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October 28, 2014

MEMORANDUM

- TO: Power Committee
- FROM: Ben Kujala
- SUBJECT: RPM Redevelopment Project Discussion and Demo

BACKGROUND:

- Presenter: Ben Kujala and Cory Welch, Navigant Consulting
- Summary There has been significant progress on the Regional Portfolio Model (RPM). Council staff received a preview version of a version of the RPM that identifies the lowest risk resource strategies for alternative levels of risk. The current version of the rebuilt RPM creates these "optimizations" by testing automatically generated resource strategies across 750 futures. The model also has the capability to create graphics to help users interpret and visualize its results.

Two major redevelopment tasks remain. The first is to create the function and logic required to generate an updated set of futures for the model (the current version uses 750 futures based on the 6th Plan RPM). The second is to create the model logic that will parallel processing (i.e., running the RPM on simultaneously on multiple computers) to reduce the model runtime. Staff anticipates that the project will continue to deliver on or ahead of the contract schedule.

This presentation will demonstrate some of the rebuilt RPM's functionality. The demonstration will focus on a few of key inputs to the RPM that have been identified as having a significant influence in the RPM results. Navigant consulting staff who were contracted to redevelop the RPM will be on-site to demonstrate the model's operation and answer questions about the redevelopment process thus far.

- Relevance The Regional Portfolio Model will be used to provide analytics for the Resource Strategy in the Seventh Power Plan.
- Workplan: 1.E. Redevelopment of Regional Portfolio Model
- Background: Navigant is redeveloping the Regional Portfolio Model for the Seventh Power Plan. The project is scheduled to be completed in three phases. The first phase is scheduled to be completed by October 1st, the second phase is scheduled to be completed by December 19th and the third phase is scheduled to be delivered to the Council by February 12th with Council acceptance and signoff scheduled for March 13th. Council staff is supported on this project by contractors Doug Logan and Michael Schilmoeller.
- More Info: Summary information and updates are available at <u>http://www.nwcouncil.org/energy/rpm/home/</u>.



































