

PSE on bainbridge island



PSE Bainbridge Update • March 2022



Pictured: Aerial view Puget Sound Energy's Snoqualmie Falls Hydroelectric Project, Snoqualmie River, Salish Lodge and Mount Si.

Read on for details on PSE's electric system improvements, highlighting PSE's innovative battery projects, PSE partnership with Bainbridge Island Community Foundation and Bainbridge Prepares. Thank you for reading!

Investing in electric reliability and grid modernization - project updates

Electric reliability on the island needs to be improved. In finding solutions, PSE committed to exploring new technologies. Our proposed plan is a [unique solution designed for](#)

community to implement these solutions.



Bainbridge Island Electric system improvements

It's no secret electric reliability on Bainbridge Island needs to be improved. In finding solutions, PSE is committed to exploring new technologies. Our proposed plan is a solution designed for Bainbridge Island – combining new technologies and grid infrastructure in a solutions package tailored to meet the island's unique needs.

To address transmission reliability needs, we're investing in transmission infrastructure that will make Bainbridge Island's electric grid more resilient and reduce the impact of any single outage by focusing on redundancy. We plan to install a new transmission line to create a transmission “loop” which will provide more reliable power.

To address the growth that's straining the island's distribution system and balance the values of the community to limit infrastructure, PSE is proposing to install a utility-scale battery energy storage system to supply electricity during winter peak periods and implement innovative conservation and demand response programs which help lower customer demand. If all of the non-wire solutions are successfully implemented, we'll

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These solutions components, coupled with supporting work at the existing substations, will improve the electric system on Bainbridge to ensure safe, dependable power for families and businesses for years to come. See below for a snap shot on where the projects are today!

| Solution component | Need | Phase | Anticipated in service |
|---|-------------|---|------------------------|
| Conservation and demand response programs | Capacity | Preparing to launch this year– <i>more information coming soon!</i> | 2022 |
| Port Madison substation improvements | Reliability | In design | 2023 |
| Winslow Tap transmission line rebuild | Reliability | In design | 2024 |
| Battery Energy Storage System (BESS) | Capacity | In design | 2025 |
| Murden Cove – Winslow 115 kV (“missing link”) transmission line | Reliability | In design | 2025/2026 |



Battery spotlight: Tenino microgrid

As a part of our ongoing series on PSE's innovative battery projects around our service area, this month we are highlighting the [Tenino Microgrid](#).

This Grid Modernization initiative, in partnership with the Washington State Department of Commerce, is another step in our continued commitment to bringing new technology to our customers. By designing, installing, and testing the first utility scale, battery-plus-solar microgrid in PSE's service area, our combined efforts will enhance services for the Tenino community and pave the way for a cleaner, better energy future for all of us. This innovative project is possible thanks to a generous \$2.7 million grant from the Department of Commerce's Clean Energy Fund, in addition to a multi-million dollar investment from PSE.

Additionally, PSE was awarded a \$150,000 grant from Washington State Department of Commerce Clean Energy fund to help study the feasibility, with analysis and preliminary design to add a renewable hydrogen and/or renewable natural gas-powered generator to the microgrid project at Tenino High School. The microgrid will help support the community to use the school as an emergency shelter in response to severe weather or during natural disasters.

Project details

Solar panels are a renewable energy source that can help reduce greenhouse gas. Batteries can store solar energy for later use— like when the sun doesn't shine, or during

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entire utility industry.

The primary installation will be an approximately 1MW/2MWh lithium-ion battery at PSE's Blumaer substation and solar array on adjacent land, complementing existing solar panels at nearby Tenino High School.

Combined, the system will form a microgrid capable of providing temporary back-up power to the school during an outage.

PSE also plans to install a second battery in the area nearby the town of Bucoda to enhance local reliability. The system's location will be determined by available siting and other factors.

PSE on Bainbridge Island

PSE feels strongly about being a good neighbor. We do this through our philanthropic commitment to the nonprofit communities we serve.



PSE partners with the Seattle Kraken and Bainbridge Community Foundation

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the [Seattle Kraken](#) NHL hockey organization to promote energy efficiency and sustainability across the region. The one-of-a-kind collaboration features the Light the Lamp sponsorship program, supporting local organizations that engage with underserved youth in sports and other physical activities.

As part of the partnership, PSE and the Kraken are teaming up with local non-profits through the Light the Lamp program, which will provide funding to youth organizations to pay for scholarships, registration fees, uniforms, sports equipment and costs related to coaching and training.

On Bainbridge Island we are pleased to present \$3000 to [Bainbridge Community Foundation](#) through the Seattle Kraken [Light The Lamp](#) sponsorship program. Bainbridge Community Foundation, in partnership with Bainbridge Schools Foundation, Bainbridge Youth Services, and Helpline House, created the Youth Experience Support Fund (YES Fund) to provide financial assistance to local youth in order to participate in sports or other in-school or extracurricular activities.



Pictured: Jim Hopper, Executive Director and Debbie Kuffel, Program & Finance Officer at Bainbridge Community Foundation along with Karen Brubeck, PSE Senior Community Engagement Representative.

“When a young person is facing hardship and reaches out for help, saying “yes” not only

Director at Bainbridge Community Foundation.

The YES Fund makes financial assistance available to young people through a quick and confidential process, creating opportunities for students who may not otherwise have the resources to meet basic needs, to achieve academic success, or to pursue extracurricular activities. YES Funds support a wide range of these needs, such as covering the cost of registration fees and equipment for youth sports activities, music lessons, dance lessons, skiing, swimming, etc. Financial assistance was also used for basic needs during the COVID-19 pandemic, and provided electric blankets for kids, technology and workspace improvements to help students participate in online school, and sleeping bags for those who needed them.



PSE supports Bainbridge Prepares in Public Health Initiatives

The PSE Foundation is proud to provide a \$5,000 grant to [Bainbridge Prepares](#) to support the public health initiatives in Kitsap County. With that funding, Bainbridge Prepares was able to support COVID-19 vaccination efforts (40,000 doses and counting!) and flu immunizations for uninsured and underinsured individuals that wanted them (flu

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"Puget Sound Energy and the PSE Foundation have been one of our best partners and supporters since our inception over 10 years ago. We look forward to many more years of partnership collaboration with PSE for our disaster preparedness efforts - whether that be for wildfires, earthquakes, or any other emergencies we are called to respond to!" noted Loren Bast, Executive Director.

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Let us know what you think

Whether you have questions about our work on Bainbridge Island, the programs we offer or other questions about PSE's services, we want to hear from you. Please contact us at info@psebainbridge.com or call us at **1-888-878-8632**.

Thank you,
Your PSE Bainbridge Team

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