

# PacifiCorp - Stakeholder Feedback Form

## 2021 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 2021 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 4/30/2020

\*Name: Kevin Emerson

Title: Energy Efficiency Program Director

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Phone: (801) 363-4046

\*Organization: Utah Clean Energy

Address: 1014 2<sup>nd</sup> Avenue

City: Salt Lake City

State: Utah

Zip: 84103

Public Meeting Date comments address: 4/16/2020

Check here if not related to specific meeting

List additional organization attendees at cited meeting:

Justin Brant, Southwest Energy Efficiency Project

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

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. DSM Measures

As previously stated, Utah Clean Energy supports the inclusion of the "Water Heater – Solar System" and the "Pool Heater – Solar Water Heating System" measures in the file "PacifiCorp 2021 CPA Res Measure List Draft Final". We are commenting again here to direct AEG to a similar incentive currently being offered in Utah by Dominion Energy through their ThermWise program. Dominion Energy currently offers a \$750 incentive for a "solar assisted gas water heating" for both domestic hot water and pools: <https://www.thermwise.com/wp-content/uploads/2020-Appliance-Rebates.pdf>

We recommend adding a high-SEER heat pump water heater (HPWH) that uses an outdoor compressor unit to your DSM measure list. A standard HPWH captures heat from indoor air from within the space/room in which the HPWH and compressor unit is located. This can lower indoor temperatures in the room where the water heater is located and may pose challenges to the operation and long-term adoption of HPWHs in Utah's climate, which is heating dominated. The HPWH could cannibalize the indoor heat needed to keep occupants warm in colder months. To address this issue, HPWHs with outdoor compressor units should be evaluated for inclusion in the DSM measure list. It is unclear how widespread this type of system is available yet in the Utah market, but these types of HPWHs are commercially available. For example, the "SAN CO2" system is a HPWH that uses an outdoor compressor unit manufactured by Sanden: <https://www.sandenwaterheater.com/>

### **PacifiCorp Response:**

Thank you for the resource suggestion.

## Demand Response/Grid Services Measures

In addition to the Grid-Interactive Water Heater (GIWH) DR measure that is included in the file “PacifiCorp 2021 CPA DR Measure List Draft Final”, Utah Clean Energy recommends including a second GIWH DR measure that also includes solar PV. A solar PV assisted Grid-Interactive Water Heater DR measure would integrate on-site solar electricity generation with a heat pump water heater, creating an opportunity to “super heat” hot water to higher-than-usual temperatures when electricity is cost-effectively generated through on-site solar PV, therefore enabling the hot water tank to be used as thermal energy storage to provide hot water when needed (with mixing valves to temper the very hot water temperatures).

### **PacifiCorp Response:**

Thank you for the references. This measure is currently included under the Tier 4 emerging tech HPWH.

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**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.

Current solar assisted water heater incentives in Utah: <https://www.thermwise.com/wp-content/uploads/2020-ApplianceRebates.pdf>

Sanden SAN CO2 heat pump water heater with outdoor unit: <https://www.sandenwaterheater.com/>

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**Recommendations:** Provide any additional recommendations if not included above - specificity is greatly appreciated. [Click here to enter text.](#)

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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