

Data Center Advisory Committee

John McFarland, Sr. Vice President, Chief Customer Officer,
Portland General Electric

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We're building Oregon's clean energy future

Growth is part of the solution to upgrading the grid while keeping costs as low as possible



Funding Grid Upgrades

- New large load customers—like data centers and advanced manufacturers—help pay for the transmission and distribution upgrades the whole region needs.
- Many customers deploy their own energy systems, including grid-integrated battery storage, partnering with PGE to meet peak demand efficiently for everyone.



Spreading Fixed Grid Costs

- By bringing large energy demand onto the grid, fixed operations and maintenance costs are distributed across a far wider base.
- By sharing the costs of the electric system across more energy users, this growth supports affordability and improve reliability for everyone.

Data Centers in PGE Service Area



Who PGE serves



2025 retail energy deliveries

34%

Residential

31%

Commercial

35%

Industrial

16%

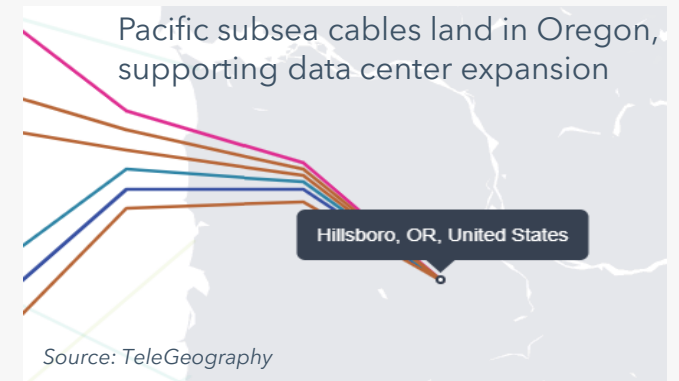
Technology companies

13%

Data centers

6%

Other industrial



Adding flexibility to support the grid

Industry-leading data center partnerships that lower costs and support reliability.



First-of-its-kind battery storage system

- PGE is partnering with Aligned Data Centers and Calibrant Energy on a first-of-its-kind 31MW/62MWh on-site battery system - owned and paid for by Aligned - that is fully integrated into PGE's grid to maximize grid support and operational flexibility.



Data center demand response

- PGE worked with NVIDIA, Emerald AI and Electric Power Research Institute (EPRI) on a successful test demonstrating that data centers can relieve pressure on the grid by reducing demand during extreme weather events, spikes in prices on the energy markets and long-duration crises. Demand response is an instant and low-cost solution.



Unlocking 80MW of extra capacity

- PGE partnered with GridCARE to uncover more than 80MW of capacity in our existing grid by better understanding how data center flexibility impacts the system - with no need for infrastructure.

Growth pays for growth

Shielding residential and small business customers from unnecessary costs while supporting growth in our region



UM 2377 | HB 3546 - The POWER Act

In May, the Oregon PUC approved a new framework for serving fast-growing data centers - designed to support growth while protecting customers:

- **Large data centers have their own customer category:** This helps ensure their unique energy needs are planned for in a way that supports PGE's commitments to clean, reliable and increasingly clean energy.
- **Costs are fairly assigned:** As demand grows, especially from large users, costs are directed to those driving the growth, helping keep electricity bills as low as possible.
- **Built-in protections for families and small businesses:** Large customers must make long-term commitments and meet minimum payment levels, so other customers aren't left covering unused infrastructure costs.
- **Opportunities to invest in clean energy:** Large customers can directly support new clean energy projects and infrastructure, helping bring more clean power onto the system.

Getting the most out of the grid we have

We're leveraging Grid Enhancing Technologies (GETs) - hardware and software tools that improve the capacity, efficiency and reliability of the existing electric grid without requiring major infrastructure upgrades.



- **Dynamic line ratings** with real-time monitoring unlocks capacity, improves reliability, and bridges to long-term infrastructure.
 - **PGE has installed over 100 sensors on 13 transmission lines**
- **Ceramic coatings** on conductors limit the effect of heat and increases the capacity of our lines on the hottest days up to 20%.
 - **PGE is deploying this technology in Hillsboro with more projects to come**
- **Advanced conductors** can operate at higher temperatures than standard lines and allow an existing line to carry more electrical current, making the best use of existing equipment and rights-of-way.
 - **PGE is deploying nearly 30 projects**
- **Advanced power flow controls** allow operators to shift power to available lines, balancing overloaded and underused capacity.
 - **PGE is working with the EPRI** to evaluate potential locations for this technology

Key takeaways



Growth is part of the solution

New large load customers—like data centers and advanced manufacturers—can help pay for the grid Oregon needs through investments in energy generation, distribution and transmission.



Data center partnerships

Data center are potential partners in bringing demand response, battery storage, and other technologies that improve the grid for all customers.



Growth pays for growth

Oregon has already taken steps to protect residential and small business customers from unnecessary costs while enabling growth in the region.