

CCAIE/EFG Data Request, 6/4/2026

SPS Responses are provided in red font below.

1. Would SPS be able to provide the following assumptions modeled for the advanced technology resources in the advanced technology scenario?

a. First year that the resource can be selected in EnCompass.

- 1) Geothermal: 2032
- 2) 100% H2 CT: 2040
- 3) LDS: 2028
- 4) SMR: 2032
- 5) Fuel Cell: 2028

b. Any annual or cumulative build limits assigned to the resource.

- 1) Geothermal: 2,400 MW/yr
- 2) H2 CT: 390.4 MW/yr
- 3) LDS: No limit
- 4) SMR: 3,000 MW/yr
- 5) Fuel Cell: No limit

c. Capital cost over the planning period.

Please refer to the file "generic inputs projects emergingtech" on the non-confidential are of the iManage file share site.

d. Any tax credit assumptions applied, including safe harbor timeframes.

No tax credits are applied to emerging tech.

e. Any additional costs that might be modeled (such as transmission interconnection).

All H2 CTs receive a 125 \$/kW TRX cost adder. Geothermal receives a 472 \$/kW TRX cost adder.

2. For the large load from the probabilistic model, can SPS explain how those projections were developed for later periods of the planning period? For example, is load from the probabilistic model increasing because known customer requests are still ramping up over time or is SPS assuming load materializes during the planning period from future requests not known to SPS?

The probabilistic load does not include any known customer requests. The load is modeled based on simulations for Large C&I sales growth, from which the 85th percentile is selected. The probabilistic load represents the expectation that SPS will continue to receive load requests from customers beyond what has already been received.

3. For each load forecast, can SPS provide the peak demand for each year in the planning period for oil and gas?

This can only be provided for incremental oil and gas. Load that already exists is included in the forecast as a base load component and included in "Retail x/EV, Large Loads". The breakout of the peak forecast by component is included in the workbook associated with this request for the Low, Planning, and Unconstrained Planning forecasts.

4. For the large load from the probabilistic model included in the different load forecasts, can SPS provide additional information including:

- a. The peak demand from the probabilistic model for each year in the planning period.

That data is provided in the workbook associated with this request (Attachment 4a). Probabilistic load is only included in the Planning forecasts.

- b. The probabilities assigned to customer requests, what each probability threshold represents, and what the differences in probabilities represent. Are the probabilities tied to different criteria (such as whether the customer has control over the site, whether construction has begun, whether permits have been secured, conversations with the customer, etc.)?

The probabilistic model does not include loads from known customer requests. Multiple criteria, including those listed above, inform whether a specific request is included in the forecast (outside of the probabilistic model).

- c. Any supporting workbook used to develop the load from the probabilistic model.

The information is included in Attachment 4c, which contains Confidential Information. Attachment 4c will be posted to the appropriate, restricted folder on the iManage file share site.

5. For the load forecast, can SPS provide a breakout of:
 - a. The increase in energy and peak demand from electric vehicle adoption.
 - b. The decrease in energy and peak demand from distributed solar.
 - c. The decrease in energy and peak demand from energy efficiency.

See the workbook associated with this request (Attachment 4a) for all parts of this question.

6. For the data center sensitivity, can SPS provide the load materialization schedule for the data center load including the first year the load is on the system and the ramp period?

See the workbook associated with this request (Attachment 4a).