Pole Hill Powerplant
Colorado-Big Thompson Project

Ancillary Services

<table>
<thead>
<tr>
<th>Pole Hill Ancillary Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spinning Reserve</td>
</tr>
<tr>
<td>Non-Spinning Reserve</td>
</tr>
<tr>
<td>Replacement Reserve</td>
</tr>
<tr>
<td>Regulation/Load Following</td>
</tr>
<tr>
<td>Black Start</td>
</tr>
<tr>
<td>Voltage Support</td>
</tr>
</tbody>
</table>

Generators

<table>
<thead>
<tr>
<th>Pole Hill Generators</th>
<th>Existing Number and Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit #</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 Unit</td>
</tr>
</tbody>
</table>
Pole Hill Powerplant
30-100 MW

Generation

Pole Hill Fiscal Year Net Generation

Pole Hill Monthly Net Generation

Pole Hill Water Supply

Water Spilled | Water Supply
Prime Laboratory Benchmarks

Benchmark 1
Wholesale Firm Rate

![Wholesale Firm Composite Rate Loveland Rate](chart1)

Benchmark 2
Reclamation’s Production Costs as Percentage of Wholesale Firm Rate

![Reclamation O&M Production Cost as Percentage of Wholesale Firm Rate](chart2)
Benchmark 3
Production Costs

Pole Hill Powerplant
30-100 MW

Pole Hill
Operation Costs

Fiscal Years

Pole Hill
Maintenance Costs

Fiscal Years

Pole Hill
Operation Costs
Fiscal Year 2007

Pole Hill
Maintenance Costs
Fiscal Year 2007
Benchmark 3
Production Costs

Pole Hill Operation and Maintenance Costs

Pole Hill Operation and Maintenance Costs
Fiscal Year 2007

Fiscal Year 2007
Total Production Costs
External Comparison

Fiscal Year 2007
Total Production Costs
External Comparison

External Group Average = $54.6/MWh
Reclamation Group Average = $9.1/MWh

External Group Average = $30,336/MW
Reclamation Group Average = $25,237/MW
Pole Hill Powerplant
30-100 MW

Benchmark 4
Workforce Deployment

### Pole Hill FY 2007 Equivalent Work Staffing Year Levels

<table>
<thead>
<tr>
<th></th>
<th>Equivalent Work Year Staffing Charged to Powerplant</th>
<th>Leave Additive</th>
<th>Denver and Washington Equivalent Work Year Staffing Additive</th>
<th>Total Equivalent Work Year Allocated to Powerplant</th>
<th>Total Equivalent Staffing Work Year per Generating Unit</th>
<th>Total Equivalent Work Year Staffing per Megawatt</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>0.02</td>
<td>0.00</td>
<td>0.02</td>
<td>0.03</td>
<td>0.03</td>
<td>0.00</td>
</tr>
<tr>
<td>Operation</td>
<td>0.28</td>
<td>0.03</td>
<td>0.00</td>
<td>0.31</td>
<td>0.31</td>
<td>0.01</td>
</tr>
<tr>
<td>Maintenance</td>
<td>1.83</td>
<td>0.21</td>
<td>0.00</td>
<td>2.04</td>
<td>2.04</td>
<td>0.05</td>
</tr>
<tr>
<td>Total Staffing</td>
<td>2.13</td>
<td>0.24</td>
<td>0.02</td>
<td>2.38</td>
<td>2.38</td>
<td>0.06</td>
</tr>
</tbody>
</table>

### Pole Hill Equivalent Work Year per Unit

**Pole Hill Equivalent Work Year per Unit 2007**

- **General**: 1%
- **Operation**: 13%
- **Maintenance**: 86%

### Pole Hill O&M Equivalent Work Years per Unit

**Pole Hill O&M Equivalent Work Years per MW**

- **1998**: 0.04
- **2000**: 0.05
- **2002**: 0.06
- **2004**: 0.07
- **2006**: 0.08

### Pole Hill O&M Equivalent Work Years per Unit 2007

- **General**: 1%
- **Operation**: 13%
- **Maintenance**: 86%
Pole Hill Powerplant

Benchmark 7
Plant Scheduled Outage Factor

Pole Hill
Scheduled Outage Factor

Fiscal Years

Unit Starts

Pole Hill
Average Starts per Unit

Fiscal Years
### Benchmark Data Comparison

<table>
<thead>
<tr>
<th>Fiscal Year 2007</th>
<th>Pole Hill Powerplant</th>
<th>Reclamation Average 30-100 MW Group</th>
<th>Total Reclamation Average</th>
<th>Industry Average</th>
<th>Best Performers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholesale Firm Rate Mills/kWh</td>
<td>23.9</td>
<td>Not Applicable</td>
<td>*22.45</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Production Cost as Percentage of Wholesale Firm Rate</td>
<td>1.13%</td>
<td>Not Applicable</td>
<td>12.1%</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>O&amp;M Cost $/MWh</td>
<td>2.71</td>
<td>7.85</td>
<td>2.76</td>
<td>***54.63</td>
<td>1.00</td>
</tr>
<tr>
<td>O&amp;M Costs $/MW</td>
<td>13,037</td>
<td>24,132</td>
<td>7,847</td>
<td>***30,336</td>
<td>2,897</td>
</tr>
<tr>
<td>O&amp;M Equiv Work Year per MW</td>
<td>0.06</td>
<td>0.10</td>
<td>0.03</td>
<td>Not Available</td>
<td>0.00</td>
</tr>
<tr>
<td>Availability Factor</td>
<td>81.3</td>
<td>81.3</td>
<td>82.3</td>
<td>**88.64</td>
<td>98.5</td>
</tr>
<tr>
<td>Forced Outage Factor</td>
<td>0.2</td>
<td>0.2</td>
<td>2.6</td>
<td>**2.61</td>
<td>0.0</td>
</tr>
<tr>
<td>Scheduled Outage Factor</td>
<td>18.5</td>
<td>18.5</td>
<td>15.1</td>
<td>**8.74</td>
<td>0.0</td>
</tr>
</tbody>
</table>

*Weighted by Net Generation

**2006 NERC Average

***Energy Information Administration Data