Big Thompson Powerplant
Colorado-Big Thompson Project

Ancillary Services

<table>
<thead>
<tr>
<th>Big Thompson 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>Big Thompson 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>
Big Thompson Powerplant
Seasonal

Generation

Big Thompson
Fiscal Year Net Generation

Big Thompson
Monthly Net Generation

Big Thompson
Water Supply
Prime Laboratory Benchmarks

Benchmark 1
Wholesale Firm Rate

Benchmark 2
Reclamation’s Production Costs as Percentage of Wholesale Firm Rate
Benchmark 3
Production Costs

Big Thompson Powerplant

Big Thompson Operation Costs

Fiscal Year 2007

- Payroll: 38%
- Benefits: 8%
- Utilities: 20%
- Other: 11%
- Supplies: 1%
- Admin: 22%

Big Thompson Operation Costs

Fiscal Year 1998 - 2006

Big Thompson Maintenance Costs

Fiscal Year 2007

- Payroll: 45%
- Benefits: 9%
- Travel: 4%
- Other: 10%
- Supplies: 5%
- Admin: 27%

Big Thompson Maintenance Costs

Fiscal Year 1998 - 2006

Big Thompson Operation and Maintenance Costs

Fiscal Year 2007

- Operation: 89%
- Maintenance: 11%

Big Thompson Operation and Maintenance Costs

Fiscal Year 1998 - 2006

- Operation
- Maintenance
### Big Thompson 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>0.01</td>
<td>0.00</td>
<td>0.02</td>
<td>0.03</td>
<td>0.03</td>
<td>0.01</td>
</tr>
<tr>
<td>Operation</td>
<td>0.15</td>
<td>0.02</td>
<td>0.00</td>
<td>0.17</td>
<td>0.17</td>
<td>0.04</td>
</tr>
<tr>
<td>Maintenance</td>
<td>1.25</td>
<td>0.14</td>
<td>0.00</td>
<td>1.40</td>
<td>1.40</td>
<td>0.31</td>
</tr>
<tr>
<td>Total Staffing</td>
<td>1.41</td>
<td>0.16</td>
<td>0.02</td>
<td>1.59</td>
<td>1.59</td>
<td>0.35</td>
</tr>
</tbody>
</table>

### Big Thompson Equivalent Work Year per Unit

- **Equiv Wk Yr per Unit**

### Big Thompson O&M Equivalent Work Years per Unit

- **O&M Eq uiv Wo rk Yrs**

### Big Thompson O&M Equivalent Work Years per MW

- **O&M Eq uiv Work Yrs**
**Benchmark 5**
*Plant Availability Factor*

**Big Thompson**
*Availability Factor*

**Benchmark 6**
*Plant Forced Outage Factor*

**Big Thompson**
*Forced Outage Factor*
Benchmark 7
Plant Scheduled Outage Factor

Big Thompson
Scheduled Outage Factor

Unit Starts

Big Thompson
Average Starts per Unit
## Benchmark Data Comparison

<table>
<thead>
<tr>
<th>Fiscal Year 2007</th>
<th>Big Thompson</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><strong>22.45</strong></td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Production Cost as Percentage of Wholesale Firm Rate</td>
<td>0.62%</td>
<td>12.1%</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>O&amp;M Cost $/MWh</td>
<td>153.57</td>
<td>2.76</td>
<td>Not Applicable</td>
<td>1.00</td>
</tr>
<tr>
<td>O&amp;M Costs $/MW</td>
<td>60,739</td>
<td>7,847</td>
<td>Not Applicable</td>
<td>2,897</td>
</tr>
<tr>
<td>O&amp;M Equiv Work Year per MW</td>
<td>0.35</td>
<td>0.03</td>
<td>Not Available</td>
<td>0.0</td>
</tr>
<tr>
<td>Availability Factor</td>
<td>32.5</td>
<td>82.3</td>
<td><strong>88.64</strong></td>
<td>98.5</td>
</tr>
<tr>
<td>Forced Outage Factor</td>
<td>0.3</td>
<td>2.6</td>
<td><strong>2.61</strong></td>
<td>0.0</td>
</tr>
<tr>
<td>Scheduled Outage Factor</td>
<td>67.3</td>
<td>15.1</td>
<td><strong>8.74</strong></td>
<td>0.0</td>
</tr>
</tbody>
</table>

*Weighted by Net Generation

**2006 NERC Average