

# 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 2023-02-20

\*Name: Laura Singer

Title: \_\_\_\_\_

\*E-mail: laura.singer@fervoenergy.com

Phone: \_\_\_\_\_

\*Organization: Fervo Energy

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.

Supply-side modeling

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.

Fervo Energy wishes to bring the attached analysis, completed by the National Renewable Energy Laboratory (NREL), to PacifiCorp's attention for inclusion in 2023 IRP modeling. The report, recently completed in January 2023, reassesses geothermal resource potential and costs in support of the U.S. Department of Energy's Enhanced Geothermal Shot initiative. The results for Utah are illuminating and Fervo requests they be incorporated in the supply-side modeling for the 2023 IRP. The report estimates that 3.4GW of geothermal capacity is available for development in Utah. These resources can be developed at a levelized cost of electricity (LCOE) of approximately \$47/MWh. In order to expedite development of firm, clean electricity from geothermal resources, procurement of geothermal energy should be included in the 2023 Proposed Portfolio. Fervo Energy appreciates your consideration of these comments and the attached analysis.

**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.

<https://www.nrel.gov/docs/fy23osti/84822.pdf>

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

\* Required fields

## PacifiCorp Response (4/28/23)

PacifiCorp included two geothermal energy resource options in the 2023 IRP. The Greenfield Binary Plant option costs are close to those proposed in the referenced NREL report with a real levelized capital cost in 2022 dollars of 5,568  $$/kW_e$ , and a Total Resource Cost after tax credits of 42.69  $$/MWh$ . The NREL report suggests an overnight capital cost of 3,565  $$/kW_e$  and an LCOE target of 45  $$/MWh$  by 2035. While geothermal resources were not selected in the 2023 preferred portfolio, PacifiCorp is open to this technology type. The 2023 IRP assumed geothermal cost escalation based on inflation, as it uses many well-established technologies related to drilling and steam turbines. To the extent that cost savings relative to other technologies options become achievable because of technological development and experience, geothermal would be more likely to be included in the preferred portfolio.

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Please submit your completed Stakeholder Feedback Form via email to [IRP@PacifiCorp.com](mailto:IRP@PacifiCorp.com)

Thank you for participating.

\* Required fields