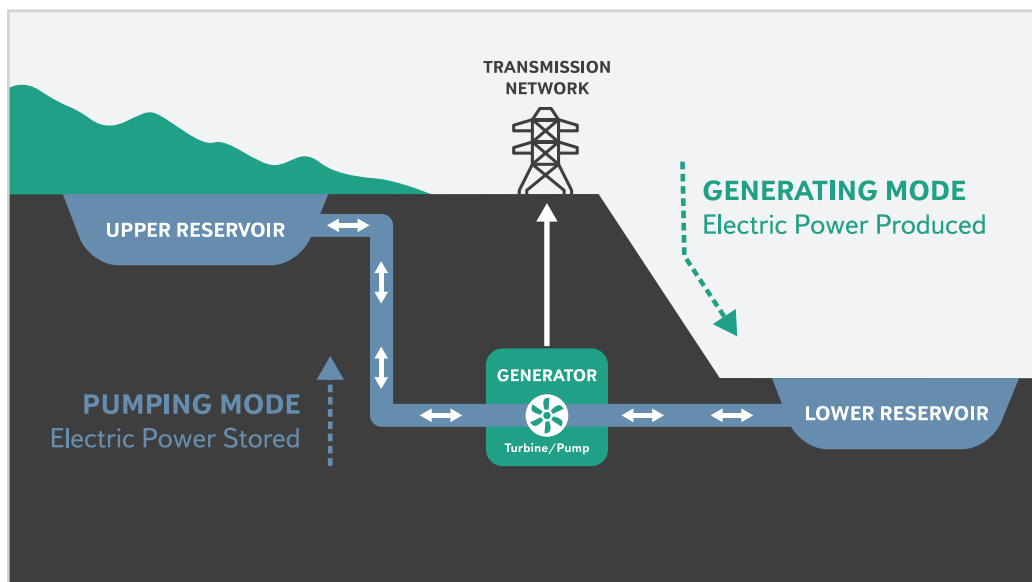


The Economic Case for Pumped Storage

Reliable, affordable energy storage

Pumped storage systems can store energy for long periods of time, are built to last for a century or more, and are cheaper to operate than batteries.

As we transition away from fossil fuels to 100% renewable energy, we need cost-effective, reliable ways to store clean energy for long periods of time. Pumped storage hydro systems act as a gravity-fed water battery, storing excess renewable energy in a high-elevation reservoir and delivering that energy to the grid when it's plentiful and inexpensive.



How pumped storage hydro works

Our transition away from a fossil fuel-based electricity system comes at a time when there is a movement to electrify buildings and transportation, increasing our need to store renewable energy. The Pacific Northwest must build out **5,000-7,000 megawatts of storage** — enough to power **2 to 3 million homes annually**.

Benefits of Pumped Storage



Stable, affordable energy prices



Resistant to supply chain disruptions



Long-lasting, with facilities operational for 100+ years



Reliable, ensuring grid stability for intermittent renewables



Affordable, costing **20-30% less** than installed lithium-ion batteries*

*Source: Electric Power Research Institute



Goldendale, Washington is a renewable energy hub near the Oregon-Washington border

Goldendale Energy Storage Project

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**.

JOBS + LOCAL ECONOMIC BENEFITS



3,000+ family-wage jobs during four-year construction period



Jobs that pay more than double the median local wage*

*In 2021, the median hourly wage for non-federal jobs in Klickitat County was \$25.31.



Job training and apprenticeships



Dozens of permanent jobs



Generates \$14 million+ tax dollars annually in Klickitat County



Millions to local restaurants, hotels, stores and businesses

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

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