W. Bill Booth Chair Idaho

James A. Yost Idaho

Tom Karier Washington

Dick Wallace Washington



Bruce A. Measure Vice-Chair Montana

Rhonda Whiting Montana

Melinda S. Eden Oregon

Joan M. Dukes Oregon

January 06, 2009

MEMORANDUM

- **TO:** Power Committee
- FROM: Michael Schilmoeller Power Planning Analyst
- **SUBJECT:** Regional Portfolio Model Representation of Uncertainty in Power Plant Construction Cost, Regional Retail Electricity Requirements, and Natural Gas and Wholesale Electricity Prices

The Regional Portfolio Model evaluates resource plans against a host of distinct scenarios for generating plant construction costs, load requirements, and wholesale market electricity and natural gas prices. This presentation presents staff recommendations for such scenarios, which we will refer to as "futures." This presentation does not call for any Power Committee decision. Staff, however, will seek the guidance of Committee members regarding the representations of these sources of uncertainties.

For each source of uncertainty, the presentation will review the base case and any bounding forecasts. It will then present as many of the 750 futures as the Committee wishes to study. It summarizes the futures, with distributions of each future's values across the study period.

Construction cost uncertainty is new to the Council's planning process in the Sixth Power Plan. We will describe in more detail some of the thinking that contributed to our characterization of uncertainty among alternative generation technologies.



Construction Cost Uncertainty

Michael Schilmoeller Power Committee Thursday January 8, 2009





































