



Florida Power & Light Company, 215 S. Monroe Street, Suite 810, Tallahassee, FL 32301

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COMMISSION CLERK

Jessica Cano  
Principal Attorney  
Florida Power & Light Company  
700 Universe Boulevard  
Juno Beach, FL 33408-0420  
(561) 304-5226  
(561) 691-7135 (Facsimile)

March 4, 2011

VIA HAND DELIVERY

110000-OT

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

**RE: Florida Power & Light Company's Ten-Year Site Plan - Data Request  
Regarding Planned Solar Power Plants**

Dear Ms. Cole:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") are an original and five (5) copies of FPL's responses to Staff's Data Request No. 1 "Regarding Planned Solar Power Plants," along with an introduction to FPL's responses. These responses are being filed today consistent with a 2-day extension for responding allowed by Staff. Please contact me if you or your staff has any questions regarding this filing.

Sincerely,

Jessica A. Cano

Enclosures

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01474 MAR -4 =

FPSC-COMMISSION CLERK

**Introduction to FPL's Responses to Staff's Data Request No. 1  
"Regarding Planned Solar Power Plants"**

Included herewith are FPL's responses to Staff's Data Request Number 1 Regarding Planned Solar Plants. Because no legislation supporting utility development of new solar power generation facilities has been passed at this time, FPL has not fully developed specific solar projects at specific power plant sites. Rather, FPL has identified potential sites for solar development and performed initial permitting and due diligence with respect to available solar and other renewable power technologies that may be used depending upon the outcome of supporting legislation. Therefore, FPL is responding to this data request on the basis of this preliminary information. FPL's responses assume a typical 100 megawatt photovoltaic facility and use indicative performance characteristics for solar panels, inverters and other necessary equipment that has been provided to FPL by leading solar manufacturers. This size and solar technology is illustrative of the type of solar power project that FPL might pursue if appropriate supporting legislation is enacted.

It is important to note that the cost assumptions for commodities, labor, etc. should be expected to change between the time of this data request response and the development of an actual solar power project. Similarly, the performance characteristics of various technologies are likely to change over time. In addition, any particular project that may be pursued may have site-specific requirements that vary from the typical solar project assumed in these responses (e.g., different electrical interconnection requirements, environmental mitigation requirements, etc.), each of which would affect the total cost of the project. Finally, please note that FPL is in the process of developing the forecasts that will underlie its 2011 Ten Year Site Plan. Accordingly, inputs and forecasts used to develop these responses may not precisely match the inputs and forecasts ultimately included in FPL's 2011 Ten Year Site Plan (or subsequent data request responses related to solar projects).

Additional solar generation will provide a number of benefits not indicated in the particular responses included herewith, because not called for by the data requests. For example, solar generation projects will provide a number of construction jobs in the state of Florida and substantial tax revenues for local communities. Additionally, solar power will contribute to fuel diversity for FPL's system.

DOCUMENT NUMBER-DATE

01474 MAR-4 =

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**Florida Power & Light Company**  
**Docket No.**  
**2011 Ten-Year Site Plan - Staff's Data Request No. 1**  
**Interrogatory No. 1**  
**Page 1 of 1**

**Q.**  
Please complete the table below describing the costs of any planned solar plants.

**A.**  
As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

	Projected Total	Overnight	Total Installed Costs	Variable O&M
Solar Project	Capital Cost (\$Millions)	Construction Costs (\$/kw)	(\$/kw)	(\$/MWH)
100 MW PV	425	4,250	4,454	0

The total capital cost includes land and transmission interconnection costs. These costs are based on an average of the current land prices and expected interconnection requirements for several projects that FPL is currently assessing for potential future development. Other projects that may be developed further into the future could have land and/or transmission costs that are higher or lower than the costs assumed for this response based on the specific project location (e.g., proximity to transmission and transmission capacity, land values, etc).

Total Installed Costs for this solar case include overnight construction costs plus an assumed cost of capital charge during the construction period. It should be noted that since solar costs are typically recovered during the construction phase, AFUDC is usually not a part of the installation cost.

Please note that, in general, solar photovoltaic projects do not have variable O&M costs, as O&M costs are not a function of the output of the solar PV installation. All O&M costs for solar project are therefore considered as Fixed O&M. Solar project Fixed O&M costs are included in the responses to the subsequent interrogatories Nos. 6, 12 and 13.

**Q.**  
Please complete the table below describing the costs for a typical combustion turbine.

**A.**  
At this time, FPL does not expect that its 2011 Ten Year Site Plan will include any new combustion turbines. Therefore, FPL's response to this interrogatory uses indicative information based on a typical combustion turbine (CT) facility, not on a specific planned project.

The CT assumed for this response is a simple-cycle combustion turbine, 7FA technology, with a summer rating of 162 MW, located at a greenfield site.

	Projected Total Capital Cost (\$Millions)	Overnight Construction Costs (\$/kw)	Total Installed Costs (\$/kw)	Variable O&M (\$/MWH)
CT	144	891	953	0.15

Capital costs include land and transmission interconnection costs. Land costs were based on typical land costs in FPL's service territory. Total installed costs were defined as the sum of overnight capital costs and AFUDC.

**Florida Power & Light Company**

**Docket No.**

**2011 Ten-Year Site Plan - Staff's Data Request No. 1**

**Interrogatory No. 3**

**Page 1 of 1**

**Q.**

Please complete the table below describing the typical performance characteristics of any planned solar plants.

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

<b>Solar Project</b>	<b>MWHac/Year</b>	<b>Summer Capacity Factor</b>	<b>Winter Capacity Factor</b>	<b>Average Capacity Factor</b>
		<b>(% on-peak)</b>	<b>(% on-peak)</b>	
<b>New Solar</b>	<b>199,500</b>	<b>32.9%</b>	<b>15.9%</b>	<b>22.8%</b>

1. Summer capacity % on peak is April through October, weekdays 1PM - 9PM.
2. Winter capacity % on peak is January through March, November and December, weekdays 7AM to10AM and 7PM to10PM.
3. Capacity factors assume 100% plant availability.
4. This information is based on projected DeSoto Next Generation Solar Energy Center generation, scaled up to 100 MW, and presented as a 30 year average. The values are based on a SunPower tracker used at DeSoto Next Generation Solar Energy Center. FPL would expect that the generic facility assumed for its responses would perform similarly at this location.

**Florida Power & Light Company**  
**Docket No.**  
**2011 Ten-Year Site Plan - Staff's Data Request No. 1**  
**Interrogatory No. 4**  
**Page 1 of 1**

**Q.**  
Please complete the table below describing the typical performance characteristics of a typical combustion turbine.

**A.**  
The annual generation and capacity factor of a typical combustion turbine are shown below. These are average values over a 30 year life.

	MWH/Year	Summer Capacity Factor (% on-peak)	Winter Capacity Factor (% on-peak)	Average Capacity Factor%
CT	42,996	5%	0%	3%

The capacity factors provided are for all the summer hours and all the winter hours. It can be assumed that for the combustion turbine most of the operating hours will take place during the on-peak hours.

Summer months are defined as April - October. Winter months are November - March.

**Q.**

Please complete the table below describing the timeline of each planned solar plant.

Solar Project	Construction Start Date	Commercial In-Service Date	Technology Type	Capacity

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities.

FPL's current best estimate is that construction of a 100 MW solar PV plant could commence within 3 months of receiving all legislative and regulatory approvals to proceed. The commercial in-service date for such a facility would be dictated by a construction timeline that is ultimately dependant on the site location, technology implemented, equipment availability and other factors such as the site specific electrical interconnection requirements. Our current expectation for a typical 100 MW solar PV plant is that construction could be completed in approximately one year.

**Q.**  
Please provide the levelized cost (in \$/kwh) for various capacity factors for any planned solar plants and for a typical combustion turbine. Please provide the raw data and a chart depicting this information. Please include assumptions used to develop values.

**A.**  
As stated in the introduction, FPL is assuming a typical 100 MW Greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities

FPL does not believe that the information requested by Staff in this question provides a meaningful comparison between a solar photovoltaic facility and a combustion turbine, FPL is nevertheless providing the requested information in the attached chart and tables (Chart Int-6, Table 6-2, Table 6-3a and Table 6-3b). In this response, FPL is also providing what it believes to be a more meaningful comparison. This alternate comparison is shown in the attached tables 6-4a and 6-4b.

The comparison of two very dissimilar resource options as a solar (PV) option and a combustion turbine using a levelized cost of electricity approach as requested cannot provide meaningful information about the relative economics of these two resource options if either were to be added to FPL's system. A levelized cost of electricity approach is useful as a preliminary economic screening tool only if the resource options in question are identical, or virtually identical, in regard to at least the following four attributes: (i) size (MW), (ii) firmness of capacity, (iii) capacity factor, and (iv) operating life. If the resource options in question differ in even one of these attributes, then a levelized cost of electricity approach cannot provide meaningful results even for preliminary analyses. This is because two dissimilar resource options will impact the FPL system in very different ways. These significant system impacts are simply not captured in a levelized cost of electricity approach. PV and combustion turbines are typically dissimilar in regard to all four of these attributes.

For example, the two resource options are completely different in regard to the firmness of their capacity. PV would be a non-firm energy (MWH) source which results in reduction of system fossil fuel use and air emissions. On the other hand, combustion turbine options would represent a firm capacity (MW) source that relies upon fossil fuel. There are also typically differences in regard to size (MW), capacity factor, and operating life as well between these two dissimilar resource options.

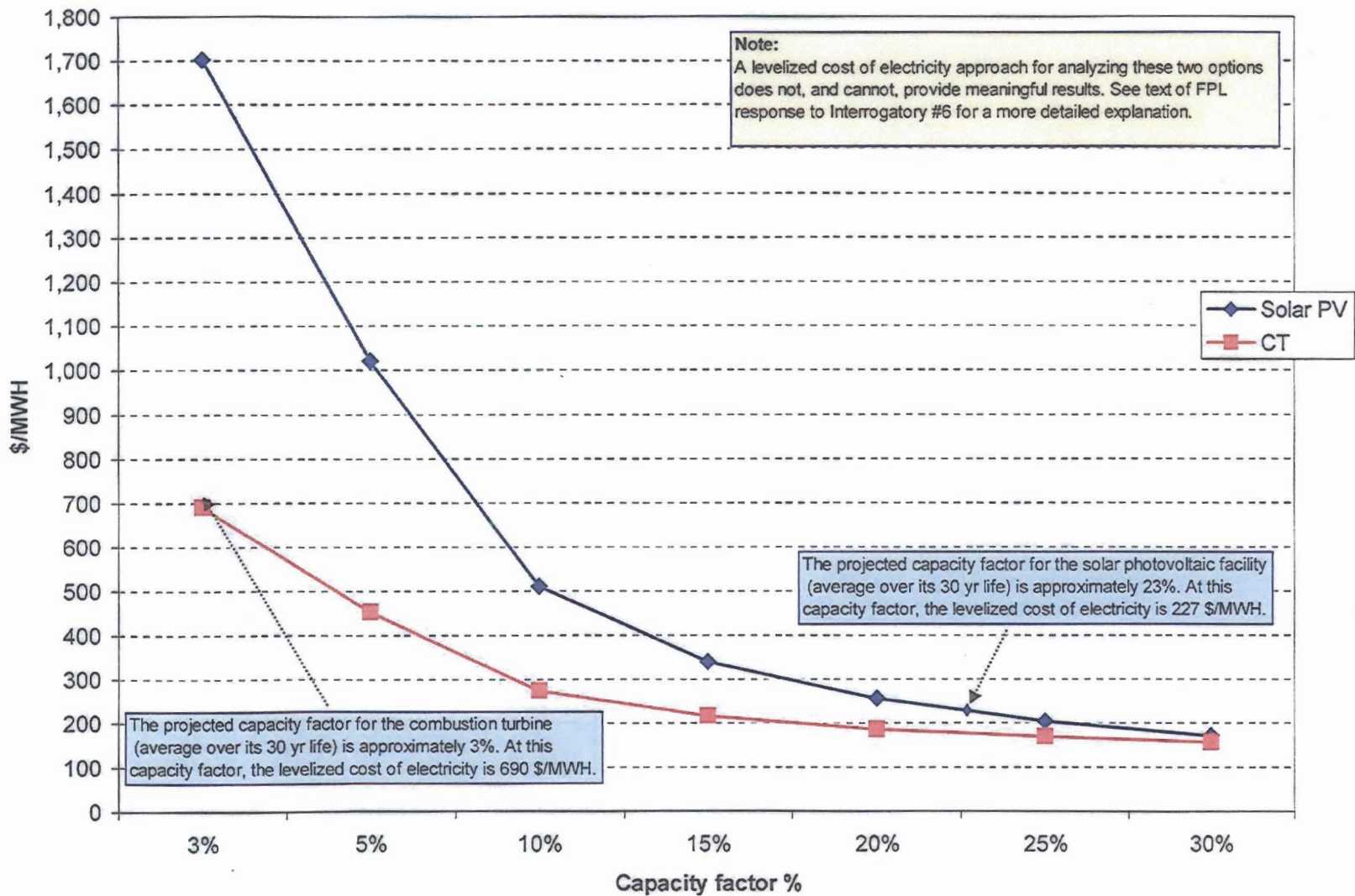
Consequently, the levelized cost of electricity approach for analyzing these two options prescribed in this interrogatory does not, and cannot, provide meaningful results. If a comparison of the cost of electricity associated with adding either of two resource alternatives to FPL's system is to provide meaningful information, the comparison must



reflect all system impacts caused by the addition of each alternative, such as effects to system fuel costs and system environmental costs, as well as capacity deferral effects from resource options that provide firm capacity. In addition, the analysis of the FPL resource portfolio with each of the alternatives must be based on a system simulation that provides a reasonable projection of the generation to be provided by each of the alternative resources, not a pre-determined, unsupported range of assumed capacity factors.

FPL has computed the cost of electricity generated by these two resources on a total cost basis, including all system impacts. This was done by analyzing FPL's portfolio reflecting in one case the addition of a solar photovoltaic installation to FPL's portfolio and, in a second case, the addition of a combustion turbine to FPL's portfolio. For both cases, the system impacts included system savings from avoided fuel, emissions, and O&M costs. For the case with the combustion turbine, which provides firm capacity, the system impacts also include all cost effects from deferring other generating units in FPL's resource plan. Using this approach, FPL computed an annual cost of electricity generated including system effects, for each of the two alternatives. The differential in annual system revenue requirements between each of the two cases, (each of these cases includes one of the resource option being considered) and a base case without either option, is divided by the generation produced by that resource option in that year. This produces a cost, in dollars per MWH, including system effects, attributable to that option. This annual cost per MWH produced by each option can then be levelized over the life of the project to produce one value. This levelized cost of electricity generated including system impacts was determined to be \$123 per MWH for the solar photovoltaic facility and \$655 per MWH for the combustion turbine. Please see tables 6-4a and 6-4b.

### Levelized Costs of Electricity - Solar PV and Combustion Turbine Interrogatory 6



Florida Power & Light Company

Docket No.

2011 Ten-Year Site Plan - Staff's Data Request No. 1

Interrogatory No. 6

Table 6-2

Capacity Factor	Levelized Cost of Electricity \$/MWH	
	Solar PV	CT
3%	1,702	690
5%	1,021	453
10%	511	275
15%	340	216
20%	255	186
25%	204	168
30%	170	156

**Notes:**

This table is provided at the request of Staff; however, a levelized cost of electricity approach for analyzing these two options does not, and cannot, provide meaningful results. See text of FPL response to Interrogatory #6 for a more detailed explanation.

These levelized costs of electricity include only the costs associated with each of the two facilities as stand alone units. They do not include the costs associated with operating these units as part of the FPL system (i.e. system impacts), which need to be considered in a proper economic analysis.

Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 6  
Table 6-3a

**Assumptions for levelized cost of electricity  
Solar PV 100 MW**

	Annual Costs, \$millions		
	Capital	FOM+capital replacement	total
2011	7	0	7
2012	51	2	53
2013	60	2	62
2014	54	2	56
2015	50	2	52
2016	47	2	49
2017	44	2	46
2018	42	3	45
2019	41	3	44
2020	39	3	42
2021	38	3	41
2022	37	3	40
2023	35	3	39
2024	34	3	37
2025	32	4	36
2026	31	4	35
2027	30	4	33
2028	28	4	32
2029	27	4	31
2030	25	4	29
2031	24	4	28
2032	23	4	27
2033	21	4	26
2034	20	5	25
2035	19	5	23
2036	17	5	22
2037	16	5	21
2038	15	6	20
2039	14	6	20
2040	13	7	20
2041	11	8	20
2042	4	5	9

**Notes:**

This table is provided at the request of Staff; however, a levelized cost of electricity approach for analyzing these two options does not, and cannot, provide meaningful results. See text of FPL response to Interrogatory #6 for a more detailed explanation.

These levelized costs of electricity include only the costs associated with each of the two facilities as stand alone units. They do not include the costs associated with operating these units as part of the FPL system (i.e. system impacts), which need to be considered in a proper economic analysis.

**Assumptions for levelized cost of electricity  
Combustion turbine**

	Annual costs \$millions			Fuel cost at various capacity factors (\$millions)						
	Capital revenue requirements	FOM + capital replacement	gas transportation cost	total (not incl. fuel)	5%	10%	15%	20%	25%	30%
2011	0	0	0	0	-	-	-	-	-	-
2012	15	1	3	24	2	5	7	10	12	14
2013	25	1	6	39	4	9	13	17	21	26
2014	24	1	6	38	4	9	13	17	22	26
2015	23	1	6	37	5	9	14	19	23	28
2016	22	14	6	49	5	10	15	20	26	31
2017	21	1	6	37	6	11	17	22	28	33
2018	21	1	6	36	6	12	18	24	30	36
2019	20	1	6	36	6	13	19	25	32	38
2020	19	1	6	35	7	13	20	27	33	40
2021	18	1	6	35	7	14	21	28	35	42
2022	17	9	6	42	8	15	23	30	38	46
2023	16	1	6	34	8	16	24	32	41	49
2024	15	1	6	34	9	17	26	35	43	52
2025	14	1	6	34	9	18	28	37	46	55
2026	14	2	6	33	9	19	28	38	47	56
2027	13	2	6	32	10	19	29	38	48	57
2028	12	9	6	40	10	20	29	39	49	59
2029	12	2	6	32	10	20	30	40	50	60
2030	11	2	6	32	10	20	30	41	51	61
2031	11	2	6	31	10	21	31	41	52	62
2032	10	2	6	31	11	21	32	42	53	63
2033	10	2	6	31	11	21	32	43	54	64
2034	9	7	6	36	11	22	33	44	55	66
2035	9	3	6	32	11	22	33	45	56	67
2036	9	2	6	30	11	23	34	45	57	68
2037	8	2	6	30	12	23	35	46	58	69
2038	8	7	6	35	12	24	35	47	59	71
2039	7	4	6	32	12	24	36	48	60	72
2040	7	2	6	30	12	24	37	49	61	73
2041	7	2	6	30	12	25	37	50	62	75
2042	3	3	2	14	5	11	16	21	26	32

**Notes:**

This table is provided at the request of Staff; however, a levelized cost of electricity approach for analyzing these two options does not, and cannot, provide meaningful results. See text of FPL response to Interrogatory #6 for a more detailed explanation.

These levelized costs of electricity include only the costs associated with each of the two facilities as stand alone units. They do not include the costs associated with operating these units as part of the FPL system (i.e. system impacts), which need to be considered in a proper economic analysis.

Table 6-4a

**100 MW generic solar photovoltaic facility  
System annual revenue requirements  
Differential between base case and solar photovoltaic case**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Capital Revenue Requirements \$ millions	FOM \$ millions	Capital replacement \$ millions	Fuel transport Cost \$ millions	Total Fixed \$ millions	System Fuel \$ millions	System Emissions \$ millions	System variable O&M \$ millions	Total variable \$ millions	Net revenue requirements \$ millions	Solar generation MWH	annual cost of generation including system impacts \$/MWH
2011	6.9	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	6.9	0	0
2012	51.4	1.9	0.0	0.0	53.3	-5.0	0.0	0.0	-5.0	48.3	124,960	389
2013	36.7	2.8	0.0	0.0	39.5	-9.0	0.0	0.0	-9.0	30.5	218,780	262
2014	54.1	2.1	0.0	0.0	56.2	-10.0	0.0	0.0	-10.0	46.2	218,770	213
2015	50.2	2.2	0.0	0.0	52.4	-12.0	0.0	0.0	-12.0	40.3	218,390	187
2016	48.9	2.3	0.0	0.0	49.2	-11.9	0.0	-1.0	-12.9	37.2	214,690	173
2017	44.1	2.4	0.0	0.0	46.5	-13.0	-3.1	0.0	-16.1	30.4	212,990	143
2018	42.2	2.5	0.0	0.0	44.8	-14.0	-2.9	0.0	-16.9	27.9	211,790	132
2019	40.8	2.7	0.0	0.0	43.5	-14.0	-3.4	0.0	-17.4	26.1	209,810	128
2020	39.4	2.8	0.2	0.0	42.5	-16.0	-3.8	0.0	-19.8	22.9	208,390	109
2021	38.1	3.0	0.0	0.0	41.0	-15.0	-4.1	-1.0	-20.1	20.9	207,190	101
2022	36.7	3.1	0.0	0.0	39.8	-15.0	-3.8	-1.0	-19.8	20.2	205,790	98
2023	35.3	3.3	0.8	0.0	39.8	-16.0	-4.9	-1.0	-21.9	17.5	204,430	88
2024	33.9	3.4	0.0	0.0	37.3	-17.0	-4.0	-1.0	-22.0	15.3	203,570	75
2025	32.5	3.6	0.0	0.0	36.0	-21.0	-4.1	0.0	-25.1	11.0	201,770	54
2026	31.1	3.7	0.0	0.0	34.7	-21.0	-5.2	0.0	-26.2	8.5	200,490	43
2027	29.7	3.8	0.0	0.0	33.4	-20.0	-5.4	0.0	-25.4	5.0	199,190	25
2028	28.3	3.9	0.0	0.0	32.1	-20.0	-5.8	0.0	-25.8	6.5	198,340	33
2029	26.9	3.9	0.0	0.0	30.8	-21.0	-6.7	-1.0	-27.7	3.1	196,590	16
2030	25.5	4.0	0.3	0.0	29.8	-19.0	-6.5	0.0	-25.5	6.3	195,390	32
2031	24.1	4.2	0.0	0.0	28.3	-21.0	-6.5	0.0	-27.5	0.8	194,690	4
2032	22.7	4.3	0.0	0.0	27.0	-20.0	-6.7	0.0	-26.7	0.3	193,230	2
2033	21.3	4.5	0.0	0.0	25.8	-21.0	-6.8	-1.0	-28.8	-2.8	191,810	-15
2034	19.9	4.7	0.0	0.0	24.6	-20.0	-6.5	0.0	-26.5	-1.8	190,290	-10
2035	18.5	4.9	0.0	0.0	23.4	-23.0	-6.7	0.0	-29.7	-6.2	189,090	-33
2036	17.1	5.1	0.0	0.0	22.2	-22.0	-6.4	0.0	-28.4	-6.2	188,290	-33
2037	15.9	5.3	0.0	0.0	21.2	-21.0	-6.4	-1.0	-28.4	-7.2	186,990	-39
2038	14.8	5.7	0.0	0.0	20.5	-22.0	-6.9	-1.0	-29.9	-9.4	185,390	-51
2039	13.6	6.3	0.0	0.0	19.9	-21.0	-6.2	0.0	-27.2	-7.3	184,190	-40
2040	12.5	7.1	0.0	0.0	19.7	-22.0	-6.5	-1.0	-29.5	-9.8	183,410	-64
2041	11.4	8.3	0.0	0.0	19.7	-26.0	-9.1	-1.0	-36.1	-9.5	181,790	-82
2042	4.4	9.0	0.0	0.0	9.4	-10.0	0.0	0.0	-10.0	-6.6	78,200	-8
CPWR 20115	476	38	0	0	515	-161	-37	-4	-221	299		

levelized cost of electricity generated including system impacts

\$/MWH  
**122**

**Notes:**

Negative annual revenue requirements indicate that the solar photovoltaic facility reduces the cost to the customer.  
Revenue requirements shown in this table are for FPL's generating system including the costs and benefits of the solar photovoltaic facility  
The solar photovoltaic facility is assumed to have no firm capacity value. It therefore does not have any impact on FPL's generation resource plan.

Table 6-4b

**Combustion Turbine  
System annual revenue requirements  
Differential between base case and combustion turbine case**

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	cost of electricity generated including system impacts \$/MWH
	Capital Revenue Requirements \$ millions	FOM \$ millions	Capital replacement \$ millions	Fuel transport Cost \$ millions	Total Fixed \$ millions	System Fuel \$ millions	System Emissions \$ millions	System O&M \$ millions	Total variable \$ millions	Net revenue requirements \$ millions	Ct generation MWH			
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	31	1	1	3	36	-1	0	0	-1	35	33,430	1,045		
2013	51	1	1	6	59	-1	0	-1	-2	56	38,930	1,490		
2014	49	1	1	6	57	-2	0	-1	-3	53	43,140	1,230		
2015	47	1	1	8	57	-2	0	-1	-3	51	35,400	1,451		
2016	45	1	1	6	53	-2	0	-1	-3	50	51,270	970		
2017	43	1	1	6	51	-5	0	-1	-6	46	69,770	641		
2018	41	1	1	6	49	-4	-1	-1	-6	43	71,100	652		
2019	39	1	1	6	47	-4	-1	-1	-6	42	80,080	522		
2020	38	1	1	6	46	-4	-1	0	-5	41	82,998	654		
2021	36	1	1	6	44	-3	0	-1	-3	41	49,890	999		
2022	34	2	2	6	43	-3	0	-1	-4	38	36,300	1,052		
2023	32	1	1	6	41	-2	-1	-1	-4	37	28,840	1,387		
2024	31	1	1	6	39	-3	0	0	-3	36	38,480	929		
2025	29	1	1	6	37	-4	-1	-1	-6	29	60,580	487		
2026	27	2	2	6	36	-4	-1	-1	-6	28	71,890	387		
2027	26	2	2	6	34	-6	-1	-1	-6	26	58,130	444		
2028	24	3	3	6	37	-4	-1	-1	-6	31	57,710	526		
2029	-54	-4	-4	-30	-140	23	8	-1	30	-111	69,940	-1,818		
2030	-27	2	2	8	-16	-1	1	-6	-6	-22	47,280	-489		
2031	50	2	2	8	41	-2	0	-6	-6	33	43,880	733		
2032	-35	-6	-5	-34	-148	18	5	-1	20	-128	49,170	-3,188		
2033	-28	2	2	10	-12	6	1	-6	-5	-18	49,530	-426		
2034	36	2	2	10	50	-3	-1	-6	-9	41	35,780	1,128		
2035	36	2	2	10	49	-4	-1	-1	-6	43	35,490	1,207		
2036	33	2	2	10	47	-3	-1	-1	-5	42	31,590	1,331		
2037	32	2	2	10	46	-1	0	-1	-2	43	25,880	1,478		
2038	30	2	2	10	45	-2	-1	0	-3	42	28,910	1,612		
2039	29	2	2	10	44	-2	-1	-2	-6	39	24,790	1,990		
2040	-79	-6	-6	-102	-193	14	4	-1	17	-173	22,790	-7,803		
2041	-41	2	2	13	-24	-7	2	-6	-10	-34	16,780	-2,019		
2042	32	-9	-9	13	27	0	0	-6	-6	22	0	0		
<b>CPWR 20115</b>	<b>359</b>	<b>13</b>	<b>13</b>	<b>15</b>	<b>399</b>	<b>-21</b>	<b>0</b>	<b>-16</b>	<b>-34</b>	<b>363</b>			<b>\$/MWH 9655</b>	

levelized cost of electricity generated including system impacts

**Notes:**  
 Negative annual revenue requirements indicate that the combustion turbine reduces the cost to the customer.  
 Revenue requirements shown in this table are for FPL's generating system including the costs and benefits of the combustion turbine.  
 The combustion turbine has firm capacity value. It therefore affect FPL's generation resource plan by deferring the in-service dates of future resources. The impact of these deferrals can be seen in these results.

Q. Please complete the table below describing the typical summer hourly energy production of each planned solar plant.

A.

**Generic 100MW**

**TYPICAL SUMMER**

Time of Day	MWac
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	7.4
8:00 AM	36.7
9:00 AM	52.3
10:00 AM	60.7
11:00 AM	64.1
12:00 PM	62.6
1:00 PM	62.9
2:00 PM	62.4
3:00 PM	61.7
4:00 PM	56.5
5:00 PM	47.4
6:00 PM	29.3
7:00 PM	6.6
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

The information provided in this response is based on projected DeSoto Next Generation Solar Energy Center generation, scaled up to 100 MW, and presented as a 30 year average. The values are based on a SunPower tracker used at DeSoto Next Generation Solar Energy Center. FPL would expect that the generic facility assumed for these responses would perform similarly at this location.



Q.  
Please complete the table below describing the typical winter hourly energy production of each planned solar plant.

A.

**Generic 100 MW**

**TYPICAL WINTER**

Time of Day	MWac
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	7.0
9:00 AM	37.9
10:00 AM	50.6
11:00 AM	54.4
12:00 PM	53.8
1:00 PM	52.3
2:00 PM	53.2
3:00 PM	53.1
4:00 PM	49.4
5:00 PM	36.7
6:00 PM	9.6
7:00 PM	0.0
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

The information provided in this response is based on projected DeSoto Next Generation Solar Energy Center generation, scaled up to 100 MW, and presented as a 30 year average. The values are based on a SunPower tracker used at DeSoto Next Generation Solar Energy Center. FPL would expect that the generic facility assumed for these responses would perform similarly at this location.

**Q.**  
Please complete the table below describing the typical monthly performance characteristics of each planned solar plant.

**A.**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Capacity (MW)</b>	100	100	100	100	100	100	100	100	100	100	100	100
<b>Net Capacity (MW)</b>	100	100	100	100	100	100	100	100	100	100	100	100
<b>Equivalent Availability Factor (1)</b>	98%											
<b>Net Generation (MMWh) (2) (3)</b>	11,550	13,179	18,017	20,129	21,492	18,827	16,840	17,722	15,782	15,213	13,087	11,895
<b>Resulting Capacity Factor</b>	16%	20%	24%	28%	29%	25%	25%	24%	22%	20%	18%	16%

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

1. The Equivalent Availability Factor represents the solar facility equipment, not generation availability due to solar resource availability.
2. The information provided in this response is based on projected DeSoto Next Generation Solar Energy Center generation, scaled up to 100 MW, and presented as a 30 year average. The values are based on a SunPower tracker used at DeSoto Next Generation Solar Energy Center. FPL would expect that the generic facility assumed for these responses would perform similarly at this location. Actual results will vary depending upon location and weather conditions.
3. Net Generation is averaged over a 30 year asset life with the Equivalent Availability Factor applied.

**Q.**  
Please complete the table below describing the typical monthly performance characteristics of typical combustion turbine.

**A.**  
At this time, FPL does not anticipate that its 2011 Ten Year Site Plan will include any new combustion turbines. Therefore, FPL's response to this interrogatory uses indicative information based on a typical combustion turbine facility, not on a specific planned project.

As shown in the table below, the production cost model projections indicate that the combustion turbine would generate mostly during the summer months, primarily June to October. It would produce almost no generation during the winter months.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Capacity (MW)	184	184	184	185	185	185	185	185	185	185	184	184
Net Capacity (MW)	181	181	181	182	182	182	182	182	182	182	181	181
Equivalent Availability Factor	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Net Generation (MWh)	172	0	17	415	2134	4545	8413	13117	9439	6135	40	0
Resulting Capacity Factor	0.1%	0.0%	0.0%	0.4%	1.8%	3.9%	7.0%	10.9%	8.1%	5.1%	0.0%	0.0%

Values provided are an average over the 30 year life of the project.

**Q.**

Please complete the table below describing the avoided emissions and avoided fossil fuel usage for each planned solar plant.

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

The attached table shows the emissions (CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>x</sub>) avoided as well as the fuel use (gas and oil) avoided by a 100 MW Solar PV facility. These values represent the difference in emissions and fuel use between two system simulations: one which represents the base case, and a second one that adds a 100 MW solar PV facility. The PMAREA production costing model was used for these simulations.

Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory 11  
Page 1 of 1

Year	Natural Gas Avoided by Solar Project MMBTU	Oil Avoided by Solar Project Barrels	CO2 emissions avoided by solar project tons	SO2 emissions avoided by solar project tons	NOx emissions avoided by solar project tons
2012	958,000	4,000	80,000	19	46
2013	1,711,000	0	90,000	2	65
2014	1,469,000	14,000	107,000	67	60
2015	1,383,000	29,000	108,000	108	45
2016	1,727,000	3,000	101,000	1	67
2017	1,696,000	9,000	88,000	8	60
2018	1,653,000	9,000	112,000	35	72
2019	1,817,000	13,000	97,000	28	74
2020	1,888,000	11,000	106,000	45	83
2021	1,420,000	12,000	105,000	48	38
2022	1,360,000	4,000	110,000	24	48
2023	1,685,000	0	88,000	6	32
2024	1,840,000	4,000	91,000	8	48
2025	1,621,000	8,000	83,000	4	48
2026	1,833,000	10,000	78,000	3	48
2027	1,883,000	8,000	84,000	3	51
2028	1,388,000	10,000	91,000	19	36
2029	1,683,000	4,000	88,000	15	40
2030	1,360,000	1,000	83,000	7	33
2031	1,538,000	3,000	78,000	9	40
2032	1,387,000	3,000	90,000	32	28
2033	1,418,000	4,000	90,000	3	37
2034	1,348,000	2,000	87,000	1	23
2035	1,830,000	2,000	84,000	8	24
2036	1,418,000	4,000	84,000	3	28
2037	1,331,000	2,000	78,000	28	14
2038	1,430,000	0	77,000	6	21
2039	1,341,000	1,000	80,000	4	21
2040	1,338,000	1,000	71,000	10	11
2041	1,491,000	0	72,000	7	27
2042	578,000	0	34,000	1	8

**Note:**

This table shows the emissions (CO2, SO2, and NOx) avoided as well as the fuel use (gas and oil) avoided by the 100 MW Solar PV facility. These values represent the difference in emissions and fuel use between two system simulations: one which represents the base case, and a second one that adds the 100 MW solar PV facility. The PMAREA production costing model was used for these simulations.

**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 12  
Page 1 of 1**

**Q.**

Please complete the table below describing the CPVRR of each planned solar plant.

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

Please see the attachment.

**System Annual Revenue Requirements - with and without Solar Project  
(Includes all Projects Costs and System Impacts)**

	(1)	(2)	(3)	(4)	(5)
Year	Annual System Total Revenue Requirements with Solar Project \$ Millions	Annual System Total Revenue Requirements without Solar Project \$ Millions	Differential in Annual System Total Revenue Requirements [1] - [2] \$ Millions	Differential in Customer Bill \$/ 1000 kWh	Differential in Customer Bill \$/ 1200 kWh
2011	7	0	7	0.088	0.081
2012	3,484	3,436	48	0.471	0.565
2013	3,505	3,453	53	0.506	0.607
2014	3,757	3,710	46	0.433	0.519
2015	4,084	4,043	40	0.372	0.447
2016	4,982	4,945	37	0.338	0.406
2017	5,596	5,533	34	0.274	0.329
2018	7,255	7,227	28	0.246	0.298
2019	7,844	7,817	27	0.230	0.276
2020	8,503	8,479	24	0.197	0.237
2021	9,367	9,346	22	0.177	0.212
2022	9,909	9,889	20	0.167	0.201
2023	9,922	9,904	18	0.142	0.170
2024	10,590	10,565	16	0.121	0.146
2025	11,598	11,590	12	0.085	0.101
2026	12,363	12,363	11	0.065	0.077
2027	13,407	13,400	6	0.037	0.045
2028	14,270	14,263	7	0.046	0.057
2029	15,279	15,284	-4	0.022	0.027
2030	16,548	16,541	5	0.044	0.053
2031	17,260	17,248	2	0.006	0.008
2032	18,843	18,847	-4	0.002	0.003
2033	20,979	20,983	-4	-0.019	-0.023
2034	22,167	22,106	-1	-0.013	-0.015
2035	23,181	23,196	-8	-0.041	-0.049
2036	25,494	25,499	-8	-0.040	-0.046
2037	26,610	26,614	-5	-0.033	-0.040
2038	27,564	27,672	-8	-0.059	-0.070
2039	28,926	28,933	-7	-0.045	-0.054
2040	30,057	30,069	-11	-0.047	-0.057
2041	31,394	31,408	-14	-0.056	-0.068
2042	32,598	32,605	-8	-0.003	-0.004

**Notes:**

Negative indicates a reduction in the customer bill for the 100 MW solar project.

The annual revenue requirements include system capital costs, O&M costs, emission costs and fuel costs as well as the solar project costs in the "with solar" case.

The bill impact computation is based on dividing the differential in revenue requirements between the two cases and dividing by the system retail sales. As such it represents a system average rate impact, not specific to any one rate class.

**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 13  
Page 1 of 1**

**Q.**

Please complete the table below for each planned solar plant.

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

Please see the attachment.



Annual Emission Costs - with and without Solar Project

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
	Emission Related Revenue Requirements Costs with Solar Project				Emission Related Revenue Requirements Costs without Solar Project				[4]- [8] Differential in Revenue Requirements (\$ millions)	Differential in Customer Bill \$/1,000 kWh	Differential in Customer Bill \$/1,200 kWh
	CO2 (\$ millions)	SO2 (\$ millions)	NOx (\$ millions)	Total (\$ millions)	CO2 (\$ millions)	SO2 (\$ millions)	NOx (\$ millions)	Total (\$ millions)			
2011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	0.000	-13.196	-6.230	-19.426	0.000	-13.194	-6.230	-19.422	-0.004	0.000	0.000
2013	0.000	-14.400	-6.843	-21.243	0.000	-14.399	-6.811	-21.210	-0.033	0.000	0.000
2014	0.000	-7.186	-6.320	-13.506	0.000	-7.182	-6.290	-13.472	-0.034	0.000	0.000
2015	0.000	-7.312	-7.267	-14.579	0.000	-7.305	-7.263	-14.569	-0.010	0.000	0.000
2016	0.000	-7.765	-6.441	-14.207	0.000	-7.765	-6.406	-14.171	-0.036	-0.009	-0.011
2017	0.000	-7.930	-6.891	-14.821	0.000	-7.930	-6.866	-14.795	-0.026	-0.028	-0.033
2018	1,286,480	-8.150	-9.227	1,278,072	1,283,472	-8.148	-9.157	1,275,136	-3.085	-0.025	-0.031
2019	1,401,137	-9.335	-9.521	1,391,281	1,403,974	-9.333	-9.479	1,396,162	-2.881	-0.030	-0.036
2020	1,526,091	-8.544	-10.088	1,516,003	1,531,458	-8.541	-10.021	1,512,889	-3.399	-0.031	-0.038
2021	1,700,112	-8.793	-10.794	1,691,318	1,703,718	-8.790	-10.762	1,694,205	-3.631	-0.043	-0.052
2022	1,894,365	-8.994	-13.438	1,880,927	1,898,439	-8.992	-13.429	1,796,037	-4.124	-0.038	-0.045
2023	1,824,482	-9.235	-14.413	1,805,064	1,829,092	-9.235	-14.385	1,804,374	-3.579	-0.040	-0.049
2024	1,893,183	-9.444	-14.676	1,878,864	1,907,161	-9.443	-14.646	1,873,072	-4.005	-0.039	-0.047
2025	2,194,786	-9.769	-12.767	2,182,019	2,198,697	-9.769	-12.737	2,176,191	-3.962	-0.051	-0.058
2026	2,376,190	-16.413	-12.831	2,357,346	2,389,217	-16.412	-12.809	2,385,895	-4.009	-0.050	-0.047
2027	2,631,398	-16.661	-13.748	2,607,609	2,636,663	-16.661	-13.712	2,612,161	-5.194	-0.040	-0.048
2028	2,873,278	-16.943	-13.146	2,854,194	2,883,652	-16.942	-13.113	2,859,597	-5.403	-0.041	-0.049
2029	3,146,662	-11.225	-13.992	3,121,665	3,152,273	-11.225	-13.972	3,127,178	-5.625	-0.048	-0.056
2030	3,486,998	-11.498	-14.375	3,461,083	3,492,633	-11.498	-14.350	3,486,784	-5.791	-0.038	-0.047
2031	3,636,637	-11.794	-15.884	3,609,359	3,636,166	-11.794	-15.573	3,608,749	-5.499	-0.045	-0.054
2032	3,895,413	-12.075	-16.330	3,877,007	3,871,889	-12.072	-16.308	3,843,690	-6.493	-0.046	-0.055
2033	4,378,951	-12.362	-16.584	4,291,015	4,326,690	-12.362	-16.583	4,297,674	-6.000	-0.061	-0.061
2034	4,967,060	-12.314	-16.674	4,937,481	4,974,418	-12.314	-16.665	4,944,049	-6.585	-0.043	-0.052
2035	4,748,676	-12.918	-18.088	4,717,390	4,756,178	-12.919	-18.047	4,723,910	-6.320	-0.044	-0.062
2036	5,190,310	-12.916	-19.089	5,158,891	5,196,973	-12.916	-19.069	5,165,189	-6.885	-0.041	-0.049
2037	5,435,387	-13.221	-19.517	5,402,899	5,441,699	-13.224	-19.504	5,406,961	-6.352	-0.034	-0.041
2038	5,648,181	-13.982	-20.336	5,614,243	5,654,578	-13.981	-20.337	5,620,680	-6.437	-0.040	-0.059
2039	5,920,096	-13.894	-20.973	5,895,119	5,936,892	-13.894	-20.953	5,892,045	-6.844	-0.038	-0.046
2040	6,148,643	-14.238	-22.114	6,104,292	6,148,980	-14.239	-22.103	6,110,618	-6.228	-0.033	-0.040
2041	6,286,635	-14.561	-22.583	6,243,471	6,287,097	-14.561	-22.556	6,249,959	-6.488	-0.025	-0.030
2042	6,791,538	-14.932	-23.009	6,753,606	6,794,985	-14.932	-23.000	6,798,733	-3.137	0.000	0.000

Notes:

Negative indicates a reduction in the customer bill for the 100 MW solar project.

The annual costs include only the system emission costs.

The bill impact computation is based on dividing the differential in revenue requirements between the two cases and dividing by the system retail sales. As such it represents a system average rate impact, not specific to any one rate class.

**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 14  
Page 1 of 1**

**Q.**

Please complete the table below for each planned solar plant.

**A.**

As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.

Please see the attachment.

**Capital and O&M Costs of the Solar Project**  
(do not include system benefits)

	Capital Revenue Requirements (\$ millions)	Fixed O&M and Capital Replacement Costs (\$ millions)	Total (\$ millions)	Impact on Customer Bill of 1,000 kwh (\$)	Impact on Customer Bill of 1,200 kwh (\$)
2011	7	0	7	0.066	0.062
2012	51	2	53	0.520	0.624
2013	60	2	62	0.593	0.711
2014	54	2	56	0.527	0.632
2015	50	2	52	0.483	0.580
2016	47	2	49	0.448	0.537
2017	44	2	46	0.418	0.502
2018	42	3	45	0.398	0.478
2019	41	3	44	0.383	0.459
2020	39	3	42	0.367	0.440
2021	38	3	41	0.347	0.417
2022	37	3	40	0.329	0.395
2023	35	3	38	0.312	0.374
2024	34	3	37	0.294	0.353
2025	32	4	36	0.278	0.333
2026	31	4	35	0.263	0.315
2027	30	4	33	0.248	0.296
2028	28	4	32	0.234	0.281
2029	27	4	31	0.221	0.265
2030	25	4	29	0.210	0.252
2031	24	4	28	0.196	0.236
2032	23	4	27	0.185	0.222
2033	21	4	26	0.174	0.208
2034	20	5	25	0.163	0.196
2035	19	5	23	0.153	0.184
2036	17	5	22	0.143	0.171
2037	18	5	21	0.134	0.161
2038	15	6	20	0.128	0.153
2039	14	6	20	0.123	0.147
2040	13	7	20	0.119	0.143
2041	11	8	20	0.117	0.141
2042	4	5	9	0.055	0.066

**Notes:**

Negative indicates a reduction in the customer bill for the 100 MW solar project.

As requested, the capital revenue requirements and the O&M requirements shown in this table only include the costs of the solar project. System impacts are not included.

The bill impact computation is based on dividing the differential in revenue requirements between the two cases and dividing by the system retail sales. As such it represents a system average rate impact, not specific to any one rate class.

**Q.**

**Please complete the table below for each planned solar plant.**

**A.**

**As stated in the introduction, FPL is assuming a typical 100 MW greenfield solar photovoltaic plant for its responses. FPL does not expect that its 2011 Ten Year Site Plan will include any new photovoltaic facilities. Cost and performance assumptions are expected to vary over time and vary by site.**

**Please see the attachment.**

System Variable O&M and System Fuel Costs - With and Without Solar Project

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15
	System Costs w/Solar Project					System Costs w/o Solar Project					Differential in annual costs [F1-F5]				
	Variable O&M (\$ millions)	Fuel (\$ millions)	Total costs [F1 + F2] (\$ millions)	Impact on Customer Bill \$/1000 kWh	Impact on Customer Bill \$/1200 kWh	Variable O&M (\$ millions)	Fuel (\$ millions)	Total costs [F6 + F7] (\$ millions)	Impact on Customer Bill \$/1000 kWh	Impact on Customer Bill \$/1200 kWh	Variable O&M (\$ millions)	Fuel (\$ millions)	Total Revenue Requirements (\$ millions)	Impact on Customer Bill of 1,000 kWh \$/1000 kWh	Impact on Customer Bill of 1,200 kWh \$/1200 kWh
2011	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.000	0.000
2012	121	3,529	3,650	30.7	48.4	121	3,524	3,645	30.7	48.5	0	-5	-5	-0.001	-0.000
2013	127	3,629	3,757	32.2	50.9	127	3,625	3,752	32.4	49.0	0	-9	-9	-0.005	-0.004
2014	140	3,677	3,817	34.8	51.8	140	3,667	3,807	34.9	49.9	0	-19	-19	-0.004	-0.112
2015	149	3,807	3,956	37.3	54.8	149	3,800	3,949	37.5	54.8	0	-12	-12	-0.111	-0.129
2016	161	4,289	4,450	41.3	69.8	162	4,289	4,451	41.4	69.7	-1	-11	-12	-0.189	-0.191
2017	169	4,881	5,050	45.3	84.4	169	4,884	5,053	45.4	84.3	0	-13	-12	-0.177	-0.149
2018	187	5,229	5,416	48.9	99.6	187	5,232	5,419	48.9	99.7	0	-14	-14	-0.129	-0.149
2019	192	5,729	5,921	51.9	92.1	192	5,732	5,924	51.9	92.1	0	-14	-14	-0.129	-0.149
2020	173	6,139	6,312	54.5	95.5	173	6,139	6,312	54.7	95.7	0	-16	-16	-0.138	-0.169
2021	177	6,635	6,812	57.5	99.1	178	6,639	6,816	57.7	99.2	-1	-16	-16	-0.136	-0.162
2022	181	6,996	7,177	59.9	79.8	182	6,971	7,152	59.1	71.9	-1	-15	-15	-0.132	-0.159
2023	199	6,999	7,198	57.5	99.9	199	6,999	7,198	57.7	99.2	-1	-16	-17	-0.137	-0.169
2024	209	7,639	7,848	60.3	79.3	209	7,637	7,846	60.4	72.1	-1	-17	-18	-0.142	-0.177
2025	215	8,262	8,477	63.3	78.3	215	8,273	8,488	63.4	75.5	0	-21	-21	-0.162	-0.194
2026	225	8,899	9,124	67.6	81.8	225	8,728	8,953	67.7	81.2	0	-21	-21	-0.139	-0.169
2027	235	9,115	9,350	69.5	85.5	235	9,139	9,374	69.7	85.7	0	-23	-23	-0.171	-0.205
2028	261	9,694	9,955	71.9	85.2	261	9,699	9,960	71.1	85.4	0	-29	-29	-0.149	-0.173
2029	269	9,894	10,163	73.9	87.1	269	9,899	10,168	73.9	87.3	-1	-21	-22	-0.139	-0.169
2030	339	10,391	10,730	75.5	88.8	339	10,392	10,731	75.8	88.7	0	-19	-19	-0.127	-0.152
2031	261	10,891	11,152	77.5	88.8	261	10,892	11,153	77.7	88.2	0	-21	-21	-0.149	-0.173
2032	339	11,617	11,956	80.8	88.9	339	11,617	11,956	80.8	87.1	0	-29	-29	-0.137	-0.164
2033	429	12,892	13,321	87.9	108.4	429	12,892	13,321	88.9	108.9	-1	-21	-22	-0.149	-0.179
2034	451	13,395	13,846	89.1	108.4	451	13,395	13,846	91.3	108.3	0	-29	-29	-0.132	-0.159
2035	489	14,799	15,288	93.2	111.9	489	14,799	15,288	95.4	112.1	0	-29	-29	-0.139	-0.169
2036	529	14,999	15,528	95.4	112.3	529	14,999	15,498	95.5	112.4	0	-29	-29	-0.142	-0.179
2037	599	15,299	15,898	102.3	129.5	594	15,297	15,791	102.3	129.7	1	-21	-29	-0.137	-0.169
2038	694	16,114	16,808	109.3	129.9	696	16,129	16,821	109.4	129.2	-1	-29	-29	-0.144	-0.172
2039	812	16,811	17,623	107.1	139.5	812	16,812	17,624	107.2	139.7	0	-21	-21	-0.129	-0.156
2040	896	17,291	18,187	109.9	139.9	894	17,276	18,142	109.1	139.9	1	-29	-21	-0.127	-0.159
2041	999	17,899	18,898	111.2	139.5	997	17,899	18,892	111.4	139.7	-1	-29	-29	-0.135	-0.169
2042	727	18,794	19,521	114.3	137.1	727	18,794	19,521	114.3	137.2	0	-19	-19	-0.099	-0.079

Notes:

Negative indicates a reduction in the customer bill for the 100 MW solar project.

The bill impact computation is based on dividing the differential in revenue requirements between the two cases and dividing by the system retail sales. As such it represents a system average rate impact, not specific to any one rate class.

**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 16  
Page 1 of 1**

**Q.**

**Please complete the table below describing the avoided emissions and avoided fossil fuel usage for all planned solar plants.**

**A.**

**Please see response to Question No. 11 above.**

**Florida Power & Light Company**  
**Docket No.**  
**2011 Ten-Year Site Plan - Staff's Data Request No. 1**  
**Interrogatory No. 17**  
**Page 1 of 1**

**Q.**

Please complete the table below describing the CPVRR of all planned solar plants.

**A.**

Please see response to Question No. 12 above.

**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 18  
Page 1 of 1**

**Q.**  
Please complete the table below for all planned solar plants.

**A.**  
Please see response to Question No. 13 above.



**Florida Power & Light Company  
Docket No.  
2011 Ten-Year Site Plan - Staff's Data Request No. 1  
Interrogatory No. 19  
Page 1 of 1**

**Q.**  
Please complete the table below for all planned solar plants.

**A.**  
Please see response to Question No. 14 above.

**Florida Power & Light Company**  
**Docket No.**  
**2011 Ten-Year Site Plan - Staff's Data Request No. 1**  
**Interrogatory No. 20**  
**Page 1 of 1**

**Q.**  
Please complete the table below for all planned solar plants.

**A.**  
Please see response to Question No. 15 above.