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September 1, 2011

MEMORANDUM

TO: Power Committee

FROM: Massoud Jourabchi

SUBJECT: Comparison of Regional Load Forecasts

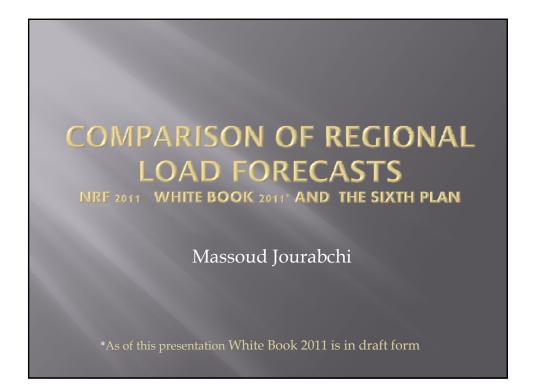
Regional loads for 2010 were estimated at 19,500 MWa, with a winter peak of 28,000 MW and a summer peak of 26,000 MW. Compared to year 2009, regional loads were lower by about 1,100 MWa, winter and summer peaks were lower by 7,000 MW and 2,000 MW respectively. Factors contributing to the downward pressure on loads in 2010 were; warmer winter and cooler summer temperatures and slow economic recovery.

Preliminary data from Energy Administration Information shows that regional energy consumption for the first four months of 2011 increased by about 5% compared to the same period in 2009. The largest increase was in industrial sales, while residential and commercial demands are still depressed.

For 2012-2019, Council staff compared the aggregation of utility forecasts presented in PNUCC's NRF 2011 and Bonneville's draft White Book 2011 (at this writing the 2011 White Book is in draft form) with the Council's Sixth Power Plan forecast and the Council's short-term forecast. Analysis shows almost all the regional forecasts expect small load growth for the next few years, with some load recovery post 2015.

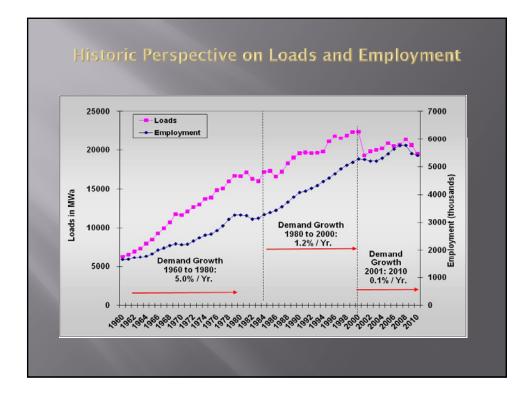
In reviewing the NRF and draft White Book forecasts, it became clear that the conservation methodology and savings are not represented in these forecasts in a consistent manner. By year 2020, NRF analysis includes about 1,700 MWa of conservation and the draft White book considers about 90 MWa of conservation. The Council's Sixth Power Plan conservation targets by 2020 are about 2,900 MWa. Consistent treatment of conservation resources in load forecasts is an issue worth further clarification with respective organizations compiling the NRF and White Book regional forecasts.

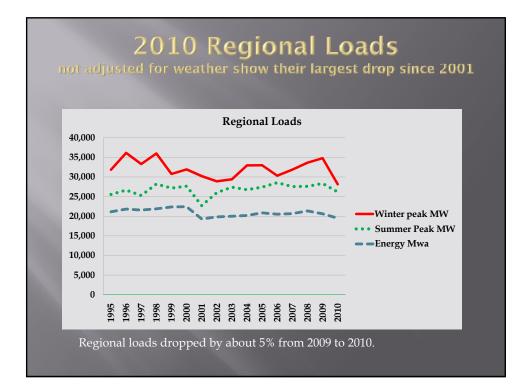
q:\mj\ww\(p-1)comparison of regional load forecasts 2012-2020 cm.docx

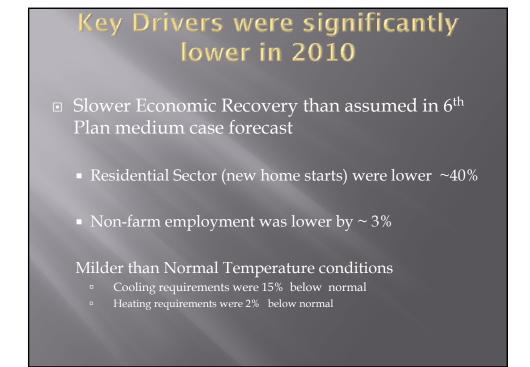


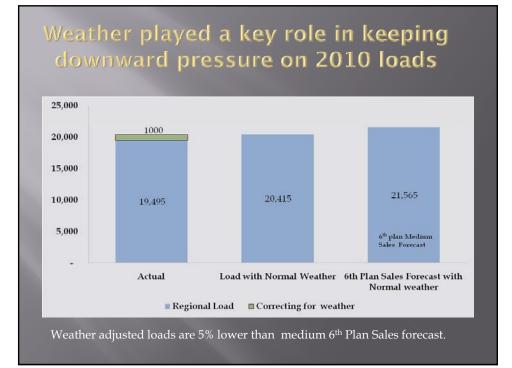
Today's meeting covers

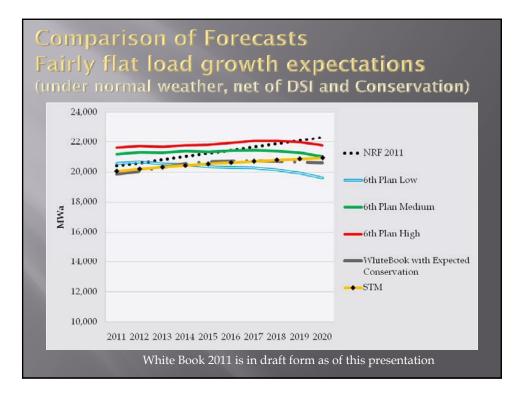
- Comparison of actual and 6th plan loads for 2010.
- Comparison of key drivers of the 6th plan & actual
- □ Comparison of load forecasts 2012-2019

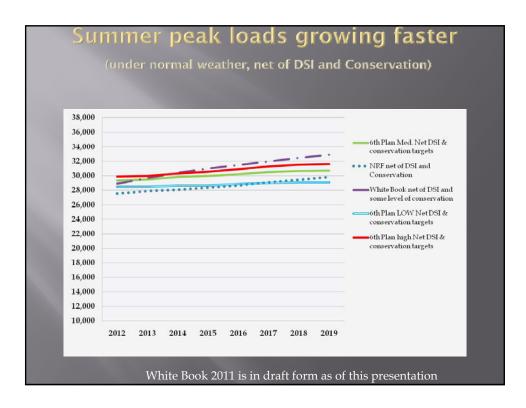


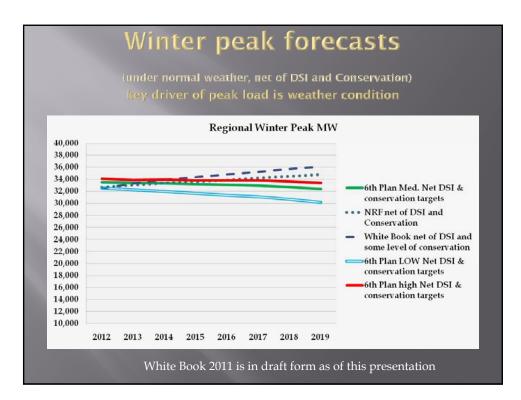


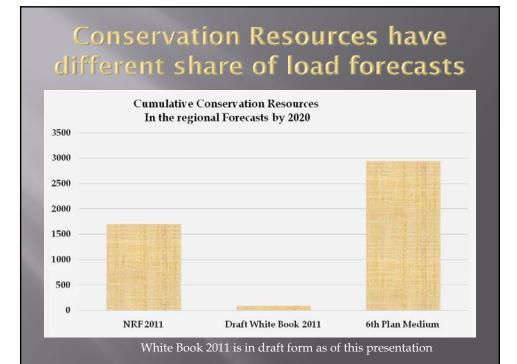














Comparing annual and peak load forecasts on an equal footing is difficult because of differences in treatment of conservation resources:

- Council forecasts loads with and without conservation
 NRF only reports loads net of conservation.
 - Council's 10-year conservation target is between 2,800-3,100 MWa by 2020.
 - NRF reports a 10-year total of about 1700 MWa of demand-side management for 2012-2022 period.
 - Draft White Book reports only 100 MWa of funded programmatic conservation
 - ^a White Book does not include unfunded conservation.

To summarize

- Comparison of 2010 actual loads and 6th plan loads shows that after adjustment for the weather actual loads are close to the 6th plan's low load forecast.
- NRF, draft White book, as well as Council's shortterm forecast expect load growth in the low to medium-low range in the next few years, reflecting continued slow economic recovery.
- Further detail on conservation achievements and targets is needed for a proper comparison between the NRF, White Book, and Council forecasts.

