

RPS Data Form 1: Renewable Generating Technologies

Company Name: OUC
 Applicable Utility Service Area: Orlando and St. Cloud

Renewable Technologies	
Solar	Photovoltaic (PV)
	Photoelectrochemical (H2)
	Thermal Electric Plant
Wind	Coastal
	Offshore
Hydroelectric	Dam (Incremental)
	Diversion (Run of the River)
	Pumped Storage
Geothermal	Dry Steam
	Flash
	Binary
Ocean Energy	Wave Action
	Tidal Change
	Thermal Gradients (OTEC)
	Ocean Currents
Biomass - Direct Combustion	Plant Matter
	Animal Waste
	Vegetable Oil
Biomass - Conversion to Liquid	Biodiesel / Renewable Diesel
	Ethanol - Cellulosic
	Ethanol - Non-Cellulosic
	Pyrolysis
Biomass - Conversion to Gas	Anaerobic Digester
	Gasification
	Renewable Natural Gas
Landfill Gas	Methane Combustion
Municipal Solid Waste	Biogenic
	Non-Biogenic
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Solar Water Heating

RPS Data Form 2: Conventional Generating Technologies

Company Name: _____

Applicable Utility Service Area: _____

Conventional Technologies	
Natural Gas	Combustion Turbine
	Combined Cycle
Coal	Integrated Gasified Combined Cycle
	Supercritical Pulverized Coal
Nuclear	Steam Generation
Other	Other

RPS Data Form 3: Commercial Availability Data

Company Name: OUC

Energy Resource: Solar Water Heating

Typical Unit Annual Capacity Rating (MW)	.002 MW / 40 Sq. Ft.
Earliest Commercial In-Service Date (Year)	2009
Typical Construction & Permitting Time (Years)	0.1 year
Useful Life of Unit (Years)	30 years
Fuel Type	Solar Energy

RPS Data Form 4: Performance Characteristics Data

Company Name:

OUC

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)	2.5 MWH / 40 Sq. Ft.
Resulting Capacity Factor (%)	17% - 20 %

RPS Data Form 5: Environmental Characteristics Data

Company Name:

OUC

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: OUC
Energy Resource: Solar Water Heating

	First Year of Commercial Operation (Year)	2009
Installed Capital	Cost ⁽¹⁾ (\$/kw)	\$2,000 / KW
	Escalation Rate (%)	Zero
Fixed O & M	Cost ⁽¹⁾ (\$/kw-year)	Zero
	Escalation Rate (%)	Zero
Variable O & M	Cost ⁽¹⁾ (\$/kwh)	\$0.013 / KWH
	Escalation Rate (%)	3.00%
Energy	Cost ⁽¹⁾ (\$/kwh)	\$1.48 / KWH
	Escalation Rate (%)	4.00%
	Levelized Cost ⁽²⁾ - Life of Unit (cents/kwh)	\$0.049 / KWH

(1) Expressed in year dollars associated with the first year of commercial operations

(2) Cumulative Present Value Total Revenue Requirements levelized over the life of the unit expressed in year dollars associated with the first year of commercial operation