

Which energy storage technologies are included in the 2020 cost and performance assessment?

The 2020 Cost and Performance Assessment provided installed costs for six energy storage technologies: lithium-ion (Li-ion) batteries, lead-acid batteries, vanadium redox flow batteries, pumped storage hydro, compressed-air energy storage, and hydrogen energy storage.

What is the energy storage standard?

The Standard covers a comprehensive review of energy storage systems, covering charging and discharging, protection, control, communication between devices, fluids movement and other aspects.

What is ESGC's cost and performance assessment?

The second edition of the Cost and Performance Assessment continues ESGC's efforts of providing a standardized approach to analyzing the cost elements of storage technologies, engaging industry to identify these various cost elements, and projecting 2030 costs based on each technology's current state of development.

Are recycling and decommissioning included in the cost and performance assessment?

Recycling and decommissioning are included as additional costs for Li-ion, redox flow, and lead-acid technologies. The 2020 Cost and Performance Assessment analyzed energy storage systems from 2 to 10 hours. The 2022 Cost and Performance Assessment analyzes storage system at additional 24- and 100-hour durations.

Why is a data-driven assessment of energy storage technologies important?

This data-driven assessment of the current status of energy storage technologies is essential to track progress toward the goals described in the ESGC and inform the decision-making of a broad range of stakeholders.

Puget Sound Energy breaks ground on new Operations Training Center New Puyallup facility will train PSE employees, and local first responders. Bellevue, Washington (8/8/2024) - Puget Sound Energy and development partner Trammell Crow Company, a global real estate development firm, are breaking ground on a new training facility, enhancing hands-on training for PSE field ...

PSE has signed a joint development agreement with Mitsubishi Power Americas, Inc. to collaborate on project development and technology solutions in line with PSE's goal to become a "Beyond Net Zero Carbon" energy company by 2045. The agreement will help enable the implementation of large scale, carbon-free renewable generation and storage into PSE's ...

Commercial Battery Demonstration at PSE's Poulsbo Service Center. In October 2019, PSE installed one behind-the-meter (BTM) 30kW/183kWh battery at its Poulsbo Service Center. This demonstration is designed



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to simulate the needs and load profile of a commercial customer and help PSE determine internal processes and operating protocols.

This is an overall certification for what UL calls "Energy Storage Systems" - ESS for short. A UL 9540 ESS has a UL 1973-certified battery pack (more details below) and a ...

The 2022 Cost and Performance Assessment analyzes storage system at additional 24- and 100-hour durations. In September 2021, DOE launched the Long-Duration Storage Shot which aims ...

Energy Storage Equipment PSE Certification Phone. If equipment purchase price is less than PSE's rebate amount, PSE will pay no more than the cost of the equipment, not including installation, labor or tax. \*City of Seattle PSE natural gas customers are not eligible for steamer, dishwasher, or Tier 1 fryer rebates due to the Seattle Energy Code.

Puget Sound Energy provides a variety of services and incentives to help our customers save energy and money. No other Northwest utility has helped its customers save more energy than PSE. Our energy-efficiency programs have helped PSE customers conserve nearly 5 billion kilowatt-hours of electricity and almost 50 million therms of natural gas.

Build with energy-efficient equipment and save. PSE's new construction programs will help you lower the cost of incorporating energy-efficient systems and equipment into your design. When planning a new project be sure to integrate measures that will help you build more efficiently and earn incentives through PSE's new construction programs.

Smart thermostat (ENERGY STAR® models) \$175 Space Heat: ENERGY STAR® or AHRI Certified natural gas forced-air furnace ( ≥ 95% AFUE) \$750 Click here to learn how to get the Efficiency Boost rebate for space heat equipment. Zonal electric resistance to ductless heat pump conversion \$2,400

Andrew Padula, 1-888-831-7250, psenewsroom@pse . Puget Sound Energy is proud to serve our neighbors and communities in 10 Washington counties. We're the state's largest utility, ...

Quote\* or Invoice for Occupancy-based Thermostat equipment showing: Manufacturer and model number; Itemized unit costs; W-9 Taxpayer Identification Form; When installation and programming of all equipment has been completed, please notify PSE by responding to your Pre-Approval email thread so that the verification process can begin.

This program offers incentives for energy-efficient upgrades in industrial facilities. If you're planning a custom capital project for your industrial site that demonstrates energy savings, PSE may be able to help pay for it with a custom capital grant.



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PSE launched its most recent Request for Proposals (RFP) for eligible energy generation and storage resources in July this year, including up to 2.3 million annual megawatt-hours of energy compliant with Washington's Clean Energy Transformation Act (CETA) along with 1,755MW of summer peak and 1,573MW of winter peak capacity.

Starting January 1st, 2022 no rebates will be available from PSE for ENERGY STAR certified commercial laundry equipment. If you purchased and installed ENERGY STAR certified commercial laundry equipment on or before December 31st, 2021 please send an email to [commercialrebates@pse](mailto:commercialrebates@pse) to discuss your qualifications

The amount of back-up power a residential battery can provide depends on its capacity, how much it's charged, and the load it's powering. For instance, the Sunverge One batteries we're testing have a capacity of 15.5 kWh and should potentially provide back-up power, for a critical load, for up to 24 hours. For many of our customers, a critical load would include a refrigerator, ...

Save big on energy-efficient water heating systems. Upgrading from an older, less-efficient water heating system can lower your energy bills and improve your overall energy efficiency. To help you bring a more energy-efficient water heater into your home, PSE offers rebates on several types of quality equipment.

The new projects will add almost 350 MW of clean energy from utility scale solar and battery energy storage. BELLEVUE, Wash. (9/24/2024) Puget Sound Energy (PSE) is proud to announce two large projects in Washington state that will help add more clean energy to its portfolio.

PSE gas-only customers are not eligible for the rebate. Residential, multi-family, and new construction customers are not eligible for the rebate. Equipment requirements. You must purchase a model found on PSE's certified qualified products list consisting of ENERGY STAR certified products. The heat pump water heater must meet Tier 3 or ...

How to qualify Customer requirements. Must use PSE electricity or natural gas as the primary source of your home's heating. Pre-existing windows and new windows must meet the equipment requirements.; Confirm that you meet all additional rebate requirements as well as the requirements listed above.; Equipment requirements

UL 9540 is the safety standard for Energy Storage Systems (ESS) and Equipment. In the United States and Canada, ESS need to comply to UL 9540. The multiple components found within an ...

When a generator or energy storage system will operate in parallel with PSE's distribution system, the interconnection is governed by WA State Jurisdiction, PSE Electric Generation Schedule 152 which provides for three types of ...



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Foodservice equipment details Deep vat fryers. An ENERGY STAR <sup>®</sup> certified fryer can lower your energy bills every year by upwards of \$2,000. They can operate with up to 25% more energy efficiency than standard-efficiency fryers, and often enable shorter cook times and higher production rates so you can cook more food faster.

Here's how your participation benefits you and your community: Earn money: Enroll in Flex Batteries and earn \$1,000 per battery, plus up to \$500 per year with no action required.; Help the environment: When paired with solar, batteries can help further reduce your environmental impact.; Support your community's energy stability: Batteries can help take strain off the ...

A battery's energy capacity is typically given in MWh or kWh. A fully-charged 15kWh battery, for example, could supply 1kW of power continuously for 15 hours. State-of-charge (%) is a battery's level of charge relative to its total energy capacity. A cycle is the process of fully charging and discharging a (rechargeable) battery's energy capacity. The load you place on a battery will ...

Reference these guides for current standards and specifications on PSE and customer responsibilities for utility installation. Puget Sound Energy can offer video guides and other resources for those looking to install utilities on a commercial, industrial or residential property.

Mail certified checks to: Puget Sound Energy Attn: Payment Processing 20000 North Creek Parkway Bothell, WA 98011 Memo: [Bidder's Name] 2024 All-Source RFP Proposal # XXXXXX \*PSE encourages bidders to send certified checks by registered mail in order to maintain a record of receipt. ACH Transfers require the following information: Puget Sound ...

Bellevue, Washington (1/5/2024) Puget Sound Energy (PSE) and Form Energy, an energy storage technology and manufacturing company, have signed a memorandum of understanding (MOU) to explore the opportunity of deploying a pilot multi-day energy storage system to help PSE meet state requirements for clean energy and customer expectations for ...

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