

Pumped Storage

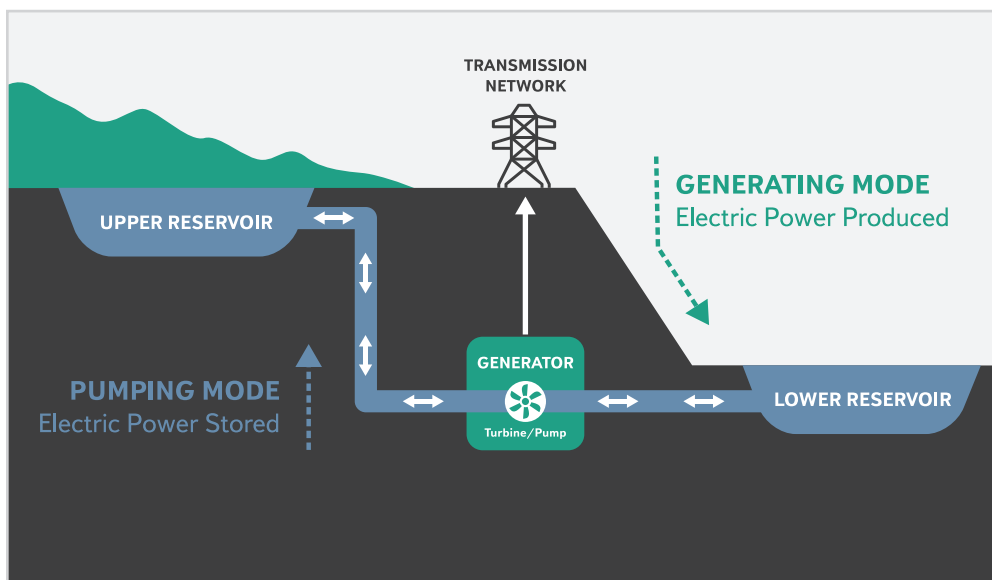
The key to a 100% renewable energy grid

Pumped storage systems store wind and solar power when it is plentiful, then deliver this carbon-free energy when demand is high.

Using electricity from fossil fuels increases the greenhouse gasses that contribute to climate change, more frequent droughts, floods, wildfires, and extreme heat and weather.

While the world is making progress increasing the use of wind and solar power, transitioning from fossil fuels to 100% renewable energy means we need cost-effective, reliable ways to store this clean energy for later use.

Pumped storage hydro systems are critical infrastructure for addressing climate change. They act as gravity-fed water batteries, storing excess renewable energy in a high-elevation reservoir until that energy is needed. They are low maintenance and last more than a century.



How pumped storage hydro works

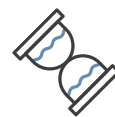
Benefits of Closed-Loop Pumped Storage



Increases grid's capacity to store and use clean energy



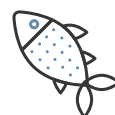
Non-consumptive water use



Long-lasting, with facilities operational for 100+ years



Small footprint compared to other storage



Does not impact fish or water quality








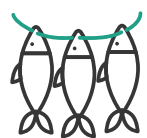
Doesn't produce hazardous waste



The Goldendale Energy Storage Project allows us to store and use more clean power with minimal environmental impact.

The Goldendale Energy Storage Project in South Central Washington is one of many pumped storage facilities being proposed in the U.S. It can store electricity for up to 12 hours and release that power during times of peak demand. At full capacity, it will generate 1,200 megawatts of on-demand clean electricity, or enough electricity to power about **500,000 homes**.

GOLDENDALE PROJECT ENVIRONMENTAL BENEFITS

 <p>Reduces pollution and carbon emissions</p>	 <p>Invests \$10 million cleaning up a hazardous waste site</p>
 <p>Uses minimal water annually</p>	 <p>Compatible with existing infrastructure</p>
 <p>No adverse effects on local fish or wildlife</p>	 <p>Avoids tribal fishing, hunting, and gathering sites</p>

Once operational, the Goldendale Project avoids/saves the equivalent of 1,785,190 tons of CO2 emissions each year.

As a hydropower facility, Goldendale Energy Storage Project must undergo a robust public input process and obtain a license from the Federal Energy Regulatory Commission (FERC). Both FERC and the Washington Department of Ecology completed their own independent Environmental Impact Statements for the project.

For more information and to sign up for our e-newsletter, visit: goldendaleenergystorage.com

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