Northwest Electric Market

This map was created using Platts PowerMap.
Overview

Geography

States covered: All or most of Washington, Oregon, Idaho, Utah, Nevada, Montana, Wyoming and part of California.

Reliability region: Northwest Power Pool Area (NWPP) sub-region of the Western Electric Coordinating Council (WECC).

Balancing authorities: See page 5.

Hubs: California-Oregon Border (COB), Mid-Columbia (Mid-C)

RTO/ISO

None

Generation/Supply

Marginal fuel type: Hydro and natural gas

Generating capacity (winter 2005): 57,120 MW

Capacity reserve (winter 2005): 16,822 MW

Reserve margin (winter 2005): 42%

When taken together, hydro, fossil fuels, nuclear energy, and renewable resources, were adequate to provide electricity in excess of in-region needs.
**Demand**

All time peak demand (2005): 40,298 MW

Peak demand growth: 1.5% (2004–2005)

**Prices**

Index Annual Average of Daily Bilateral Day Ahead On-Peak Prices:

Platts California-Oregon Border (COB) Hub:

- 2004: $49.02/MWh
- 2005: $66.95/MWh
- 2006: $55.58/MWh
- 2007: $62.14/MWh

Platts Mid-Columbia (Mid-C) Hub:

- 2004: $44.50/MWh
- 2005: $62.95/MWh
- 2006: $50.18/MWh
- 2007: $56.57/MWh

Physical and financial electricity products are traded through brokers using the Mid-Columbia (Mid-C) and California-Oregon Border (COB) hubs as pricing points.

**Interconnections/Seams**

The region relies on hydroelectric production for approximately two thirds of its electricity needs. In most years, Northwest sells surplus power into California and the Southwest.
## Balancing Authorities in the Northwest Electric Market

<table>
<thead>
<tr>
<th>Balancing Authority</th>
<th>NERC Acronym</th>
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<tbody>
<tr>
<td>Alberta Electric System Operator</td>
<td>AESO</td>
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<tr>
<td>Avista Corp.</td>
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<td>Bonneville Power Administration</td>
<td>BPAT</td>
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<td>British Columbia Transmission Corporation</td>
<td>BCHA</td>
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<td>Idaho Power Company</td>
<td>IPCO</td>
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<td>NorthWestern Energy</td>
<td>NWMT</td>
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<td>PacifiCorp-East</td>
<td>PACE</td>
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<td>PacifiCorp-West</td>
<td>PACW</td>
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<td>PGE</td>
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<td>PUD No. 1 of Douglas County</td>
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<td>PSEI</td>
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<td>Tacoma Power</td>
<td>TPWR</td>
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<td>Western Area Power Administration - Upper Great Plains West</td>
<td>WAUW</td>
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</table>

Source: NERC (www.tsin.com)
Northwestern Daily Bilateral Day-Ahead On-Peak Prices

Source: Derived from Platts data.

Updated: July 08, 2011
Western Daily Bilateral Day-Ahead On-Peak Prices

Source: Derived from Platts data.

Updated: July 08, 2011
Implied Heat Rates at Western Trading Points Weekly Averages

Source: Derived from Platts on-peak electric and natural gas price data.

Updated: July 08, 2011
Northwestern Daily Bilateral Day-Ahead On-Peak Prices

Source: Derived from Platts data.

Updated: July 08, 2011
Western Daily Bilateral Day-Ahead On-Peak Prices

Source: Derived from Platts data.

Updated: July 08, 2011
Weekly Electric Generation Output and Temperatures
Rocky Mountains Region

Source: Derived from EEI and NOAA data.
Weekly Electric Generation Output and Temperatures
Pacific Northwest Region

Source: Derived from EEI and NOAA data.

Updated: July 08, 2011
Stream Flows at the Dalles Dam

Source: Derived from USACE data.
Note: Trend lines are 7-day moving averages.

Updated: July 08, 2011
Pacific Northwest Hydroelectric Production

Source: Derived from USACE data reflecting the output of the 24 largest facilities.

Note: Trend lines are 7-day moving averages.

Updated: July 27, 2011