

RPS Data Form 1: Renewable Generating Technologies

Company Name:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Applicable Utility Service Area:

TECO

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	Installed Capacity 29 MW
	2005-2007 Avg Annual Net Gen 193,036 MWhr
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

RPS Data Form 2: Conventional Generating Technologies

Company Name:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Applicable Utility Service Area:

TECO

FORM NOT APPLICABLE

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:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

Typical Unit Annual Capacity Rating (MW)	29 MW
Earliest Commercial In-Service Date (Year)	1987
Typical Construction & Permitting Time (Years)	Construction 30 months ; Permitting 12-24 mo
Useful Life of Unit (Years)	50 years
Fuel Type	MUNICIPAL SOLID WASTE

RPS Data Form 4: Performance Characteristics Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

Contribution to Summer Peak Demand (MW)	BASE LOAD FACILITY
Contribution to Winter Peak Demand (MW)	BASE LOAD FACILITY
Average Annual Heat Rate (BTU/kWh)	
Equivalent Availability Factor (%)	
Average Annual Generation (MWH)	2005-2007 Avg Annual Net Gen 193,036 MWhr
Resulting Capacity Factor (%)	

RPS Data Form 5: Environmental Characteristics Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	(-4.0 lbs CO₂/gross Kwh generated) - The Facility is a net reducer of GHG's.
	Sulfur Dioxide (SO ₂) (lb/kWh)	3.0E-5 lbs/gross kwh generated
	Nitrogen Oxide (NO _x) (lb/kWh)	7.0E-3 lbs/gross kwh generated
	Mercury (Hg) (lb/kWh)	
	Water Usage (gal/kwh)	A combination of potable and treated effluent water are used to to meet the facility's boiler makeup, process and cooling water needs. Potable 1.2E-1 gal/gross kwh and 3.5E-01 gal/gross kwh treated effluent. Combined Total 4.7E-01 gal/gross kwh generated.

RPS Data Form 6: Estimated Cost Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Existing - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

**WE DO NOT BELIEVE THE INFORMATION
REQUESTED BELOW TO BE APPLICABLE**

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

RPS Data Form 1: Renewable Generating Technologies

Company Name:

Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough

Applicable Utility Service Area:

TECO

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	Installed Capacity 17 MW
	Scheduled On Line May 2009
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

RPS Data Form 2: Conventional Generating Technologies

Company Name:

**Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough**

Applicable Utility Service Area:

TECO

FORM NOT APPLICABLE

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:

**Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough**

Energy Resource:

MUNICIPALE SOLID WASTE

Typical Unit Annual Capacity Rating (MW)	17 MW
Earliest Commercial In-Service Date (Year)	May-09
Typical Construction & Permitting Time (Years)	Construction 30 months ; Permitting 12-24 mo
Useful Life of Unit (Years)	50 years
Fuel Type	MUNICIPALE SOLID WASTE

RPS Data Form 4: Performance Characteristics Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough**

Energy Resource:

MUNICIPALE SOLID WASTE

Contribution to Summer Peak Demand (MW)	BASE LOAD FACILITY
Contribution to Winter Peak Demand (MW)	BASE LOAD FACILITY
Average Annual Heat Rate (BTU/kWh)	
Equivalent Availability Factor (%)	
Average Annual Generation (MWH)	Scheduled On Line May 2009
Resulting Capacity Factor (%)	

RPS Data Form 5: Environmental Characteristics Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	(-4.0 lbs CO₂/Kwh generated) - The Facility is a net reducer of GHG's.
	Sulfur Dioxide (SO ₂) (lb/kWh)	3.0E-5 lbs/gross kwh generated
	Nitrogen Oxide (NO _x) (lb/kWh)	2.7E-03 lbs/gross kwh generated
	Mercury (Hg) (lb/kWh)	2.98E-07 lbs/gross kwh generated
	Water Usage (gal/kwh)	A combination of potable and treated effluent water are used to to meet the facility's boiler makeup, process and cooling water needs. Potable 1.2E-01 gal/gross kwh and 3.5E-01 gal/gross kwh treated effluent. Combined Total 4.7E-01 gal/gross kwh generated.

RPS Data Form 6: Estimated Cost Data

Company Name:

**Hillsborough County Resource Recovery Facility -
Expansion - Covanta Hillsborough**

Energy Resource:

MUNICIPAL SOLID WASTE

WE DO NOT BELIEVE THE INFORMATION
REQUESTED BELOW TO BE APPLICABLE

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

RPS Data Form 1: Renewable Generating Technologies

Company Name:

**Lee County Resource Recovery Facility - Covanta
Lee**

Applicable Utility Service Area:

FP&L/SEMINOLE ELECTRIC

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	Installed Capacity 58 MW
	2005-2007 Avg Annual Net Gen 193,036 MWhr
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

RPS Data Form 2: Conventional Generating Technologies

Company Name:

**Lee County Resource Recovery Facility - Covanta
Lee**

Applicable Utility Service Area:

FP&L/SEMINOLE ELECTRIC

FORM NOT APPLICABLE

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:

**Lee County Resource Recovery Facility - Covanta
Lee**

Energy Resource:

MUNICIPLE SOLID WASTE

Typical Unit Annual Capacity Rating (MW)	58 MW
Earliest Commercial In-Service Date (Year)	1995 Original 39 MW Facility - 19 MW Expansion Oct 2007
Typical Construction & Permitting Time (Years)	Construction 30 months ; Permitting 12-24 mo
Useful Life of Unit (Years)	50 years
Fuel Type	MUNICIPLE SOLID WASTE

RPS Data Form 4: Performance Characteristics Data

Company Name:

**Lee County Resource Recovery Facility - Covanta
Lee**

Energy Resource:

MUNICIPALE SOLID WASTE

Contribution to Summer Peak Demand (MW)	BASE LOAD FACILITY
Contribution to Winter Peak Demand (MW)	BASE LOAD FACILITY
Average Annual Heat Rate (BTU/kWh)	
Equivalent Availability Factor (%)	
Average Annual Generation (MWH)	2005-2007 Avg Annual Net Gen 193,036 MWhr This avearge does not fully reflect the Expanded facility's generating ability since it includes only one partial year of generation for the Expansion Unit which came on line in 2007.
Resulting Capacity Factor (%)	

RPS Data Form 5: Environmental Characteristics Data

Company Name:

**Lee County Resource Recovery Facility - Covanta
Lee**

Energy Resource:

MUNICIPAL SOLID WASTE

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	(-4.0 lbs CO2/Kwh generated) - The Facility is a net reducer of GHG's.
	Sulfur Dioxide (SO ₂) (lb/kWh)	1.2E-4 lbs/gross kwh generated
	Nitrogen Oxide (NO _x) (lb/kWh)	4.0E-2 lbs/gross kwh generated
	Mercury (Hg) (lb/kWh)	2.74E--07 lbs/gross kwh generated
	Water Usage (gal/kwh)	A combination of potable and treated effluent water are used to to meet the facility's boiler makeup, process and cooling water needs. Potable 6.0E-2 gal/gross kwh and 9.0E-01 gal/gross kwh treated effluent. Combined Total 9.6E-01 gal/gross kwh generated.

RPS Data Form 6: Estimated Cost Data

Company Name:	Lee County Resource Recovery Facility - Covanta Lee
Energy Resource:	MUNICIPAL SOLID WASTE
	WE DO NOT BELIEVE THE INFORMATION REQUESTED BELOW TO BE APPLICABLE

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

RPS Data Form 1: Renewable Generating Technologies

Company Name:

**Pasco County Resource Recovery Facility -
Covanta Pasco**

Applicable Utility Service Area:

Progress Energy

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	Installed Capacity 30 MW
	2005-2007 Avg Annual Net Gen 182,193 MWhr
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

RPS Data Form 2: Conventional Generating Technologies

Company Name:

**Pasco County Resource Recovery Facility -
Covanta Pasco**

Applicable Utility Service Area:

Progress Energy

FORM NOT APPLICABLE

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:

**Pasco County Resource Recovery Facility -
Covanta Pasco**

Energy Resource:

MUNICIPLE SOLID WATE

Typical Unit Annual Capacity Rating (MW)	30 MW
Earliest Commercial In-Service Date (Year)	1991
Typical Construction & Permitting Time (Years)	Construction 30 months ; Permitting 12-24 mo
Useful Life of Unit (Years)	50 years
Fuel Type	MUNICIPLE SOLID WASTE

RPS Data Form 4: Performance Characteristics Data

Company Name:

**Pasco County Resource Recovery Facility -
Covanta Pasco**

Energy Resource:

MUNICIPLE SOLID WATE

Contribution to Summer Peak Demand (MW)	BASE LOAD FACILITY
Contribution to Winter Peak Demand (MW)	BASE LOAD FACILITY
Average Annual Heat Rate (BTU/kWh)	
Equivalent Availability Factor (%)	
Average Annual Generation (MWH)	2005-2007 Avg Annual Net Gen 182,193 MWhr
Resulting Capacity Factor (%)	

RPS Data Form 5: Environmental Characteristics Data

Company Name:

**Pasco County Resource Recovery Facility -
Covanta Pasco**

Energy Resource:

MUNICIPLE SOLID WATE

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	(-4.0 lbs CO₂/Kwh generated) - The Facility is a net reducer of GHG's.
	Sulfur Dioxide (SO ₂) (lb/kWh)	1.1E-04 lbs/gross kwh generated
	Nitrogen Oxide (NO _x) (lb/kWh)	7.6E-03 lbs/grosskwh generated
	Mercury (Hg) (lb/kWh)	1.4E-07 lbs/gross kwh generated
	Water Usage (gal/kwh)	A combination of well and treated effluent water are used to to meet the facility's boiler makeup, process and cooling water needs. Combined Total 9.6E-01 gal/gross kwh generated.

RPS Data Form 6: Estimated Cost Data

Company Name:	Pasco County Resource Recovery Facility - Covanta Pasco	
Energy Resource:	MUNICIPAL SOLID WASTE	
	WE DO NOT BELIEVE THE INFORMATION REQUESTED BELOW TO BE APPLICABLE	

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

RPS Data Form 1: Renewable Generating Technologies

Company Name:

**Lake County Resource Recovery Facility - Covanta
Lake**

Applicable Utility Service Area:

TECO

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	Installed Capacity 14.5 MW
	2005-2007 Avg Annual Net Gen 86,533 MWhr
Hydrogen, renewable	Fuel Cells
	Combustion
Waste Heat	Sulfuric Acid Manufacturing
Other	Other

RPS Data Form 2: Conventional Generating Technologies

Company Name:

**Lake County Resource Recovery Facility - Covanta
Lake**

Applicable Utility Service Area:

PROGRESS ENERGY

FORM NOT APPLICABLE

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:

**Lake County Resource Recovery Facility - Covanta
Lake**

Energy Resource:

MUNICIPALE SOLID WASTE

Typical Unit Annual Capacity Rating (MW)	14.5 MW
Earliest Commercial In-Service Date (Year)	1991
Typical Construction & Permitting Time (Years)	Construction 30 months ; Permitting 12-24 mo
Useful Life of Unit (Years)	50 years
Fuel Type	MUNICIPALE SOLID WASTE

RPS Data Form 4: Performance Characteristics Data

Company Name:

**Lake County Resource Recovery Facility - Covanta
Lake**

Energy Resource:

MUNICIPALE SOLID WASTE

Contribution to Summer Peak Demand (MW)	BASE LOAD FACILITY
Contribution to Winter Peak Demand (MW)	BASE LOAD FACILITY
Average Annual Heat Rate (BTU/kWh)	
Equivalent Availability Factor (%)	
Average Annual Generation (MWH)	2005-2007 Avg Annual Net Gen 86,533 MWhr
Resulting Capacity Factor (%)	

RPS Data Form 5: Environmental Characteristics Data

Company Name:

**Lake County Resource Recovery Facility - Covanta
Lake**

Energy Resource:

MUNICIPLE SOLID WASTE

Emission Rates	Carbon Dioxide (CO ₂) (lb/kWh)	(-4.0 lbs CO₂/Kwh generated) - The Facility is a net reducer of GHG's.
	Sulfur Dioxide (SO ₂) (lb/kWh)	8.4E-05 lbs/gross kwh generated
	Nitrogen Oxide (NO _x) (lb/kWh)	6.5E-03 lbs/grosskwh generated
	Mercury (Hg) (lb/kWh)	2.0E-07 lbs/grosskwh generated
	Water Usage (gal/kwh)	9.5E-01 gal/gross kwh well water is used to to meet the facility's potable/domestic, boiler makeup, process and cooling water needs.

RPS Data Form 6: Estimated Cost Data

Company Name:	Lake County Resource Recovery Facility - Covanta Lake
Energy Resource:	MUNICIPAL SOLID WASTE
	WE DO NOT BELIEVE THE INFORMATION REQUESTED BELOW TO BE APPLICABLE

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