

PSE on bainbridge island



PSE Bainbridge Update • January 2018



Looking east across Murden Cove, off Manitou Beach Drive. (Photo courtesy of Keith Brofsky)

A new year and a new commitment to reducing our carbon footprint – through large initiatives and small – we can all pledge to do what we can. Also, we have the latest on electric reliability on Bainbridge Island.



Thousands of visitors view Snoqualmie Falls every year, our first hydroelectric plant built in 1898.

Reducing our carbon footprint 50 % by 2040

For the past 145 years, PSE has powered communities and businesses throughout Washington. To ensure we meet current and future needs, we developed a measurable plan with short- and long-term steps to reduce our carbon footprint 50 percent by 2040.

This plan prioritizes a transition away from coal, new product and resource development, and cleaner transportation in Washington.

“We can create a better energy future, which is why we are committing to reducing our carbon footprint by 50 percent by 2040,” said PSE President & CEO Kimberly Harris.

“PSE is prepared to pave the way while also empowering our customers with simple and concrete actions they can take in their daily lives to lower their footprint. By working together, we can preserve and protect our environment for generations to come.”

This carbon-reduction plan includes the following initiatives:

- Transition from coal: With the retirement of Colstrip Units 1 and 2 by July 2022 and the shutdown of Centralia Power Plant in 2025, we will be nearly 90 percent non-coal generation -- and on the path to 100 percent by the early 2030s.
- New product and resource development: We will make strategic investments in new products and renewable resource development, building on the popularity of programs like “Green Direct” that allow large-scale energy customers to subscribe to PSE’s renewable energy projects.
- Cleaner transportation: With 43 percent of carbon emissions in Washington state coming from transportation, we are committed to accelerating the growth and adoption of electric vehicles, as well as investing in the development of cleaner alternatives to diesel and other fuels to ensure buses, ships, ferries and trains can be as green as possible.

While some of these efforts we can do on our own, others will require policy changes at the state level to ensure our carbon-reduction goals can be met. We are actively working with the state legislature and Utilities and Transportation Commission to update and improve the regulatory climate, to apply a price to carbon that balances environmental goals with costs and benefits to customers, and to take action to dramatically increase the number of vehicles powered by electricity and other alternative fuels.

This is a partnership

PSE offers a variety of programs to help customers reduce their carbon footprint. Learn more and sign up today!

Green Power: Through a small additional payment sent in with your monthly energy bill, we buy clean energy on your behalf from independent producers in the Northwest. This commitment makes it possible for local energy innovators in wind, solar, landfill gas and agricultural and food waste to secure funding to bring new renewable generation to the market – funding that would otherwise not be available to these local innovators.

Visit pse.com/greenpower to learn more and sign up.

Solar Choice: Through a month-to-month solar subscription you buy solar renewable energy credits from new, independent solar producers located in the Northwest. For as little as \$5, you can match a portion of your power usage with renewable energy from solar producers in Washington or Idaho.

Visit pse.com/solarchoice to learn more and sign up.



Jan Allen, president of Impact Bioenergy, shows Carolyn Zipeto, operations manager for Pleasant Beach Village and Karen Brubeck, PSE outreach manager (right) the inner workings of the HORSE.

HORSE biodigester finds new pasture

The HORSE biodigester, having spent a year at the Harbour Public House, has a new home at Pleasant Beach Village on Woodson Lane NE on Bainbridge Island.

The HORSE (High-solids Organic-waste Recycling System with Electrical output) began operation on Dec. 1, continuing the three-way partnership that includes Impact Bioenergy and PSE. The four restaurants at Pleasant Beach Village will continue the pilot project on Bainbridge Island for one more year.

Impact Bioenergy, based near Seattle, developed the self-contained, portable biodigester.

The HORSE is designed to generate at least 5,000 kilowatt hours of energy per year. This innovative technology can generate the energy equivalent of one barrel of crude oil from about 3,000 pounds of food scraps. It also generates 5,400 gallons of nutrient-rich fertilizer per year, which can be returned to the soil to help grow more food.

Pleasant Beach Village, located on Bainbridge Island's south end, is a walkable village with four restaurants, a 12-room inn, a pool club, retail shops and services, and residential living.

"We are partnering with Butler Green Farms to use the liquid fertilizer created from HORSE to grow organic produce here on Bainbridge Island," said Carolyn Zipeto, operations manager for Pleasant Beach Village.

They also plan on capturing the electricity generated from HORSE and transfer it to portable renewable/rechargeable power banks to charge e-bikes, electric vehicles and a variety of electrical equipment used in the Village's daily operation.

This pilot project is a natural extension of PSE's ongoing interest in developing alternative sources of renewable energy. In 2004, PSE began partnering with dairy digesters as part of its Green Power program. Those digesters turn manure into methane that fuels an electric generator. PSE also has partnerships with two landfill gas digesters and are involved in digester discussions in other communities.

"PSE knows how important renewable energy is to Bainbridge Island residents," said Karen Brubeck, PSE outreach manager. "We thank the Village for taking the reins into their hands and stepping up to host the HORSE. With one more year on the Island, we'll be able to learn much more about its energy capabilities."



Crews work through last February snowstorm on Bainbridge Island.

Long term reliability on Bainbridge

Improving electric service to our customers on Bainbridge Island has been a focus of PSE for a very long time and will continue to be into the future.

We've performed major system upgrades over the years and have recently heard from many of you that reliability is still an issue you want to see addressed. We are currently developing a technical needs assessment for the Island to be complete by early spring 2018. A wire and non-wire solutions study is scheduled to be complete in the summer. As we stated at our town hall meeting late last year, we will begin a community conversation around reliability options in late spring.



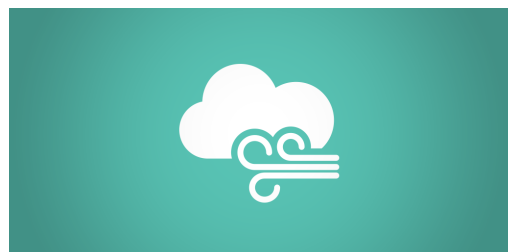
Residents attend high voltage demonstration on January 18 at City Hall.

Stay safe around high voltage electricity!

Recently, PSE partnered with the City of Bainbridge Island to provide high voltage safety training for Bainbridge Island residents. Read more on our [website](#).

Storm season still upon us

Bainbridge Island wasn't hard hit last weekend, yet high winds are still a concern this winter. While you didn't need your extra batteries, flashlights and other supplies this time, store them in a safe place just in case. We never know when emergencies



will happen – be they earthquakes or high winds.

Follow us on Facebook

PSE has a [Facebook page](#) for our work on Bainbridge Island. Be sure to like and follow us to keep informed about PSE on Bainbridge Island!

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with us on
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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 toll-free at **1-888-878-8632**.

Thank you,

Your PSE Bainbridge Team

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