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January 10, 2012

MEMORANDUM

TO: Power Committee

FROM: Massoud Jourabchi

SUBJECT: Report on Action Item ANLYS-9: Development of the supply side of the demand forecasting system

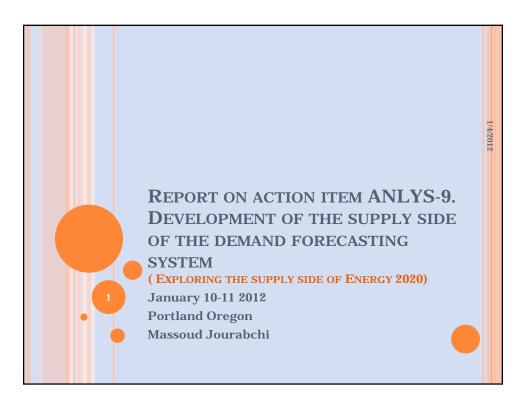
One of the action items of the Sixth Power Plan was Action Item ANLYS-9, which called for development of the supply side of the demand forecasting system. The goal of this action item is to enhance the Council's ability to evaluate the effects of various policy initiatives in a more cohesive manner and to streamline the analytical tools used in the Council's planning process.

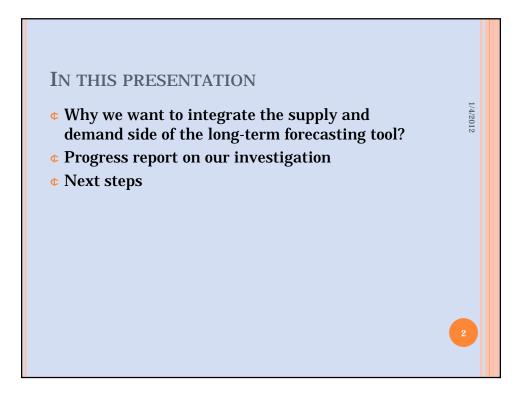
We have prepared a progress report on this action item. We will discuss the reasons behind the integration of the supply and demand modules of the long-term forecasting system and the approach we used in our investigation. We will present an overview of the Council's planning methodology, including the role of wholesale price forecasts and how the supply module of the Energy2020 model can be integrated with the demand forecasting module allowing for a more streamlined modeling process. We will discuss the results of the comparison between price forecasts from the current modeling tool, Aurora, and the Energy2020 model.

Over the next few months, we intend to produce a whitepaper describing the results of our investigation. We plan to make this paper available to outside parties for feedback.

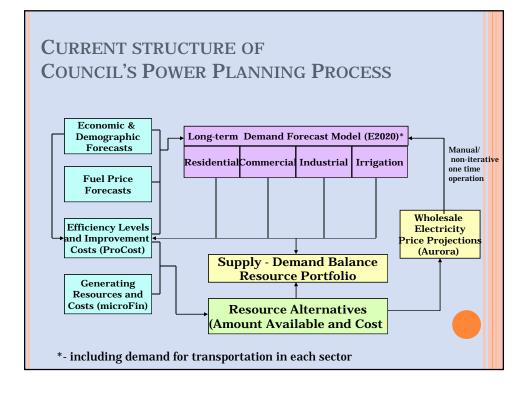
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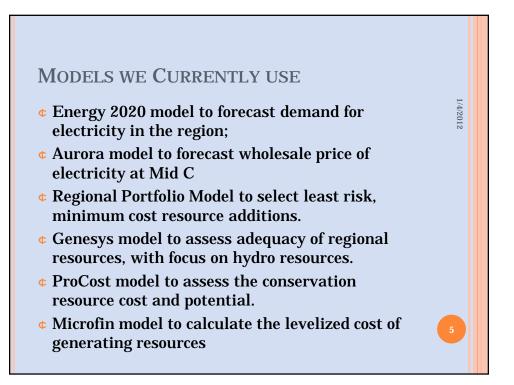
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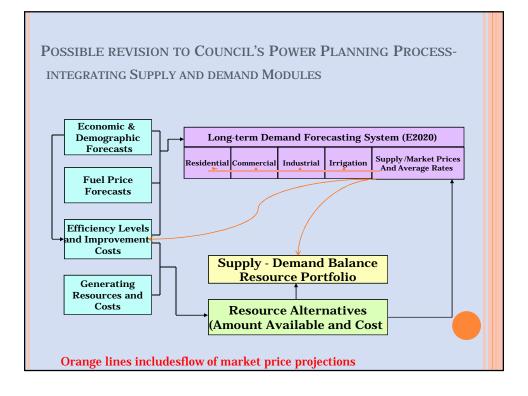


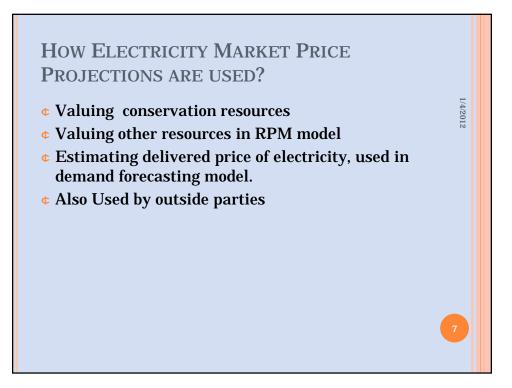


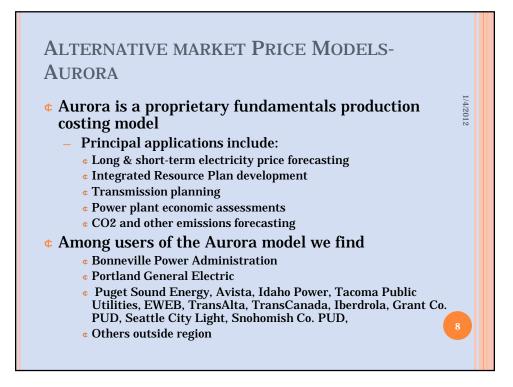


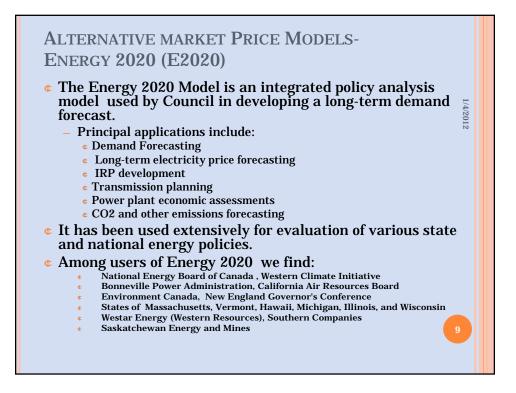


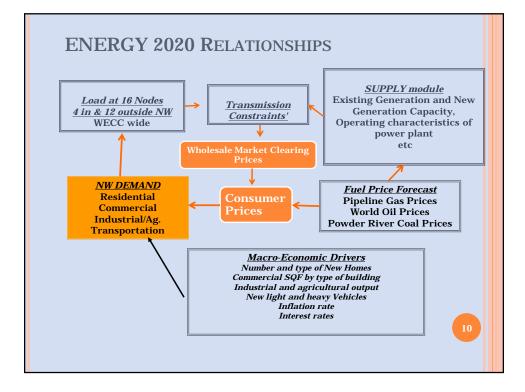


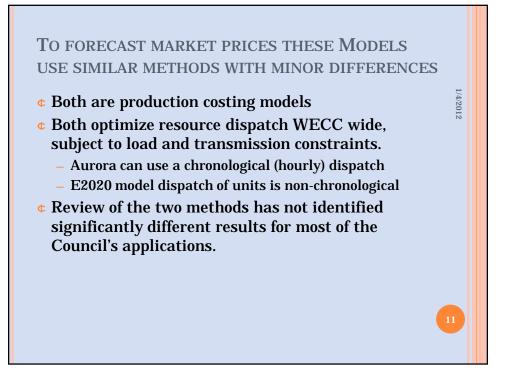


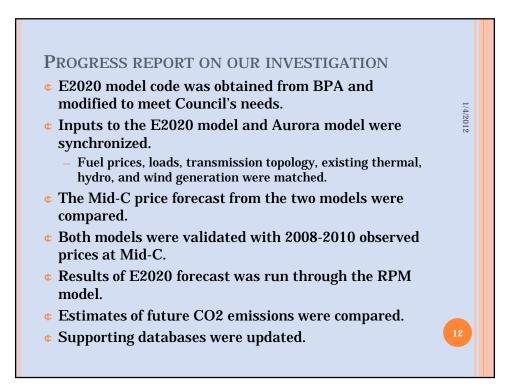


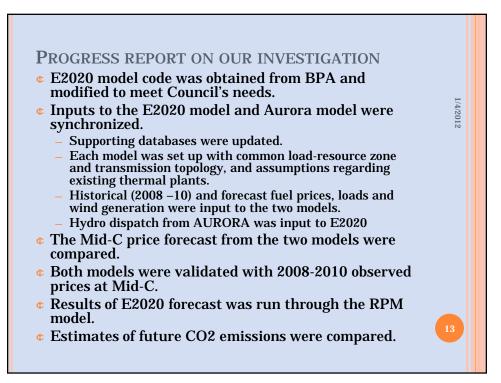


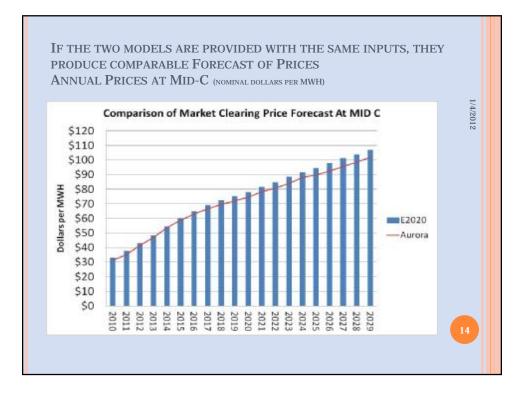


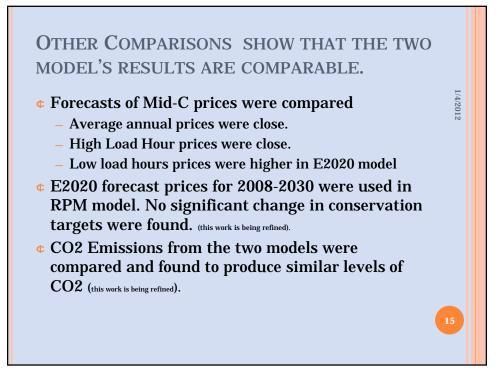


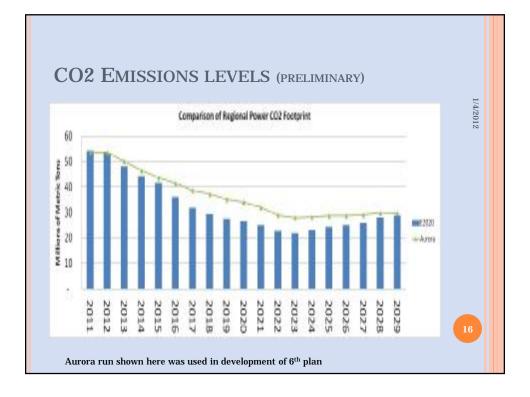


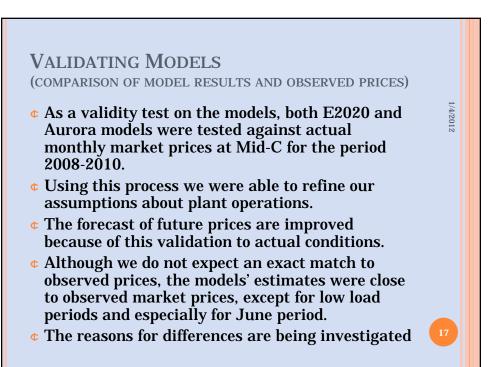


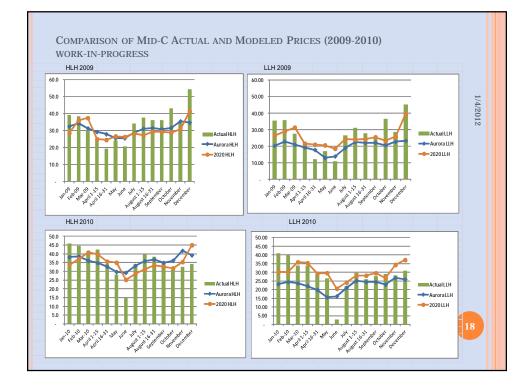








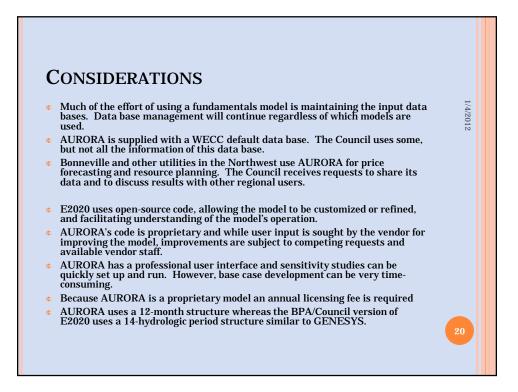




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NEXT STEPS

- Preparing a white paper on our investigation of options for integrating supply and demand modules in our analytics. Seeking input from interested parties in the region
- Presenting our findings to outside parties and advisory committees such as PNUCC, System Analysis Advisory Committee.
- Over the next month or two we will continue refinement to both models inputs, and after the discussions with advisory committees we will decide whether or not E2020 is a suitable alternative to Aurora model.
- We will also evaluate options for maintaining the existing power plant database.



1/4/2012



- As part of the 6th Power Plan Action Items, the mid-plan review, and ongoing refinement of our analytics, we have been investigating options for forecasting the wholesale price of electricity.
- One option is replacing our current model for projecting electricity prices with an integrated supply and demand forecasting system.
- This could improve our analytics and enhance our policy analysis capabilities.
- As a byproduct of our investigations, regardless of which model is selected, the analytical tools for forecasting market clearing price projections have been enhanced greatly.

