

Energy planning process next steps for 2022 with IRP stakeholders

1/20/2022

Overview

On January 20, 2022, Puget Sound Energy (PSE) hosted an online meeting with Integrated Resource Plan (IRP) stakeholders to:

- Inform IRP stakeholders on the Final Clean Energy Implementation Plan (CEIP), how IRP stakeholder feedback was used, and Utilities and Transportation Commission (UTC) comment period.
- Inform IRP stakeholders on efforts to incorporate climate change in the demand forecast and launching the Conservation Potential Assessment (CPA).
- Discuss and provide feedback on the 2023 Electric Progress Report and Gas Utility IRP work plans.

Additionally, participants were able to ask questions and make comments using a chat box provided by the Zoom platform.

Below is a report of the questions submitted to the chat box. Answers to the questions were provided verbally by PSE staff during the meeting. Please note that questions were answered in order of relevance to the topic currently being discussed. Questions regarding other topics were answered at the end of the meeting.

To view a recording of the webinar and to hear responses from staff, please visit the project website at pse.com/irp.

Attendees

A total of 135 stakeholders, PSE staff and facilitators attended the meeting.

Attendees included:

Aaron Tam, Abhimanyu Das Choudhury, Allison Jacobs, Amir Sanjar, Amy Wheelless, Anne Newcomb, Anthony O'Rourke, Anusha Papasani, Austin Nnoli, Bill Pascoe, Bill Will, Bob Williams, Brett Rendina, Brian Robertson, Brian Tyson, Brian Grunkemeyer, Caity Du, Carol Loughlin, Carolyn Logue, Charlee Thompson, Chris Smith, Chris Walford, Cindy Song, Cindy Vu, Claire Wendle Cody Duncan, Colin Crowley, Corey Dahl, Cuong Nguyen, Daniel Handal, David Huffines, David Tomlinson, David Meyer, Debashis Bose, Diann Strom, Don Marsh, Doug Sabine, Doug Hart, Elizabeth Hossner, Ellyn Murphy, Eric Markell, Eric Kang, Fred Huetten, Gurvinder Singh, Halley Miklos, Heather Mulligan, Howard Harrison, Jacob Hibbeln, James Adcock, James Doone, Jennifer Snyder, Jennifer Coulson, Jeralee Anderson, Jeremy Summers, Jesse Durst, Jessica Neely, Jim Schretter, Jisong Wu, Joel Nightingale, John Fazio, John Dooley, Joni Bosh, Josh Jacobs, Kara Durbin, Kathi Scanlan, Katie Ware, Kelly Xu, Kelly Goodman, Kendra White, Lawrence Becker, Laxman Subedi, Leslie Almond, Lindsay Osier, Lloyd Reed, Lori Hermanson, Lorin Molander, Lucila Gambino, Mahmoud Ghofrani, Marc Alberts, Marcus Sellers-Vaughn, Marilyn Subala, Mark Klein, Markus Virta, Marty Saldivar, Matthew Mahoney, Michael Berry, Michelle Wildie, Nathaniel Lawver, Nelli Doroshkin, Nick Gemperle, Niece Weatherby, Norm Hansen, Owen Hurd, Pamela Braff, Patricia Tuor, Patrick Leslie, Patty Cook, Peter Besenovsky, Phil Ritter, Phillip Schmidt-Pathmann, Phillip Popoff, Ping Liu, R.C. Olson, Randall Hardy, Renchang Dai, Robert Healy, Roxana Vilchis, Sara Leverette, Shashwat Roy, Scott Williams, Seth Baker, Sheri Maynard, Sophie Glass, Stacy Vynne McKinstry, Stephanie Price, Stephanie Chase, Steve Lewis, Sue Gunn, Taylor Hodges, Thomas Cameron, Tom Flynn, Tyler Tobin, Villamor Gamponia, Warren Halverson, Weimin Dang, Wendy Gerlitz, Will Einstein, Will Henderson, Willard Westre, Zac Yanez, Zeia Lomax, Zen McManus, Zhi Chen.

Questions Received

Questions from attendees are posted in the order in which they were received. The meeting began at 1:00 PM PDT and ended at 4:00 PM PDT.

Name	Time Sent	Comment
Jacob Hibbeln	1:05 p.m.	sglass@triangleassociates.com
Don Marsh	1:13 p.m.	We are excited too! The transformation of our energy grid is super important for our economic and environmental well-being. I'm glad PSE is recognizing the urgency to be aggressive and innovative. And humble about the challenges ahead.
Sophie Glass	1:17 p.m.	https://oohpseirp.blob.core.windows.net/media/Default/2022_meetings/2022_0120/2022_0120_IRPStakeholderMeeting_v0113.pdf
Sophie Glass	1:18 p.m.	^ the online PDF version of today's slide deck
Nathe Lawver	1:18 p.m.	thank you
James Adcock	1:18 p.m.	Slide 10 "Timing" -- is there any change PSE will buy, build, or contract for new fossil fuel generating plants in the next couple of years?
James Adcock	1:18 p.m.	typo: "chance for change"
Sophie Glass	1:19 p.m.	Thank you, James. We will get to your question.
Fred Heutte	1:27 p.m.	Just to point out, the CETA goal is also 100% in 2030, with up to 20% of alternative compliance options in the compliance periods between 2030 and 2045
Sophie Glass	1:27 p.m.	Thanks, Fred.
Sophie Glass	1:28 p.m.	I'll ask PSE to respond in a bit
Katie Ware	1:30 p.m.	Question re: slide 14
Court Olson	1:30 p.m.	I have multiple questions on slide 16 as follow. 1) what does BCP stand for in energy efficiency? 2) What are PURA contracts? 3) I don't see any DER or new Demand response reflected here. Why not? 3) How is Green Direct used to meet demand, or where does power for this program from and is it separate from other resource acquisitions? 4) Please explain again why the dashed line is downsloping since this doesn't make sense.
Sophie Glass	1:32 p.m.	Thank you all - we will pause in a moment to cover these questions
Joel Nightingale	1:33 p.m.	Are the numbers in this table (slide 18) cumulative or incremental?
Nathe Lawver	1:33 p.m.	As these RFPs go out, will there be local hire, apprentice utilization and equity and inclusion goals for the contractors to be held accountable for?
Sophie Glass	1:37 p.m.	Thank you Nathe, Joel and others. We will get through these questions.
Court Olson	1:40 p.m.	Bryan missed the later part of my questions on Green Direct: Where does the power from this program come from and is it separate from other resource acquisitions?
Sophie Glass	1:41 p.m.	Thank you, Court
James Adcock	1:42 p.m.	If the modeling shows "Build a Ton of Wind Now", then why isn't PSE at least *trying* to "Build a Ton of Wind Now", rather than trying to find some other answer?
Sophie Glass	1:46 p.m.	Thanks James. We've noted your question
Sophie Glass	1:47 p.m.	Joel – we are getting to your questions next

Name	Time Sent	Comment
Jessica Neely	1:49 p.m.	18 - Does the planned wind MWs include offshore wind?
Joel Nightingale	1:49 p.m.	Thank you!
Fred Heutte	1:50 p.m.	just as a rough comparison, the EE total of about 1 million MWh is about 115 average MW (aMW) on an annual basis
Sophie Glass	1:50 p.m.	Jessica – we see your question. Thanks.
Amy Wheelless	1:50 p.m.	but for ee, it's challenging to say incremental, since there isn't any one EE program that is for CETA - it's more peanut buttered around
Sophie Glass	1:55 p.m.	Great questions, everyone.
Court Olson	1:57 p.m.	On slide 22, what does "Customer Facing" program look like?
Court Olson	1:58 p.m.	Could PSE launch an onbill financing program for efficiency improvements?
Court Olson	1:59 p.m.	Thank you!
Sashwat Roy	2:03 p.m.	This could be a good opportunity to update the methodologies pertaining to how storage resources are treated in the portfolio and production cost modeling (E3's report highlights some of those). Is that on the list of update items that PSE would consider?
Sophie Glass	2:04 p.m.	Thanks Sashwat – we've noted your questions.
Fred Heutte	2:05 p.m.	Agree with Sashwat -- a particularly important task is to refine the modeling for hybrid (particularly solar-battery) resources which are becoming a prominent part of the new resource mix. They provide more operational flexibility and grid value but also a big challenge to represent effectively in existing models.
Fred Heutte	2:08 p.m.	It's not clear from the slides, so could you provide more clarity on when the revised demand forecast and related issues (including the climate adjustments being discussed later) will be scheduled in the IRP Update process.
Fred Heutte	2:09 p.m.	Update == Electric Progress Report
James Adcock	2:26 p.m.	Page 37 -- "peak" meanly yearly peak?
James Adcock	2:27 p.m.	Meanly = meaning
Sophie Glass	2:27 p.m.	Thanks, James. I'll ask Allison to pause in a moment and answer this question
Fred Huette	2:29 p.m.	for temperature data does PSE only use Seatac or other points in the electric and gas service territories - temp extremes can be somewhat different for example up by the Canadian border
Sophie Glass	2:29 p.m.	Thanks, Fred. I'll pause Allison after this slide for your question.
Fred Huette	2:36 p.m.	has PSE been coordinating with climate scientists at UW or elsewhere on the issues involved in downscaling climate model data? this is somewhat different for an extended metropolitan region as compared to the Council's much larger Northwest view
Sophie Glass	2:40 p.m.	Thanks, Don. I see your hand.
Court Olson	2:47 p.m.	On slide 50, why does the demand curve start to arc upward after 2030? What causes that slope change?
Fred Huette	2:48 p.m.	will there be revised demand forecast sensitivities not including climate but also potential for vehicle and building electrification
Sophie Glass	2:48 p.m.	Thanks, Fred. We will return to your question soon.

Name	Time Sent	Comment
Fred Heutte	2:48 p.m.	i meant "not only including climate"
Don Marsh	2:50 p.m.	The fact that winter demand is bigger than summer demand isn't too comforting. Hydro is much more likely to be constrained in summer, so there is vulnerability.
Fred Huette	2:50 p.m.	thx that is helpful especially on the gas demand forecast
James Adcock	2:50 p.m.	Slide 53 Raise Hand
Fred Heutte	2:52 p.m.	responding to Don -- indications in the climate modeling generally show about the same annual precipitation in the NW -- maybe even a slight increase, but greater interannual variability so the possibility of a low hydro summer is going up a bit
Fred Huette	2:53 p.m.	on the other hand, there may be more winter hydro because of more rainfall and less snow esp. at lower elevations
Don Marsh	2:55 p.m.	Thanks, Fred!
Fred Huette	2:56 p.m.	just to say the proposed combination of 15 historical years and 15 climate-model adjusted future years makes sense -- looking forward to more in depth discussion of all this
Don Marsh	2:57 p.m.	I'm not a climate scientist, but the 15-15 combo seems reasonable. I like it until proven wrong.
Fred Huette	2:57 p.m.	the 1-in-2 (P50) approach should get further discussion
Sophie Glass	2:57 p.m.	Thanks Don and Fred. We've noted your comments.
Brian Grunkmeyer	2:59 p.m.	As Don suggested, please look at the differences between SeaTac and your service territory. This past summer, SeaTac hit 82 degrees while Redmond was 115. I don't know how to quantify the regional variability for SeaTac to Redmond, let alone the rest of your service territory.
James Adcock	3:00 p.m.	I warn "fans" of the new approach that there are a lot of problems associated with the new "climate change" modeled future temperatures, which can be easily examined statistically examining PSE published data on these "climate change" modeled future temperatures.
Sophie Glass	3:00 p.m.	Thank you, Brian and James, Noted.
Don Marsh	3:02 p.m.	Would appreciate that statistical analysis. PSE's approach is easy to understand, but could be simplistic.
Sophie Glass	3:02 p.m.	Thanks, Don. Noted.
Sophie Glass	3:07 p.m.	https://oohpseirp.blob.core.windows.net/media/Default/2022_meetings/2022_0120/2022_PSEClimateChangeDataCalcs.xlsx
Sophie Glass	3:07 p.m.	^Excel document
Sophie Glass	3:07 p.m.	Available here: https://pse-irp.participate.online/get-involved
Don Marsh	3:08 p.m.	Appreciate the Excel document.
Sophie Glass	3:20 p.m.	I see your hand Don
Willard Westre	3:20 p.m.	Are you evaluating non-hybrid heat pumps as well?
Court Olson	3:20 p.m.	On slide 56 what do the different colors represent?
Sophie Glass	3:31 p.m.	"Time Varying Rates"
Sophie Glass	3:33 p.m.	BCP - Biennial Conservation Plan

Name	Time Sent	Comment
Wendy Gerlitz	3:40 p.m.	More information on incremental costs for EE can be found in CEIP Chapter 5: Energy efficiency has a four-year incremental cost of \$150,279,000. We calculated incremental costs based on the average cost of savings in the 2022–2023 Biennial Conservation Plan (BCP) and multiplied them by the increased amount of energy efficiency in the CEIP portfolio vs. the baseline portfolio. For example, assuming the unit cost per savings from the BCP is \$100/MWh, and the energy efficiency level in the CEIP portfolio is 10,000 MWh above that of the baseline portfolio, the incremental cost in this scenario will be $\$100 \times 10,000 = \$1,000,000$. We allocated the amount of energy efficiency based on the EIA target setting method, which took 20 percent of the total 10-year savings in IRP plus five percent decoupling commitment. We provide more information on energy efficiency costs in Appendix F1.
Jacob Hibbeln	3:43 p.m.	Attention: Meeting participants can switch rooms if they would like to at this time.
Joni Bosh	3:51 p.m.	Which meeting will present forecast demand?
Joni Bosh	3:51 p.m.	Thanks
Jacob Hibbeln	3:54 p.m.	Feedback Form: https://pse-irp.participate.online/feedback-form
James Adcock	3:55 p.m.	Thanks to Sophie for good moderating!
Will Henderson	3:55 p.m.	IRP website - https://pse-irp.participate.online/
Sophie Glass	3:56 p.m.	sglass@triangleassociates.com