 1.1 under the defined terms as "Fuel" is Municipal Solid Waste.

Q9. Please clarify the reference to "Environmental Attributes in the form of RECs" in section 8.2(e) of the contract; do the terms "Environmental Attributes" and "RECs" have identical meanings? If not, please explain their different meanings.

Answer: An Environmental Attribute is a broad term to include without limitation, any and all positive or valued environmental characteristics associated with the production of renewable energy. A Renewable Energy Credit, (REC) is one example of an environmental attribute.

Q10. Please explain in detail whether the contract entitles PEF to own the environmental attributes and/or RECs generated by the facility.

Answer: Per Section 8.2(a) PEF retains the right, title and interest in and to all Environmental Attributes associated with the production of renewable energy from the facility, except for production tax credits and RECs. PEF has an irrevocable option to purchase renewable energy credits from this facility.

Q11. Please explain why the Capacity Cost Recovery Clause would apply to this contract when the contract between PEF and Horizon is based only on payments for energy which would be recovered through the Fuel Adjustment Clause.

Answer: The capacity and energy payments are combined into one payment; therefore the contract payment rate includes both traditional capacity and energy payments.

Q12. Please refer to the “Calculation of Costs from the Horizon Contract” set forth as Exhibit B. Please define the term “As Available Energy” and explain in detail how the rate shown was calculated.

Answer: In accordance with FPSC Rule 25-17.0825, “As-Available Energy” is energy produced and sold by a qualifying facility on an hour-by-hour basis for which contractual commitments as to the quantity, time, or reliability of delivery are not required.

A production cost model is utilized to determine a forecast of avoided energy costs. All forecasted economic PEF unit constraints and system requirements necessary for program execution are input into the model. After the production cost model is executed the first time, the model is run a second time for the same period with an increase in system load equal to the forecasted “As-Available Energy” block size. The costs from the second model minus the corresponding costs from the first model, equals the energy cost avoided by PEF as a result of the “As-Available Energy” supplied by the qualifying facility.

Q13. Please explain in detail why some of the values shown in Horizon contract differ from those shown in the Vision contract. For example, the values for “Energy” and “Capacity” costs are different in the respective contracts yet both reference the same avoided unit.

Answer: The occasional differences between the Vision and Horizon cost per unit for avoided capacity and energy are the result of the method used to summarize and present the data. The avoided costs for both contracts are calculated on a monthly basis based on the same per unit rates contained in the Standard Offer filed in July 2008. The avoided costs are applied to the monthly units (MW or MWH) and rounded to thousands of dollars. The rounded monthly amounts are summarized and presented on an annual basis. The per unit rates are the result of dividing the annual avoided cost by the units for the year. As a result, a slight \$.01 to \$.02 difference between the rates presented and the Standard Offer rates can occur. An example of this calculation for 2014 avoided capacity is shown below.

	Horizon	Vision
2014 Standard Offer Avoided Capacity Cost \$/KW-month	\$ 11.11	\$ 11.11
MW	60	40
Months	12	12
Monthly Cost Rounded \$000	\$ 667	\$ 444
Sum of Monthly Cost \$000	\$ 8,004	\$ 5,328
Calculated \$/KW-month	\$ 11.12	\$ 11.10

Q14. Please explain in detail why the Horizon contract reflects a capacity factor of 89% for the avoided unit, while the capacity factor of 65% is listed in the RFP for the Suwannee River 4 avoided unit.

Answer: The Horizon contract, like many QF contracts, is a must-take contract. That is, the utility must take the energy generated by the QF. It is therefore assumed that the QF will deliver whenever it has the ability to do so. The QF will operate when it is available and that may or may not be when generation is required. Therefore, the capacity factor requirement of a QF contract reflects the anticipated availability of the avoided unit, not the capacity factor of the avoided unit.

Q15. The values shown in Exhibit B of the Horizon Contract use 60 MW for the calculations of payments to Horizon Energy. Please also provide payment calculations using 36 MW.

Answer: Please see the revised attachments for both payment calculations using 36 MW and 60 MW attached. In reviewing the data for Horizon, PEF has noticed an error in the 2035-2037 period that increases the benefit of the contract from \$86 MM to \$92 MM. The error resulted from the omission of the 2035-2037 avoided capacity payments in the analysis. PEF has corrected the error and attached a revised analysis for the 60 MW committed capacity as well as the 36 MW committed capacity.

Q16. The Petition states that under the performance provisions of the contract, the total payment rate is reduced by 10% if the twelve-month rolling capacity factor drops below 70%. Is this a sliding scale? If Horizon performs at 90%, 80% or 70% capacity factor, would payments stay the same? If not, please explain the payment calculations.

Answer: If Horizon performs at a twelve-month rolling capacity factor of less than 70%, the payment rate will be reduced. If Horizon performs at a twelve-month rolling capacity factor of 70% or greater, the payment rate remains the same. The payment rate includes both capacity and energy and the penalty for not delivering is more immediate and greater than traditional energy and capacity payment structures.

Q17. Please explain in detail how PEF plans to compensate for energy should there be reduced performance by Horizon.

Answer: Similar to any other resource, if Horizon fails to perform as anticipated, PEF will adjust its generation dispatch or existing purchase power agreements or make additional purchases to compensate.

Q18. The Petition refers to a committed capacity of 60 MW, but contract appears to states that approximately 36 MW is the gross electric output expected for the facility, but Section 6.2(b) appears to allow for the committed capacity to be greater. Please indicate if this analysis is correct or explain why is not.

Answer: PEF allowed Horizon the flexibility to designate a committed capacity between 30 and 60 MW. PEF chose to present an analysis at 60 MW to present the highest cost option. The costs and savings for a project with a lower committed capacity will be proportional.

Q19. If Horizon provides less than 60 MW, how does PEF intend to compensate for energy resulting from this lower committed capacity given its goal established in the Petition?

Answer: If Horizon provides a committed capacity of less than 60 MW, PEF will adjust its other resources to compensate.

Q20. According to Section 6.9(e) of the contract, PEF will receive 100% of the applicable security established in Section 6.9(c) of the contract, in the case of a Seller Non-Remedial Event. What does PEF intend to do with this security?

Answer: PEF will credit the security back through the Fuel Adjustment Clause and the Capacity Cost Recovery Clause thereby offsetting some of the cost of replacement energy and capacity.

Q21. Section 17.1(a)(xi) of the contract states that if the Seller fails to maintain a given Annual Capacity Billing Factor of at least (confidential) % for 12 months or more, the failure is considered a "Remediable Event of Default by Seller." Section 17.1(b)(ii) of the contract appears to indicate that, after the capacity commencement date, if the facility fails for 12 months to maintain an Annual Capacity Billing Factor of at least (confidential) %, the failure is considered a "Non-Remedial Event of Default by Seller." Please explain in detail how these sections relate to each other.

Answer: PEF is in on-going discussions to resolve this issue with Horizon. Corrections will be submitted at a later date.

Q22. Please explain in detail why PEF chose to negotiate this project with Horizon outside a request for proposal process.

Answer: Good faith contract negotiations with Horizon began in August 2007. Commission rules require PEF to negotiate in good faith with qualifying renewable energy producers in an attempt to reach a negotiated power purchase agreement without consideration of any request for proposal or similar competitive bidding process for renewable energy.

Dollars in \$000

Payments to Horizon Energy:

	NPV	Nominal	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Months		300	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Capacity MW		36	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
Energy MWh	2,091,916	7,021,439	-	-	-	-	-	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673
Energy \$/MWh	\$ 64.00	\$ 64.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	
Energy Payments	\$ 133,889	\$ 449,394	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964
Total Payments	\$ 133,889	\$ 449,394	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964	\$ 17,964	\$ 17,964	\$ 18,013	\$ 17,964

2013 CC Avoided Costs:

Months		295	0	0	0	0	0	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Energy MWh	2,091,916	7,021,439	-	-	-	-	-	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673	280,673	280,673	281,442	280,673
Capacity Factor			0	0	0	0	0	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%
Heat Rate			-	-	-	-	-	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134
Capacity \$/kw-mo.	\$	17.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10.69	\$ 11.11	\$ 11.56	\$ 12.00	\$ 12.47	\$ 12.94	\$ 13.47	\$ 13.97	\$ 14.53	\$ 15.11	\$ 15.69	\$ 16.31	\$ 16.94	\$ 17.61	\$ 18.31	\$ 19.03	\$ 19.78	\$ 20.56	\$ 21.36	\$ 22.19	\$ 23.06	\$ 23.97	\$ 24.92	\$ 25.89	\$ 26.92
Energy \$/MWh	\$	72.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61.49	\$ 63.24	\$ 66.23	\$ 62.97	\$ 59.24	\$ 60.58	\$ 61.94	\$ 63.33	\$ 64.76	\$ 66.22	\$ 67.70	\$ 69.22	\$ 70.78	\$ 72.38	\$ 74.00	\$ 75.67	\$ 77.36	\$ 79.11	\$ 80.89	\$ 82.71	\$ 84.58	\$ 86.48	\$ 88.43	\$ 90.41	\$ 92.45
Total \$/MWh	\$	90.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70.08	\$ 80.35	\$ 84.01	\$ 81.39	\$ 78.44	\$ 80.50	\$ 82.67	\$ 84.78	\$ 87.12	\$ 89.47	\$ 91.86	\$ 94.25	\$ 96.86	\$ 99.48	\$ 102.18	\$ 104.88	\$ 107.81	\$ 110.75	\$ 113.77	\$ 116.78	\$ 120.06	\$ 123.37	\$ 126.78	\$ 130.15	\$ 133.87
Capacity Cost	\$	47,138	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,695	\$ 4,800	\$ 4,992	\$ 5,184	\$ 5,388	\$ 5,592	\$ 5,820	\$ 6,036	\$ 6,276	\$ 6,528	\$ 6,780	\$ 7,044	\$ 7,320	\$ 7,608	\$ 7,908	\$ 8,220	\$ 8,544	\$ 8,880	\$ 9,228	\$ 9,588	\$ 9,960	\$ 10,356	\$ 10,764	\$ 11,184	\$ 11,628
Energy Cost	\$	141,860	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,974	\$ 17,751	\$ 18,568	\$ 17,723	\$ 16,627	\$ 17,003	\$ 17,384	\$ 17,824	\$ 18,176	\$ 18,585	\$ 19,002	\$ 19,481	\$ 19,866	\$ 20,314	\$ 20,770	\$ 21,298	\$ 21,714	\$ 22,205	\$ 22,703	\$ 23,278	\$ 23,738	\$ 24,272	\$ 24,819	\$ 25,445	\$ 25,947
Total Avoided Cost	\$	188,998	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,669	\$ 22,551	\$ 23,580	\$ 22,907	\$ 22,015	\$ 22,595	\$ 23,204	\$ 23,860	\$ 24,452	\$ 25,113	\$ 25,782	\$ 26,525	\$ 27,186	\$ 27,922	\$ 28,678	\$ 29,518	\$ 30,258	\$ 31,085	\$ 31,931	\$ 32,866	\$ 33,698	\$ 34,628	\$ 35,583	\$ 36,629	\$ 37,575
Net Benefit (Cost)	\$	55,109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,705	\$ 4,587	\$ 5,616	\$ 4,894	\$ 4,051	\$ 4,631	\$ 5,240	\$ 5,847	\$ 6,488	\$ 7,149	\$ 7,818	\$ 8,512	\$ 9,222	\$ 9,958	\$ 10,714	\$ 11,505	\$ 12,294	\$ 13,121	\$ 13,967	\$ 14,853	\$ 15,734	\$ 16,664	\$ 17,619	\$ 18,616	\$ 19,611

Payments To Horizon:

Annual NPV	\$	133,889	-	-	-	-	-	12,038	11,097	10,229	9,453	8,691	8,011	7,385	6,825	6,274	5,784	5,332	4,927	4,530	4,175	3,849	3,557	3,270	3,014	2,779	2,568	2,361	2,176	2,006	1,854	1,704
Cumulative NPV			-	-	-	-	-	12,038	23,135	33,364	42,818	51,508	59,520	66,905	73,729	80,004	85,787	91,119	96,046	100,575	104,751	108,600	112,157	115,427	118,441	121,220	123,788	126,149	128,325	130,331	132,185	133,889

2013 CC Avoided Costs:

Annual NPV	\$	188,998	-	-	-	-	-	13,181	13,930	13,427	12,022	10,650	10,077	9,539	9,040	8,540	8,085	7,652	7,255	6,855	6,490	6,145	5,829	5,508	5,216	4,939	4,685	4,428	4,195	3,974	3,770	3,565
Cumulative NPV			-	-	-	-	-	13,181	27,111	40,538	52,560	63,211	73,287	82,826	91,867	100,407	108,492	116,144	123,399	130,254	136,744	142,889	148,717	154,225	159,442	164,381	169,066	173,495	177,690	181,663	185,433	188,998
Net Benefit (Cost):	\$	55,109	-	-	-	-	-	1,143	2,834	3,198	2,568	1,960	2,065	2,154	2,215	2,266	2,302	2,320	2,328	2,325	2,315	2,296	2,272	2,238	2,202	2,160	2,117	2,068	2,019	1,968	1,916	1,861
Annual NPV			-	-	-	-	-	1,143	3,976	7,174	9,742	11,702	13,768	15,922	18,137	20,403	22,705	25,025	27,353	29,679	31,993	34,289	36,561	38,799	41,000	43,161	45,278	47,346	49,365	51,332	53,248	55,109
Cumulative NPV			-	-	-	-	-	1,143	5,952	13,149	22,891	34,593	48,361	64,283	82,410	102,813	125,518	150,543	177,896	207,521	239,514	273,807	309,606	346,905	384,905	423,605	462,905	502,905	543,605	585,005	627,105	669,905

Dollars in \$000

	NPV	Nominal	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037		
Payments to Horizon Energy:																																		
Months		300	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Capacity MW		60	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Energy MWh	3,486,516	11,702,361	-	-	-	-	-	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	
Energy \$/MWh	\$ 64.00	\$ 64.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	\$ 64.00	
Energy Payments	\$ 223,164	\$ 749,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	
Total Payments	\$ 223,164	\$ 749,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	\$ 29,942	\$ 30,024	\$ 29,942	\$ 29,942	
2013 CC Avoided Costs:																																		
Months		295	0	0	0	0	0	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Energy MWh	3,486,516	11,702,361	-	-	-	-	-	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	467,787	469,068	467,787	467,787	
Capacity Factor			0	0	0	0	0	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	
Heat Rate								7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	7,134	
Capacity \$/kw-mo.	\$	17.43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10.70	\$ 11.12	\$ 11.55	\$ 12.00	\$ 12.47	\$ 12.95	\$ 13.47	\$ 13.98	\$ 14.53	\$ 15.10	\$ 15.70	\$ 16.30	\$ 16.95	\$ 17.62	\$ 18.30	\$ 19.02	\$ 19.77	\$ 20.55	\$ 21.35	\$ 22.18	\$ 23.07	\$ 23.97	\$ 24.90	\$ 25.88	\$ 26.90		
Energy \$/MWh	\$	72.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61.50	\$ 63.24	\$ 66.22	\$ 62.97	\$ 59.24	\$ 60.57	\$ 61.93	\$ 63.33	\$ 64.75	\$ 66.21	\$ 67.70	\$ 69.22	\$ 70.78	\$ 72.37	\$ 74.00	\$ 75.67	\$ 77.37	\$ 79.12	\$ 80.90	\$ 82.71	\$ 84.57	\$ 86.48	\$ 88.42	\$ 90.41	\$ 92.44		
Total \$/MWh	\$	90.34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70.09	\$ 80.35	\$ 84.00	\$ 81.38	\$ 78.43	\$ 80.51	\$ 82.66	\$ 84.79	\$ 87.12	\$ 89.45	\$ 91.87	\$ 94.24	\$ 96.87	\$ 99.49	\$ 102.17	\$ 104.86	\$ 107.79	\$ 110.74	\$ 113.76	\$ 116.76	\$ 120.08	\$ 123.37	\$ 126.75	\$ 130.14	\$ 133.85		
Capacity Cost	\$	78,558	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,494	\$ 8,004	\$ 8,316	\$ 8,640	\$ 8,976	\$ 9,324	\$ 9,696	\$ 10,068	\$ 10,464	\$ 10,872	\$ 11,304	\$ 11,736	\$ 12,204	\$ 12,684	\$ 13,176	\$ 13,692	\$ 14,232	\$ 14,796	\$ 15,372	\$ 15,972	\$ 16,608	\$ 17,256	\$ 17,928	\$ 18,636	\$ 19,368		
Energy Cost	\$	236,428	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,291	\$ 29,584	\$ 30,979	\$ 29,535	\$ 27,711	\$ 28,336	\$ 28,972	\$ 29,706	\$ 30,291	\$ 30,972	\$ 31,670	\$ 32,470	\$ 33,112	\$ 33,856	\$ 34,618	\$ 35,494	\$ 36,193	\$ 37,009	\$ 37,842	\$ 38,796	\$ 39,563	\$ 40,453	\$ 41,363	\$ 42,409	\$ 43,244		
Total Avoided Cost	\$	314,986	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,785	\$ 37,588	\$ 39,295	\$ 38,175	\$ 36,687	\$ 37,660	\$ 38,668	\$ 39,774	\$ 40,755	\$ 41,844	\$ 42,974	\$ 44,206	\$ 45,316	\$ 46,540	\$ 47,794	\$ 49,186	\$ 50,425	\$ 51,805	\$ 53,214	\$ 54,768	\$ 56,171	\$ 57,709	\$ 59,291	\$ 61,045	\$ 62,612		
Net Benefit (Cost)	\$	91,822	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,843	\$ 7,646	\$ 9,353	\$ 8,151	\$ 6,745	\$ 7,718	\$ 8,726	\$ 9,750	\$ 10,813	\$ 11,902	\$ 13,032	\$ 14,182	\$ 15,374	\$ 16,598	\$ 17,852	\$ 19,162	\$ 20,483	\$ 21,863	\$ 23,272	\$ 24,744	\$ 26,229	\$ 27,767	\$ 29,349	\$ 31,021	\$ 32,670		
Payments To Horizon:																																		
Annual NPV	\$	223,164	-	-	-	-	-	20,065	18,496	17,050	15,757	14,485	13,353	12,309	11,375	10,458	9,640	8,886	8,212	7,550	6,960	6,415	5,929	5,450	5,024	4,632	4,280	3,935	3,627	3,344	3,090	2,841		
Cumulative NPV			-	-	-	-	-	20,065	38,561	55,611	71,368	85,853	99,206	111,516	122,891	133,349	142,989	151,875	160,087	167,637	174,597	181,012	186,941	192,391	197,416	202,047	206,328	210,262	213,890	217,233	220,323	223,164		
2013 CC Avoided Costs:																																		
Annual NPV	\$	314,986	-	-	-	-	-	21,970	23,219	22,376	20,035	17,749	16,795	15,896	15,070	14,234	13,472	12,754	12,092	11,426	10,817	10,240	9,713	9,179	8,693	8,231	7,808	7,382	6,991	6,621	6,283	5,940		
Cumulative NPV			-	-	-	-	-	21,970	45,189	67,565	87,600	105,348	122,143	138,040	153,109	167,344	180,816	193,570	205,661	217,087	227,905	238,145	247,858	257,037	265,730	273,962	281,769	289,151	296,142	302,763	309,046	314,986		
Net Benefit (Cost):																																		
Annual NPV	\$	91,822	-	-	-	-	-	1,905	4,723	5,326	4,278	3,263	3,442	3,587	3,694	3,777	3,832	3,868	3,879	3,876	3,858	3,825	3,784	3,729	3,669	3,600	3,528	3,447	3,364	3,277	3,193	3,100		
Cumulative NPV			-	-	-	-	-	1,905	6,628	11,954	16,232	19,495	22,937	26,524	30,218	33,995	37,827	41,695	45,574	49,450	53,308	57,133	60,917	64,646	68,314	71,914	75,442	78,889	82,252	85,530	88,723	91,822		