





 Committee of
Consumer Services  

**Utah Committee of
Consumer Services**

May 24, 2023


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**Updates: Regulatory Cases,
Collaborations, Rate Increases, Other**

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Updates: Energy Rates and Regulatory Cases

- Rates
 - Rocky Mountain Power filed its Energy Balancing Account, which includes a request for a 3.8% increase for most residential customers. (Effective July 1 on an interim basis – subject to refund)
 - Natural gas rates have stabilized, and current forecasts are for lower than recent prices. No additional price increases anticipated at this time.
- Regulatory Cases
 - Recent work has focused on technical conferences and collaborative meetings, a few smaller cases, prep for future cases, training and personal research projects
 - Final Pacificorp IRP will be filed May 31
 - MSP process has set more specific goals to reach agreement
 - Community Renewable Energy Program – still in development, work involving OCS may increase soon
 - Centurylink request to remove COLR obligations likely to be significant
 - Next general rate cases: RMP 2024 (??), DEU Spring 2025 (or sooner)

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Updates: Collaborations & Other

- Collaborations
 - Utilities
 - DEU natural gas prices
 - RMP grid modernization
 - Other
 - Pumpers
 - Low income advocates
 - Western Consumer Advocates
- Other
 - New committee members
 - Training for committee members
 - Goals for next fiscal year

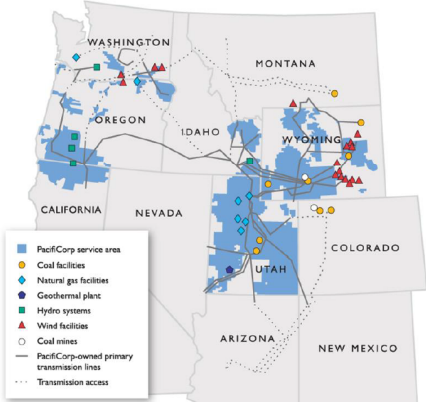
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PacifiCorp Integrated Resource Plan: Overview and Discussion

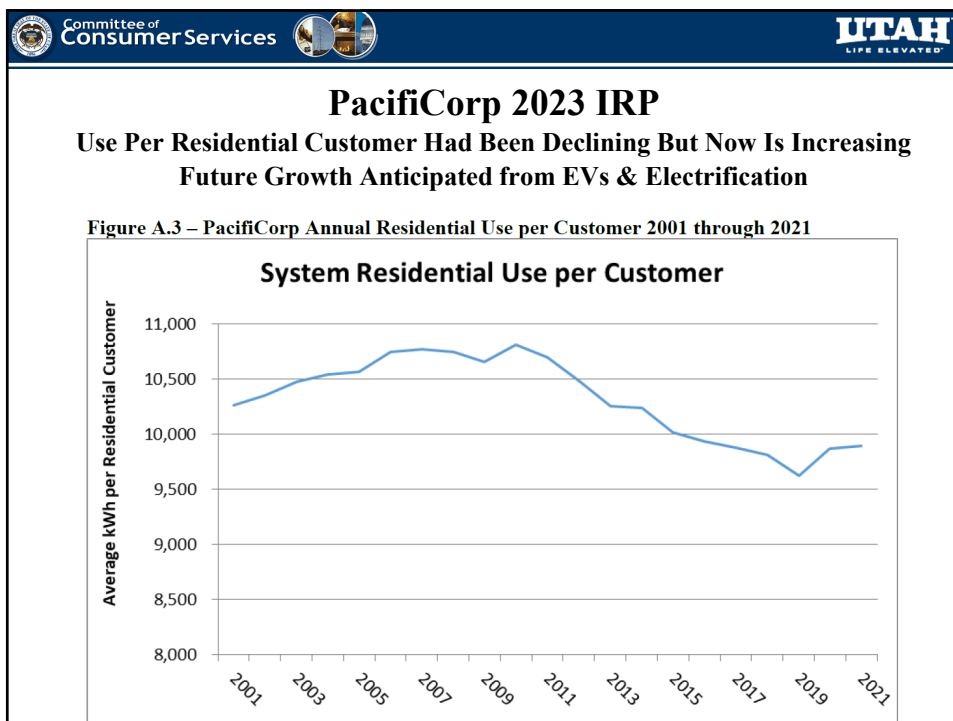
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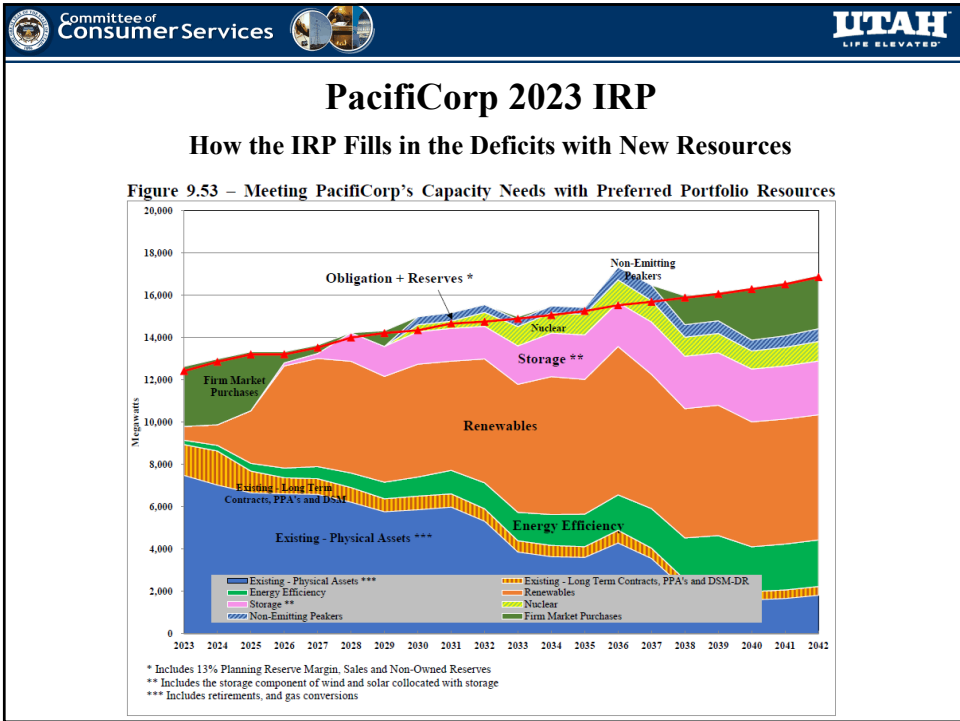
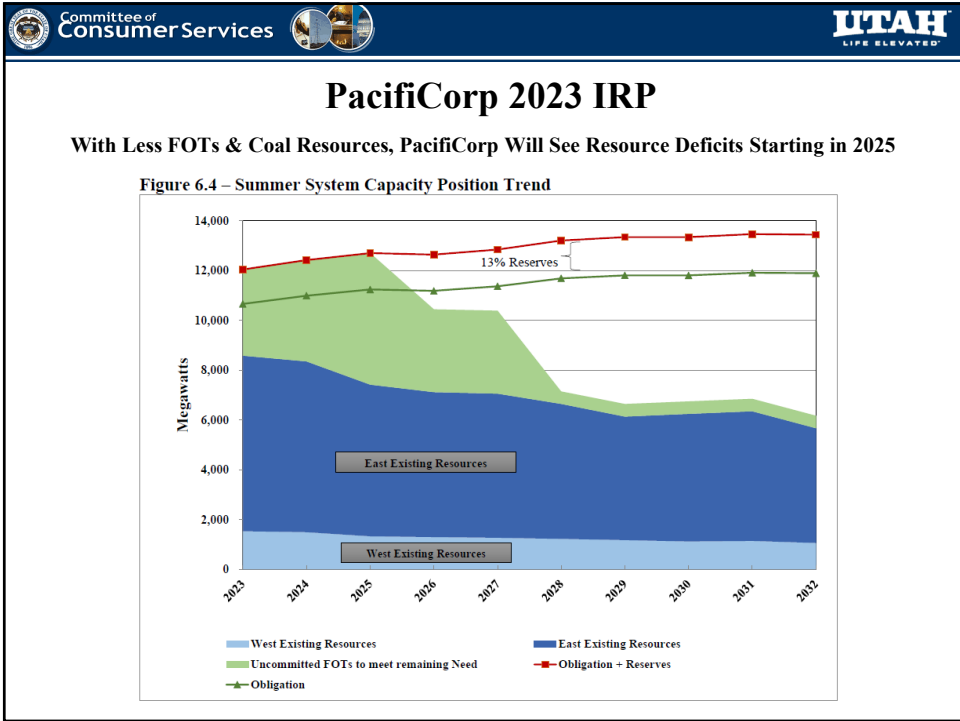
PacifiCorp 2023 IRP

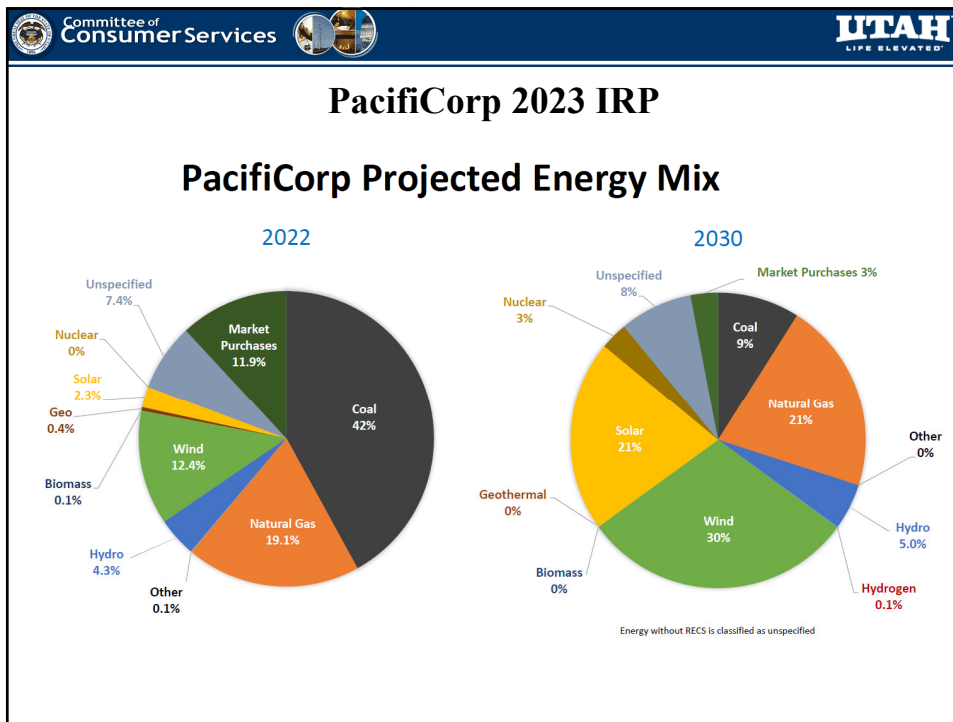
PacifiCorp Overview



- Two divisions – Rocky Mountain Power and Pacific Power
- Approximately 4,800 Employees
- 2 million electricity customers
- 141,503 square miles of service territory in six states
- 17,770 miles of transmission
- 11,597 MW owned generation capacity
- 13,195 MW 2022 peak system load







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PacifiCorp 2023 IRP

Long-term energy plan

- 9,111 megawatts of new wind resources.
- 8,095 megawatts of storage resources.
- 7,855 megawatts of new solar resources (most paired with battery storage).
- 4,953 megawatts of capacity saved through energy efficiency programs.
- 929 megawatts of capacity saved through direct load control programs.
- 1500 megawatts of advanced nuclear generation.
- 1,240 megawatts of non-emitting peaking resources that meet high-demand energy needs.

PacifiCorp 2023 IRP
Long-term energy plan: The Details (first 10 years)

Table 9.20 – PacifiCorp’s 2023 IRP Preferred Portfolio

Summary Portfolio Capacity by Resource Type and Year, Installed MW

Resource	Installed Capacity, MW										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Expansion Options											
Gas - CCCT	-	-	-	-	-	-	-	-	-	-	-
Gas - Peaking	-	-	-	-	-	-	-	-	-	-	-
Nonfirming Peaker	-	-	-	-	-	-	-	-	606	-	-
DSM - Energy Efficiency	123	220	259	197	214	219	236	261	665	112	175
DSM - Demand Response	72	39	152	109	133	81	27	16	22	-	-
Renewable - Wind	-	194	1,937	-	100	300	1,900	-	-	2,783	1,359
Renewable - Utility Solar	-	-	1,469	2,524	483	1,907	200	-	-	972	-
Renewable - Geothermal	-	-	-	-	-	-	-	-	-	-	-
Renewable - Battery	-	-	-	954	2,929	628	1,900	1,149	-	-	150
Renewable - Battery (Long Duration)	-	-	-	-	-	-	-	-	-	-	150
Storage - CAES	-	-	-	-	-	-	-	-	-	-	-
Storage - Pumped Hydro	-	-	-	35	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	500	-	500
Front Office - Selected Markets	987	1,000	1,000	-	-	-	-	-	-	-	-
Front Office Transactions - Winter	1,640	1,781	1,035	553	553	524	166	195	231	52	41
Front Office Transactions - Summer	1,683	1,874	1,637	1,525	1,535	586	547	535	587	158	83
Existing Unit Changes											
Coal Plant End-of-life Retirements	-	-	-	(82)	-	(253)	(328)	(148)	-	-	-
Coal Early Retirements	-	-	-	-	-	-	-	-	-	-	-
Coal - CCUS	-	-	-	-	-	-	-	-	-	-	-
Coal - SCR	-	-	-	-	-	-	-	-	-	-	-
Coal - SNCR	-	-	-	-	-	-	-	-	-	(418)	(1,649)
Coal - Dual Fuel	-	-	-	-	-	-	-	-	-	-	-
Coal - Gas Conversion	-	713	-	370	-	-	-	699	-	-	-
Coal Plant ceases running as Coal	-	(713)	-	(357)	-	-	-	(699)	-	-	-
Gas Plant End-of-life Retirements	247	-	-	-	-	-	-	-	-	-	-
Retire - Non-Thermal	(23)	-	-	-	-	-	-	-	-	-	-
Expire - Wind PPA	-	-	-	-	-	-	-	-	-	-	-
Expire - Solar PPA	-	-	-	-	-	-	-	-	-	-	-
Expire - QF	-	-	-	-	-	-	-	-	-	-	-
Expire - Other	-	(22)	-	-	-	-	-	-	-	-	-

PacifiCorp 2023 IRP

Renewable Resources Added by end of 2025

PacifiCorp Explains:

- What we’re doing - by 2025, we’ve identified opportunities for:
 - 1,792 MW of new wind projects
 - 1,401 MW of new solar projects
 - 698 MW of battery storage
- 2022 all source RFP for 1,345 MW of new wind and solar projects, combined with 600 MW of co-located energy storage resources by 2027



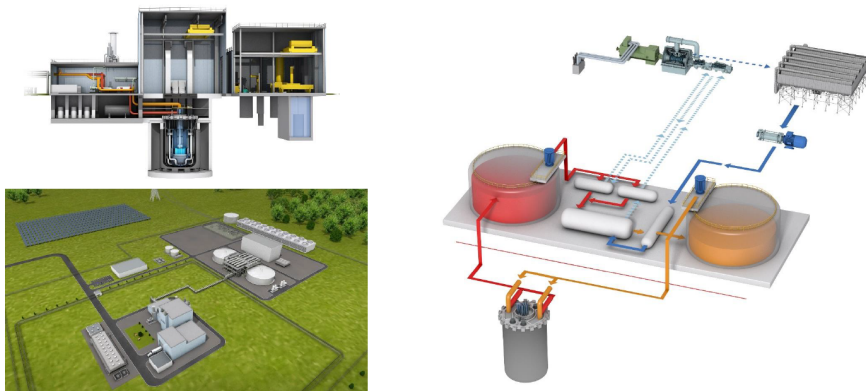

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PacifiCorp 2023 IRP

Three 500 MW Sodium Nuclear Reactors – 2030, 2032 & 2033

Advanced Nuclear Technology



The image contains three distinct visual elements related to sodium nuclear reactors. On the left, there is a cutaway diagram of a reactor core showing internal components like fuel elements and a central vessel. Below this is an aerial photograph of a nuclear power plant site with various buildings and infrastructure. On the right, a detailed 3D schematic illustrates a sodium loop system, featuring a primary sodium tank (red), a secondary sodium tank (orange), a steam generator, and a condenser, all interconnected by a network of pipes and pumps.


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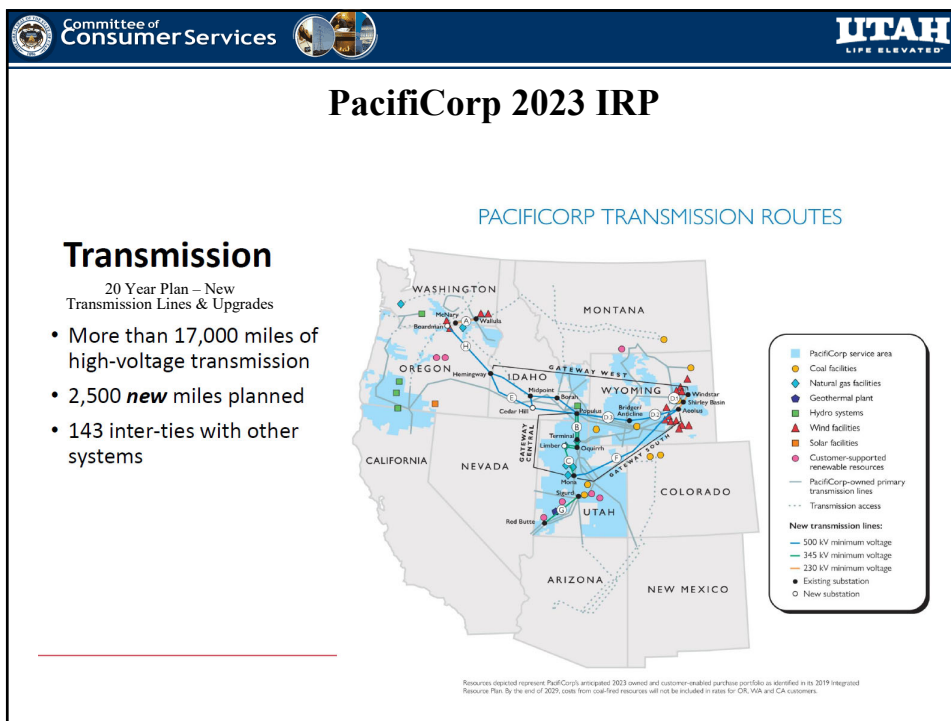
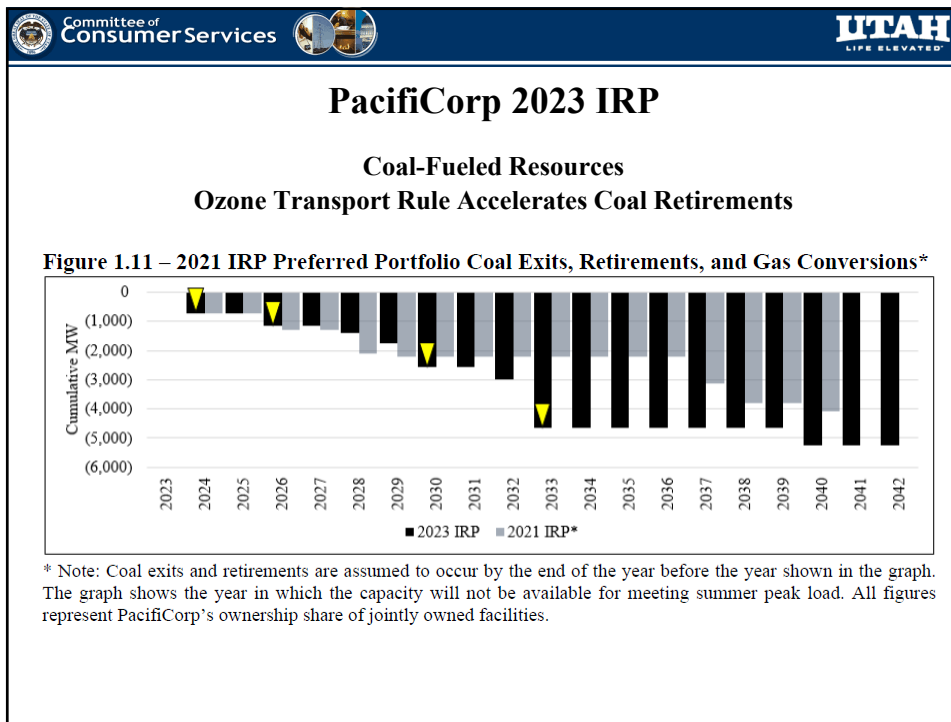
PacifiCorp 2023 IRP




Energy Storage – Lithium Ion Batteries

- 8,095 megawatts of storage
- Standalone batteries
- Batteries co-located with solar generation



The image shows an aerial view of a solar farm. In the foreground, there are several large, white, rectangular lithium-ion battery storage containers. Behind them, rows of solar panels are visible, extending into the distance. The site is surrounded by grass and some utility infrastructure.







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PacifiCorp 2023 IRP

Non-Standard Regulatory Process for 2023

- March 31 = Normal Deadline for Filing the IRP & IRP Update each year
- March 2, 2023 - PacifiCorp asked PSC for a Filing Extension & New Process
- March 31, 2023 - PacifiCorp filed a “Preliminary IRP” with PSC
- April 30, 2023 - PacifiCorp asked Stakeholders to Submit Feedback Forms
 - Feedback forms submitted to PacifiCorp directly (not to PSC)
 - Feedback forms not posted to IRP website (as usual practice)
 - PacifiCorp informed OCS that it “will provided individual replies”
- May 31, 2023 - PacifiCorp will file “Final” IRP
- PSC sets a schedule for parties to file formal comments and submit data requests
 - ~ November 30, 2023 - Initial Comments – approximately 6 months after filing
 - ~December 31, 2023 - Reply Comments – approximately 7 months after filing





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PacifiCorp 2023 IRP

OCS Stakeholder Feedback Form

Questions & Comments Submitted on the 2023 Preliminary IRP




1. Explain what modeling parameters result in no NG resources being selected
2. Perform a scenario that excludes nuclear and non-emitting peakers and also limits batteries
3. Describe how model accounts for energy needed to charge large amount of new batteries
4. Perform a scenario including a long-lasting weather event (e.g. – Sep 2022 heat event)
 - For Preferred Portfolio in a future year relying on new technology and most fossil fuel retired
5. Provide a list of capital costs of new resources by type – for Preferred Portfolio
6. Provide a customer rate impact analysis – compared to a benchmark with current costs
7. Perform a scenario where NG resources have standard parameters (e.g. normal lives)
8. Provide a discussion in the IRP of all Natrium Nuclear risks:
 - Fuel Risk - HALEU
 - Financial Risk – large cost overruns (similar to recent nuclear projects)
 - Construction delays (similar to recent nuclear projects)
 - Operational – will a first of its kind plant perform as projected
 - Nuclear waste disposal

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PacifiCorp 2023 IRP

List of OCS Issues – from 2021 IRP
These Same Issues Still Apply to the 2023 IRP

- IRP Process Delayed and Limited Stakeholder Input on Portfolio Selection
- IRP Should Assess All Technically Feasible Generating Technologies
- Natrium Nuclear is Experimental and Untested
- Recent Construction of New Nuclear Resources Plagued with Many Problems
- Non-Emitting Peaker Resources Do Not Currently Exist
- New Gas-Fired (Combustion Turbine) Resources - None are Allowed to be Selected
- Did Not Provide a Customer Rate-Impact Analysis of Adding a Substantial Amount of New Resources to the System (Generation & Transmission)

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Questions/Discussion

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Other Business/Adjourn
