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January 6, 2010

MEMORANDUM

TO: Power Committee

FROM: Jeff King, Senior Resource Analyst

SUBJECT: Revised power price forecast for the final Sixth Power Plan

A number of factors affecting the forecast of wholesale power prices have changed since the preparation of the forecast used for the draft plan. These factors include a revised discount rate, a revised natural gas price forecast, a modified forecast of CO₂ allowance price, updated information regarding power plant outage rates, a revised forecast of renewables development to meet the renewable portfolio standards of the western states, revised demand forecasts for the western states, an updated inventory of power generation facilities in the West, newly available hourly production information for wind and solar resources and an expanded set of new generating resource options.

The combined effect of these factors is to reduce the 20-year levelized wholesale electricity price forecast from \$62/MWh in the draft plan to \$56/MWh.

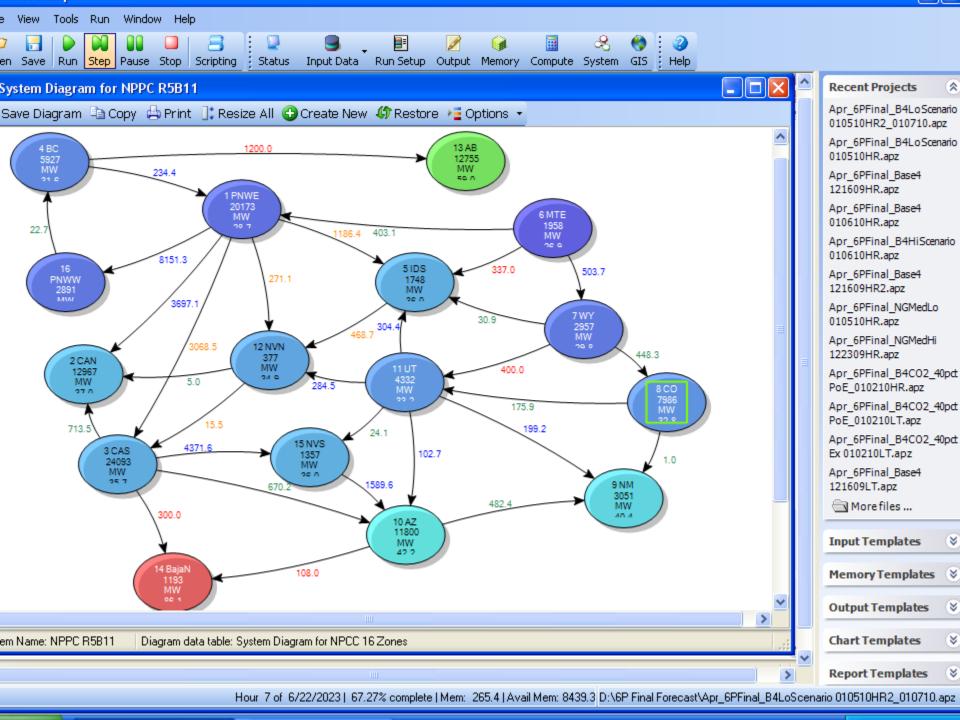
Staff will discuss the revised forecast at the January Power Committee meeting. Presentation materials will be provided later this week.

503-222-5161 800-452-5161 Fax: 503-820-2370

Final Wholesale Electricity Price Forecast

Jeff King Power Committee January 12, 2010



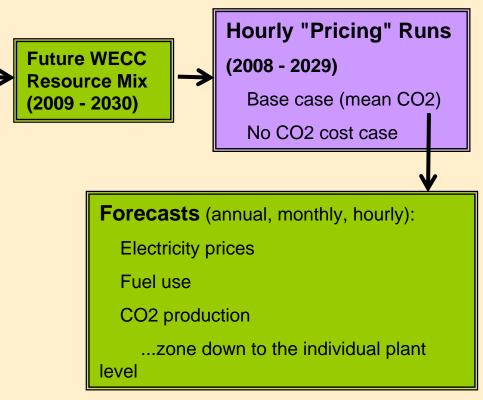


Developing the electricity price forecast

Capacity Expansion "Long-term" Runs

(2008 - 2035)

- 1. Base case (mean CO2, med NG)
- 2. Low CO2 price sensitivity
- 3. High CO2 price sensitivity
- 4. Medium-Low NG price
- 5. Medium-High NG price
- 6. Low-bound scenario (2 + 4)
- 7. High-bound scenario (3 + 5)



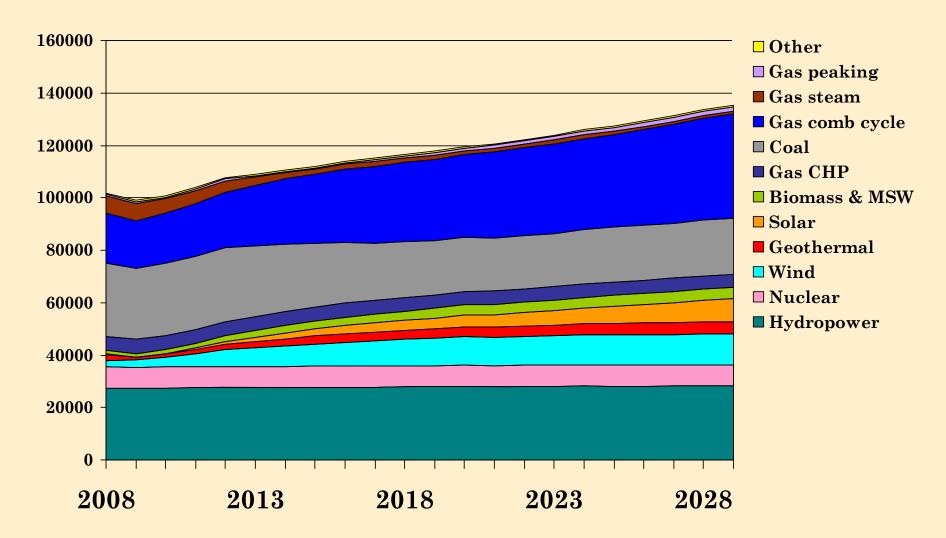


Updates to the draft price forecast (Feb 2009)

- Updated version of AURORA^{xmp}
- Updated forecast of general inflation
- Final discount rate and corresponding project financing assumptions
- Final CO2 allowance price forecast
- Updated plant outage assumptions
- Updated inventory of WECC projects
- Final natural gas price forecast
- Updated PNW & other WECC zonal loads
- Final RPS resource development forecast
- Hourly wind and solar output using representative values
- Expanded selection of new resource options

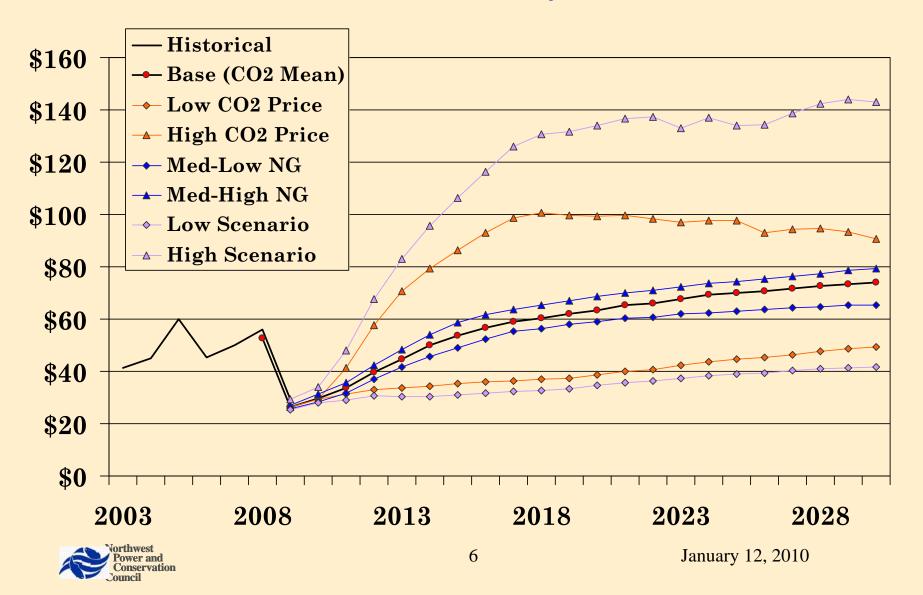


WECC Resource Output (Mean CO2 case)

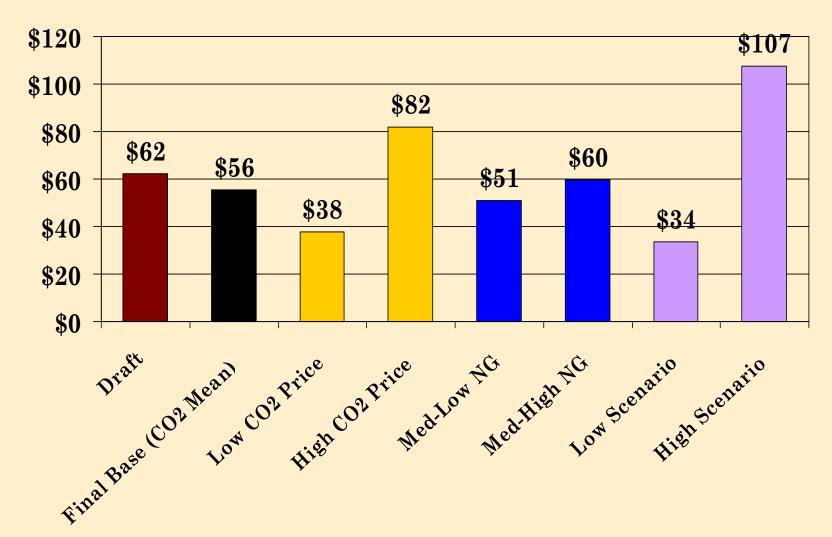




Mid-Columbia Electricity Price Forecast

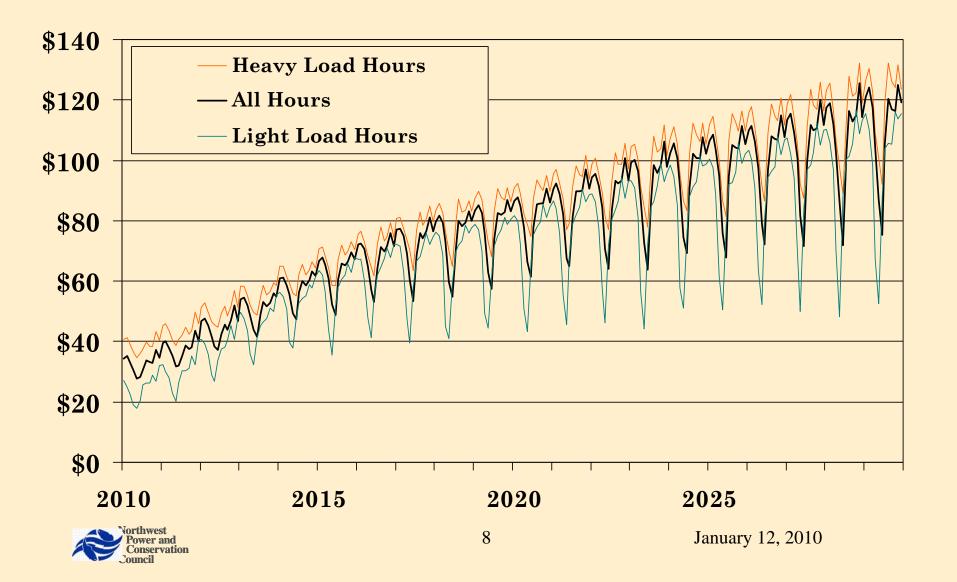


Levelized Prices 2010-29

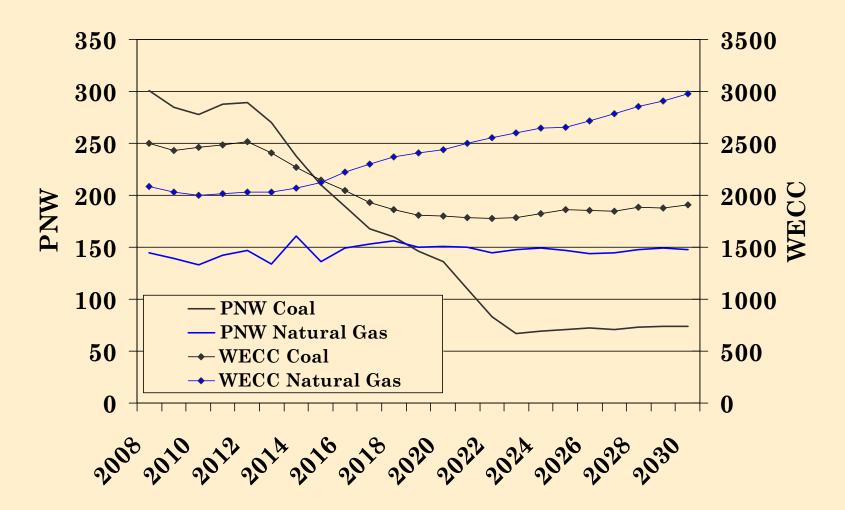




Base Forecast: Monthly Averages



Fuel Consumption (TBtu)





CO2 Production (MMtCO2/yr)

