| | | Company Name: | | OUC |
|---------------------|--|--|---|---|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Solar Photovoltaic (Utility Scale) |
| sou | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 3 MW |
| CIAL | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| IMER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| CON AVA | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOF RACT | | Equivalent Availability Factor | (%) | 19% (equal to capacity factor) |
| PE | | Average Annual Generation | (MWH) | 4,993 |
| | | Resulting Capacity Factor ⁽³⁾ | (%) | 19.00% |
| L CS | se | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTI | on Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| | missic | Nitrogen Oxide (NO _X) | (lb/kWh) | 0 |
| ENVIF HAR | ш | Mercury (Hg) | (lb/kWh) | 0 |
| - 0 | | Water Usage | (gal/kwh) | 0 |
| | | First Year of Commercial Operation ⁽⁴⁾ | (Year) | N/A |
| | ed al | Cost | (\$/kw) | \$5 640 \$8 200 (2008 \$) |
| | oit all | | (4) | \$3,840 - \$8,200 (2008 \$) |
| | Install Capit | Escalation Rate | (%) | \$5,640 - \$6,200 (2006 \$) 2.5% |
| АТА | k M - Install ked Capit | Escalation Rate Cost | (%) (\$/kw-year) | 2.5% N/A - Refer to Variable O&M \$/kWh |
| OST DATA | O & M - Install Fixed Capit | Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% |
| ED COST DATA | & M - O & M - Install iable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ | (%) (%) (%) (%) (\$/kwh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) |
| IMATED COST DATA | O & M - O & M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% |
| ESTIMATED COST DATA | uel O&M - O&M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate Cost | (%) (%) (%) (%) (%) (%/wh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% \$0.00 |
| ESTIMATED COST DATA | Fuel O&M - O&M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% \$0.00 2.5% |
| ESTIMATED COST DATA | Fuel O&M - O&M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate Cost Escalation Rate Discount Rate | (%) (%/ww-year) (%) (%/wwh) (%) (%) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% \$0.00 2.5% 80.00 2.5% 8.0% |
| ESTIMATED COST DATA | Fuel O&M - O&M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁶⁾ - Life of Unit | (%) (%) (\$/kw-year) (%) (\$/kwh) (%) (%) (%) (%) (cents/kwh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% \$0.00 2.5% 8.0% 37 ¢ - 53 ¢ (2008 ¢) |
| ESTIMATED COST DATA | Fuel O & M - O & M - Install Variable Fixed Capit | Escalation Rate Cost Escalation Rate Cost ⁽⁵⁾ Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁶⁾ - Life of Unit FOOTNOTES / ADDITIONAL | (km) (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) (%) (cents/kwh) NOTES | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.017 (2008 \$) 2.5% \$0.00 2.5% 8.0% 37 ¢ - 53 ¢ (2008 ¢) |

(2) Construction and permitting time depends on location selected for construction.

(3) Based on fixed (non-tracking) axis system. Single- or dual-axis tracking would likely increase capacity factor while increasing system costs.

(5) Data presented represents total O&M costs.

(6) The range of levelized costs is based on the capacity factor and O&M presented in the table above as well as the range of capital cost Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---|---|---|---|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Wind (Onshore) |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 50 MW - 100 MW |
| | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| IMER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| CE | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOF RACT | | Equivalent Availability Factor | (%) | 10% - 15% (equal to capacity factor) |
| PE | | Average Annual Generation | (MWH) | 87,600 - 131,400 (for 100 MW facility) 43,800 - 65,700 (for 50 MW facility) |
| | | Resulting Capacity Factor | (%) | 10% - 15% |
| | | Carbon Diavida (CO.) | (lb/kWb) | 0 |
| S F | es | | (ID/KVIII) | - |
| ENTAL RISTICS | on Rates | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| KONMENTAL ACTERISTICS | mission Rates | Sulfur Dioxide (CO ₂) Nitrogen Oxide (NO _x) | (Ib/kWh) (Ib/kWh) | 0 |
| ENVIRONMENTAL HARACTERISTICS | Emission Rates | Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) | (lb/kWh) (lb/kWh) (lb/kWh) | 0 0 0 |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage | (b/kWh) (b/kWh) (b/kWh) (gal/kwh) | 0 0 0 0 |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ | (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (Year) | 0 0 0 0 0 N/A |
| ENVIRONMENTAL CHARACTERISTICS | alled Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost | (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (year) (\$/kw) | 0 0 0 0 0 N/A \$1.640 - \$1,950 (2008 \$) |
| ENVIRONMENTAL CHARACTERISTICS | Installed Capital | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate | (b/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) (%) | 0 0 0 0 0 N/A \$1,640 - \$1,950 (2008 \$) 2.5% |
| DATA ENVIRONMENTAL CHARACTERISTICS | k M - Installed Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost | (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (%) (\$/kw-year) | 0 0 0 0 0 N/A \$1.640 - \$1,950 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh |
| OST DATA ENVIRONMENTAL CHARACTERISTICS | O & M - Installed Fixed Capital | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate | (b/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (year) (\$/kw) (\$/kw) (%) | 0 0 0 0 0 N/A \$1,640 - \$1,950 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% |
| ED COST DATA ENVIRONMENTAL CHARACTERISTICS | & M - O & M - Installed Emission Rates iable Fixed Capital | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate | (b/kWh) (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (Year) (\$/kw) (%) (\$/kw-year) (%) (\$/kwh) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| IMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | O & M - O & M - Installed Variable Fixed Capital Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate | (b/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (\$/kw) (\$/kw-year) (\$/kw-year) (\$/kw-year) (\$/kw-year) | 0 0 0 0 0 N/A \$1,640 - \$1,950 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.010 (2008 \$) 2.5% |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | uel O & M - O & M - Installed Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost | (b/kWh) (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (\$/kw) (\$/kw-year) (%) (\$/kwh) (\$/kwh) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Capital Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost | (b/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (\$/kw) (\$/kw-year) (%) (\$/kw-year) (%) (\$/kwh) (\$/kwh) (%) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel O & M - O & M - Installed Emission Rates Variable Fixed Capital Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Discount Rate | (b/kWh) (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (\$/kw) (\$/kw) (\$/kwh) (\$/kwh) (\$/kwh) (\$/kwh) (\$/kwh) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Capital Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁶⁾ - Life of Unit | (b/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (\$/kw-year) (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) (%) (%) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel O & M - O & M - Installed Emission Rates | Sulfur Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁶⁾ - Life of Unit FOOTNOTES / ADDITIONAL | (b/kWh) (b/kWh) (b/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (\$/kw) (\$/kwh) | 0 0 0 0 0 N/A \$1,640 - \$1,950 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.010 (2008 \$) 2.5% \$0.00 2.5% \$0.00 2.5% 8.0% 14 ¢ - 24 ¢ (2008 ¢) |

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) The range of levelized costs is based on the O&M presented in the table above as well as the ranges of capital costs, capacity factors, and unit capacity. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|----------------|----------------|--|---------------------------|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Wind (Offshore) |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 20 MW |
| CIAL | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| IMER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| CON | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| RMAN TERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOF RACT | | Equivalent Availability Factor | (%) | 34% - 38% (equal to capacity factor) |
| PECHA | | Average Annual Generation | (MWH) | 63,072 |
| | | Resulting Capacity Factor | (%) | 34% - 38% |
| L CS | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTIC | on Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| | missic | Nitrogen Oxide (NO _x) | (lb/kWh) | 0 |
| ENVIF HAR | ш | Mercury (Hg) | (lb/kWh) | 0 |
| - 0 | | Water Usage | (gal/kwh) | 0 |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled oital | Cost ⁽⁴⁾ | (\$/kw) | \$2,460 - \$2,870 (2008 \$) |
| | Inst Caj | Escalation Rate | (%) | 2.5% |
| АТА | k M - xed | Cost | (\$/kw-year) | N/A - Refer to Variable O&M \$/kWh |
| OST D | 0 8 Fi | Escalation Rate | (%) | 2.5% |
| ED C | k M - iable | Cost ⁽⁵⁾ | (\$/kwh) | \$0.015 (2008 \$) |
| IMAT | 0 8 Var | Escalation Rate | (%) | 2.5% |
| EST | leu | Cost | (\$/kwh) | \$0.00 |
| | ш | Escalation Rate | (%) | 2.5% |
| | | Discount Rate | (%) | 8.0% |
| | | Levelized Cost ⁽⁶⁾ - Life of Unit | (cents/kwh) | 9¢-12¢(2008¢) |
| | | FOOTNOTES / ADDITIONAL | NOTES | |
| | | (1) Offshore wind is considered to be in the early stages of c | commercial demonstration. | |

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Does not include capital costs related to transmission.

(5) Data presented represents total O&M costs.

(6) The range of levelized costs is based on the O&M presented in the table above as well as the ranges of capital costs and capacity factors. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---------------|-------------------|---|--|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Incremental Hydroelectric |
| sou | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 1 MW - 160 MW |
| CIAL | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| IMER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| CON | | Useful Life of Unit | (Years) | 30 |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | 1 MW - 160 MW |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | 1 MW - 160 MW |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOF RACT | | Equivalent Availability Factor | (%) | 40% - 60% (equal to capacity factor) |
| PECHA | | Average Annual Generation | (MWH) | 560,640 - 840,960 (for 160 MW facility) 3,504 - 5,256 (for 1 MW facility) |
| | | Resulting Capacity Factor | (%) | 40% - 60% |
| L CS | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTI | on Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| | missic | Nitrogen Oxide (NO _X) | (lb/kWh) | 0 |
| ENVIF HAR | ш | Mercury (Hg) | (lb/kWh) | 0 |
| - 0 | | Water Usage | (gal/kwh) | Not Available |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled oital | Cost | (\$/kw) | \$630 - \$3,050 (2008 \$) |
| | Inst Ca | Escalation Rate | (%) | 2.5% |
| АТА | - M - | Cost | (\$/kw-year) | \$5.20 - \$26.20 (2008 \$) |
| OST [| 0 8 Fi | Escalation Rate | (%) | 2.5% |
| ED C | M - | Cost | (\$/kwh) | \$0.0037 - \$0.0064 (2008 \$) |
| | 0) × 10 | | | |
| LAMI | 0 & Varia | Escalation Rate | (%) | 2.5% |
| ESTIMAT | uel O& | Escalation Rate Cost | (%) (\$/kwh) | 2.5% |
| ESTIMAT | Fuel 0 & | Escalation Rate Cost Escalation Rate | (%) (\$/kwh) (%) | 2.5% \$0.00 2.5% |
| ESTIMAT | Fuel 0 & | Escalation Rate Cost Escalation Rate Discount Rate | (%) (\$/kwh) (%) (%) | 2.5% \$0.00 2.5% 8.0% |
| ESTIMAT | Fuel 0 & Varia | Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁴⁾ - Life of Unit | (%) (\$/kwh) (%) (%) (cents/kwh) | 2.5% \$0.00 2.5% 8.0% 2 ¢ - 11 ¢ (2008 ¢) |

(1) Hydroelectric is considered to be a demonstrated renewable technology. However, Florida does not have the natural resources required to develop any new hydroelctric generation facilities.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) The range of levelized costs is based on the ranges of O&M presented in the table above as well as the ranges of capital costs, capacity factors, and unit capacity. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|----------------|----------------|---|------------------------|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Geothermal (Binary) |
| sou | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 30 MW |
| CIAL | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| IMER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| CON AVA | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | 30 MW |
| CE | | Contribution to Winter Peak Demand | (MW) | 30 MW |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOF RACT | | Equivalent Availability Factor | (%) | 70% - 90% (equal to capacity factor) |
| PE CHA | | Average Annual Generation | (MWH) | 183,960 - 236,520 |
| | | Resulting Capacity Factor | (%) | 70% - 90% |
| _ <u>s</u> | se | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTIC | n Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| | missic | Nitrogen Oxide (NO _x) | (lb/kWh) | 0 |
| ENVIR HARA | Ē | Mercury (Hg) | (lb/kWh) | 0 |
| ^ພ ບ | | Water Usage | (gal/kwh) | Not Available |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled bital | Cost | (\$/kw) | \$3,075 - \$4,100 (2008 \$) |
| | Insta Cap | Escalation Rate | (%) | 2.5% |
| АТА | ь М - ked | Cost ⁽⁴⁾ | (\$/kw-year) | \$25.60 - \$30.75 (2008 \$) |
| DST D | 0 8 Fi | Escalation Rate | (%) | 2.5% |
| ED C(| k M - able | Cost | (\$/kwh) | N/A - Refer to Fixed O&M \$/kW-yr |
| IMAT | 0 8 Vari | Escalation Rate | (%) | 2.5% |
| EST | nel | Cost | (\$/kwh) | \$0.00 |
| | Ē | Escalation Rate | (%) | 2.5% |
| | | Discount Rate | (%) | 8.0% |
| | | Levelized Cost ⁽⁵⁾ - Life of Unit | (cents/kwh) | 4.5¢-7.5¢(2008¢) |
| | | FOOTNOTES / ADDITIONAL | NOTES | |

(1) Geothermal is considered to be a demonstrated renewable technology. However, there are minimal geothermal resources available east of the Mississippi River, and no resources suitable for power generation or direct heat applications in Florida.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) The range of levelized costs is based on the range of O&M costs presented in the table above as well as the ranges of capital costs and capacity factors. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---------------------|--|--|---|---|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Ocean Wave |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 10 MW |
| | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | N/A |
| INER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| COM | | Useful Life of Unit ⁽¹⁾ | (Years) | N/A |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOR RACT | | Equivalent Availability Factor | (%) | 40% (equal to capacity factor) |
| PE | | Average Annual Generation | (MWH) | 35,040 |
| | | Resulting Capacity Factor | (%) | 40% |
| L S | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTIC | n Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| CTEF | missic | Nitrogen Oxide (NO _X) | (lb/kWh) | 0 |
| ENVIR HAR | Ш | Mercury (Hg) | (lb/kWh) | 0 |
| ш о | | Water Usage | (gal/kwh) | Not Available |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | led tal | Cost | (\$/kw) | \$3 590 - \$4 610 (2008 \$) |
| | Di al | | (, , | φ0,000 - φ4,010 (2000 φ) |
| | Instal Capi | Escalation Rate | (%) | 2.5% |
| АТА | : M - Instal ced Capi | Escalation Rate Cost | (%) (\$/kw-year) | 2.5% N/A - Refer to Variable O&M \$/kWh |
| OST DATA | O & M - Instal Fixed Capi | Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% |
| ED COST DATA | k M - O & M - Instal iable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ | (%) (\$/kw-year) (%) (\$/kwh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) |
| IMATED COST DATA | O & M - O & M - Instal Variable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) 2.5% |
| ESTIMATED COST DATA | uel O & M - O & M - Instal Variable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost | (%) (\$/kw-year) (%) (\$/kwh) (\$/kwh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) 2.5% \$0.00 |
| ESTIMATED COST DATA | Fuel O&M - O&M - Instal Variable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) 2.5% \$0.00 2.5% |
| ESTIMATED COST DATA | Fuel O & M - O & M - Instal Variable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate Discount Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) 2.5% \$0.00 2.5% 80.00 8.0% |
| ESTIMATED COST DATA | Fuel O&M - O&M - Instal Variable Fixed Capi | Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁵⁾ - Life of Unit | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) (%) (%) (cents/kwh) | 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.046 - \$0.062 (2008 \$) 2.5% \$0.00 2.5% 8.0% 16 ¢ - 21 ¢ (2008 ¢) |

(1) Wave energy technology has not yet been demonstrated and is therefore not considered a commercially available renewable technology.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) The range of levelized costs is based on the range of O&M costs presented in the table above as well as the range of capital costs. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---|---|---|--|---|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Ocean Thermal Energy Conversion (Onshore) |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 10 MW |
| ΓĮ | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | N/A |
| MER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| COM AVA | | Useful Life of Unit ⁽¹⁾ | (Years) | N/A |
| | | Fuel Type | | None |
| | | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| US SI | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOR RACT | | Equivalent Availability Factor | (%) | 90% (equal to capacity factor) |
| PE | | Average Annual Generation | (MWH) | 78,840 |
| | | Resulting Capacity Factor | (%) | 90% |
| | | | | |
| <u>ي</u> د | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTAL RISTICS | on Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) | (lb/kWh) (lb/kWh) | 0 |
| CONMENTAL | mission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) | (lb/kWh) (lb/kWh) (lb/kWh) | 0 0 0 |
| ENVIRONMENTAL HARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) | 0 0 0 0 |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) | 0 0 0 0 Not Available |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) | 0 0 0 0 Not Available N/A |
| ENVIRONMENTAL CHARACTERISTICS | alled Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) |
| ENVIRONMENTAL CHARACTERISTICS | Installed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) (\$/w) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% |
| ATA ENVIRONMENTAL CHARACTERISTICS | - M - Installed Emission Rates ted Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (%) (\$/kw-year) | 0 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh |
| DST DATA ENVIRONMENTAL CHARACTERISTICS | O & M - Installed Emission Rates Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (year) (\$/kw) (\$/kw-year) (\$/kw-year) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% |
| ED COST DATA ENVIRONMENTAL CHARACTERISTICS | t M - O & M - Installed Emission Rates able Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (\$/kw) (\$/kw) (\$/kw-year) (\$/kw-year) (\$/kwh) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) |
| IMATED COST DATA CHARACTERISTICS | O & M - O & M - Installed Emission Rates Variable Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (%) (\$/kw-year) (%) (\$/kw-yh) (\$/kwh) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) 2.5% |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | uel O & M - O & M - Installed Emission Rates Variable Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (year) (y | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) 2.5% |
| ESTIMATED COST DATA CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (%/kw) (%) (%/kwh) (%) (%/kwh) (%) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) 2.5% \$0.00 \$0.00 |
| ESTIMATED COST DATA CHARACTERISTICS | Fuel O & M - O & M - Installed Emission Rates Variable Fixed Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate Discount Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (\$/kw) (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) (%) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) 2.5% \$0.00 2.5% 80.00 |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost Escalation Rate Discount Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (%/kw) (%) (%/kwh) (%) (%/kwh) (%) (%) (%) (%) | 0 0 0 0 Not Available N/A \$10,500 - \$15,760 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.014 - \$0.026 (2008 \$) 2.5% \$0.00 2.5% \$0.00 14 \$ - 24 \$ (2008 \$) |

(1) Ocean thermal energy conversion technology has not yet been demonstrated and is therefore not considered a commercially available renewable technology.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) The range of levelized costs is based on the range of O&M costs presented in the table above as well as the range of capital costs. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|----------------|--------------------------|---|--|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Ocean Thermal Energy Conversion (Offshore) |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 100 MW |
| | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | N/A |
| ILABI | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| COM AVA | | Useful Life of Unit ⁽¹⁾ | (Years) | N/A |
| | | Fuel Type | | None |
| | 1 | Contribution to Summer Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | Dependant upon facility location and time of utility peak demand. |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | None |
| RFOR RACT | | Equivalent Availability Factor | (%) | 90% (equal to capacity factor) |
| PE CHA | | Average Annual Generation | (MWH) | 788,400 |
| | | Resulting Capacity Factor | (%) | 90% |
| S L | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 0 |
| ENTA RISTIC | n Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0 |
| ONMI | nissio | Nitrogen Oxide (NO _X) | (lb/kWh) | 0 |
| ENVIR HARA | Ē | Mercury (Hg) | (lb/kWh) | 0 |
| ш о | | Water Usage | (gal/kwh) | Not Available |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled ital | Cost | (\$/kw) | \$2,630 - \$5,250 (2008 \$) |
| | Insta Cap | Escalation Rate | (%) | 2.5% |
| АТА | - M | Cost | (\$/kw-year) | N/A - Refer to Variable O&M \$/kWh |
| OST D | 0 & Fix | Escalation Rate | (%) | 2.5% |
| | | Q (⁴) | (\$/kwh) | \$0.014 - \$0.026 (2008 \$) |
| ED CC | - M - able | Cost | | |
| IMATED CO | O & M - Variable | Escalation Rate | (%) | 2.5% |
| ESTIMATED CC | uel O & M - Variable | Escalation Rate Cost | (%) (\$/kwh) | 2.5% |
| ESTIMATED CC | Fuel O & M - Variable | Escalation Rate Cost Escalation Rate | (%) (\$/kwh) (%) | 2.5% \$0.00 2.5% |
| ESTIMATED CC | Fuel O & M - Variable | Cost Cost Cost Cost Cost Cost Cost Cost | (%) (\$/kwh) (%) (%) | 2.5% \$0.00 2.5% 8.0% |
| ESTIMATED CC | Fuel 0 & M - Variable | Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁵⁾ - Life of Unit | (%) (\$/kwh) (%) (%) (cents/kwh) | 2.5% \$0.00 2.5% 8.0% 5 ¢ - 10 ¢ (2008 ¢) |

(1) Ocean thermal energy conversion technology has not yet been demonstrated and is therefore not considered a commercially available renewable technology.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) The range of levelized costs is based on the range of O&M costs presented in the table above as well as the range of capital costs. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|--------------|--------------|---|------------------------|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| SCE | | Energy Resource: | (Individual Type) | Direct-Fired Biomass |
| sour | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 35 MW |
| IĂ Ľ | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| MER(LABI | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| COM AVAI | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | Wood Waste |
| | | Contribution to Summer Peak Demand | (MW) | 35 MW |
| UCS LICS | | Contribution to Winter Peak Demand | (MW) | 35 MW |
| MAN ERIS | | Average Annual Heat Rate | (BTU/kWh) | 13,500 |
| RFOR RACT | | Equivalent Availability Factor | (%) | 70% - 90% (Equal to capacity factor) |
| PE | | Energy Resource: | (Individual Type) | Direct-Fired Biomass |
| | | Energy Resource Type: | (Category) | Renewable |
| <u>ں</u> | s | Resource Scale | (Unit or Aggregate) | UNIT |
| | n Rate | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| ONMI | nissio | Typical Unit Annual Capacity Rating | (MW) | 35 MW |
| INVIR HAR | Ē | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| ш о С | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| | | Useful Life of Unit | (Years) | 20 |
| | ital | Fuel Type | | Wood Waste |
| | Insta Cap | Contribution to Summer Peak Demand | (MW) | 35 MW |
| АТА | M - ed | Contribution to Winter Peak Demand | (MW) | 35 MW |
| IST D | 0 & Fix | Average Annual Heat Rate | (BTU/kWh) | 13,500 |
| | M - able | Equivalent Availability Factor | (%) | 70% - 90% (Equal to capacity factor) |
| MATI | 0 & Vari | Average Annual Generation | (MWH) | 214,620 - 275,940 |
| EST | ler | Resulting Capacity Factor | (%) | 70% - 90% |
| | Ē | Carbon Dioxide (CO ₂) | (lb/kWh) | 3.0 (biomass may be considered CO ₂ neutral) |
| | | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0.0014 |
| | | Nitrogen Oxide (NO _x) | (lb/kWh) | 0.002 |
| | | FOOM NOTES OF ADDITIONAL | NOTES(b/kWh) | Neglible |
| | | | | |

(1) Direct-fired biomass is considered to be a demonstrated renewable technology.
 (alkwh)
 (2) Construction and permitting time depends on location selected for construction.

 (3) First year of commercial operation is dependent on the permitting and construction time. N/A
First Year of Commercial Operation?
 (4) The range of levelized costs is based on the range of O&M presented in the table above as well as the range of capital costs and capacity factors. Levelized costs are calculated by taking the annual cost per kWh of generating discounting each year's anyuelogest based of 2008 giolars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors. (%)

Escalation Rate

2.5%

| | | Company Name: | | OUC |
|---------------------|---|---|---|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Biomass IGCC |
| sou | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 35 MW |
| | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | N/A |
| MER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| COM AVA | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | Wood Waste |
| | | Contribution to Summer Peak Demand | (MW) | 35 MW |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | 35 MW |
| ERIS | | Average Annual Heat Rate | (BTU/kWh) | 10,000 - 11,500 |
| RFOF RACT | | Equivalent Availability Factor | (%) | 60% - 80% (Equal to capacity factor) |
| CHA | | Average Annual Generation | (MWH) | 183,960 - 245,280 |
| | | Resulting Capacity Factor | (%) | 60% - 80% |
| _ <u></u> % | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 2.2 @ 10,000 Btu/kWh (biomass may be considered CO $_{\rm 2}$ neutral) 2.5 @ 11,500 Btu/kWh (biomass may be considered CO $_{\rm 2}$ neutral) |
| | n Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0.0005 - 0.001 @ 10,000 Btu/kWh 0.0006 - 0.001 @ 11,500 Btu/kWh |
| CTEF | missic | Nitrogen Oxide (NO _X) | (lb/kWh) | 0.001 |
| | Ē | Mercury (Hg) | (lb/kWh) | Neglible |
| ш о | | Water Usage | (gal/kwh) | 0.7 |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled oital | Cost | (\$/kw) | \$3,075 - \$4,100 (2008 \$) |
| | | | | |
| | Insta Cap | Escalation Rate | (%) | 2.5% |
| АТА | . M - Insta ked Cap | Escalation Rate Cost | (%) (\$/kw-year) | 2.5% \$85.00 |
| OST DATA | O & M - Insta Fixed Cap | Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) | 2.5% \$85.00 2.5% |
| ED COST DATA | k M - O & M - Inst iable Fixed Cap | Escalation Rate Cost Escalation Rate Cost | (%) (\$/kw-year) (%) (\$/kwh) | 2.5% \$85.00 2.5% \$0.011 (2008 \$) |
| IMATED COST DATA | O & M - O & M - Insta Variable Fixed Car | Escalation Rate Cost Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) | 2.5% \$85.00 2.5% \$0.011 (2008 \$) 2.5% |
| ESTIMATED COST DATA | uel O & M - O & M - Insta Variable Fixed Car | Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost | (%) (\$/kw-year) (%) (\$/kwh) (\$/ | 2.5% \$85.00 2.5% \$0.011 (2008 \$) 2.5% 0.023 (2008 \$) @ 10,000 Btu/kWh 0.026 (2008 \$) @ 11,500 Btu/kWh |
| ESTIMATED COST DATA | Fuel 0 & M - 0 & M - Inst Variable Fixed Car | Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.5% \$85.00 2.5% \$0.011 (2008 \$) 2.5% 0.023 (2008 \$) @ 10,000 Btu/kWh 0.026 (2008 \$) @ 11,500 Btu/kWh 2.5% |
| ESTIMATED COST DATA | Fuel O & M - O & M - Inst Variable Fixed Car | Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Discount Rate | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.5% \$85.00 2.5% \$0.011 (2008 \$) 2.5% 0.023 (2008 \$) @ 10,000 Btu/kWh 0.026 (2008 \$) @ 11,500 Btu/kWh 2.5% 8.0% |
| ESTIMATED COST DATA | Fuel O & M - O & M - Inst Variable Fixed Car | Escalation Rate Cost Escalation Rate Cost Escalation Rate Cost Escalation Rate Discount Rate Levelized Cost ⁽⁴⁾ - Life of Unit | (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) (cents/kwh) | 2.5% \$85.00 2.5% \$0.011 (2008 \$) 2.5% 0.023 (2008 \$) @ 10,000 Btu/kWh 0.026 (2008 \$) @ 11,500 Btu/kWh 2.5% 8.0% 10 ¢ - 14.5 ¢ (2008 ¢) |

(1) Biomass IGCC is not yet considered to be a demonstrated renewable technology.

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) The range of levelized costs is based on the O&M presented in the table above as well as the range of capital costs, capacity factors, and heat rates. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---------------|----------------|--|----------------------------|--|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Farm Scale Anaerobic Digestion |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 0.150 MW |
| | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| INER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| | | Useful Life of Unit | (Years) | 20 |
| | | Fuel Type | | Animal Manure |
| | | Contribution to Summer Peak Demand | (MW) | 0.150 MW |
| | | Contribution to Winter Peak Demand | (MW) | 0.150 MW |
| | | Average Annual Heat Rate | (BTU/kWh) | 10,000 |
| RFOF RACT | | Equivalent Availability Factor | (%) | 70% - 90% (Equal to capacity factor) |
| PE CHA | | Average Annual Generation | (MWH) | 214,620 - 275,940 |
| | | Resulting Capacity Factor | (%) | 70% - 90% |
| CS F | es | Carbon Dioxide (CO ₂) | (lb/kWh) | 2.3 (may be considered $\rm CO_2$ neutral) |
| ENTA RISTI | on Rat | Sulfur Dioxide (SO ₂) | (lb/kWh) | 0.00028 - 0.033 (depends on fuel source) |
| | missic | Nitrogen Oxide (NO _X) | (lb/kWh) | 0.002 |
| ENVIE HAR/ | ш | Mercury (Hg) | (lb/kWh) | 0 |
| - 0 | | Water Usage | (gal/kwh) | Not Available |
| | | First Year of Commercial Operation ⁽³⁾ | (Year) | N/A |
| | alled oital | Cost | (\$/kw) | \$4,100 - \$6,150 (2008 \$) |
| | Insta Cap | Escalation Rate | (%) | 2.5% |
| АТА | k M - ked | Cost | (\$/kw-year) | N/A - Refer to Variable O&M \$/kWh |
| OST [| 0 8 Fi | Escalation Rate | (%) | 2.5% |
| EDC | k M - iable | Cost ⁽⁴⁾ | (\$/kwh) | \$0.017 (2008 \$) |
| IMAT | 0 8 Var | Escalation Rate | (%) | 2.5% |
| EST | lel | Cost ⁽⁵⁾ | (\$/kwh) | \$0.00 |
| | ш | Escalation Rate | (%) | 2.5% |
| | | Discount Rate | (%) | 8.0% |
| | | Levelized Cost ⁽⁶⁾ - Life of Unit | (cents/kwh) | 7.4 ¢ - 12.4 ¢ (2008 ¢) |
| | | FOOTNOTES / ADDITIONAL | NOTES | |
| | | (1) Farm-scale anaerobic digestion is considered to be a dem | onstrated renewable techno | logy. |

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) Assumes no fuel cost as animal manure would be burned on-site.

(6) The range of levelized costs is based on the O&M presented in the table above as well as the range of capital costs and capacity factors. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.

| | | Company Name: | | OUC |
|---|---|--|---|---|
| | | Applicable Utility Service Area | (if any) | Orlando |
| RCE | | Energy Resource: | (Individual Type) | Landfill Gas |
| nos | | Energy Resource Type: | (Category) | Renewable |
| | | Resource Scale | (Unit or Aggregate) | UNIT |
| | | Unit Status | (Existing or Planning) | Planning (not representative of specific project being considered by OUC) |
| | | Typical Unit Annual Capacity Rating | (MW) | 2 MW - 10 MW |
| CIAL | | Earliest Commercial In-Service Date ⁽¹⁾ | (Year) | 2008 |
| INER | | Typical Construction & Permitting Time ⁽²⁾ | (Years) | N/A |
| | | Useful Life of Unit | (Years) | 15 |
| | | Fuel Type | | Landfill Gas (methane) |
| | | Contribution to Summer Peak Demand | (MW) | 2 MW - 10 MW |
| CE TICS | | Contribution to Winter Peak Demand | (MW) | 2 MW - 10 MW |
| RMAN | | Average Annual Heat Rate | (BTU/kWh) | 10,000 |
| RFOF RAC1 | | Equivalent Availability Factor | (%) | 70% - 90% (Equal to capacity factor) |
| PE CHA | | Average Annual Generation | (MWH) | 12,264 - 15,768 (for 2 MW facility) 61,320 - 78,840 (for 10 MW facility) |
| | | Resulting Capacity Factor | (%) | 70% - 90% |
| | | | | |
| L CS | tes | Carbon Dioxide (CO ₂) | (lb/kWh) | 2.3 (may be considered CO_2 neutral) |
| ENTAL RISTICS | on Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) | (lb/kWh) (lb/kWh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) |
| RONMENTAL ACTERISTICS | imission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) | (lb/kWh) (lb/kWh) (lb/kWh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available |
| ENVIRONMENTAL CHARACTERISTICS | Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A |
| ENVIRONMENTAL CHARACTERISTICS | alled Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) |
| ENVIRONMENTAL CHARACTERISTICS | Installed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% |
| DATA ENVIRONMENTAL CHARACTERISTICS | k M - Installed Emission Rates xed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (\$/kw) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh |
| OST DATA ENVIRONMENTAL CHARACTERISTICS | O & M - Installed Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (Year) (\$/kw) (%) (\$/kw-year) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% |
| ED COST DATA ENVIRONMENTAL CHARACTERISTICS | k M - O & M - Installed Emission Rates iable Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (\$/kw) (\$/kw) (\$/kw-year) (%) (\$/kwh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) |
| IMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | O & M - O & M - Installed Variable Fixed Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (year) (%) (\$/kw-year) (%) (\$/kw-year) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | uel O & M - O & M - Installed Emission Rates Variable Fixed Capital | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (Year) (\$/kw) (\$/kw) (\$/kw-year) (\$/ (\$/kwh) (\$/kwh) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% \$0.00 |
| ESTIMATED COST DATA CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost ⁽⁵⁾ Escalation Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (\$/kw-year) (%) (\$/kw-year) (%) (\$/kwh) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel O & M - O & M - Installed Emission Rates Variable Fixed Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost ⁽⁵⁾ Escalation Rate Discount Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (\$/kw-year) (%) (\$/kw-year) (%) (\$/kwh) (%) (\$/kwh) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% \$0.00 2.5% \$0.00 2.5% \$0.00 2.5% |
| ESTIMATED COST DATA ENVIRONMENTAL CHARACTERISTICS | Fuel 0 & M - 0 & M - Installed Emission Rates Variable Fixed Capital Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _X) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost ⁽⁵⁾ Escalation Rate Discount Rate | (lb/kWh) (lb/kWh) (lb/kWh) (lb/kWh) (gal/kwh) (gal/kwh) (%) (\$/kw-year) (%) (\$/kw-year) (%) (\$/kwh) (%) (%) (%) (%) | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% \$0.00 2.5% \$0.00 2.5% \$0.00 3.7 ¢ - 6.7 ¢ (2008 ¢) |
| ESTIMATED COST DATA CHARACTERISTICS | Fuel O & M - O & M - Installed Emission Rates Variable Fixed Capital Emission Rates | Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Nitrogen Oxide (NO _x) Mercury (Hg) Water Usage First Year of Commercial Operation ⁽³⁾ Cost Cost Escalation Rate Cost Escalation Rate Cost ⁽⁴⁾ Escalation Rate Cost ⁽⁵⁾ Escalation Rate Discount Rate Levelized Cost ⁽⁶⁾ - Life of Unit | (Ib/kWh) (Ib/kWh) (Ib/kWh) (Ib/kWh) (gal/kwh) (gal/kwh) (Year) (%) (%/kw-year) (%) (%/kwh) (%) (%/kwh) (%) (%/kwh) (%) (%/kwh) (%) (%) (%) (%) (%) (%) (%) (%) (%) (% | 2.3 (may be considered CO ₂ neutral) 0.00028 - 0.033 (depends on fuel source) 0.002 0 Not Available N/A \$1,370 - \$2,840 (2008 \$) 2.5% N/A - Refer to Variable O&M \$/kWh 2.5% \$0.016 (2008 \$) 2.5% \$0.00 2.5% \$0.00 2.5% \$0.00 3.7 ¢ - 6.7 ¢ (2008 ¢) |

(2) Construction and permitting time depends on location selected for construction.

(3) First year of commercial operation is dependant on the permitting and construction time.

(4) Data presented represents total O&M costs.

(5) Assumes no fuel cost as costs of gas collection system are included in the capital cost.

(6) The range of levelized costs is based on the O&M presented in the table above as well as the range of capital costs and capacity factors. Levelized costs are calculated by taking the annual cost per kWh of generation, discounting each year's annual costs back to 2008 dollars and summing the annual present worth costs, and then dividing through by the sum of the present worth factors.