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November 10, 2015

MEMORANDUM

TO: Council members

FROM: Tom Eckman

SUBJECT: Updates to Data and Analysis between Draft and Final Plan

BACKGROUND:

Presenter: Tom Eckman

Summary: Staff recommends that RPM input assumptions be revised to reflect the updated data so that more time will be available for analysis between the close of public comment on the draft plan and the adoption of the final plan. Staff will present a summary of its recommended updates to the Power Committee prior to implementing any changes.

Relevance The Council plan should be based on the best information available.

Workplan: 1. B. Develop Seventh Power Plan and maintain analytical capability

- Complete draft plan resource strategy and draft action plan

Background: Staff has identified data and analytical updates that it recommends be carried out prior to adoption of the final Seventh Plan. The inputs to the Regional Portfolio Model (RPM) had to be frozen in late spring. Since that time staff continued to review and refine resource characteristics data and conduct further analysis.

More Info: N/A

Potential Data and Analysis Updates

November 17, 2015

Purpose and Potential Scope

- **Inputs to Regional Portfolio Model were “frozen” last spring**
- **Additional and/or better data is now available (e.g., commercial sector characteristics data)**
- **Revisions to analysis already identified by staff (e.g., update RPM resource data to reflect total regional balancing and flexibility reserves)**
- **Completing proposed updates prior to close of comments will permit staff to focus on issues raised by stakeholders after comments close**

Conservation Resource Updates

- **Update data**
 - New reports (e.g. commercial sector data)
 - New analysis by third parties
- **Potential New measures**
 - Commercial clothes washers
 - Daylighting and chillers
- **Total impact:**
 - Plus or minus 10-50 aMW in 20-year potential
 - Minor changes in levelized cost

Generating Resource Characteristics Updates

- Update environmental regulatory compliance costs and supporting documentation
 - Primarily impacts fixed cost of existing resources
- Expand discussion GHG emissions
- Add sections on additional generating resources (e.g. wave/tidal, offshore wind, CHP, CAES, distributed generation, etc.)
- Add discussion of state and local regulation

Conservation Resource Updates

- **Updated data**
 - New reports
 - New analysis by third parties
- **New measures**
 - Commercial clothes washers
 - Maybe daylighting and chillers
- **Fixing minor workbook errors**

- **Total impact:**
 - Plus or minus 10-50 aMW in 20-year potential
 - Minor changes in cost

Generating Resource Characteristics Updates

- Update environmental regulatory compliance costs and supporting docs
- Bolster GHG emissions in the PNW section
- Add sections on additional generating resources (e.g. wave/tidal, offshore wind, CHP, CAES, distributed gen, self gen, etc.)
- Add discussion of state and local regulation

RPM Updates

- **Revise ARMs to reflect estimate of total regional reserves held for flexibility and balancing**
- **Revise ASCC for CCCT and EE to reflect all reserves held for flexibility and balancing**
- **Determine ASCC for Solar PV and Wind (based on Basin and W. MT. wind regimes)**
- **Update GHG emissions calculation to reflect “2-year rolling average” in final EPA rule**
- **Update internal forecasting logic used for build decisions**