Company Name:

Renewable Fuels Tallahassee, LLC

Applicable Utility Service Area:

City of Tallahassee, Electric Utility

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	
	Sulfuric Acid Manufacturing	
Waste Heat	Sulful C Acid Manufacturing	

^{*} Biomass - Conversion to Gas, Gasification should include Company's plasma arc gasification technology.

RPS Data Form 2: Conventional Generating Technologies

Company Name:

Renewable Fuels Tallahassee, LLC

Applicable Utility Service Area:

City of Tallahassee, Electric Utility

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:

Renewable Fuels Tallahassee, LLC

Energy Resource:

Biomass - Conversion to Gas (Gasification via Plasma Arc)

Typical Unit Annual Capacity Rating (MW)	42
Earliest Commercial In- Service Date (Year)	2010
Typical Construction & Permitting Time (Years)	3
Useful Life of Unit (Years)	40
Fuel Type	Biomass

RPS Data Form 4: Performance Characteristics Data

Company Name:

Renewable Fuels Tallahassee, LLC

Energy Resource:

Biomass - Conversion to Gas (Gasification via Plasma Arc)

Contribution to Summer Peak Demand (MW)	35
Contribution to Winter Peak Demand (MW)	35
Average Annual Heat Rate (BTU/kWh)	13,500
Equivalent Availability Factor (%)	95%
Average Annual Generation (MWH)	275,940
Resulting Capacity Factor (%)	90%

RPS Data Form 5: Environmental Characteristics Data

Company Name:

Renewable Fuels Tallahassee, LLC

Energy Resource:

Biomass - Conversion to Gas (Gasification via Plasma Arc)

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

Company Name:

Renewable Fuels Tallahassee, LLC

Energy Resource:

Biomass - Conversion to Gas (Gasification via Plasma Arc)

	First Year of Commercial Operation (Year)	2010
alled oital	Cost ⁽¹⁾ (\$/kw)	\$3000/kW
Installed Capital	Escalation Rate (%)	2%
Fixed O & M	Cost ⁽¹⁾ (\$/kw-year)	Unknown
Fixed	Escalation Rate (%)	Unknown
Variable O & M	Cost ⁽¹⁾ (\$/kwh)	Unknown
Variable	Escalation Rate (%)	Unknown
Energy	Cost ⁽¹⁾ (\$/kwh)	Unknown
Ene	Escalation Rate (%)	Unknown
	Levelized Cost ⁽²⁾ - Life of Unit (cents/kwh)	Unknown

(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