PacifiCorp - Stakeholder Feedback Form

2023 Integrated Resource Plan

PacifiCorp (the Company) requests that stakeholders provide feedback to the Company upon the conclusion of each public input meeting and/or stakeholder conference calls, as scheduled. PacifiCorp values the input of its active and engaged stakeholder group, and stakeholder feedback is critical to the IRP public input process. PacifiCorp requests that stakeholders provide comments using this form, which will allow the Company to more easily review and summarize comments by topic and to readily identify specific recommendations, if any, being provided. Information collected will be used to better inform issues included in the 2023 IRP, including, but not limited to the process, assumptions, and analysis. In order to maintain open communication and provide the broader Stakeholder community with useful information, the Company will generally post all appropriate feedback on the IRP website unless you request otherwise, below.

Date of Submittal: 2024-05-02

*Name: Jim Himelic Title:

*E-mail: jhimelic@firstprinciples.run Phone: 5209791375

*Organization: Renewables Northwest

Address:

City: State: Zip:

Public Meeting Date comments address: ☐ Check here if not related to specific meeting

List additional organization attendees at cited meeting:

*__IRP Topic(s) and/or Agenda Items:__ List the specific topics that are being addressed in your comments.

PLEXOS Settings

☐ Check here if you do **not** want your Stakeholder feedback and accompanying materials posted to the IRP website.

*__Respondent Comment:__ Please provide your feedback for each IRP topic listed above.

Renewable Northwest is requesting that Pacificorp address specific elements of their PLEXOS modeling process during an upcoming stakeholder meeting. The items of interest are divided into two main categories: Category 1: LT Plan Temporal Configuration Discuss step size and overlap; as well as any application of PLEXOS' rolling horizon feature. Review Chronology Method options: partial, fitted, sample. Examine Duration Curve Type and the number of blocks per curve.In addition, discuss what process Pacificorp takes in maximizing model accuracy with problem size (i.e. run times) Discuss what slicing method is activated and discuss the strengths and weaknesses between peak/off peak and weighted least squares. Discuss the use of global variables, such as slicing blocks and sampling years. Delve into expansion decisions regarding integer optimality: whether using LP or MILP, and details on the integerization horizon if MILP is used. Category 2: Performance Settings Evaluate solver selection, solver method, and MIP gap settings. Consider the use of solver tuning optimization software programs. Review parallelization settings and CPU hardware capabilities of PacifiCorp, including RAM, physical cores, and CPU speed. Additional topics related to the administering and running of the PLEXOS models will be discussed in future meetings.

Data Support: If applicable, provide any documents, hyper-links, etc. in support of comments. (i.e. gas forecast is too high - this forecast from EIA is more appropriate). If electronic attachments are provided with your comments, please list those attachment names here.

Recommendations: Provide any additional recommendations if not included above - specificity is greatly appreciated.

Please submit your completed Stakeholder Feedback Form via email to IRP@Pacificorp.com

* Required fields

PacifiCorp response (7/15/2024/2024):

Thank you for your feedback and engagement in the Integrated Resource Planning process. The subject matter expertise and experience required to meaningfully engage in discussion concerning the requested technical details is beyond the scope of a public input meeting. PacifiCorp analysts and technical teams consider all of the above strategies in its technical implementation of PLEXOS and maintains an ongoing relationship with Energy Exemplar experts in order to balance and optimize model functionality.

PacifiCorp covered optimization modeling and details of the PLEXOS modeling process at the January 25, 2024 and March 14, 2024 Public Input Meetings. As explained in the March meeting, PacifiCorp has explored the suggested avenues and has been engaged specifically in ongoing efforts to improve LT model granularity and performance.

* Required fields