

## Battery testing completed on Nov. 15.

- The next scheduled test is expected in 2017.
- Learn more about the Glacier battery project at [pse.com/glacierbattery](http://pse.com/glacierbattery).
- Questions? Reach out to us at [majorprojects@pse.com](mailto:majorprojects@pse.com) or 1-888-404-8773.





## Thank you for your patience during recent battery testing

The Glacier battery has been up and running for the past few months, reducing system load and balancing energy supply and demand. Last month, Puget Sound Energy worked to test the battery's capability to provide back-up power to the electric grid in the case of an outage. This was an exciting milestone for the project. Once the system is successfully tested, we will be able to automatically utilize the batteries to provide back-up power to the town in the future.

As planned, we tested the batteries on Nov. 15 during a scheduled intermittent 6-hour power outage. All testing was completed and power was restored to customers within the testing window. We know being without power or with intermittent power is inconvenient, and we did our best to minimize impacts to you and your neighbors during this process.

Glacier also experienced an unplanned outage on Nov. 18 caused by equipment failure. This outage was not related to the battery testing conducted earlier in the week. For future outages like this, having the batteries tested and ready will help provide power while our crews work to repair equipment and restore power to customers.

### Additional testing planned for 2017

We are now assessing the results of the Nov. 15 test to identify known issues before we retest the back-up capabilities. We are planning for a second planned outage and battery test in 2017, and will notify all customers in advance with more details about when the outage will be and what to expect. We will do our best to minimize impacts to our customers during this process.

### We will continue to keep the community informed

We acknowledge that this process hasn't always been easy for our customers and understand implementing new technology can create impacts. While this project has short-term impacts, we are excited about the long-term benefits the batteries will bring to the Glacier area.

PSE is committed to keeping our customers informed and working with the Glacier community as we make progress towards getting the battery up and running.

If you have any questions about the project, please reach out to us at [majorprojects@pse.com](mailto:majorprojects@pse.com) or **1-888-404-8773**.

For more information and future updates about the Glacier battery project, visit [pse.com/glacierbattery](http://pse.com/glacierbattery).

Sincerely,

**Shane Richards**  
Project Manager

### About the project

PSE, in partnership with the Washington State Department of Commerce, developed a 2 megawatt (MW) / 4.4 megawatt-hour (MWh) lithium-ion battery pilot project in Glacier to test the benefits of distributed generation. The Glacier battery storage pilot project will perform three key benefits:

- Reducing system load during periods of high demand, which helps keep the system healthy and ensures reliability for local customers
- Balancing energy supply and demand, helping to support greater integration of renewable power such as solar and wind on PSE's grid
- Serving as a short-term backup power source to a portion of the local Glacier circuit during outages

While the battery isn't large enough to back up all of Glacier, all customers in the area will benefit from the battery's other functions. Energy storage can be used to fill the minute-to-minute gaps between supply and demand. This keeps the system healthy and supports the use of renewable energy supplies, which can fluctuate when wind picks up or clouds pass over solar panels.

