RPS Data Form 1: Renewable Generating Technologies

Company Name: FL Solar Coalition

Applicable Utility Service Area: All Service Territories Statewide

Renewable Technologies	
Solar	Photovoltaic (PV)
Other	Solar Water Heating
Other	**Hybrid Solar Water Heating/PV**

RPS Data Form 3: Commercial Availability Data

Company Name: **FL Solar Coalition**

Energy Resource: **Solar Water Heating**

Typical Unit Annual Capacity Rating (MW)	**.0015 MW / 40 Sq. Ft.**
Earliest Commercial In-Service Date (Year)	**2009**
Typical Construction & Permitting Time (Years)	**0.025**
Useful Life of Unit (Years)	**25 years**
Fuel Type	**Solar Energy**

RPS Data Form 4: Performance Characteristics Data

Company Name: **FL Solar Coalition**

Energy Resource: **Solar Water Heating**

Contribution to Summer Peak Demand (MW)	**.0004 MW / 40 Sq. Ft. Collector Area**
Contribution to Winter Peak Demand (MW)	**.0007 MW / 40 Sq. Ft. Collector Area**
Average Annual Heat Rate (BTU/kWh)	**N / A**
Equivalent Availability Factor (%)	**N / A**
Average Annual Generation (MWH)	**2.8 MWH / 40 Sq. Ft.**
Resulting Capacity Factor (%)	**21%**

RPS Data Form 5: Environmental Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Solar Water Heating**

Emission Rates	Carbon Dioxide (CO_2) (lb/kWh)	**Zero**
	Sulfur Dioxide (SO_2) (lb/kWh)	**Zero**
	Nitrogen Oxide (NO_X) (lb/kWh)	**Zero**
	Mercury (Hg) (lb/kWh)	**Zero**
	Water Usage (gal/kwh)	**Zero**

RPS Data Form 6: Estimated Cost Data

Company Name: **FL Solar Coalition**
Energy Resource: **Solar Water Heating**

	First Year of Commercial Operation (Year)	**2009**
Installed Capital	Cost[1] ($/kw)	**$3,000 / KW**
	Escalation Rate (%)	**Zero**
Fixed O & M	Cost[1] ($/kw-year)	**Zero**
	Escalation Rate (%)	**Zero**
Variable O & M	Cost[1] ($/kwh)	**$0.014 / KWH**
	Escalation Rate (%)	**4.00%**
Energy	Cost[1] ($/kwh)	**Zero**
	Escalation Rate (%)	**Zero**
	Levelized Cost[2] - Life of Unit (cents/kwh)	**7.8¢/kWh (see note 1**

1 No federal or State incentives included

RPS Data Form 3: Commercial Availability Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

Typical Unit Annual Capacity Rating (MW)	**.005 MW**
Earliest Commercial In-Service Date (Year)	**2009**
Typical Construction & Permitting Time (Years)	**0.08**
Useful Life of Unit (Years)	**30 years**
Fuel Type	**Solar Energy**

RPS Data Form 4: Performance Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

Contribution to Summer Peak Demand (MW)	**0.00275 MW or 55%**
Contribution to Winter Peak Demand (MW)	**0.00075 kW 0r 15%**
Average Annual Heat Rate (BTU/kWh)	**N / A**
Equivalent Availability Factor (%)	**90%**
Average Annual Generation (MWH)	**6.57 MWh**
Resulting Capacity Factor (%)	**15%**

RPS Data Form 5: Environmental Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

Emission Rates	Carbon Dioxide (CO_2) (lb/kWh)	**Zero**
	Sulfur Dioxide (SO_2) (lb/kWh)	**Zero**
	Nitrogen Oxide (NO_X) (lb/kWh)	**Zero**
	Mercury (Hg) (lb/kWh)	**Zero**
	Water Usage (gal/kwh)	**Zero**

RPS Data Form 6: Estimated Cost Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

	First Year of Commercial Operation (Year)	**2009**
Installed Capital	Cost[1] ($/kw)	**$8,000 / KW**
	Escalation Rate (%)	**Zero**
Fixed O & M	Cost[1] ($/kw-year)	**Zero**
	Escalation Rate (%)	**Zero**
Variable O & M	Cost[1] ($/kwh)	**$0.016/kWh (see Note 1)**
	Escalation Rate (%)	**4.00%**
Energy	Cost[1] ($/kwh)	**Zero**
	Escalation Rate (%)	**Zero**
	Levelized Cost[2] - Life of Unit (cents/kwh)	**25.9¢/ KWH (see note 2)**

1 Includes two inverter replacements and checking connections and grounds every 5 years

2 No federal or State incentives included

RPS Data Form 3: Commercial Availability Data

Company Name: **FL Solar Coalition**
Energy Resource: **Hybrid Solar Water Heating/PV**

Typical Unit Annual Capacity Rating (MW)	**.0015 MW / 40 Sq. Ft. (hot water) and 5kW (PV)**
Earliest Commercial In-Service Date (Year)	**2009**
Typical Construction & Permitting Time (Years)	**0.08**
Useful Life of Unit (Years)	**25-30 years**
Fuel Type	**Solar Energy**

RPS Data Form 4: Performance Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Hybrid Solar Water Heating/PV**

Contribution to Summer Peak Demand (MW)	**55% or 3.25 kW**
Contribution to Winter Peak Demand (MW)	**15% or 1.25 kW**
Average Annual Heat Rate (BTU/kWh)	**N / A**
Equivalent Availability Factor (%)	**90%**
Average Annual Generation (MWH)	**9370 kWh**
Resulting Capacity Factor (%)	**16%**

RPS Data Form 5: Environmental Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Hybrid Solar Water Heating/PV**

Emission Rates	Carbon Dioxide (CO_2) (lb/kWh)	**Zero**
	Sulfur Dioxide (SO_2) (lb/kWh)	**Zero**
	Nitrogen Oxide (NO_X) (lb/kWh)	**Zero**
	Mercury (Hg) (lb/kWh)	**Zero**
	Water Usage (gal/kwh)	**Zero**

RPS Data Form 6: Estimated Cost Data

Company Name: **FL Solar Coalition**
Energy Resource: **Hybrid Solar Water Heating/PV**

	First Year of Commercial Operation (Year)	**2009**
Installed Capital	Cost[1] ($/kw)	**$11,000/kW**
	Escalation Rate (%)	**Zero**
Fixed O & M	Cost[1] ($/kw-year)	**Zero**
	Escalation Rate (%)	**Zero**
Variable O & M	Cost[1] ($/kwh)	**$0.014/kWh Water Heating/$0.016/kWh (see Solar Water Heating and PV notes above)**
	Escalation Rate (%)	**4.00%**
Energy	Cost[1] ($/kwh)	**Zero**
	Escalation Rate (%)	**Zero**
	Levelized Cost[2] - Life of Unit (cents/kwh)	**20.6¢/kWh (see note 1)**

1 No federal or State incentives included

RPS Data Form 1: Renewable Generating Technologies

Company Name: FL Solar Coalition

Applicable Utility Service Area: All Service Territories Statewide

Renewable Technologies	
Solar	Photovoltaic (PV) - non-residential projects
Other	
Other	

RPS Data Form 3: Commercial Availability Data

Company Name: **FL Solar Coalition**

Energy Resource: **Photovoltaics**

Typical Unit Annual Capacity Rating (MW)	**.005 MW - 2MW**
Earliest Commercial In-Service Date (Year)	**2009**
Typical Construction & Permitting Time (Years)	**0.08 - 1.6 depending on system size**
Useful Life of Unit (Years)	**30 years**
Fuel Type	**Solar Energy**

RPS Data Form 4: Performance Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

Contribution to Summer Peak Demand (MW)	**55% (0.00275 MW - 1.1MW)**
Contribution to Winter Peak Demand (MW)	**15% (0.00075 MW - 0.3 MW)**
Average Annual Heat Rate (BTU/kWh)	**N / A**
Equivalent Availability Factor (%)	**90%**
Average Annual Generation (MWH)	**1.314MWH per MW (6.57 MWH - 262.8MWH)**
Resulting Capacity Factor (%)	**15%**

RPS Data Form 5: Environmental Characteristics Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

Emission Rates	Carbon Dioxide (CO_2) (lb/kWh)	**Zero**
	Sulfur Dioxide (SO_2) (lb/kWh)	**Zero**
	Nitrogen Oxide (NO_X) (lb/kWh)	**Zero**
	Mercury (Hg) (lb/kWh)	**Zero**
	Water Usage (gal/kwh)	**Zero**

RPS Data Form 6: Estimated Cost Data

Company Name: **FL Solar Coalition**
Energy Resource: **Photovoltaics**

	First Year of Commercial Operation (Year)	**2009**
Installed Capital	Cost[1] ($/kw)	**$7,500 / kW average for commercial projects 30kW to 100kW** **$7,000 / kW average for projects up to 1MW** **Under $7,000 for projects >1MW**
	Escalation Rate (%)	**Prices decline as project size and number of projects increase**
Fixed O & M	Cost[1] ($/kw-year)	**$0.0046-$0.0027 / kW-year (see note 1) depending on project size**
	Escalation Rate (%)	**0.03 - 0.05 per year depending on system size**
Variable O & M	Cost[1] ($/kwh)	**N/A**
	Escalation Rate (%)	**N/A**
Energy	Cost[1] ($/kwh)	**Zero**
	Escalation Rate (%)	**Zero**
	Levelized Cost[2] - Life of Unit (cents/kwh)	**25¢ -22¢ / KWH depending on system size (see note 2)**

1 Includes two inverter replacements and checking connections
2 No federal or State incentives included

Costs of installed PV systems are based on 2008 average numbers. The solar industry expects costs to decline as the Florida market grows year by year, more installer companies and manufacturers enter the market, and incentives decline.

The costs provided on this form are the ***gross*** installed costs. In an RPS program, the PSC would set the incentive amount to buy down the installed costs. Typically, the incentive amount starts at 40% - 50% of the system costs and it is reduced to zero throughout the RPS program, and based on market growth. Homeowners, businesses, and investors bare an increasing share of the system's costs, thus reducing risk and energy price volatility on the state's ratepayers.