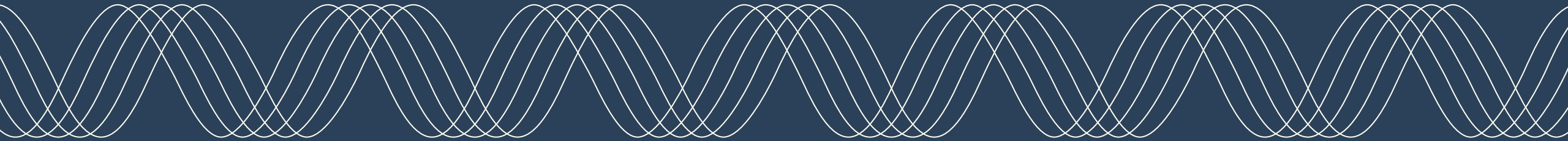


Portland General Electric: Battery Storage Projects

Jimmy Lindsay, Senior Manager, Origination and Structuring

House Climate, Energy, and Environment Committee

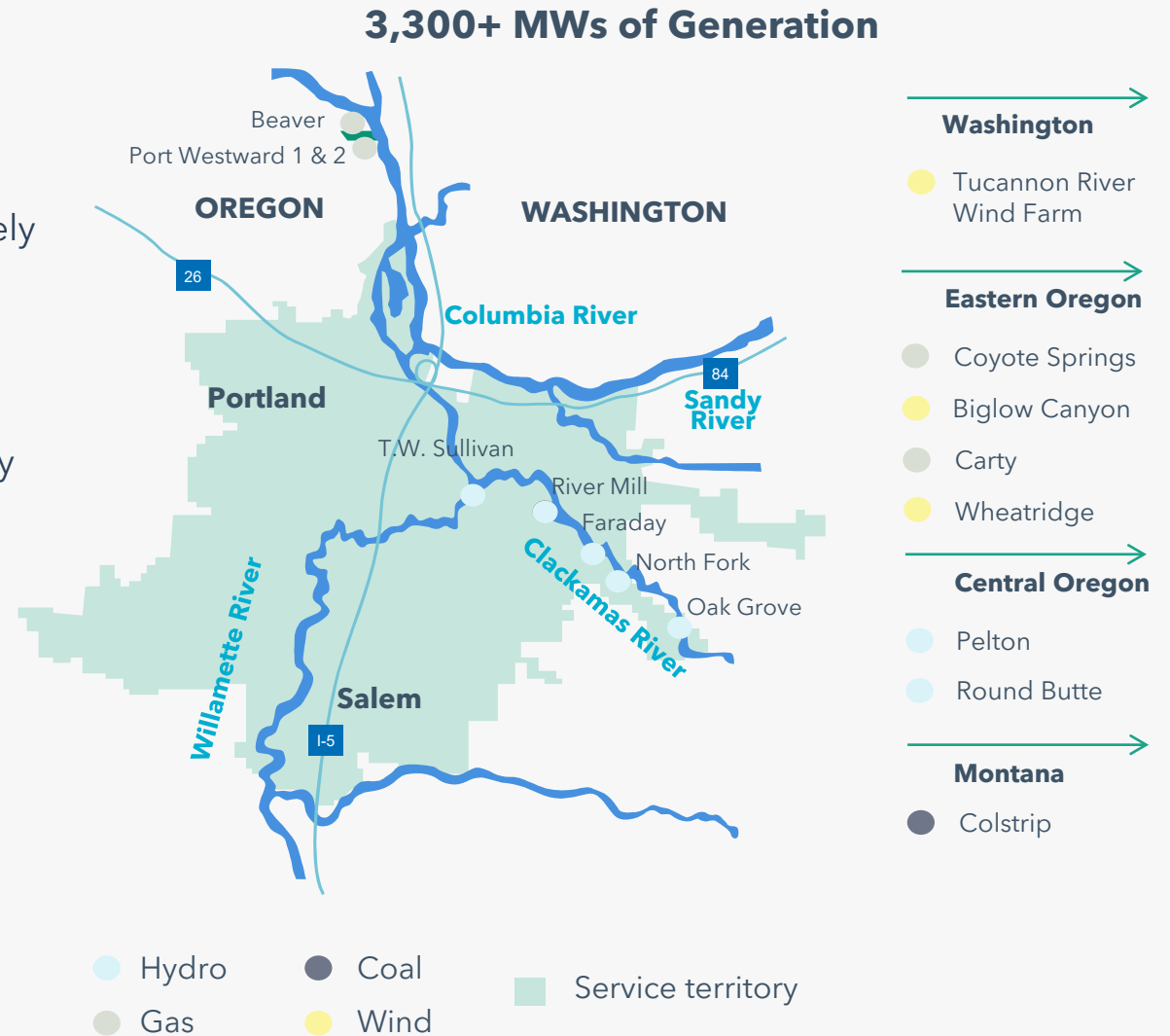
January 10th, 2024



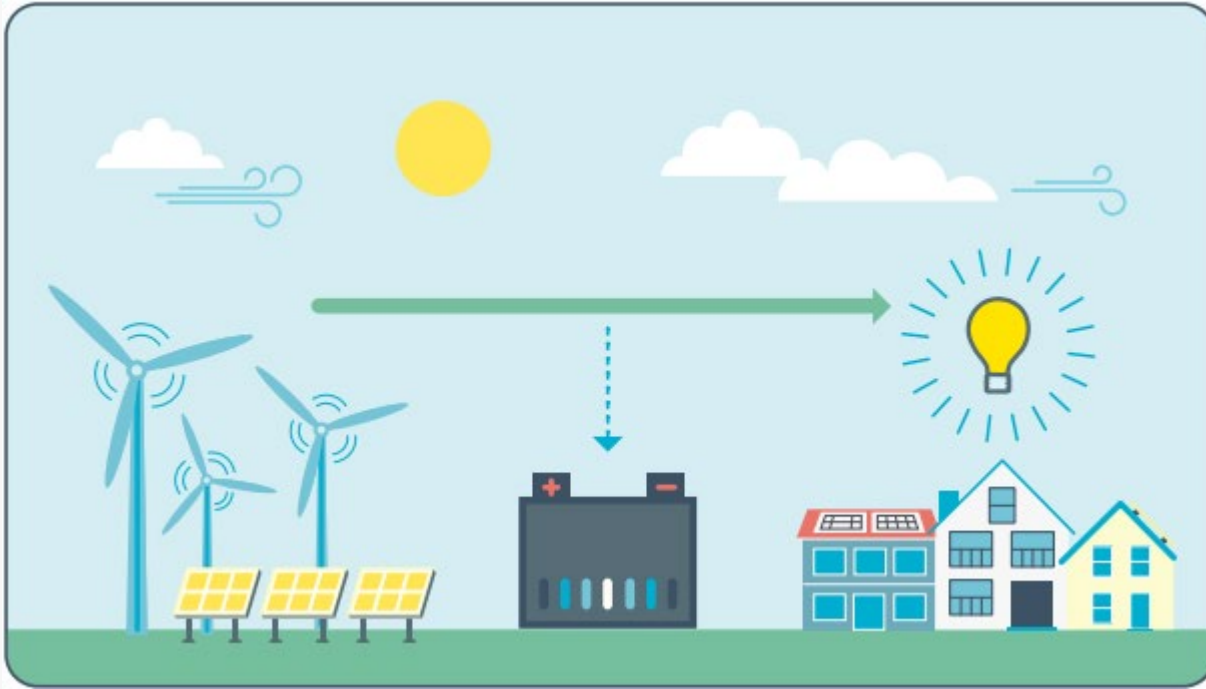
PGE at a glance

About us

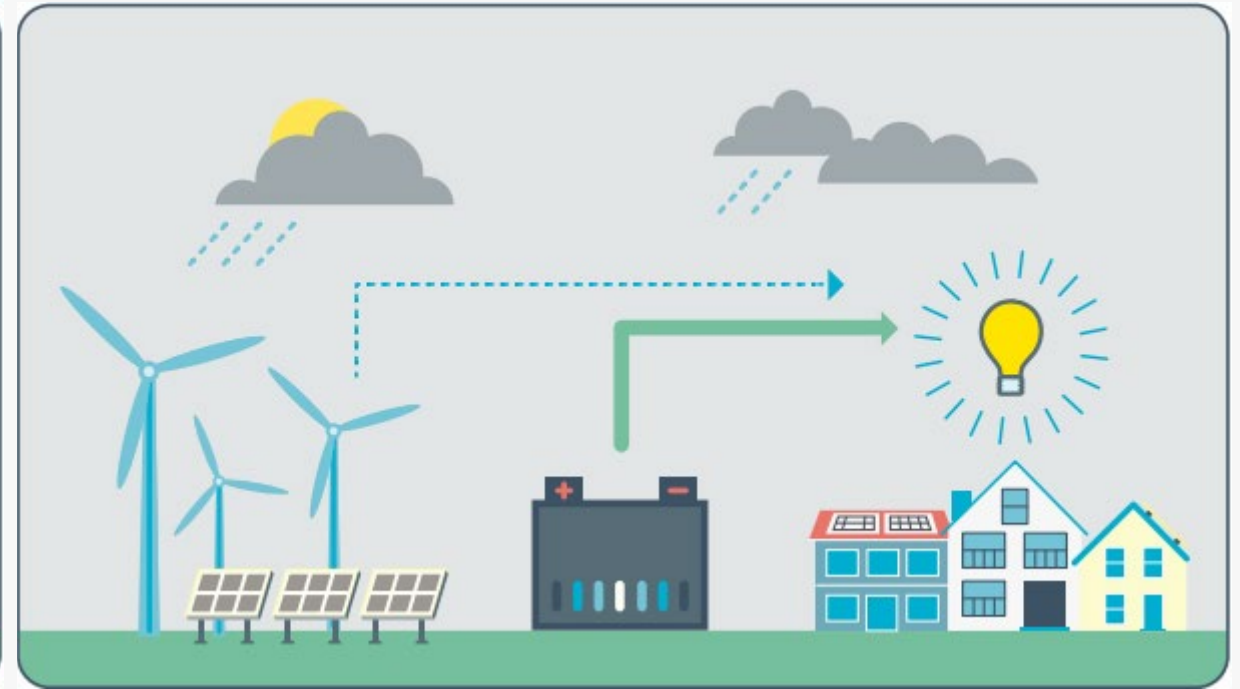
- Over 900,000 retail customers within a service area of approximately 2 million residents
- Roughly half of Oregon's population lives within PGE service area, encompassing 51 incorporated cities entirely within the State of Oregon
- More than two-thirds of Oregon's commercial and industrial activity occurs in PGE service area
- 16 generating plants, 14 of which are in Oregon; 3,300 MWs
- 30,000 circuit miles of transmission and distribution lines
- \$5.5M in charitable giving and 18,000 volunteer hours, with 69% employee participation (2022)
- Approximately 3,000 employees across the state of Oregon



The Benefits of Battery Storage



Reserving energy



Providing reliable power

Existing Battery Resources



PGE and NextEra's Wheatridge Energy Facility is a first-of-its-kind development in North America.

The Morrow County site includes a 300-megawatt wind farm, a 50-megawatt solar facility and a 30-megawatt battery storage system.



2023 Battery Storage Procurement



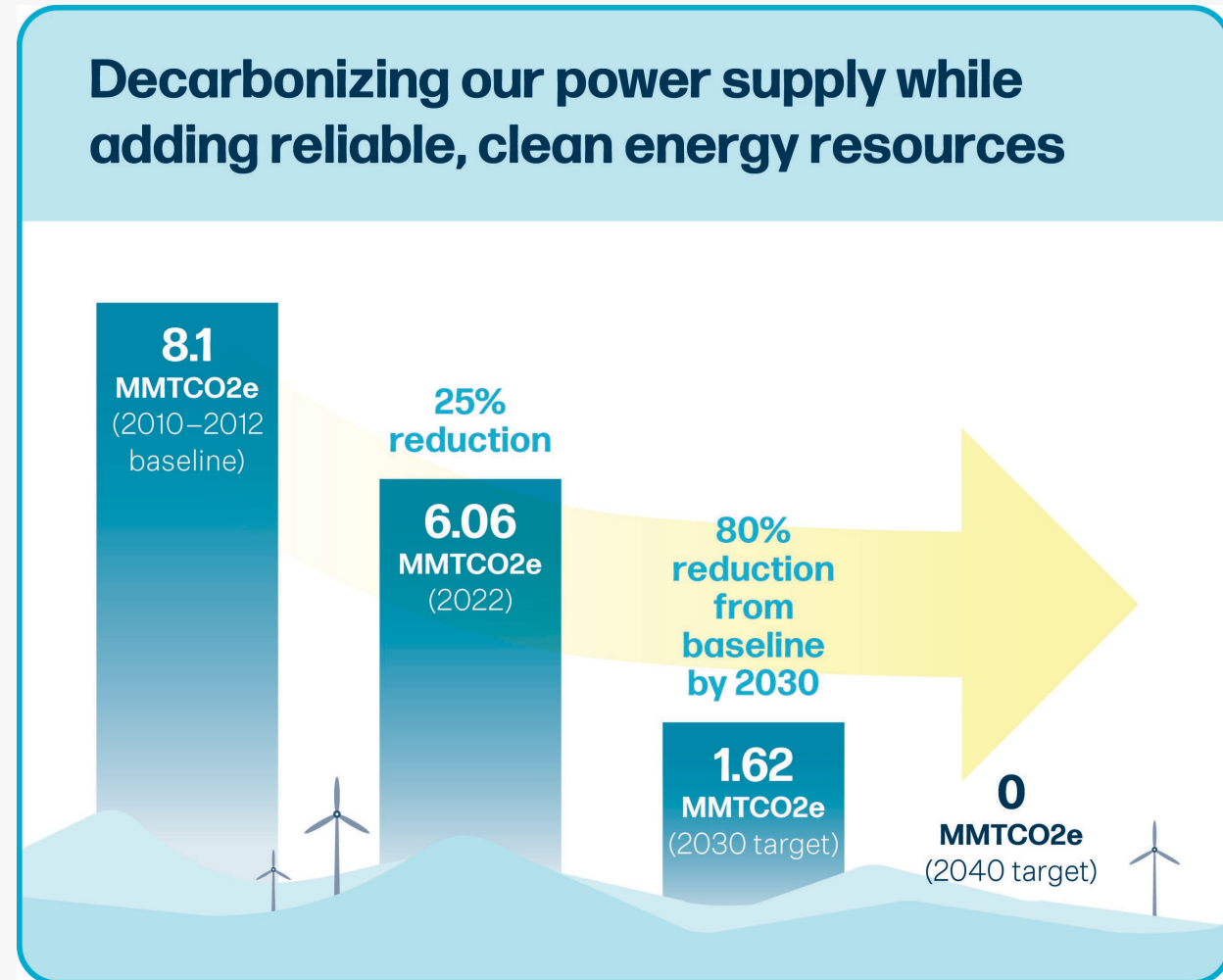
Aerial photographs of Eolian, L.P.'s Madero & Ignacio battery energy storage facility, a 200 MW/2.5+ hour duration storage system in Texas.

In 2023, PGE procured 475 megawatts of new battery storage projects, a critical tool for providing reliability during Oregon's clean energy transition.

- ☞ Seaside: A 200 MW PGE-owned facility, located in North Portland, developed by Eolian, expected to begin service in 2025.
- ☞ Troutdale: A 200 MW NextEra-owned and developed facility, located in Troutdale, expected to begin service in 2024. PGE will purchase the output from NextEra through a 20-year Storage Capacity Agreement.
- ☞ Constable: A 75 MW PGE-owned facility, located in Hillsboro, expected to begin service in 2024.

Additional Storage Needs

- IRP/CEP filed at the OPUC in March 2023.
- Forecast of 3,500-4,500MW new non-emitting resources.
- Preferred portfolio in IRP Action Plan includes 869MW of storage (hybrid and standalone).



Thank you.

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