General electric smart grid

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A well-known thought leader and speaker in industrial software, Bernard Cubizolles has worked with hundreds of companies around the world, helping them use OT systems to achieve real value from the Industrial Internet. With software and mobile solutions, Bernard believes infrastructure and manufacturing executives can transform big data into actionable information and knowledge. He has served at GE Vernova, Siemens and other leading companies and holds a PhD in Applied Physics.

(PORTLAND, OR -- March 23, 2023) Utilidata, an industry leading grid-edge technology company, announced today that Portland General Electric (PGE) will pilot Utilidata"s smart grid chip, a first-of-its-kind distributed artificial intelligence (AI) platform, in Oregon.

Smart grid chips are anticipated to be installed within PGE"s Smart Grid Test Bed, which incentivizes customers to use smart-home technologies. This first phase of the deployment will provide initial real-time visibility at the edge of the grid and support PGE"s decarbonization transition. Ultimately, this positions PGE to scale the next generation of distributed intelligence across a modern grid.

"In Oregon, we are experiencing the impacts of climate change first-hand and recognize the urgent need for innovation at the grid edge as we transition to a clean energy future," said Ananth Sundaram, Senior Manager of Integrated Grid at Portland General Electric. "Investing in new technologies for the grid is a key strategy for PGE to achieve its climate goals and provide customers with clean, affordable, and resilient energy."

PGE serves over 900,000 customers and has ambitious greenhouse gas (GHG) reduction targets, including an 80 percent reduction in baseline GHG emissions from power served to retail customers. To meet these targets, PGE aims to source 25 percent of its peak load, which is when energy demand and costs are highest, from clean energy resources at the edge of the grid such as residential rooftop solar and batteries. The smart grid chip will enable PGE to better leverage these DERs to meet its goals.

"Modernizing grid infrastructure in time to meet essential decarbonization goals requires transformational leadership," said Jess Melanson, Utilidata President and Chief Operating Officer. "Utilidata is proud to work with Portland General Electric, an innovative partner who understands the value of making investments to not only solve today"s challenges, but to prepare for the dramatic changes the grid will face in the coming years. We are inspired by PGE"s commitment to innovation and look forward to working together to transform grid operations and better serve PGE customers."

"No industry stands to gain as much from the forces of AI and machine learning as in energy," said Marc Spieler, Head of Global Energy Business Development at NVIDIA. "With AI, we now have the technology to deploy an intelligent energy grid that is more reliable, secure, and efficient - and in collaboration with Utilidata and PGE, NVIDIA is working to create an intelligent energy infrastructure for a sustainable future,

expanding our work in Oregon."

PGE"s Smart Grid Test Bed is a community-driven approach to managing energy use and demand to accelerate the clean energy transition. The test bed spans three neighborhoods with over 20,000 participating customers who are incentivized to use smart-home technologies, such as thermostats, water heaters, EV chargers, and batteries, to gain better control over their energy use and carbon footprint while helping PGE operate the grid more efficiently.

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Web: https://www.kary.com.pl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346