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August 29, 2012

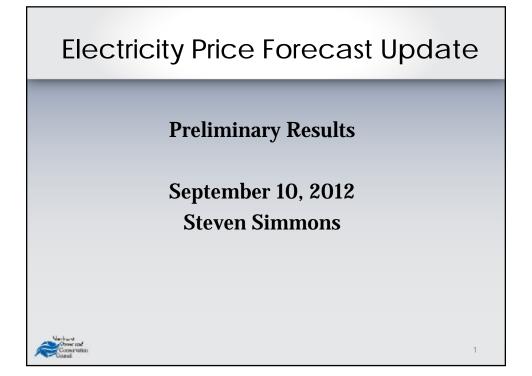
### MEMORANDUM

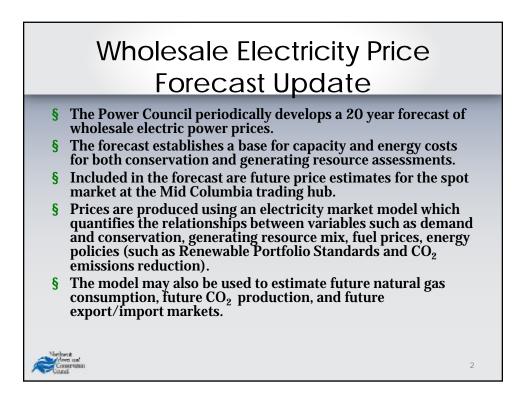
**TO:** Power Committee

**FROM:** Steven Simmons

**SUBJECT:** Preliminary Results of the Electricity Price Forecast Update

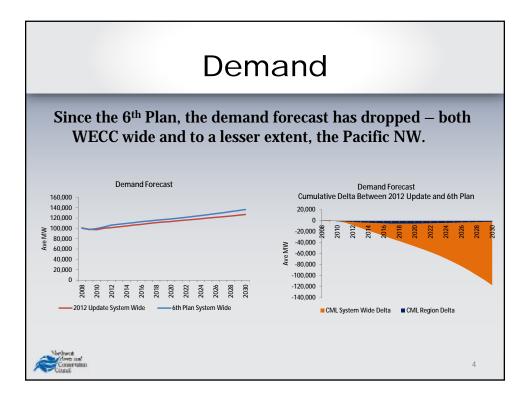
As part of the Mid Term Assessment, staff is preparing a long term wholesale electricity market price forecast. A summary of the work to date will be presented, including a briefing of the most important factors which have changed since the  $6^{th}$  Plan price forecast was published. The preliminary modeling and forecasting results will be shown, along with a summary of remaining work to be completed in order to finalize the forecast.

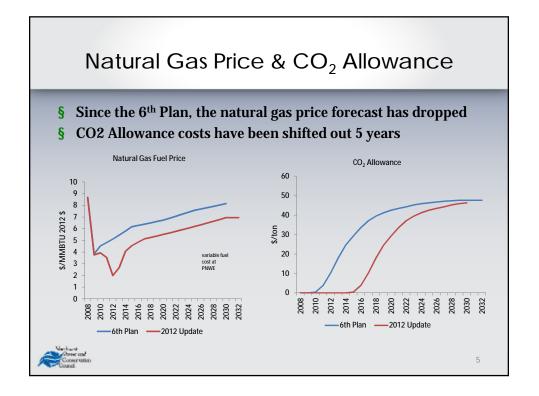


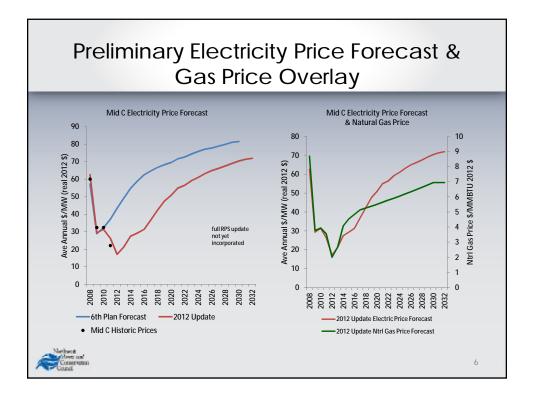


# **Electricity Price Forecast Update**

- § The 6<sup>th</sup> Plan Price Forecast was published in early 2010
- **§** Updates to the model inputs include:
  - Demand Forecast
  - Natural Gas Price Forecast
  - A comprehensive update of the existing resources data base
  - Planned retirements such as Boardman (2020), Centralia (2025), Carbon (2014), CA Once Through Cooling plants, and Alberta Coal units
  - New RPS estimates
  - Deferred CO2 cost assumptions (moved out 5 years)
- $\$  WECC wide market modeled using AURORA  $^{xmp^{(0)}}$  hourly dispatch model
- § Hourly prices based on variable cost of the most expensive generating plant needed to meet load







# Summary of Preliminary Results

- § The demand forecast dropped from the 6<sup>th</sup> Plan
- § Natural gas price forecast dropped from the 6<sup>th</sup> Plan
- § More RPS developed has occurred front loaded, particularly in Oregon and Washington

#### <u>The result is</u>:

The forecast for Wholesale Electric Prices is lower, especially in the near to mid term.

#### Next up:

- § Full incorporation of RPS resource update
- **§** State Carbon Regulation modeling
- § Expect to look at natural gas consumption, CO<sub>2</sub> production, export/import results, runs with & without system wide CO<sub>2</sub> allowance cost

Verturd Orser and Conservation