



# 2023 Integrated Resource Plan Public Input Meeting April 13, 2023





# Agenda

- This is a **RECORDED MEETING**
  - Approximate times shown in Pacific time zone
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- Introduction
  - 2023 IRP Filing Status
  - PacifiCorp Commitments
  - 2023 IRP Preferred Portfolio
  - Lunch (45 minutes)
  - Next Steps



# 2023 IRP Filing Update





# 2023 IRP Filing Status

- March 31, 2023 – IRP filed
  - Filed as ‘Washington Two-Year Progress Report’ in Washington State
- April 1, 2023 - Extended Comment Period Begins\*
  - [Integrated Resource Plan \(pacificorp.com\)](http://pacificorp.com)
- April 14, 2023 – Public Data Disks Supplement
- April 30, 2023 – Extended Comment Period Ends
- May 1, 2023 – Confidential Data Disks Supplement
- May 1, 2023 – Sensitivities Supplemental Filing
- May 31, 2023 – IRP Addendum and Errata Filing
  - Oregon Clean Energy Plan Filing

\* This is the IRP extended comment period, not the comment period for state acknowledgements



# PacifiCorp Commitments





# OUR COMMITMENTS

## **Prioritizing savings and value for our customers**

We've captured over \$591 million in savings for our customers by leading the way in establishing more innovative markets, enabling us to deliver reliable service at rates 27% below the national average. Soon, we'll evolve how we buy and sell electricity even further to secure greater economic and reliability benefits for customers.

## **Expanding clean power**

Through smart investments that keep costs low, we're on track to deliver over 20,000 megawatts of wind and solar energy by 2032.



# OUR COMMITMENTS

## Building storage capacity

We're working toward an energy storage capacity of nearly 7,400 megawatts by 2029.

## Investing in transmission

Making progress on our ambitious Energy Gateway plan to add 2,500 miles of new transmission lines, we're continuing to strengthen the connectivity between the Pacific Northwest and the Rocky Mountains to meet rising customer demand, while connecting clean energy across our system for a more resilient grid.



# ROAD MAP - Resources

The 2023 IRP outlines PacifiCorp's bold vision for the West between now and 2042 and sets us on the path to:

- Continue our growth toward a grid powered by clean energy:
  - 9,111 megawatts of new wind resources.
  - 8,095 megawatts of storage resources, including batteries co-located with solar generation, standalone batteries and pumped hydro 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.
  - 500 megawatts of advanced nuclear (Natrium™ reactor demonstration project) in 2030, with an additional 1,000 megawatts of advanced nuclear over the long term.
  - 1,240 megawatts of non-emitting peaking resources that meet high-demand energy needs.





# ROAD MAP - Transmission

- Connect and optimize diverse, clean resources across the West with a strengthened and modernized transmission network that provides resilient service, reduces costs and creates greater opportunities for our communities to thrive:
  - 416 miles of new transmission from the new Aeolus substation near Medicine Bow, Wyoming, to the Clover substation near Mona, Utah (Energy Gateway South).
  - 290 miles of new transmission from the Longhorn substation in north central Oregon to the Hemingway substation in south central Idaho (Energy Gateway Segment H).
  - 200 miles of new transmission from the new Anticline substation near Point of Rocks, Wyoming, to the existing Populus substation near Downey, Idaho (Energy Gateway West Sub-Segment D3).



# ROAD MAP – Transmission, continued

- Connect and optimize diverse, clean resources across the West with a strengthened and modernized transmission network that provides resilient service, reduces costs and creates greater opportunities for our communities to thrive:
  - 150 miles of new transmission from the Anticline substation near Point of Rocks, Wyoming, to Shirley Basin substation in southeastern Wyoming (Energy Gateway West Sub-Segment D2.2).
  - 59 miles of new transmission from the Shirley Basin substation in southeastern Wyoming to the Windstar substation near Glenrock, Wyoming (Energy Gateway West Sub-Segment D1).
  - Additional local transmission upgrades to enable renewable resource requests to connect to the transmission system in southeast Idaho, central Utah, central Oregon, the Willamette Valley in Oregon, and in Yakima and Walla Walla, Washington.

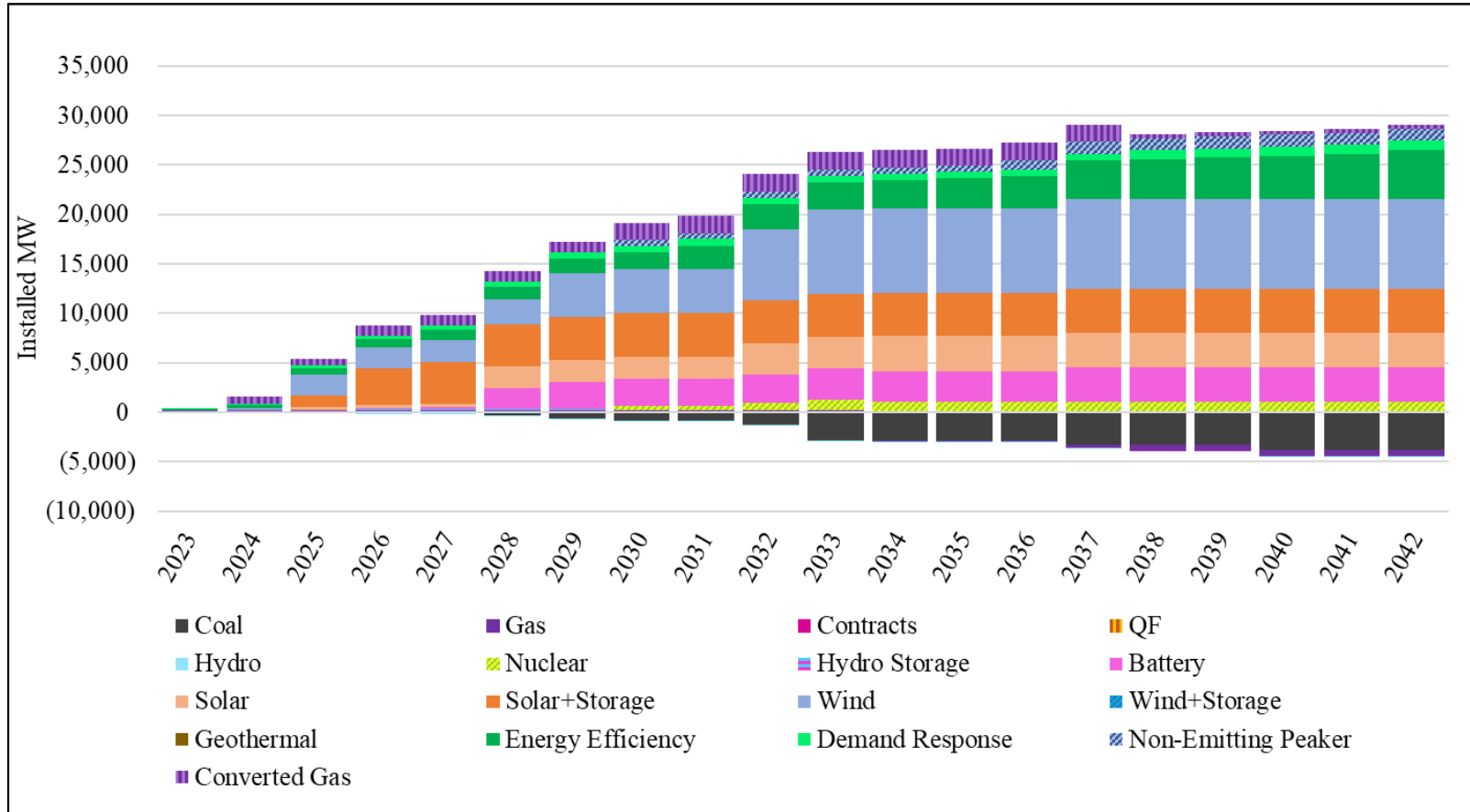


# 2023 IRP Preferred Portfolio



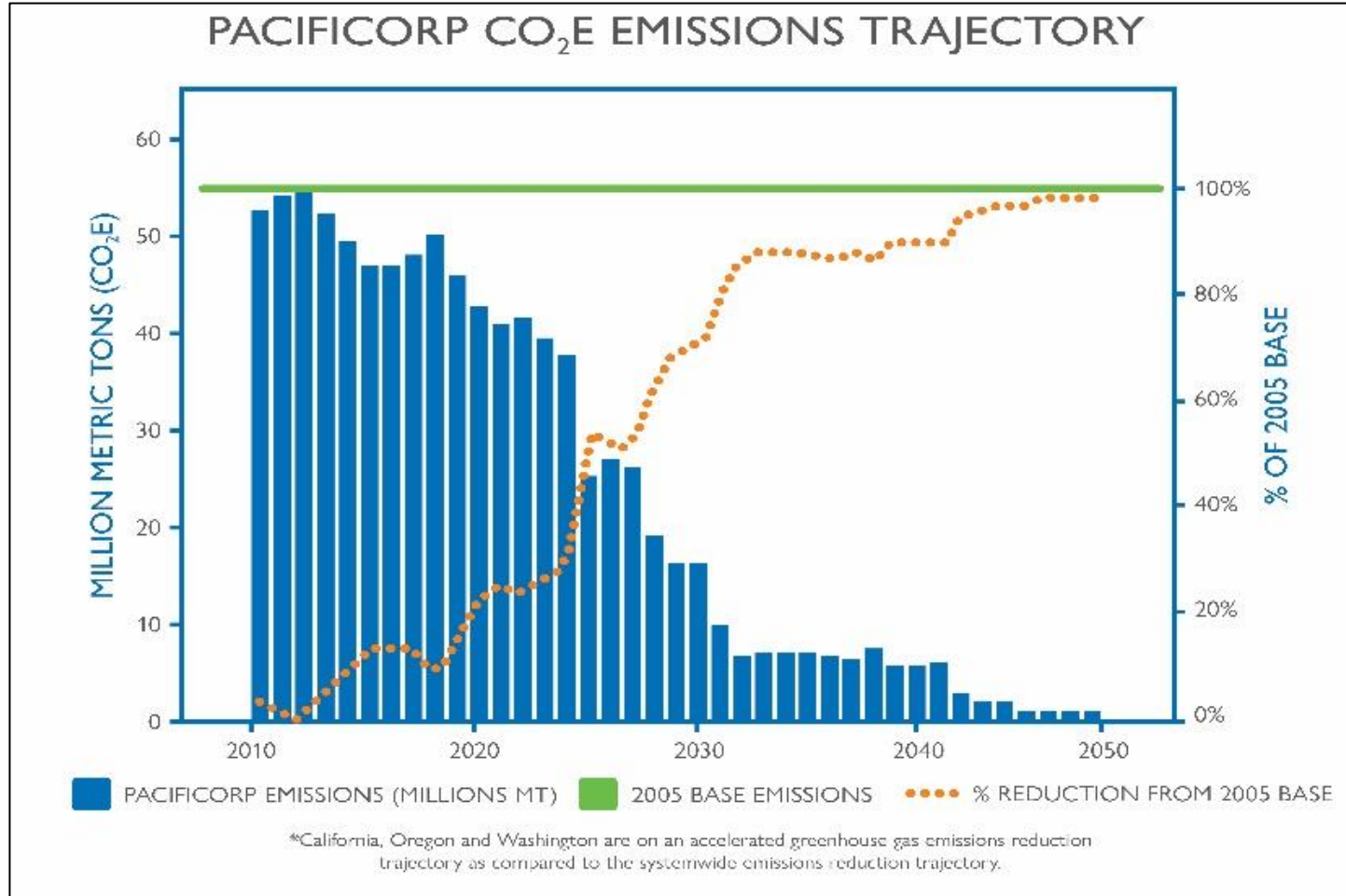


# Preferred Portfolio - All Resources



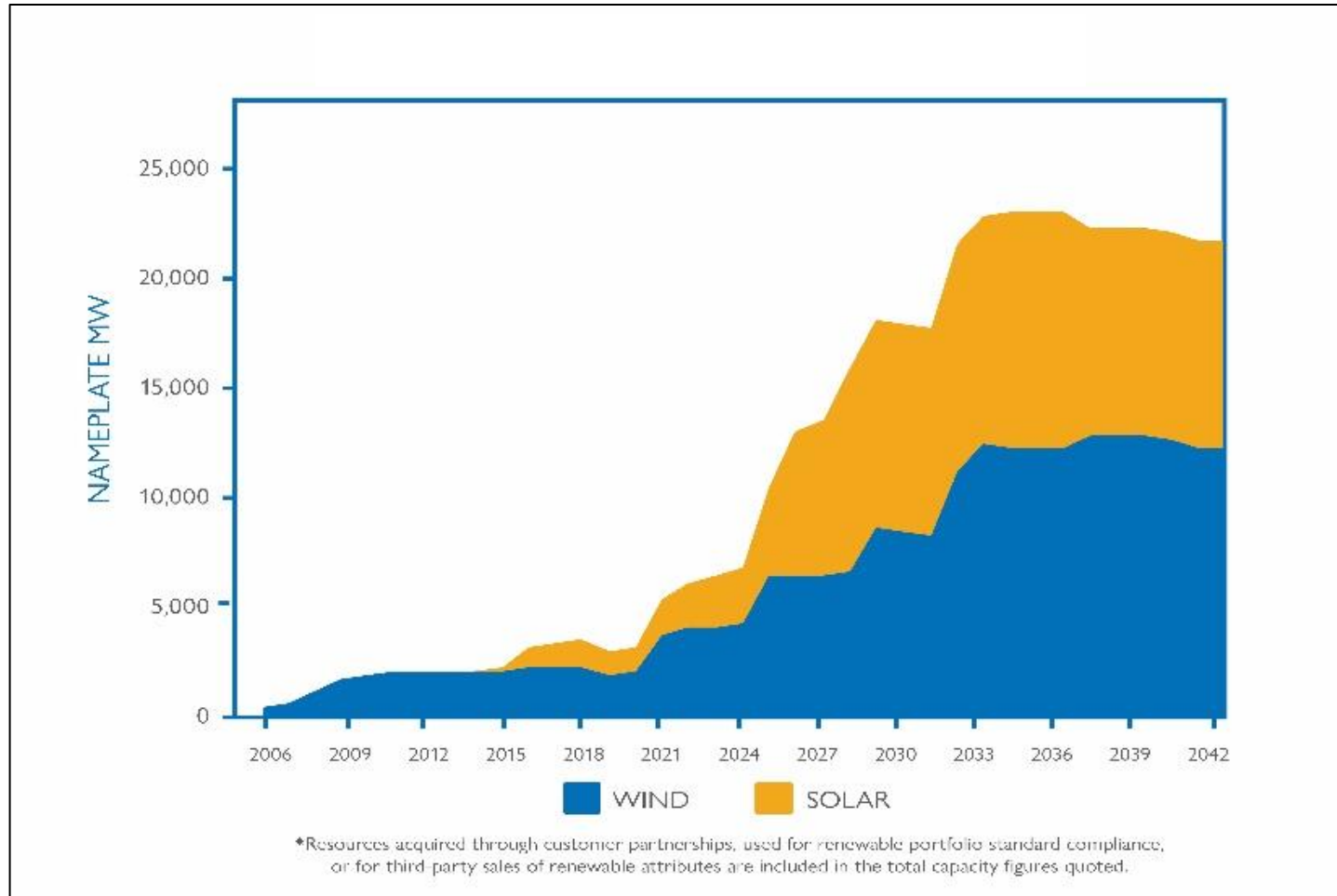


# Emissions



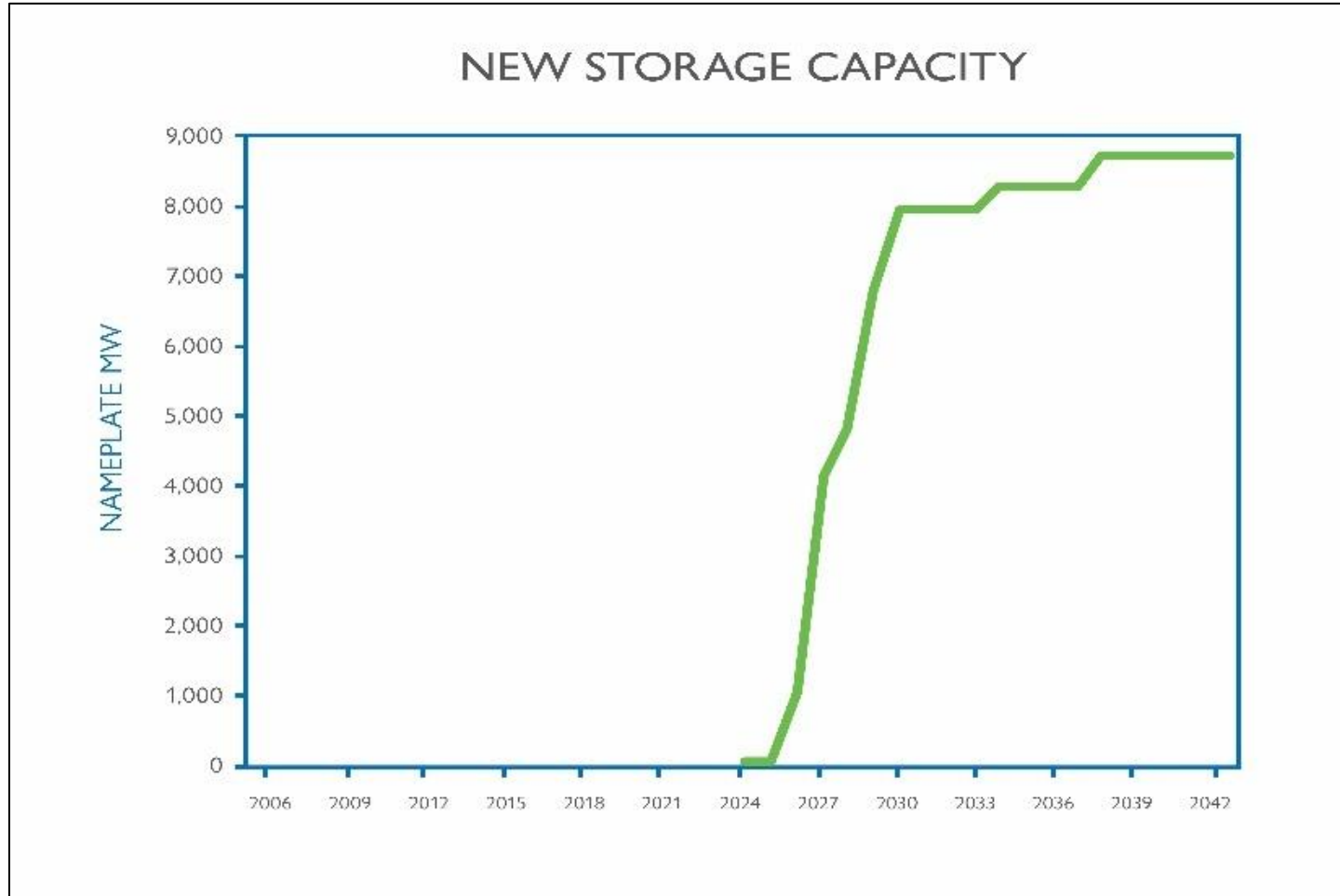


# Wind and Solar



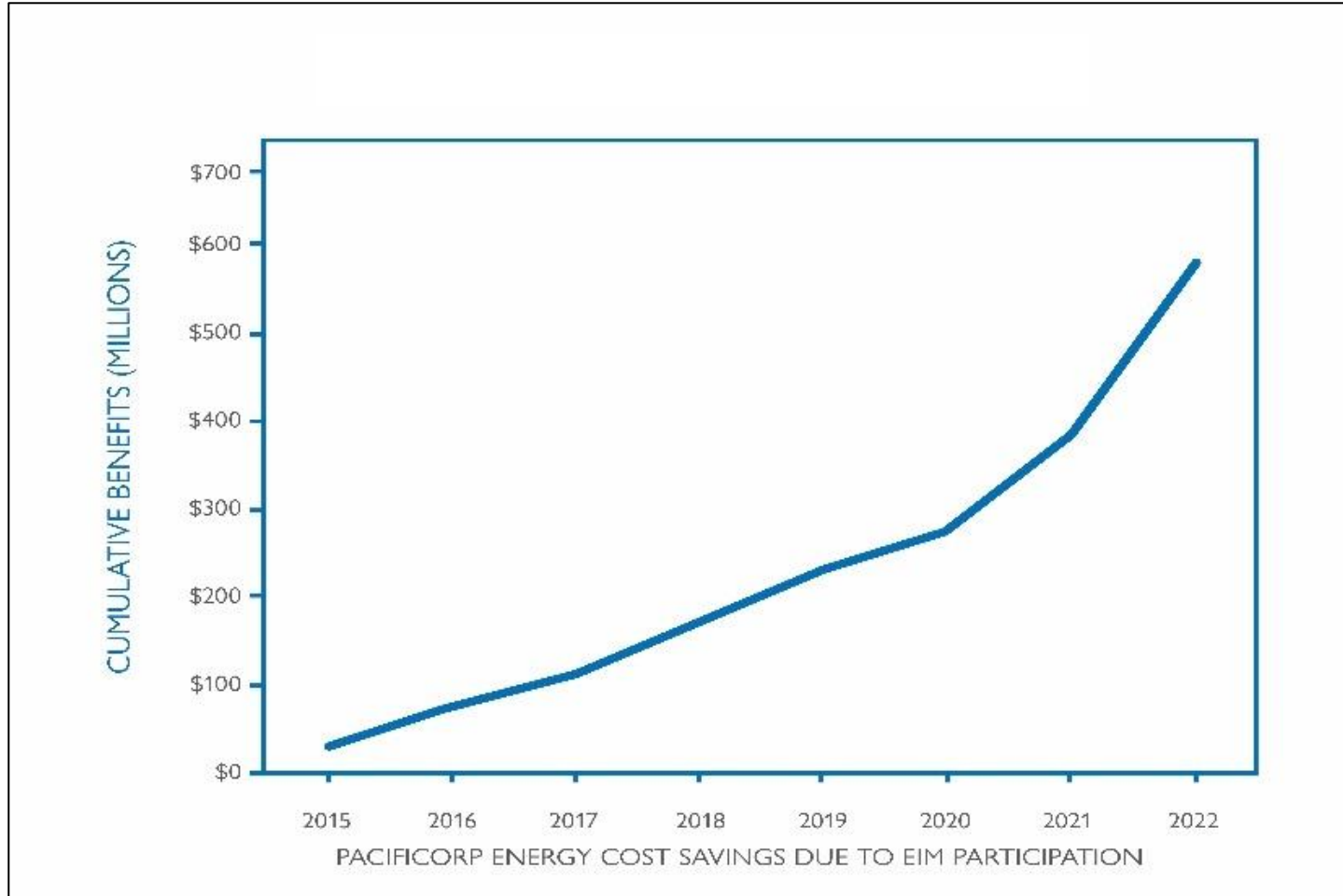


# New Storage Capacity





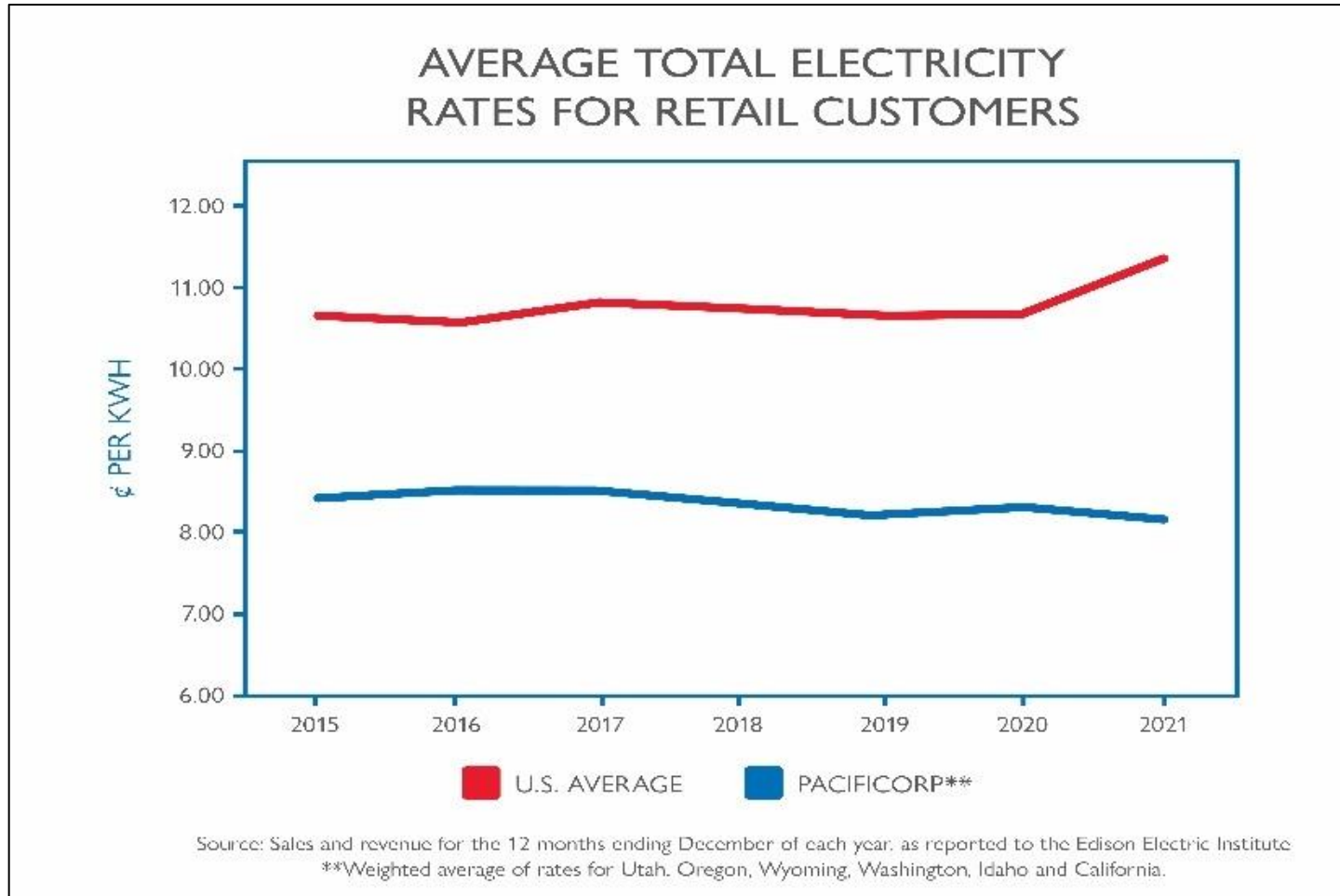
# Energy Cost Savings







# Electricity Rates





# Evolving Our Portfolio

Working in close partnership with our communities, we are making significant progress in our evolution toward an increasingly clean and cost-effective portfolio. In the coming years, we will:

- Continue the process of coal-to-gas conversion of Jim Bridger Units 1 and 2 in Rock Springs, Wyoming, by 2024.
- Begin the process of coal-to-gas conversion of Naughton Units 1 and 2 in Kemmerer, Wyoming, for completion by 2026
- Retire Dave Johnston Units 1, 2 and 3 in Glenrock, Wyoming, in 2027 and 2028.
- Begin the process of coal-to-gas conversion of Jim Bridger Units 3 and 4 by 2030.
- Exit the Colstrip project in Montana by January 1, 2030.
- Retire Hunter Units 1, 2 and 3 in 2031 and 2032. Retire Huntington Units 1 and 2 in 2032.

Throughout this process, we are collaborating closely with affected communities and with state leadership to support a successful transition for our employees and their communities.



# Building Partnerships

- Making electric vehicle ownership more accessible for customers and communities
  
- Co-creating energy solutions for the grid of the future
  - Wattsmart® battery program
  - Oregon Community Solar Program
  
- Planning for innovative storage resources
  - 11 pumped hydro feasibility studies in Utah, Wyoming, Oregon, Idaho and Washington
  
- Partnering for advanced nuclear
  - TerraPower and the U.S. Department of Energy



# Connectivity, Resiliency – Energy Gateway



This map is for general reference only and reflects current plans. It may not reflect final routes, construction sequence or exact line configuration.

# Energy Efficiency / Demand response

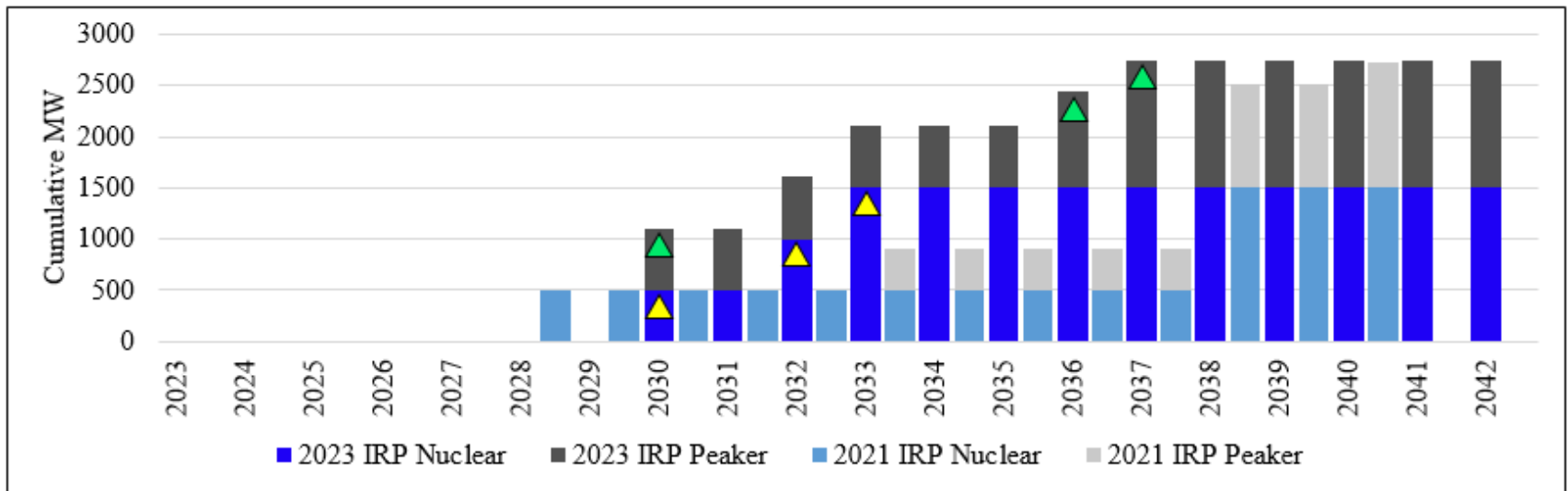


- In the coming years, our ongoing conservation and cost-effective demand-response initiatives will seek to deliver:
  - 799 megawatts of energy efficiency between 2023 and 2026
  - 372 megawatts of demand response between 2023 and 2026



# Nom-emitting Resources

- 500 MW Sodium™ demonstration project is scheduled to come on-line by summer 2030. 1,500 MW of advanced nuclear by 2032.
- 606 MW of non-emitting peaking resources by 2030; 1,240 MW by 2037.
- New technologies are critical to the transition to clean energy.





# Wrap-Up/Additional Information





# Additional Information

- 2023 IRP Upcoming Public Input Meetings:
  - TBD
- Public Input Meeting and Workshop Presentation and Materials:
  - [pacificorp.com/energy/integrated-resource-plan/public-input-process](https://pacificorp.com/energy/integrated-resource-plan/public-input-process)
- 2023 IRP Stakeholder Feedback Forms:
  - [pacificorp.com/energy/integrated-resource-plan/comments](https://pacificorp.com/energy/integrated-resource-plan/comments)
- IRP Email / Distribution List Contact Information:
  - [IRP@PacifiCorp.com](mailto:IRP@PacifiCorp.com)
- IRP Support and Studies:
  - [pacificorp.com/energy/integrated-resource-plan/support](https://pacificorp.com/energy/integrated-resource-plan/support)