



Questions for Oct 24 technical conference on PacifiCorp's 2023 Integrated Resource Plan (docket 23-035-10)

1 message

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Tue, Oct 10, 2023 at 3:33 PM

Dear Ms. Saba and Utah Public Service Commission staff:

Please consider the following questions from Salt Lake City Corporation for the technical conference on PacifiCorp's 2023 Integrated Resource Plan, to be held Oct 24.

- Nuclear questions
 - For the 500 MW advanced nuclear resource selected in 2030 in the preferred portfolio, what is the resource cost and does that cost appear in the supply-side resource table?
 - Was the 500 MW advanced nuclear resource selected in 2030 "hand selected" for the preferred portfolio, or was it selected as part of a least-cost optimization? If this resource was selected as part of a least-cost optimization, what is the cost of this resource?
 - For the 1,000 additional MW of advanced nuclear resources selected by the end of 2032, what is the resource cost and does that cost appear in the supply-side resource table?
 - Was the small modular reactor nuclear supply side resource selected in any of the portfolios?
 - Would PacifiCorp consider running a preferred portfolio variant that does not allow selection of the advanced nuclear Natrium resource type but does allow selection of the small modular reactor nuclear resource?
- Long duration storage questions
 - For the long duration battery supply side resource, why were hundreds of Megawatts selected in 2028 in 4 of the 5 initial cases (P-LN, P-MN, P-HH, and P-SC), but not for the preferred portfolio case of P-MM? Were some resources "hand selected" for the P-MM resource portfolio? Please see below:

Table 9.7 – Battery, Long Duration (Installed Capacity MW)¹

Study	Installed Capacity, M											
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
P-LN	-	-	-	-	-	600	-	-	-	-	-	
P-MN	-	-	-	-	-	400	-	-	-	-	-	
P-MM	-	-	-	-	-	-	-	-	-	-	150	
P-HH	-	-	-	-	-	600	-	-	-	-	-	
P-SC	-	-	-	-	-	400	-	-	-	-	-	

- Could you please produce a slide that shows, over the course of a representative year, in which hours a selected long duration resource is shown to charge and in which hours it is shown to discharge? I'm curious to know if this supply side resource type exhibits "seasonal storage" patterns when selected within a portfolio.
- Page 172 of volume 1 of the IRP says that "In addition to battery costs provided in the WSP study, PacifiCorp added a low capital cost long duration battery technology resource." Can you please point to where this low capital cost long duration battery technology is included in the supply side resource table?
- Coal questions

- Can you please explain why a portfolio like **P04-Huntington RET 28** -- which contains an earlier coal retirement than the preferred portfolio, PMM -- shows a lower Energy Not Served value than the preferred portfolio?
- In the preferred portfolio, in what year did assumed enforcement of the ozone transport rule begin affecting coal dispatch?
- Does the tenth circuit court decision staying implementation of the ozone transport rule in Utah affect the preferred portfolio selection or the action plan, and if so, how?

Please let me know if you have any questions or concerns or would like to discuss anything else.

Best,
-Christopher



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