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March 11, 2009

## MEMORANDUM

**TO:** Power Committee

FROM: John Fazio, Senior Power Systems Analyst

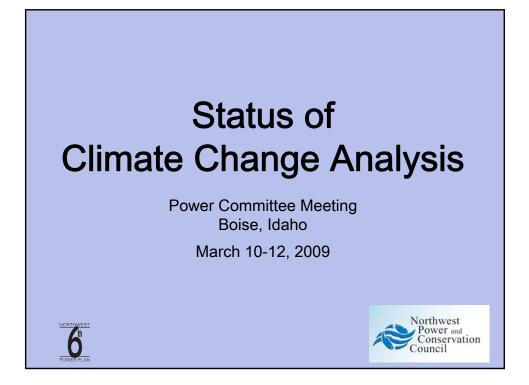
SUBJECT: Status Report of Climate Change Analysis

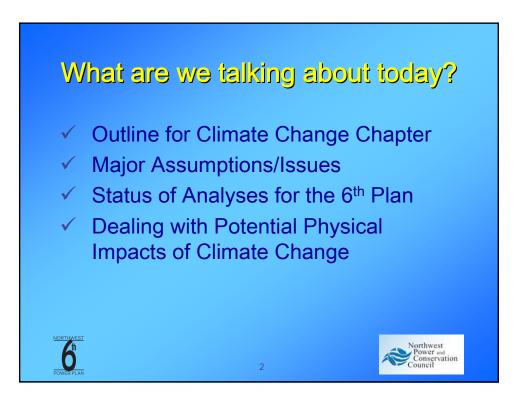
The discussion at today's power committee meeting will focus on several topics:

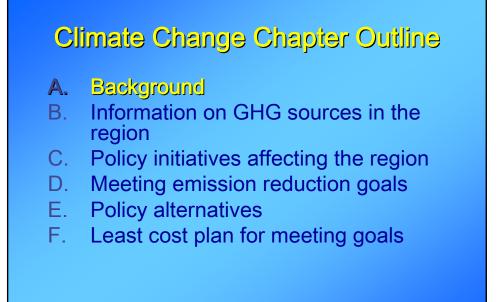
- 1. A draft outline for the Sixth Power Plan's Chapter on climate change
- 2. A short review of major assumptions for CO<sub>2</sub> prices and tax credits
- 3. A list of the power committee's issues and questions
- 4. A proposed strategy for addressing those issues and the status of analyses
- 5. A strategy for dealing with potential physical impacts of climate change

Carbon allowance prices, tax credits and renewable energy credits present major uncertainties in the development of the Sixth Power Plan. They affect the cost of resources, electricity prices, electricity demand and levels of cost-effective conservation. For the plan, assumptions regarding expected average  $CO_2$  prices over time are needed to forecast future electricity prices. A wide range of  $CO_2$  prices over time along with a probability distribution for that range is required for the portfolio model in order to develop viable resource strategies. At last month's meeting, the committee was presented a set of proposed assumptions that will be used for these analyses.

Properly addressing climate change issues, impacts and mitigation strategies must be done in parallel with the development of the resource strategy in the Sixth Power Plan. As progress is made, updates to the analyses and results will periodically be brought to this committee for review. For today's discussion, staff is asking the committee for guidance on the outline of the chapter, and on the proposed strategy for dealing with physical impacts of climate change.

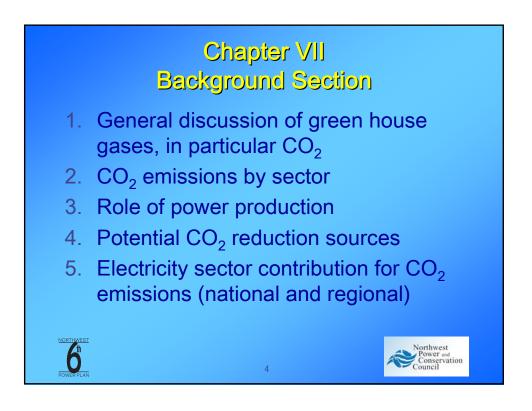






Northwest Power and Conservation

6th



	5 <sup>th</sup> Plan	6 <sup>th</sup> Plan
Average CO <sub>2</sub> Price	\$7.85/ton	\$47.72/ton
High End CO <sub>2</sub> Price	\$30/ton	\$100/ton
Futures with CO <sub>2</sub> Price	67%	95%
PTC Range	\$0 to \$10	Under Review
Average REC	\$4	Drop from analysis

