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November 7, 2017

## MEMORANDUM

- TO: Power Committee
- FROM: Tina Jayaweera, Charlie Grist

SUBJECT: Report out ANLYS-3: Exploration of an End Use Conservation Model

## BACKGROUND:

- Presenter: Tina Jayaweera
- Summary: An end-use conservation model is common practice in the industry, where the conservation potential is built up based on end-use conservation. The Council, however, has used a units-based model to determine potential. In March 2017, the Council contracted with a consulting firm to conduct a scoping study for potential development of an end-use conservation model. The study highlighted the advantages and disadvantages, with associated risks, of developing an end-use conservation model. The study recommends, with which Council staff agree, that the Council should incorporate key benefits of an end-use model in its current, units-based approach without full adoption of such a model.
- Relevance: The conservation potential model is a critical tool in developing the energy-efficiency supply curves that are used as inputs to the regional portfolio model.
- Workplan: B.1. Maintain Analytical Capabilities: Conservation
- Background: Action plan item ANLYS-3 is as follows: Explore development of an enduse conservation model. [Council] Many conservation planners in the

industry utilize an integrated end-used based conservation assessment model to closely tie savings to load forecasts. In addition, models may also be improved by including performance-based efficiency approaches. The Council will scope the development of a working model. Depending on findings/budget, the Council may contract out model development. Report on scope will be completed by 2017.

More Info: At the <u>November 2016 Council meeting</u>, the Council approved the release of an <u>RFP</u> for Scoping End Use Model for Conservation.

The final report from the Consultant is available here









# Should Council Staff Use an End-Use Model?

#### Advantages

Northwest Power and Conservation Council

- Better ties conservation to load forecast
- Avoids potential overcounting of potential compared to end-use forecast
- More rigorously captures interactions between measures
- Improved ability to model scenarios

### Disadvantages

- More complex with less transparency
- Data requirements increase
- Will not be as closely synced to RTF values
- Will be harder to tie to program/momentum savings
- Model development and support will be extensive









