

## Proposed Adjustments to Non-Firm Load in the Common Case

August 1, 2011

### *Introduction*

This document serves to summarize the recommended adjustments to the WECC Balancing Authorities (BAs) non-firm load forecasts in the 2011 TEPPC Study Common Case. The document summarizes the basis of recommended adjustments and accompanies a spreadsheet detailing the 2021 forecasted non-firm load for all BAs.

### *Validation Methodology*

WECC BAs submitted non-firm load forecasts (i.e., dispatchable demand response) by four program types: interruptible load, direct load control, critical peak pricing (CPP) with controls, and load as a capacity resource. New for this year's data collection process, WECC BAs could also voluntarily submit demand response program-specific information, breaking the major program type forecasts into individual demand response programs. Nine BAs submitted this demand response program specific information and was used to assist in the non-firm load forecast validation process.

We validated the non-firm load forecasts by comparing each BA's forecast to utility Integrated Resource Plans (IRPs), 2010 FERC Demand Response Survey results, and state regulatory filings. We then contacted BA and utility staff responsible for non-firm load forecasts to understand differences between the WECC non-firm forecasts and what was included in the public validation sources. Preliminary adjustments were presented to the State-Provincial Steering Committee (SPSC) Demand Side Management (DSM) Work Group and we received explicit approvals of recommended adjustments and, in some cases, instructive feedback from utility and state agency staff. That feedback has been incorporated into this set of adjustments.

### *Results and Recommendations*

**Arizona Public Service (APS)** – We adjusted the non-firm load forecast to incorporate 105 MW of interruptible load in 2021. This reflects the 105 MW planned in the utility's IRP and reflects the ability for demand response (DR) to contribute towards compliance with the Arizona Energy Efficiency Standard (EES).

**Imperial Irrigation District (IID)** – We adjusted the non-firm load forecast to incorporate ~10 MW of interruptible load in 2021 that was voluntarily reported as program-specific information. We confirmed with utility staff the DR program was not included in the non-firm load forecast submission.

**Northern CAISO (NISO)** – We adjusted the non-firm load forecast to incorporate ~308 MW interruptible load, ~543 MW direct load control load, ~350 MW pricing program load, and ~305 MW load as a capacity resource load in 2021. These adjustments were based on the Pacific Gas and Electric (PG&E)

2020 Ex Ante to the California Public Utilities Commission (CPUC) Long Term Transmission Plan (LTPP). Time-of-use and permanent load shift (PLS) programs were not included as a pricing program as they are considered non-event based DR.

**Pacificorps - East (PACE)** – We adjusted the non-firm load forecast to incorporate 281 MW of interruptible load in 2021. This reflects the amount of interruptible load in the utility’s 2011 IRP and confirmed the adjustment with utility staff.

**Pacificorps - West (PACW)** - We adjusted the non-firm load forecast to incorporate 63 MW of interruptible load in 2021. This reflects the amount of interruptible load recommended by utility staff.

**Portland General Electric (PGE)** - We adjusted the non-firm load forecast to incorporate 60 MW of direct load control load and 20 MW pricing program load in 2021. This reflects values forecasted by the utility in the 2010 FERC DR Survey.

**Puget Sound Energy (PSE)** – We adjusted the non-firm load forecast to incorporate 144 MW of direct load control load in 2021. This reflects amounts of DR in the utility’s 2011 IRP.

**Southern CAISO (SISO)** - We adjusted the non-firm load forecast to incorporate ~723 MW interruptible load, ~1,082 MW direct load control load, ~582 MW pricing program load, and ~157 MW load as a capacity resource load in 2021. These adjustments were based on the Southern California Edison (SCE) 2020 Ex Ante to the California Public Utilities Commission (CPUC) Long Term Transmission Plan (LTPP). Real time pricing (RTP) programs were not included as a pricing program.

**Sacramento Municipal Utility District (SMUD)** - We adjusted the non-firm load forecast to incorporate 143 MW of pricing program load in 2021. This reflects values forecasted by the utility in the 2010 FERC DR Survey.

**Salt River Project (SRP)** - We adjusted the non-firm load forecast to incorporate 78 MW of pricing program load in 2021. This reflects values forecasted by the utility in the 2010 FERC DR Survey.