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September 1, 2011

## MEMORANDUM

**TO:** Council Members

**FROM:** Wally Gibson

**SUBJECT:** Transmission Planning Review Items

There are two items on the agenda relating to transmission planning. The staff will present a review of the draft west-wide 10-Year Transmission Plan that the Western Electricity Coordinating Council (WECC) has recently finished. That will be followed by presentations on transmission planning work by the two Northwest organizations, ColumbiaGrid and Northern Tier Transmission Group (NTTG). In this context, they are called "subregional" planning groups, where WECC is the "region" of reference.

Transmission planning occurs at multiple levels, directly by utility transmission providers and merchant developers, with coordination efforts through subregional planning groups, like ColumbiaGrid and NTTG, and west-wide through WECC. The coordination efforts of transmission providers are required by FERC Order 890. The WECC 10-Year Plan is a high-level examination of the bulk transmission that might be required by development of resources to meet state and provincial renewable portfolio standards (RPS) in 2020. The WECC plan assumes and builds on the construction of a set of transmission lines (the "foundational projects") that are currently under development and are estimated by the transmission providers, working through the subregional planning groups, to have a high likelihood of completion.

Jeff Miller, Planning Vice-President of ColumbiaGrid, and Rich Bayless, a consultant with NTTG, will review the planning work of their organizations, which developed the projects in the foundational projects list among other planning studies. ColumbiaGrid's membership is focused on the west side of the Northwest, including Bonneville and a number of publicly owned utilities; NTTG's membership is focused on the east side and is predominantly made up of IOUs.

## Review of WECC Draft 10-Year Transmission Plan

Wally Gibson NW Power and Conservation Council September 13, 2011

> Northwest Power and Conservation











## **Study Definition**

- · Generation location drives transmission need
- Base cases heavily in-state California RPS (current approach)
  - Resource locations estimated using model designed for state regulators and with input from states
  - Alternatives with 12,000 GWh (~ 1,370 MWa) renewables moved from California to 8 other locations in West

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Northwest Power and Conservation

- Added transmission to deliver using proposed projects
- Several other cases with approximately double amounts of renewables in Montana and Wyoming
- Several other cases with overall reduced loads (high energy efficiency and demand side resources) and increased loads

September 13, 2011



















