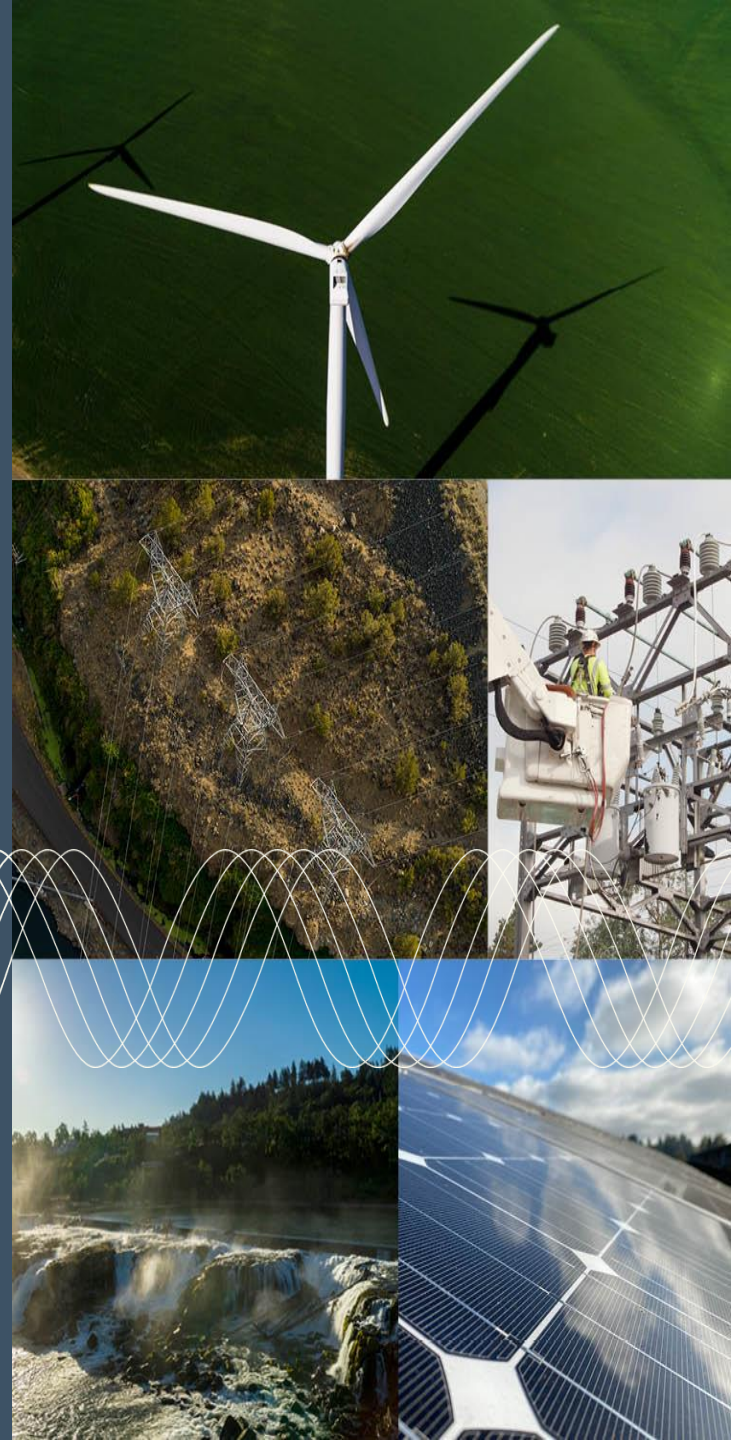


PGE EDAM Overview

Tiffany Emerson, Manager Planning & Strategy | EDAM

February 2025



About Portland General Electric

Quick facts

- PGE serves approximately 940,000 customers in 51 incorporated cities across Oregon.
- We have approximately 2,840 employees.
- Continued position as #1 ranked renewable power program in the U.S. for 14 years according to the National Renewable Energy Laboratory (2023).⁽¹⁾
- In 2023, PGE employees, retirees and the PGE Foundation donated nearly \$4.6 million and volunteered over 23,000 volunteer hours to more than 400 nonprofit organizations.

Affordable, Reliable, Clean Energy for Customers

- Driven by our customers and our region, PGE is focused on decarbonizing our energy supply, electrifying for the benefit of everyone, and hardening the grid to reduce the risk of extreme weather and wildfire – all while keeping energy prices as low as possible.
- House Bill 2021, passed by the Oregon Legislature, sets targets for reducing greenhouse gas (GHG) emissions from electricity served to retail customers, ensuring a pathway to 100% clean energy, with an 80% reduction by 2030 and 100% reduction by 2040

3,500+ MWs of Generation



(1) NREL did not release rankings in 2011



CAISO's Extended Day Ahead Market

The Extended Day-Ahead Market (EDAM) is an energy market framework developed by the California Independent System Operator (CAISO) to expand its day-ahead energy trading capabilities beyond its current footprint, enabling regional market participation.

- **The EDAM Will:**

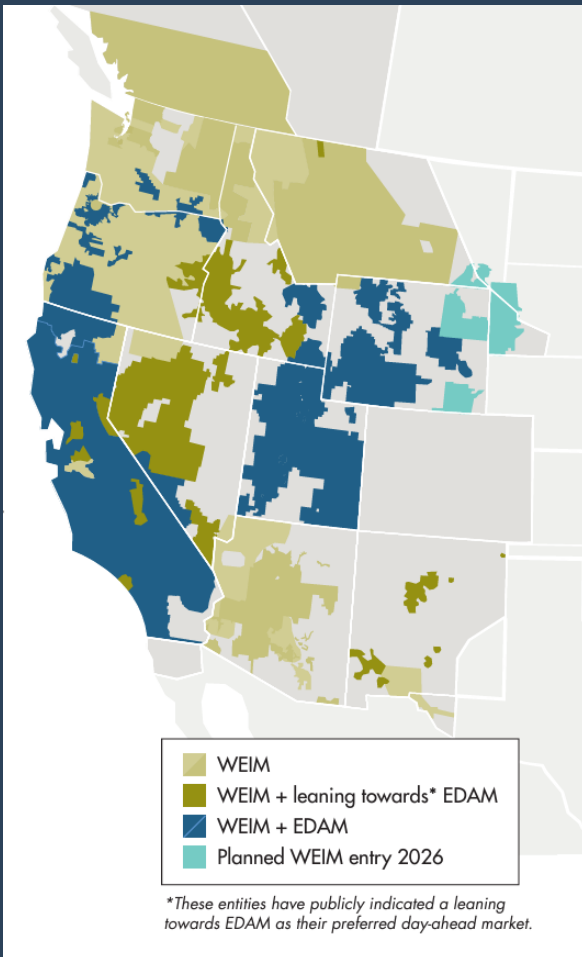
- Enhance grid reliability and resource optimization across a larger geographical area
- Provide cost efficiencies through shared access to diverse energy resources with energy savings benefits of \$6-23 million
- Support integration of renewable energy and reduce curtailment

- **Key Features:**

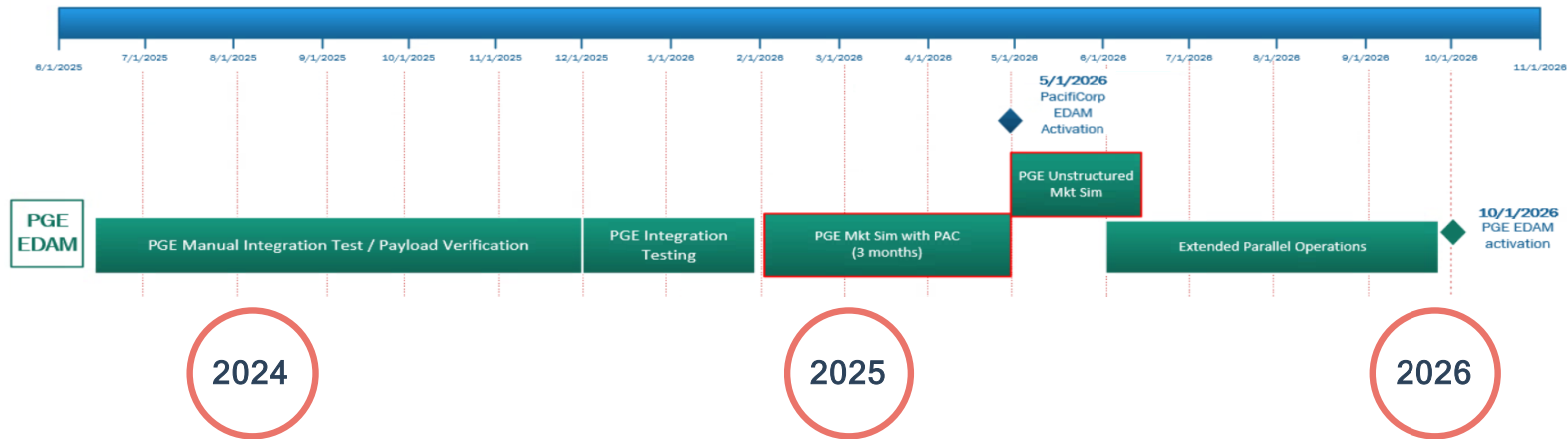
- **Day-Ahead Market Expansion:** Builds on CAISO's existing market to include utilities and balancing authorities outside its traditional service area
- **Resource Coordination:** Leverages geographic and resource diversity for better balancing of energy supply and demand
- **Transmission Optimization:** Facilitates optimized use of available transmission capacity across participants.
- **Body of State Regulators:** State Commissioners provide oversight to market rules and governance changes

- **Benefits:**

- **Economic Savings:** Lower operational costs and reduced need for redundant reserves with expected energy benefits of \$6-23 million, depending on market footprint
- **Environmental Impact:** Improved integration of renewable resources, lowering greenhouse gas emissions
- **Enhanced Market Transparency:** Standardized market rules and competitive price discovery



PGE EDAM Implementation Overview



- Day Ahead Market Comparative Analysis (Q1)
- **Implementation Agreement Milestone** July 2, 2024
- Implementation Gap Analysis (Q3)
- CAISO EDAM Track Process (Q3)
- Form PGE Implementation Team (Q4)
- PGE Vendor Selection Process (Q4)

- File Open Access Transmission Tariff (Q1)
- Finalize PGE Asset Configuration (Q2)
- **Resource Modeling Milestone** October 1, 2025
- CAISO facing System Solutions (Q4)
- **Joint Integration Testing Milestone** December 1, 2025

- **Market Simulation Milestone** February 1, 2026
- Systems Readiness Milestone (Q1)
- **Parallel Operations Milestone** June 1, 2026
- Process Readiness Milestone (Q2)
- People Readiness Milestone (Q3)
- **EDAM Activation Milestone** October 1, 2026

