



Integrated Resource Plan

2021 IRP Public Input Meeting

April 23, 2021



Agenda



- 9:00am-9:15am pacific – Introductions
- 9:15am-9:45am pacific – 2021 IRP Filing Extension Update
- 9:45am-10:30am pacific – Modeling Update
- 10:30am-11:00am pacific– All-Source 2020 and Demand Response Request for Proposals Update
- 11:00am-11:15am pacific – Stakeholder Feedback Form Update
- 11:15am-11:30pm pacific – Wrap-Up/Next Steps



2021 IRP Filing Extension Update



2021 IRP Filing Extension Update



- At the February 10, 2021 public-input meeting, PacifiCorp discussed challenges with modeling functionality and performance resulting in an inability to produce 20-year resource portfolios and necessitating a shift in the 2021 IRP file date from April 1, 2021 to September 1, 2021.
- Regulatory approvals were sought in Idaho, Utah and Washington with courtesy notices filed in Oregon and Wyoming.
 - Idaho order approving extension issued March 31, 2021 (Case No. PAC-E-21-03, Order No. 34984)
 - Utah order approving extension issued March 15, 2021 (Docket No. 21-035-09)
 - Washington interim 2021 IRP filing filed April 1, 2021

Regulatory Status of Filing Extension Requests



Wyoming

PacifiCorp filed notice with the Wyoming Public Service Commission on February 12, 2021, that the IRP filing date would be moved from April 1, 2021, to no later than September 1, 2021.

Utah

PacifiCorp filed a request with the Utah Public Service Commission on February 12, 2021, to extend the IRP filing date.

After a comment period, the company was granted the extension on March 15, 2021 (Docket No. 21-035-09)

Idaho

PacifiCorp filed a request with the Idaho Public Utilities Commission on February 12, 2021, to extend the IRP filing date.

After a comment period, the company was granted the extension on March 31, 2021 (Case No. PAC-E-21-03, Order No. 34984)

California

PacifiCorp files an IRP in California consisting of any IRP submitted to another public regulatory entity within the previous calendar year.

Oregon

PacifiCorp filed notice with the Oregon Public Utility Commission on February 12, 2021, that the IRP filing date would be moved from April 1, 2021, to no later than September 1, 2021.

Washington

PacifiCorp filed an interim IRP in Washington on April 1, 2021 (Docket UE-200420), that was qualitative only and did not include any resource portfolios. The company will update with the final IRP by no later than September 1, 2021.

Washington 2021 IRP Interim Filing



- Following discussions with Washington Staff, PacifiCorp filed a 2021 IRP interim filing April 1, 2021 (Docket UE-200420).
- Among other items, the filing contains:
 - Draft qualitative description of planning environment and available IRP components but does not include any resource portfolios or cost and risk analysis
 - Draft of the 10-year Washington-specific Clean Energy Action Plan
 - Updated 2021 IRP workplan and description of additional public-input meetings to achieve a September 1, 2021 complete 2021 IRP file date
 - Draft of the Equity Advisory Group participation plan
- Filed a Motion to Amend General Order 601 to allow filing of the draft 4-year Washington-specific Clean Energy Implementation Plan (CEIP) by November 1, 2021 (rather than August 15, 2021).
- Filed a Petition for Exemption of WAC 480-100-640(1) to file the final CEIP by January 1, 2022 (rather than October 1, 2021).

Washington Equity Advisory Group



- PacifiCorp will file a CEIP participation plan May 1, 2021 pursuant to requirements of the Clean Energy Transformation Act passed in 2019 in Washington (WAC 480-100-655).
- The CEIP participation plan will include information regarding the Equity Advisory Group (EAG) that will provide input on Washington-specific processes downstream from the IRP, primarily the CEIP, and ways to advance equity in energy for vulnerable and highly-impacted communities served in Washington.
- PacifiCorp is in the process of outreach to establish membership of the EAG and to produce a website to provide information regarding public participation opportunities in EAG meetings and related materials.
- The EAG work will be in conjunction and collaboration with other PacifiCorp advisory groups within Washington (low-income, energy efficiency, and IRP public participation).
- It is anticipated the first meeting of the EAG will be held May 13, 2021.



Modeling Update



Long-Term Portfolio Progress



- Since the February 10, 2021 public-input meeting, PacifiCorp has continued to work in conjunction with the technical and development teams at Energy Exemplar to resolve model infeasibilities, function and performance challenges in PacifiCorp's application of the Plexos model.
- Examples of some of the issues encountered and subsequently resolved:
 - Fuel cost tiers reporting incorrectly, requiring software coding update.
 - Model glitch precluding available number of licenses to be run and required update to the licensing file.
 - Failure of the model to compress data outputs requiring software coding update.
- PacifiCorp explored a 20-year test format while 20-year runs took 6-10 days to run before going infeasible, however it was found not to treat retirement years correctly and would require a further software fix.
- PacifiCorp has made significant progress on its ability to produce long-term resource portfolios using the Plexos model in April 2021.
- Early portfolio results indicate endogenous coal retirement and transmission options are functioning.

Long-Term Portfolio Next Steps



- Further work and iterations are needed to evaluate new resource decisions and enable cost and risk analysis, including MT/ST runs using stochastics to assess reliability outcomes of a portfolio as well as refinement of reporting tools to enable such assessment.
- Recent run times tend to be in the 3-7 day range to produce a long-term portfolio.
- While portfolio results are not available for today's discussion, PacifiCorp is diligently working to produce initial results of portfolios for discussion at the May 27-28, 2021, public-input meeting.



All-Source 2020 and Demand Response Request for Proposals Update



PacifiCorp RFP Update



2020 All Source RFP

Current Status

- The originally proposed timeline for determining the final shortlist remains on schedule.
- PacifiCorp Transmission's transitional cluster study was completed on April 4, 2021 and results were publicly posted.

Next Steps

- Initial shortlisted bidders will provide to PacifiCorp's RFP team bid updates that include certain PacifiCorp interconnection cost coupled with an on opportunity to "reprice" their original bid.
- PacifiCorp will conduct its final shortlist evaluation and modeling after receiving bid updates.
- 2020AS RFP final shortlist selections are expected to be announced no later than June 2021.

Demand Response (DR) RFP

- The Company received demand response bids from 18 different organizations
- Several different types of potential DR programs were reflected in the bids
- The review and evaluation process is underway and is likely to continue through the second quarter of 2021.



Stakeholder Feedback Form Update



Stakeholder Feedback Form Update



- 78 stakeholder feedback forms submitted to date.
- Stakeholder feedback forms and responses can be located at pacificorp.com/energy/integrated-resource-plan/comments
- Depending on the type and complexity of the stakeholder feedback received responses may be provided in a variety of ways including, but not limited to, a written response, a follow-up conversation, or incorporation into subsequent public input meeting material.
- Stakeholder feedback following the previous public-input meetings is summarized on the following slides for reference.
- During the November 16, 2020, public-input meeting, PacifiCorp received suggestions to clarify the stakeholder feedback form, that process is underway.

Summary - Recent Stakeholder Feedback Forms



Stakeholder	Date	Topic	Brief Summary (complete form available online)	Response (posted online when available)
Oregon Public Utility Commission Staff (077)	April 9, 2021	January Public Input Meeting follow up questions	Offshore wind, 2020 AS RFP, other IRP modeling questions	Targeted response for week of 4/19
Sierra Club (078)	April 14, 2021	December Public Input Meeting follow up questions	Coal operating limits and modeling methodology	Targeted response for week of 4/26



Additional Information/Next Steps





Additional Information

- Public Input Meeting and Workshop Presentation and Materials:
 - pacificorp.com/energy/integrated-resource-plan/public-input-process
- 2021 IRP Stakeholder Feedback Forms:
 - pacificorp.com/energy/integrated-resource-plan/comments
- IRP Email / Distribution List Contact Information:
 - IRP@PacifiCorp.com
- IRP Support and Studies:
 - pacificorp.com/energy/integrated-resource-plan/support



Next Steps

Upcoming Public-Input Meeting Dates:

- May 27-28, 2021 – Public-Input Meeting
- June 24-25, 2021 – Public-Input Meeting
- July 29-30, 2021 – Public-Input Meeting
- *August 12, 2021 – Public-Input Meeting (if needed)*
- No later than September 1, 2021 – File 2021 IRP

**meeting dates are subject to change*