

PacifiCorp - Stakeholder Feedback Form

2019 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 2019 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 [Click here to enter date.](#)

*Name: Hunter Holman

Title: [Click here to enter text.](#)

*E-mail: hunter@utahcleanenergy.org

Phone: [Click here to enter text.](#)

*Organization: Utah Clean Energy

Address: [Click here to enter text.](#)

City: [Click here to enter text.](#) State: [Click here to enter text.](#) Zip: [Click here to enter text.](#)

Public Meeting Date comments address: [Click here to enter date.](#) Check here if not related to specific meeting

List additional organization attendees at cited meeting: [Click here to enter text.](#)

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

Supply-side costs for renewable energy

Check here if any of the following information being submitted is copyrighted or confidential.

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.

Please provide additional detail and clarification regarding how PacifiCorp will determine the supply-side costs for renewable energy in the 2019 IRP. Based on the July 26 presentation, it appears that PacifiCorp issued an RFP to select consultants to provide information about the cost of solar, wind, storage, solar + storage, and wind + storage.

We would like additional information regarding the parameters PacifiCorp directed the consultants to consider and include when formulating their response, i.e., did PacifiCorp direct the consultants to incorporate the 2017 wind and solar RFP results, the prices from the solar PPAs that PacifiCorp recently executed, non-Utah or PacifiCorp RFP results, or other factors or information? If PacifiCorp did not provide the consultants any specific parameters, does PacifiCorp plan to include the example prices listed above as an input to the supply-side costs at some point? If so, how?

PacifiCorp Response:

Consistent with prior Integrated Resource Plans, PacifiCorp works with an independent third-party consultant to develop its supply-side resource table. This consultant was available to discuss the study and draft supply-side resource table values and presented at the September 27-28, 2018 public input meeting. Stakeholder feedback is requested.

Further, please provide a description of the process after PacifiCorp selects a winning bid from the consultant RFP. Will PacifiCorp defer to the consultant's pricing for each technology and combination of technologies? Or will PacifiCorp use these prices as a starting point and adjust them based on other factors? If PacifiCorp plans to adjust the prices, what factors will PacifiCorp use to adjust the consultant's pricing?

PacifiCorp Response:

* Required fields

PacifiCorp will work with the consultant based on their input and recent market experience by PacifiCorp, along with stakeholder feedback, to develop final supply-side resource table values for proxy resources.

For solar/wind + storage, the July 28 slides (page 90 and 91) state that "appropriate energy storage technology will be considered for each plant size." Will PacifiCorp rely exclusively on the consultants to determine the "appropriate energy storage technology" for each wind/solar project pairing? Will PacifiCorp provide the consultants with information about desired functions or capabilities for battery storage (for example, time-shifting generation) or relative value to PacifiCorp of different functions and capabilities of batteries?

PacifiCorp Response:

PacifiCorp will consider a variety of proxy storage sizes and configurations as part of its energy storage supply-side resource table values.

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.

[Click here to enter text.](#)

Recommendations: Provide any additional recommendations if not included above - specificity is greatly appreciated. Given the dramatic decline in the costs for renewable resources recently, cost curves for solar, wind, and battery storage should account for anticipated price declines, especially in the next few years, since the IRP is a 20 year period.

The consultant should consider the full range of ancillary services battery storage can provide and evaluate a variety of configurations. Even if there are configurations that are not-cost effective right now, it would be helpful for stakeholders to understand the services that battery storage is providing for utilities in other markets and the future and current costs associated with those services or capabilities as they relate to PacifiCorp's system.

The consultant should provide clear and specific information about battery configurations, including battery technology and also both the capacity and duration of discharge for batteries.

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

Thank you for participating.