

RPS Data Form 1: Renewable Generating Technologies

Company Name: Regenesis Power, LLC
 Applicable Utility Service Area: All of Florida

Renewable Technologies	
Solar	Photovoltaic (PV)
	Photoelectrochemical (H2)
	Thermal Electric Plant
Wind	Inland
	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	Other

STEP
 Solar Thermal
 Energy Program

RPS Data Form 2: Conventional Generating Technologies

Company Name:

Regenesis Power, LLC

Applicable Utility Service Area:

Florida - All

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: Regenesis Power, LLC
 Energy Resource: Solar

Typical Unit Annual Capacity Rating (MW)	year	08	09	10	11	12
	Capacity	2	35	112	196	265
Earliest Commercial In-Service Date (Year)	2008					
Typical Construction & Permitting Time (Years)	1 day					
Useful Life of Unit (Years)	25 years					
Fuel Type	Solar					

Assumptions:

- Each system in the generation portfolio is 2.2 kw.
- In a five year build out there would be a total capacity of 265 MW with capacity added each year.

RPS Data Form 4: Performance Characteristics Data

Company Name:

Regenesis Power, LLC

Energy Resource:

Solar

*year 2012 is the cumulative total

	Year				
	08	09	10	11	12
Contribution to Summer Peak Demand (MW)	0	6	20	36	48*
Contribution to Winter Peak Demand (MW)	1	11	36	62	84*
Average Annual Heat Rate (BTU/kWh)	NA				
Equivalent Availability Factor (%)	99				
Average Annual Generation (MWH)	08	09	10	11	12
	3331	97,274	152,641	267,364	361,108*
Resulting Capacity Factor (%)	~ 20%				

RPS Data Form 5: Environmental Characteristics Data

Company Name: Regenesis Power, LLC
Energy Resource: Solar

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	∅
	Sulfur Dioxide (SO ₂) (lb/kWh)	∅
	Nitrogen Oxide (NO _x) (lb/kWh)	∅
	Mercury (Hg) (lb/kWh)	∅
	Water Usage (gal/kwh)	∅

RPS Data Form 6: Estimated Cost Data

Company Name: Regenesis Power, LLC
 Energy Resource: Solar

	First Year of Commercial Operation (Year)	2008
Installed Capital	Cost ⁽¹⁾ (\$/kw)	\$1600
	Escalation Rate (%)	NA
Fixed O & M	Cost ⁽¹⁾ (\$/kw-year)	NA
	Escalation Rate (%)	NA
Variable O & M	Cost ⁽¹⁾ (\$/kwh)	\$0.015
	Escalation Rate (%)	3%
Energy	Cost ⁽¹⁾ (\$/kwh)	∅
	Escalation Rate (%)	∅
	Levelized Cost ⁽²⁾ - Life of Unit (cents/kwh)	~ 6¢

(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

→ Fuel should be here - answer is ∅ for Solar