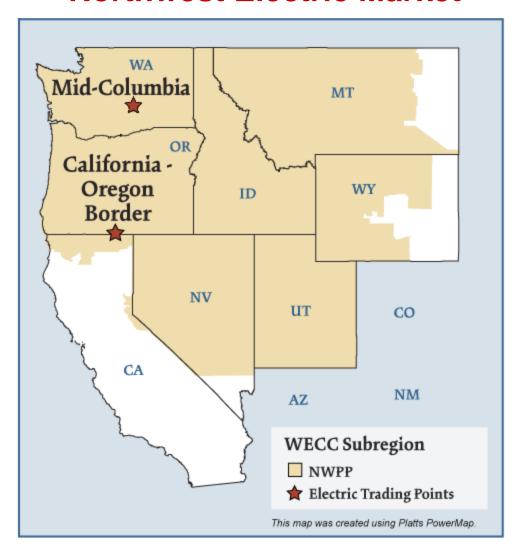
Northwest Electric Market



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.

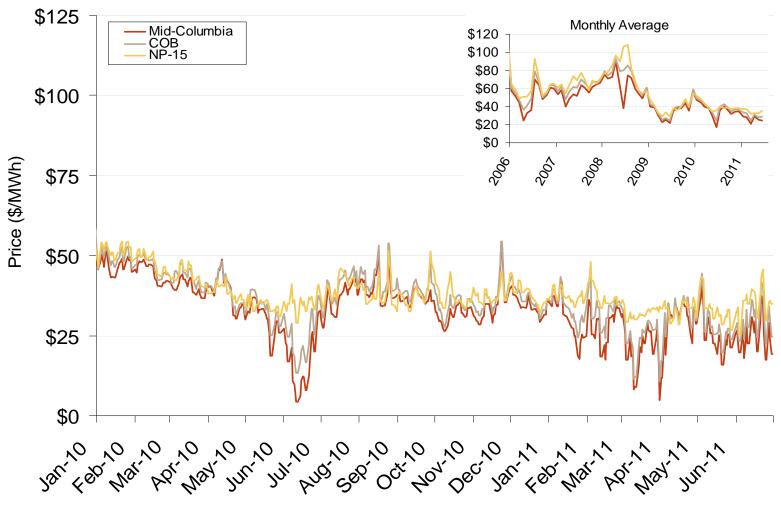
Interconnections/Seams

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.

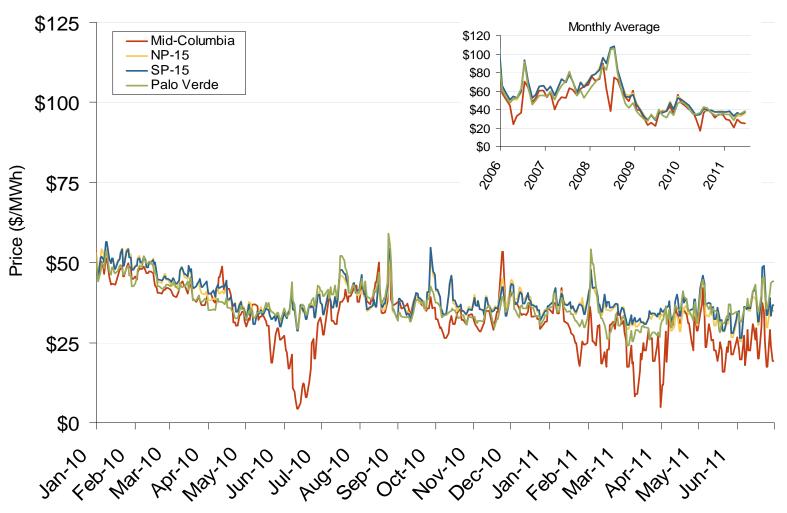
Balancing Authorities in the Northwest Electric Market

Balancing Authority	NERC Acronym
Alberta Electric System Operator	AESO
Avista Corp.	AVA
Bonneville Power Administration	BPAT
British Columbia Transmission Corporation	BCHA
Idaho Power Company	IPCO
NorthWestern Energy	NWMT
PacifiCorp-East	PACE
PacifiCorp-West	PACW
Portland General Electric Company	PGE
PUD No. 1 of Chelan County	CHPD
PUD No. 1 of Douglas County	DOPD
PUD No. 2 of Grant County	GCPD
Puget Sound Energy	PSEI
Seattle Department of Lighting	SCL
Sierra Pacific Power Company	SPPC
Tacoma Power	TPWR
Western Area Power Administration - Upper Great Plains West	WAUW

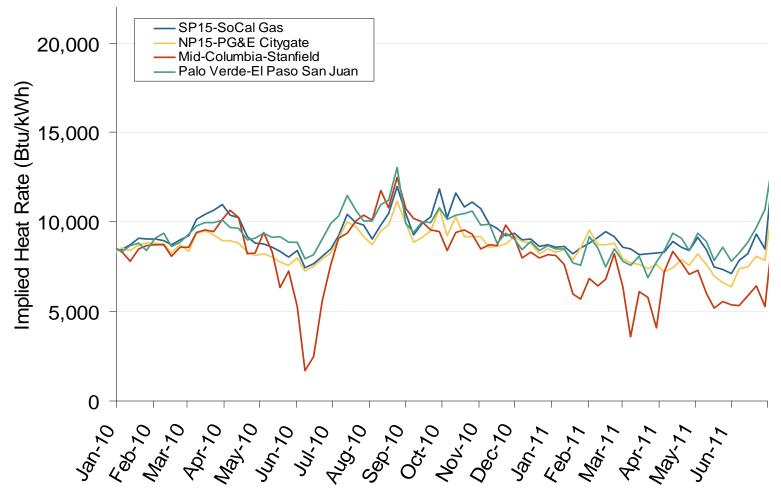
Northwestern Daily Bilateral Day-Ahead On-Peak Prices



Western Daily Bilateral Day-Ahead On-Peak Prices

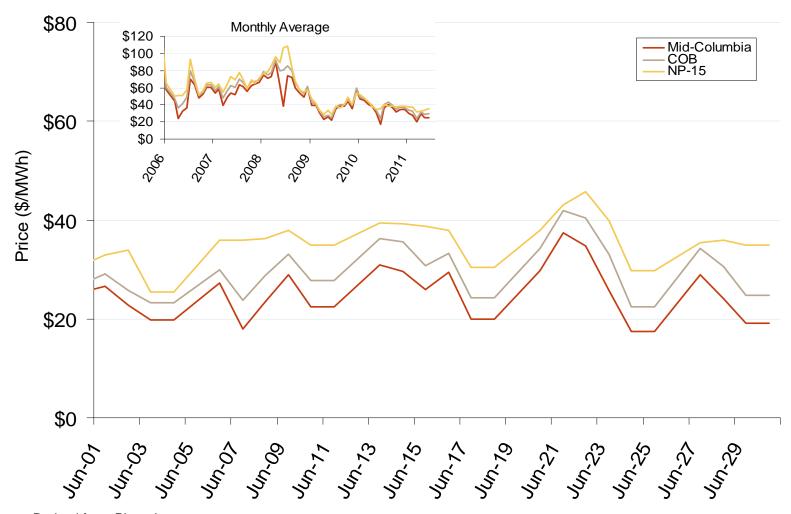


Implied Heat Rates at Western Trading Points Weekly Averages

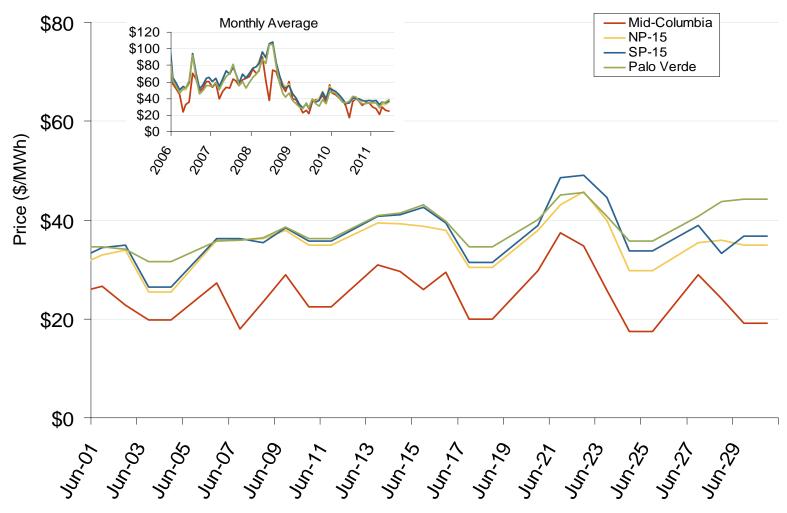


Source: Derived from *Platts* on-peak electric and natural gas price data.

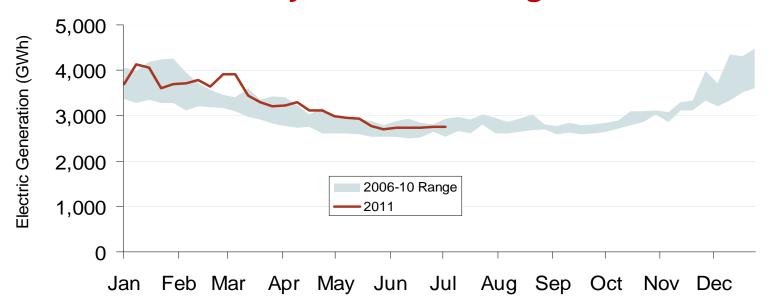
Northwestern Daily Bilateral Day-Ahead On-Peak Prices

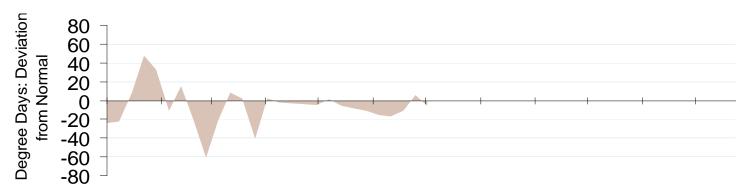


Western Daily Bilateral Day-Ahead On-Peak Prices



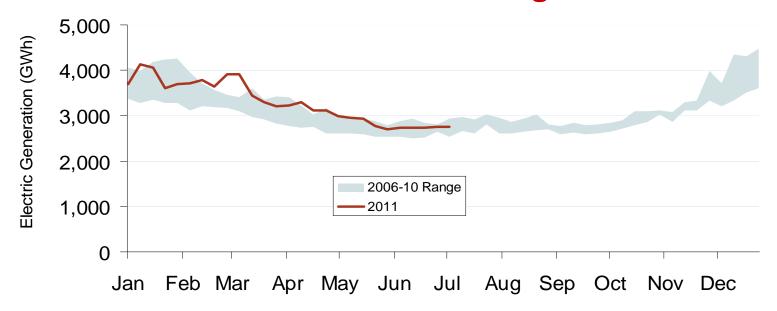
Weekly Electric Generation Output and Temperatures Rocky Mountains Region

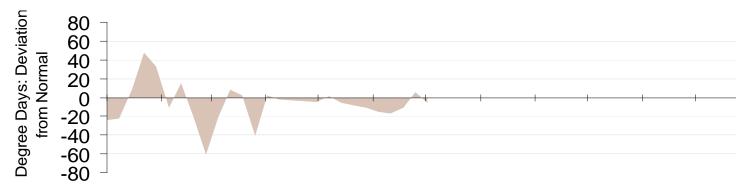




Source: Derived from EEI and NOAA data.

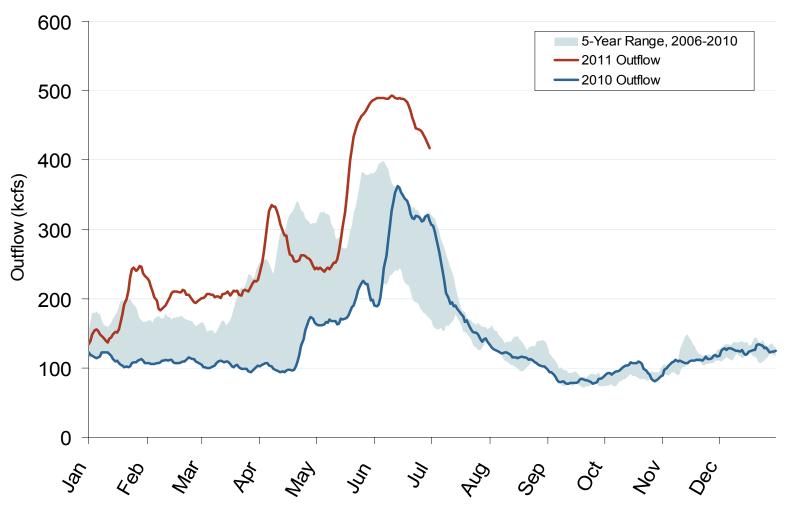
Weekly Electric Generation Output and Temperatures Pacific Northwest Region





Source: Derived from EEI and NOAA data.

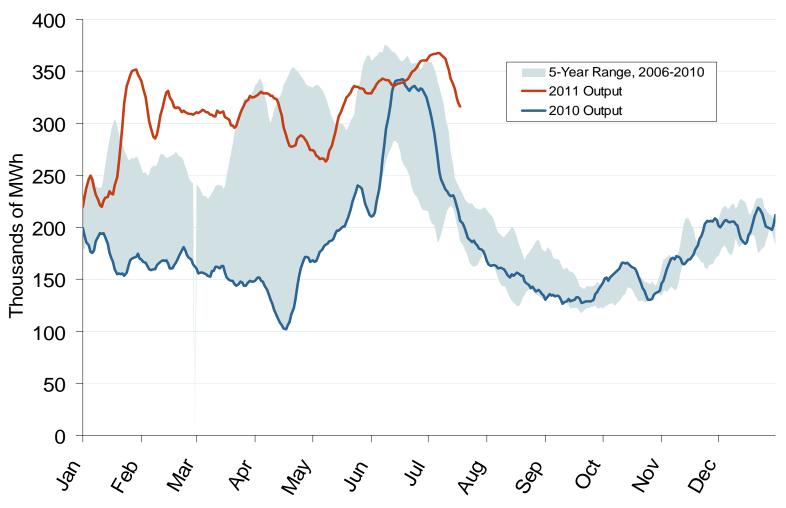
Stream Flows at the Dalles Dam



Source: Derived from USACE data.

Note: Trend lines are 7-day moving averages.

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.