



PacifiCorp

2021 Integrated Resource Plan

Washington Utilities and Transportation Commission
October 3, 2023



PacifiCorp's Commitment to Equity

At PacifiCorp, we continue on our journey of fostering equity in the six states we serve, while building a diverse, equitable and inclusive workplace – one that welcomes and celebrates our differences and is reflective of the communities in which we live and work. We respect and cherish the rich diversity of our customers, partners, suppliers and employees and seek to always learn how we can grow on this journey.



We are committed to:

- Enabling access to electric service in underserved communities and for customers with low incomes
- Partnering with state and local governments to advance equitable access to energy innovation, including electric vehicles and transportation
- Seeking ways to advance supplier diversity while ensuring inclusive bidding opportunities and other business practices
- Advancing equity through community grants made through the PacifiCorp Foundation
- Maintaining strong relationships with Sovereign Tribal Nations and Native communities in our service regions
- Offering multi-lingual resources to our customers and communities while being multiculturally conscious
- Being a supportive employer for veterans and active-duty service members
- Championing employee resource groups for employees who identify as: Asian and Pacific Islander; Black; Latino, Latina and Latine; LGBTQ+; Veterans; Women; and their allies

CETA Targets

By the end of **2025**, each utility must remove coal-fired resources from its allocation of electricity to Washington retail electric customers

Beginning in **2030**, each utility must ensure all retail sales of electricity to Washington electric customers are greenhouse gas neutral

Beginning in **2045**, each utility must ensure that non-emitting electric generation and electricity from renewable resources supply 100% of all retail sales of electricity to Washington electric customers.



2021 Integrated Resource Plan Milestones

- On September 1, 2021, PacifiCorp filed its 2021 Integrated Resource Plan (IRP) with the Washington Utilities and Transportation Commission (WUTC), docket no. UE-200420
- A substantial supplemental filing was made on September 30, 2021
- On April 4, 2022, the company filed the 2021 IRP update in the same docket
- On March 31, 2023, PacifiCorp filed its 2021 IRP Two-Year Progress Report
- On May 31, 2023, PacifiCorp filed its Washington 2021 IRP Two-Year Progress Report (Amended Final)

ROAD MAP - Resources

- The 2021 Two-Year Progress Report outlines PacifiCorp's bold vision for the West between now and 2042.
- The trajectory of PacifiCorp's system continues to be well-aligned with CETA objectives, and with Federal and State policies
- Results of the Two-Year Progress Report 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 (Sodium™ 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.

Portfolio Developments

Change in Supply-Side Portfolio Incremental Capacity Allocated to Washington Customers (MW)

Category	2021 IRP P-SC-CETA	Two-Year Progress Report W-10 CETA	Change
New Hydro Storage	25	2	(23)
New Non-emitting Peaking	67	82	15
New Nuclear	87	99	11
New Solar, Solar + Storage	448	677	228
New Wind, Wind + Storage	430	849	419
New PVS Batteries	338	282	(56)
New Stand Alone Battery	45	321	276

Development of a CETA Portfolio

1

Develop a systemwide portfolio optimized under the social cost of greenhouse gas price policy.

2

Washington-allocated generation outcomes are analyzed relative to CETA clean energy targets (2030 and 2045) and goals (no coal after 2024).

3

Final CETA-compliant portfolio is developed and identified, called W-10 CETA in the 2023 IRP and becomes the CEIP Portfolio.

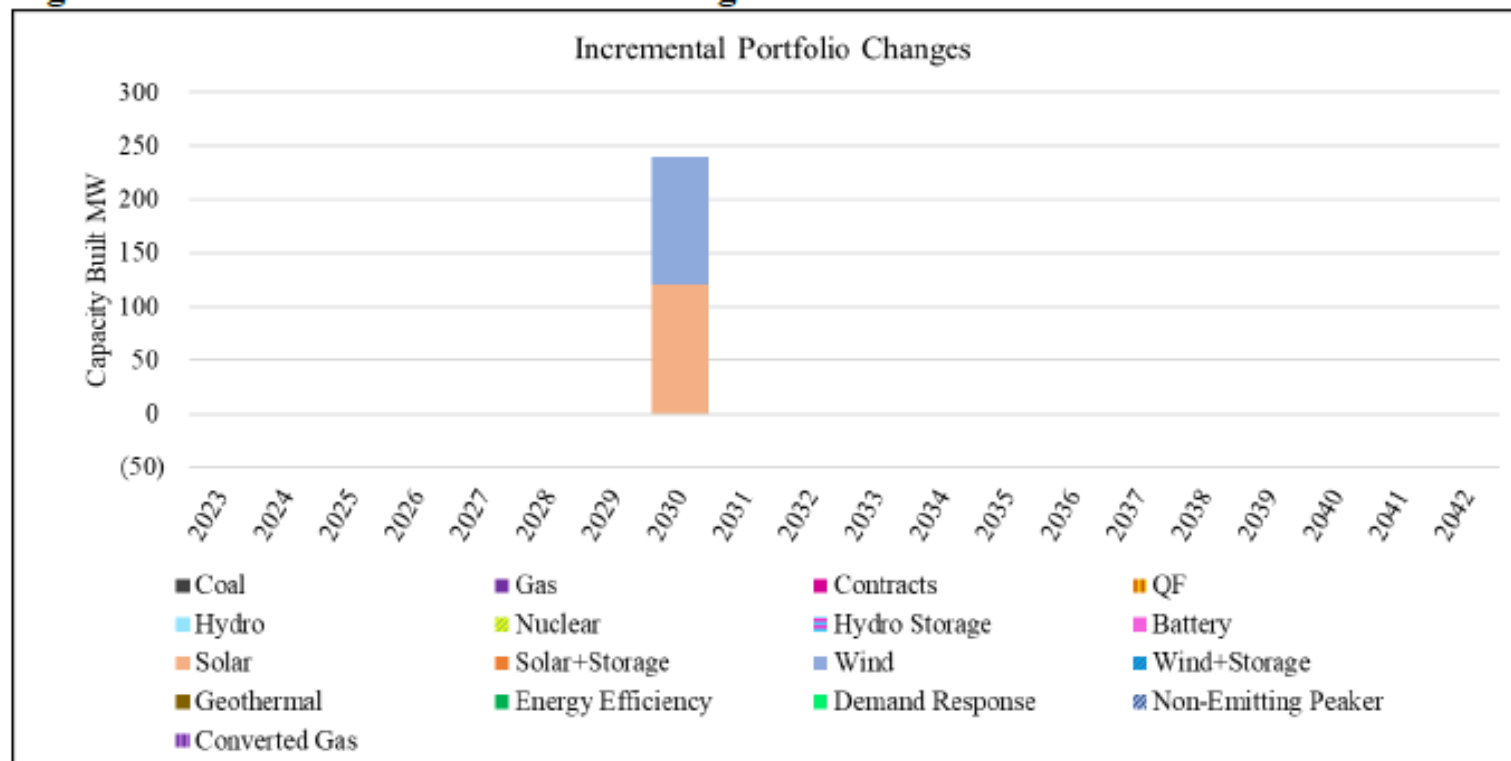
P-SC

- P-SC used as the base
- Identify compliance shortfalls in 2030 and 2045
- Add incremental situs renewable resources for WA

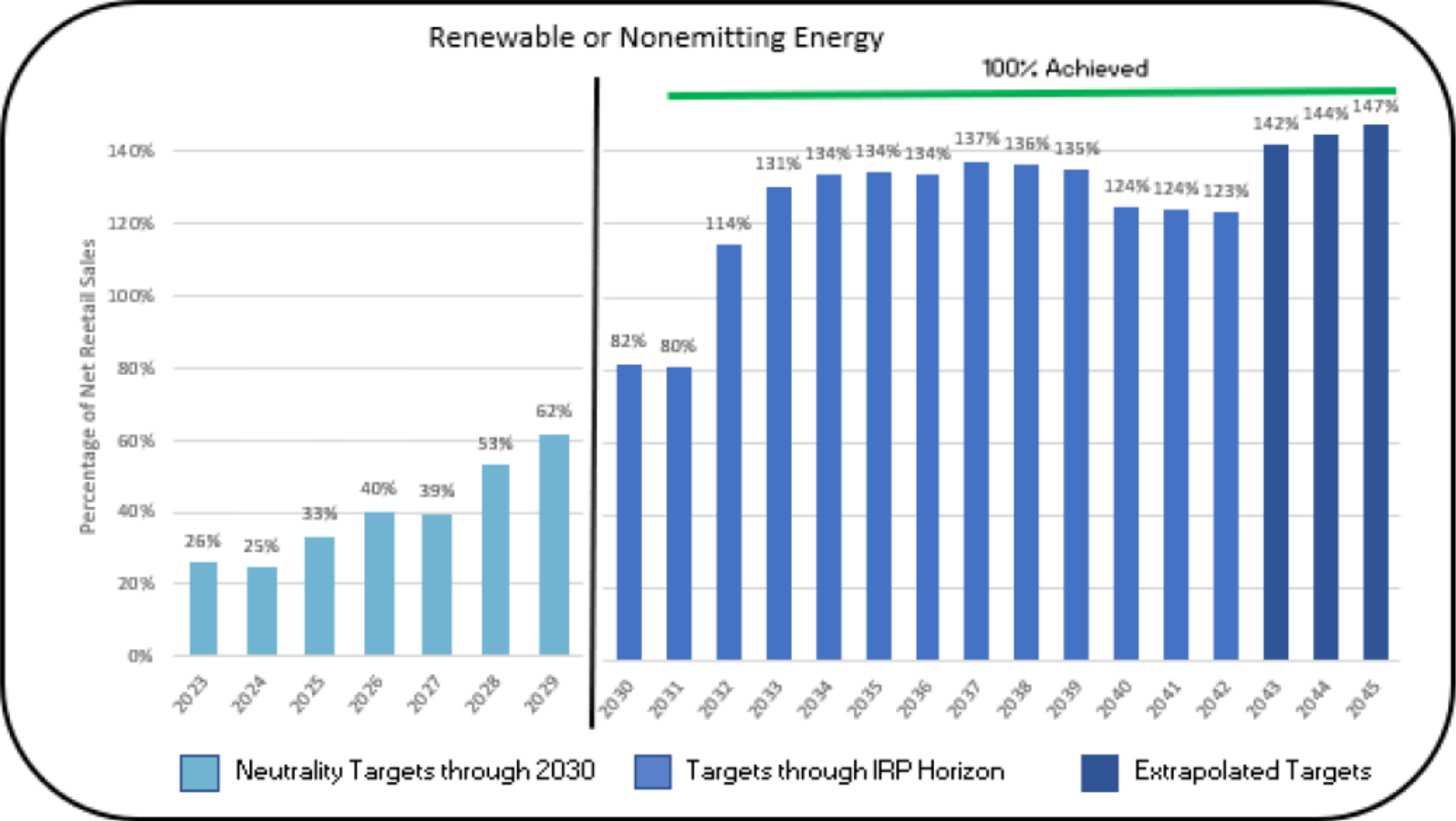
W-10 CETA

Additional Incremental Outcomes

Incremental resource additions for Washington customers to meet CETA compliance targets (based on P-SC)



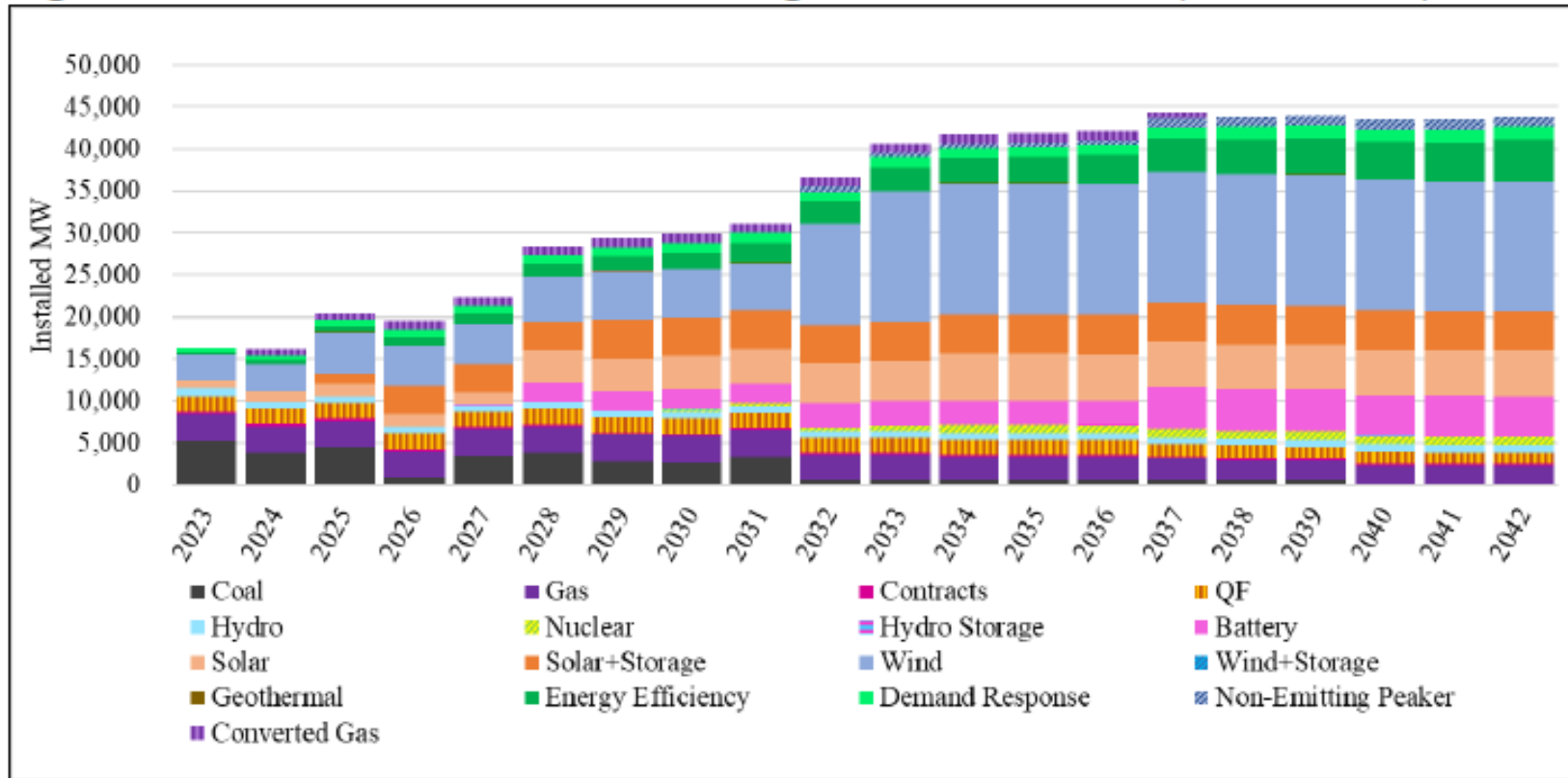
2023 Biennial CEIP Update Interim Targets



2023 Biennial CEIP Updated Interim Targets (from 2023 IRP Filing)

CETA Systemwide Outcome

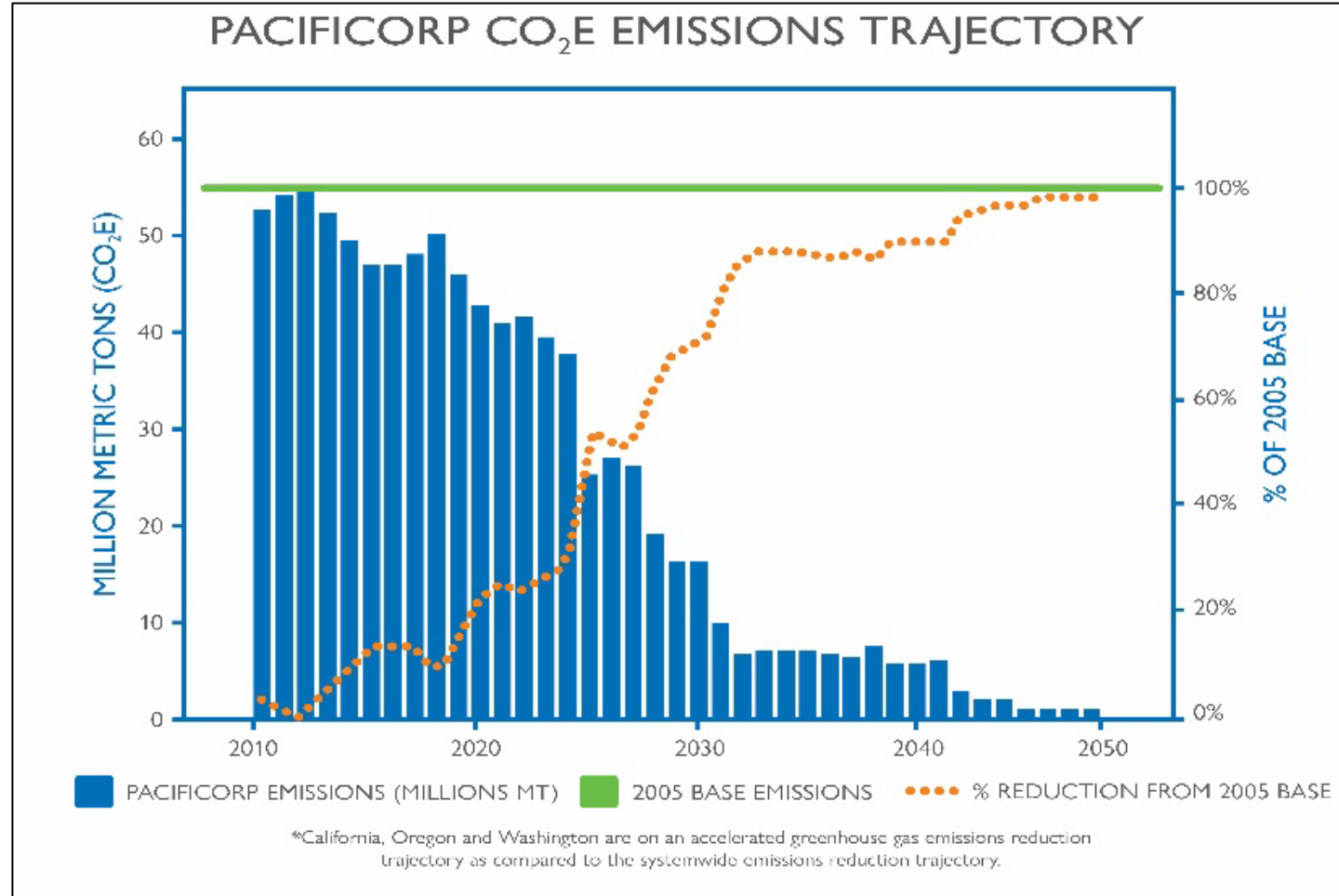
All Portfolio Resources: W-10 CETA (systemwide)



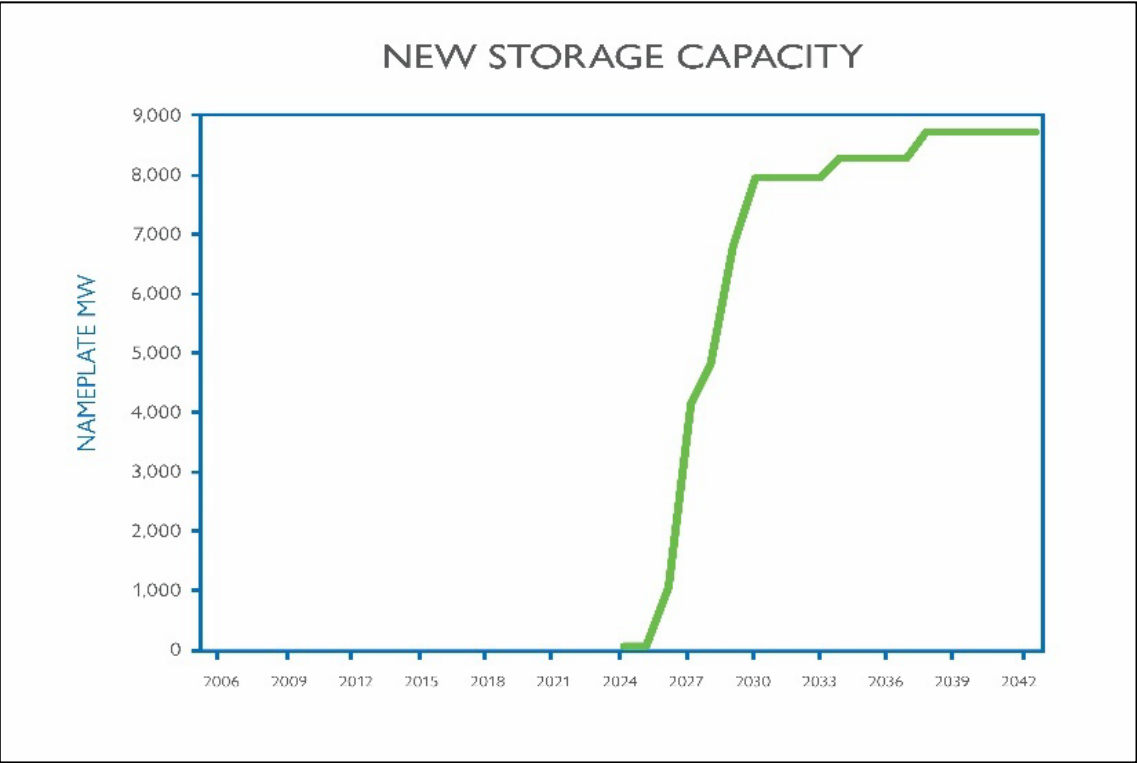
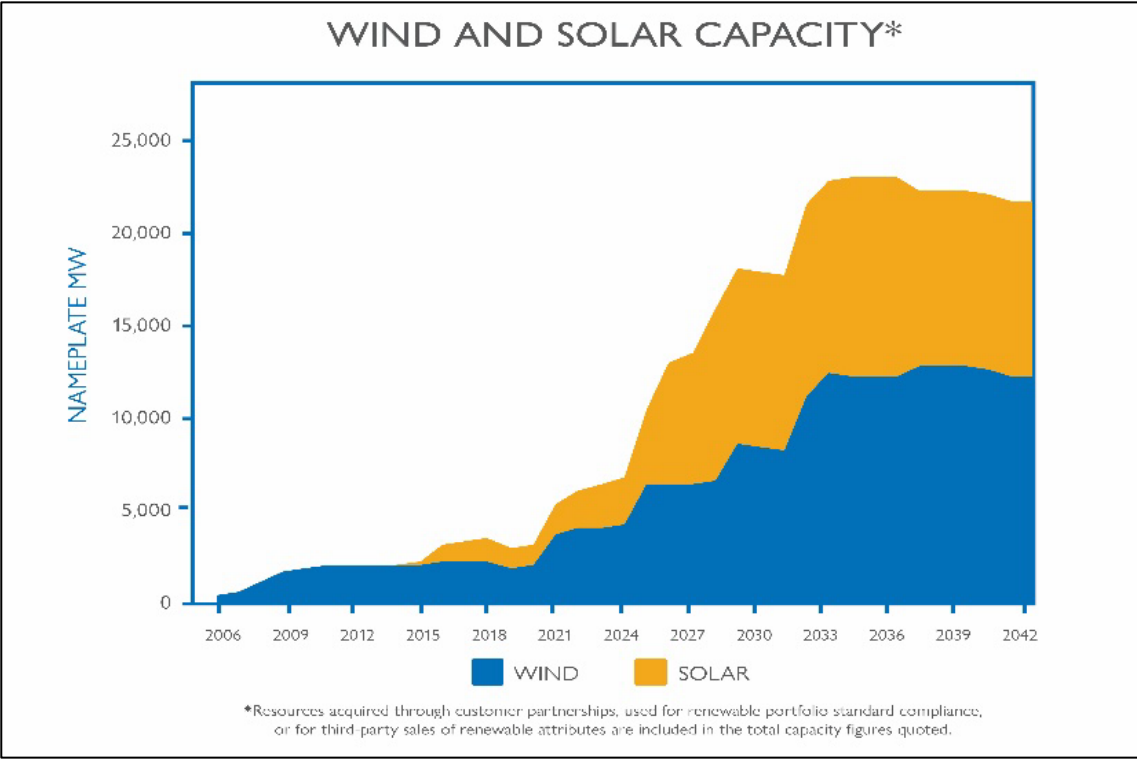
Non-emitting Resource Additions

Two-Year Progress Report W-10 CETA Incremental Capacity (MW)		
Category	System	WA-allocated
New Hydro Storage	35	2
New Non-emitting Peaking	1,240	82
New Nuclear	1,500	99
New Solar, Solar + Storage	8,587	677
New Wind, Wind + Storage	12,917	849
New PVS Batteries	4,290	282
New Stand Alone Battery	4,881	321

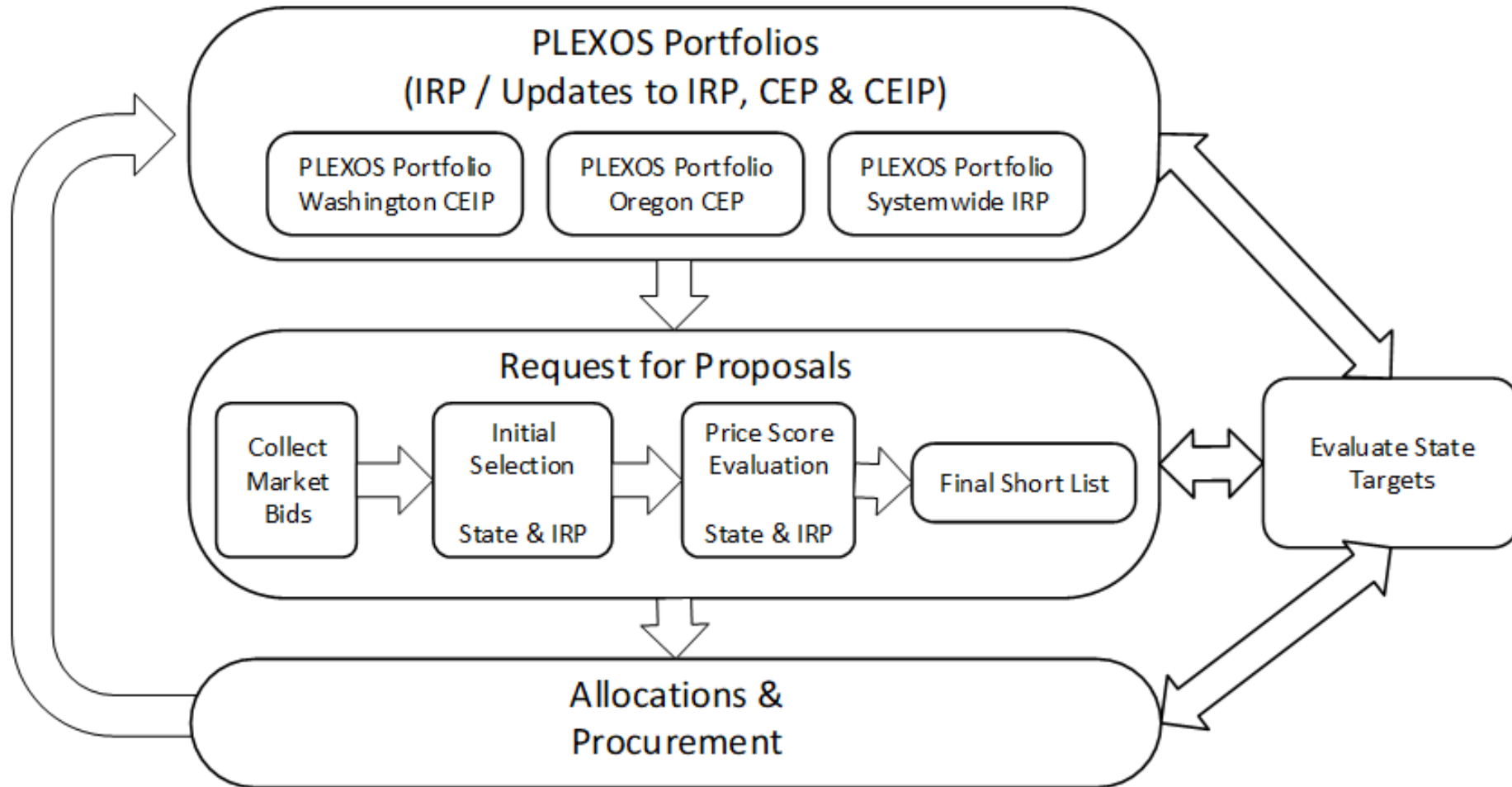
Emissions



Wind, Solar and Storage



Resource Planning and Action Strategy



Looking Forward

- 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
 - [12 pumped hydro feasibility studies in Utah, Wyoming, Oregon, Idaho and Washington](#)
- Partnering for advanced nuclear
 - [TerraPower and the U.S. Department of Energy](#)