



# 2019 IRP in Review

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# 2019 IRP in Review Outline

- 2019 IRP Key Assumptions
- Preferred Portfolio
- Action Plan – Updates



# 2019 IRP Key Assumptions



## Natural Gas Price Forecast

- Low: EIA High Oil and Gas Supply Case
- Planning: Platts Gas Long-Term Balances and Price Forecast
- High: EIA Low Oil and Gas Supply Case

## Carbon Price Forecast

- Low: \$0 Carbon Price
- Planning: \$22 by 2038
- High: \$108 by 2030 and beyond
- Generational: \$101 by 2035 and beyond

## Existing Resources

- Existing resource fleet
- Hydro relicensing
- PURPA wind retirements

# 2019 IRP Key Assumptions



## Load Growth

- 1.0% Growth in Average Total Load
- 1.2% Growth in Peak-Hour Load

## Coal Exits

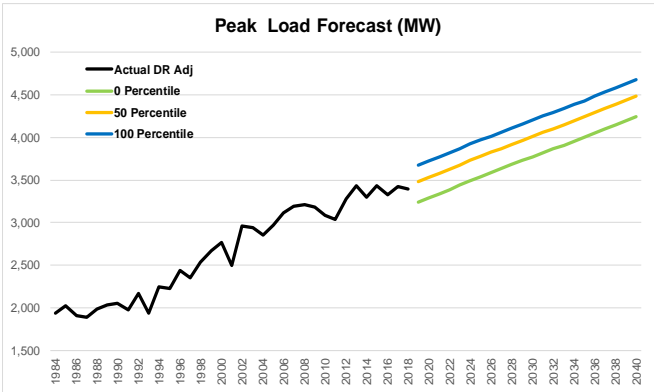
- Boardman plant – 60 MW\* (Dec. 2020)
- North Valmy plant – 260 MW (Dec. 2019, Dec. 2022)
- Jim Bridger plant – 708 MW (2022, 2026, 2028, 2030)

\*MW = Megawatt

## Resource Choices

- Renewables/Storage
- Energy Efficiency (EE)/Demand Response (DR)
- Flexible resources
- Boardman to Hemingway transmission (B2H)

# Preferred Portfolio



	PGPC B2H (1)				
	Gas	Solar	Battery	Demand Response	Coal Exit
2019					(127)
2020					(58)
2021					
2022		120			(133) (177)
2023					
2024					
2025					
2026					(180)
2027					
2028					(174)
2029					
2030		40	30	5	(177)
2031	300			5	
2032				5	
2033				5	
2034		40	20	5	
2035		80	20	5	
2036		120	10	5	
2037	56			5	
2038	56			5	
Nameplate Total (MW)	411	400	80	45	(1,026)
B2H	500				
Net Build	410				



	Gas	Solar	Battery	Demand Response	Coal Exit
2019					-127 (Valmy)
2020					-58 (Boardman)
2021					
2022		120			-177 -133 (Bridger, Valmy*)
2023					
2024					
2025					
2026					-180 (Bridger)
2027					
2028					-174 (Bridger)
2029					
2030		40	30	5	-177 (Bridger)
2031	300			5	
2032				5	
2033				5	
2034		40	20	5	
2035		80	20	5	
2036		120	10	5	
2037	55.5			5	
2038	55.5			5	
<b>Nameplate Total</b>	<b>411</b>	<b>400</b>	<b>80</b>	<b>45</b>	<b>-1,026</b>
B2H (2026)	500				

## Preferred Portfolio

# Action Plan - Updates



Year	Action	Status
2020-2022	Plan and coordinate with PacifiCorp and regulators for early exits from Jim Bridger units. Target dates for early exits are one unit during 2022 and a second unit during 2026. Timing of exit from second unit coincides with the need for a resource addition.	→ In Progress
2020-2022	Incorporate solar hosting capacity into the customer-owned generation forecasts for the 2021 IRP.	→ In Progress
2020-2021	Conduct ongoing B2H permitting activities. Negotiate and execute B2H partner construction agreement(s).	→ In Progress
2020-2026	Conduct preliminary construction activities, acquire long-lead materials, and construct the B2H project.	→ In Progress
2020	Monitor VER variability and system reliability needs, and study projected effects of additions of 120 MW of PV solar (Jackpot Solar) and early exit of Bridger units.	→ In Progress
2020	Exit Boardman December 31, 2020.	→ Completed
2020	Bridger Unit 1 and Unit 2 Regional Haze Reassessment finalized.	→ Awaiting Federal Approval
2020	Conduct a VER Integration Study.	→ In Progress
2020-2021	Conduct focused economic and system reliability analysis on timing of exit from Valmy Unit 2.	→ In Progress



# Questions?

