

Bill Bradbury
Chair
Oregon

Henry Lorenzen
Oregon

W. Bill Booth
Idaho

James A. Yost
Idaho



Jennifer Anders
Vice Chair
Montana

Pat Smith
Montana

Tom Karier
Washington

Phil Rockefeller
Washington

October 29, 2013

MEMORANDUM

TO: Power Committee

FROM: Massoud Jourabchi

SUBJECT: 2019 Regional Load Forecast for use in Resource Adequacy Assessment

As an input to the upcoming regional resource adequacy assessment for 2019, staff has prepared hourly electricity load forecasts for 84 different annual temperature profiles. These temperature profiles reflect actual historical daily temperature conditions during 1928-2012.

The resource adequacy assessment considers variability in temperatures, along with other variabilities such as hydro generation.

At the Power committee meeting, staff will present recent observed regional electricity loads during 2007-2012, and discuss the impact of temperature on loads.

Then the load forecasts for 2019 will be presented, including the range of forecasts for annual energy, as well as winter and summer peaks.

Regional Electricity Load Forecasts For 2019 Resource Adequacy Assessment

Informational Presentation

Massoud Jourabchi
November 5, 2013

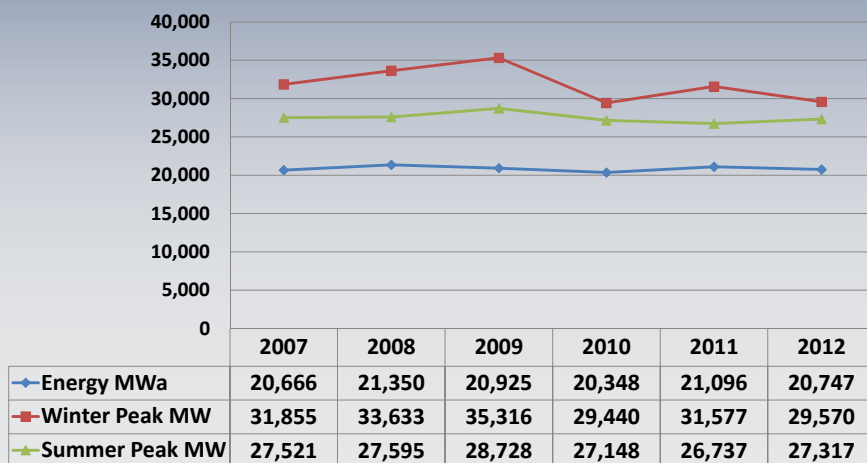


Topics

- Review of loads in recent years 2007-2012
- Impact of temperature on loads
- Load forecasts required for resource adequacy assessment
- Load forecast results for 2019

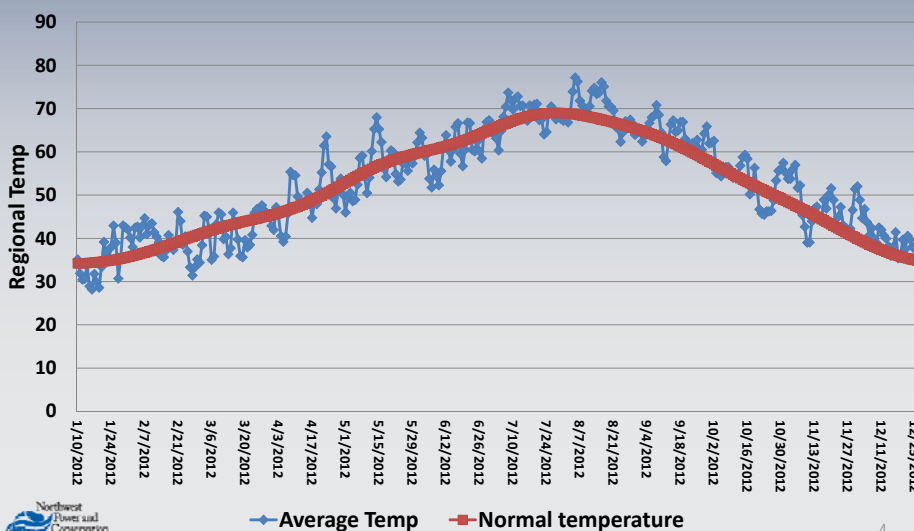


Regional Loads in Recent Years

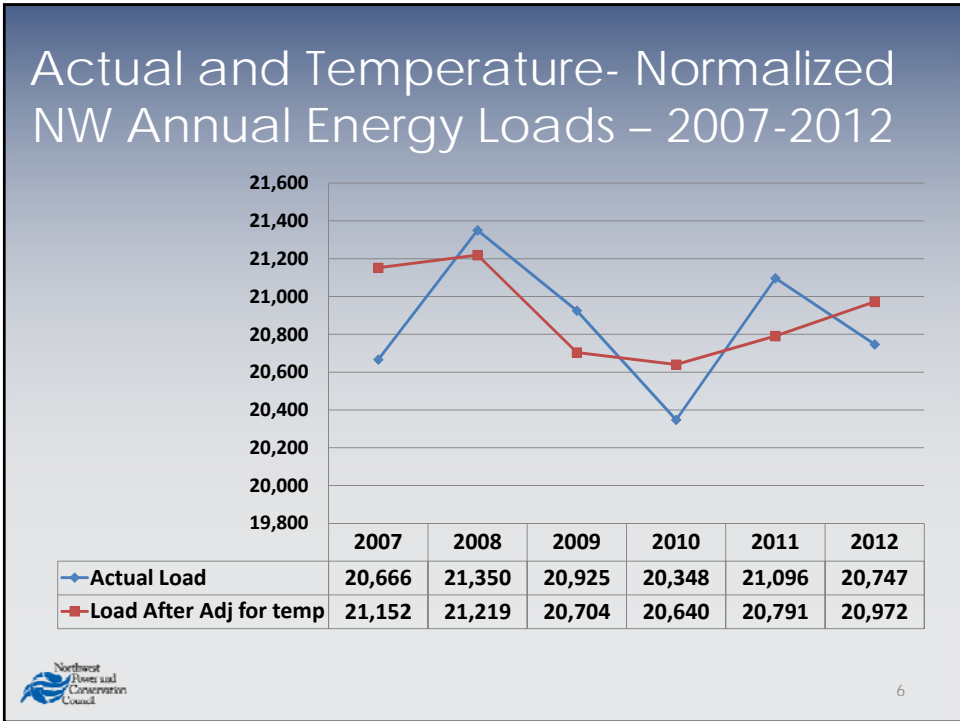
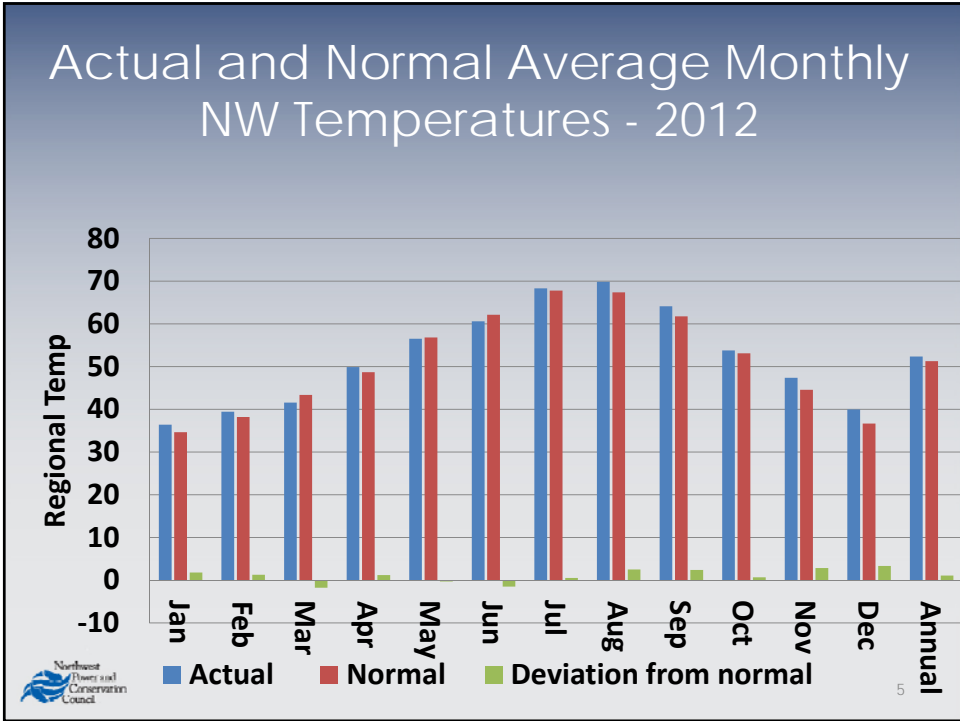


3

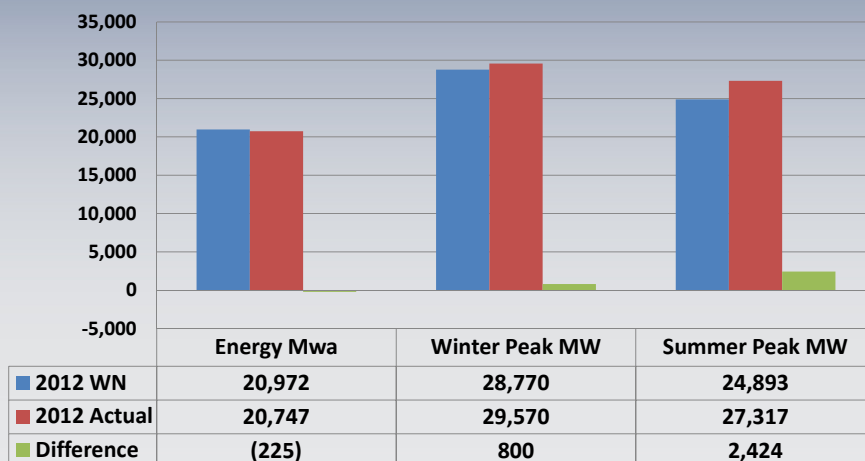
Actual and Normal Average Daily NW Temperatures - 2012



4



Actual and Temperature-Normalized NW Energy and Peak Loads – 2012



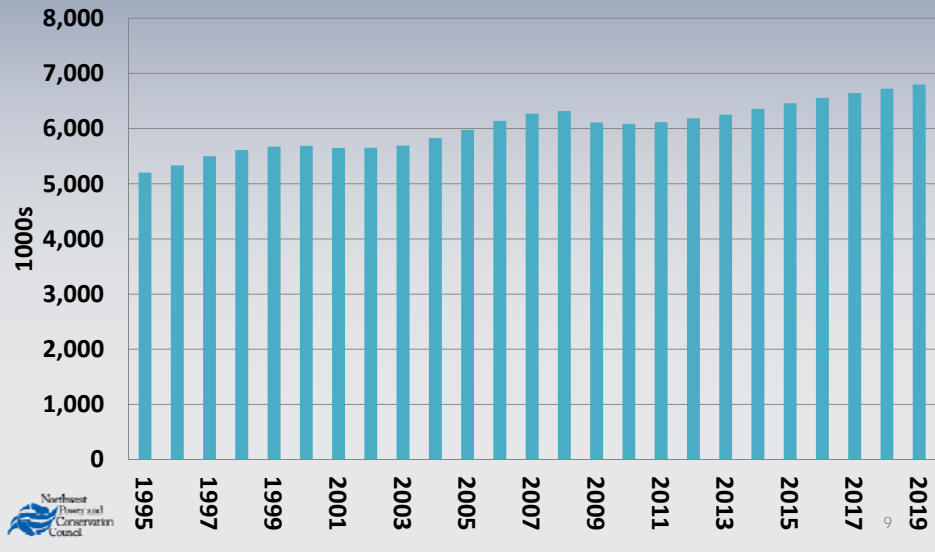
7

Load Forecasts Required for Resource Adequacy Assessment

- Hourly regional loads during 2019
- 84 sets of hourly loads reflecting regional daily temperature conditions during 1929-2012
- Electricity demand forecasts are net of Sixth Power Plan conservations targets

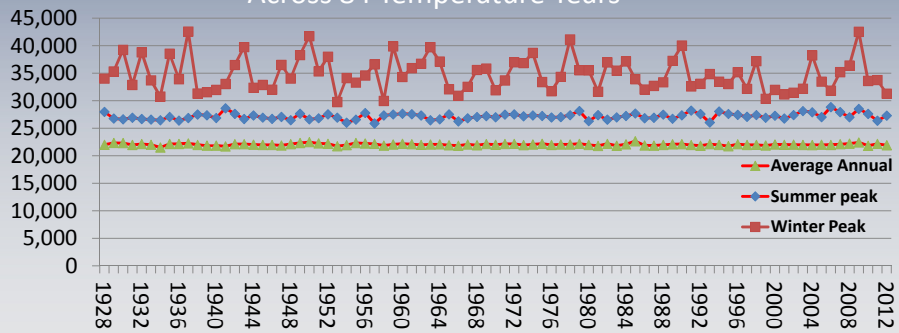


Regional Employment is a Key Driver for the Short-Term Load Forecast



NW Annual Load Forecast for 2019 - Average Energy and Peaks

Across 84 Temperature Years



	Low	Average	High
Energy MWa	21,507	22,033	22,639
Summer Peak MW	25,869	27,163	28,830
Winter Peak MW	29,762	34,808	42,565

NRF* Net Load for 2019

Energy : 21,665 MWa

Summer Peak** : 29,577 MW

Winter Peak* : 33,745 MW

*- Amount Netted from load not known

** non-coincident



End of presentation

