

RPS Data Form 1: Renewable Generating Technologies

Company Name: Seminole Electric Cooperative
 Applicable Utility Service Area: _____

Renewable Technologies	
Solar	Photovoltaic (PV)
	Photoelectrochemical (H2)
	Thermal Electric Plant
Wind	Inland and 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
	Fluidized Bed or Conventional Furnace
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	Internal Combustion Engine
	Gas Turbine
Municipal Solid Waste	Biogenic
	Non-Biogenic
	Conventional Furnace
	Pyrolysis
	Thermal Gasification
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

* Seminole and its member cooperatives currently have contracts for long-term power purchases from renewable resources including direct-burn biomass, landfill gas, municipal solid waste, and hydroelectric. The total renewable capacity currently under contract totals 133 mw. At present Seminole does not own any renewable facilities.

RPS Data Form 2: Conventional Generating Technologies

Company Name: Seminole Electric Cooperative

Applicable Utility Service Area: _____

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

RPS Data Form 3: Commercial Availability Data

Company Name: Seminole Electric Cooperative
Energy Resource: Supercritical Pulverized Coal

Typical Unit Annual Capacity Rating (MW)	750
Earliest Commercial In-Service Date (Year)	2014
Typical Construction & Permitting Time (Years)	8
Useful Life of Unit (Years)	40-60
Fuel Type	Coal

RPS Data Form 4: Performance Characteristics Data

Company Name: Seminole Electric Cooperative
Energy Resource: Supercritical Pulverized Coal

Contribution to Summer Peak Demand (MW)	750
Contribution to Winter Peak Demand (MW)	750
Average Annual Heat Rate (BTU/kWh)	9000
Equivalent Availability Factor (%)	90
Average Annual Generation (MWH)	5,584,500
Resulting Capacity Factor (%)	85

RPS Data Form 5: Environmental Characteristics Data

Company Name: Seminole Electric Cooperative
Energy Resource: Supercritical Pulverized Coal

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	1.902439
	Sulfur Dioxide (SO ₂) (lb/kWh)	0.001509
	Nitrogen Oxide (NO _x) (lb/kWh)	0.00064
	Mercury (Hg) (lb/kWh)	7.05E-09
	Water Usage (gal/kwh)	

RPS Data Form 6: Estimated Cost Data

Company Name: Seminole Electric Cooperative
Energy Resource: Supercritical Pulverized Coal

	First Year of Commercial Operation (Year)	
Installed Capital	Cost ⁽¹⁾ (\$/kw)	
	Escalation Rate (%)	
Fixed O & M	Cost ⁽¹⁾ (\$/kw-year)	
	Escalation Rate (%)	
Variable O & M	Cost ⁽¹⁾ (\$/kwh)	
	Escalation Rate (%)	
Energy	Cost ⁽¹⁾ (\$/kwh)	
	Escalation Rate (%)	
	Levelized Cost ⁽²⁾ - Life of Unit (cents/kwh)	

**** Prospective cost information is under review**

(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