

Douglas County PUD Hydrogen

Shiloh Burgess- Government Affairs Manager



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM



Wells Dam

- Located in Central Washington on the Columbia River
- Hydrocombine Design
- 840MW



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM

Hydroelectric Resource Challenges



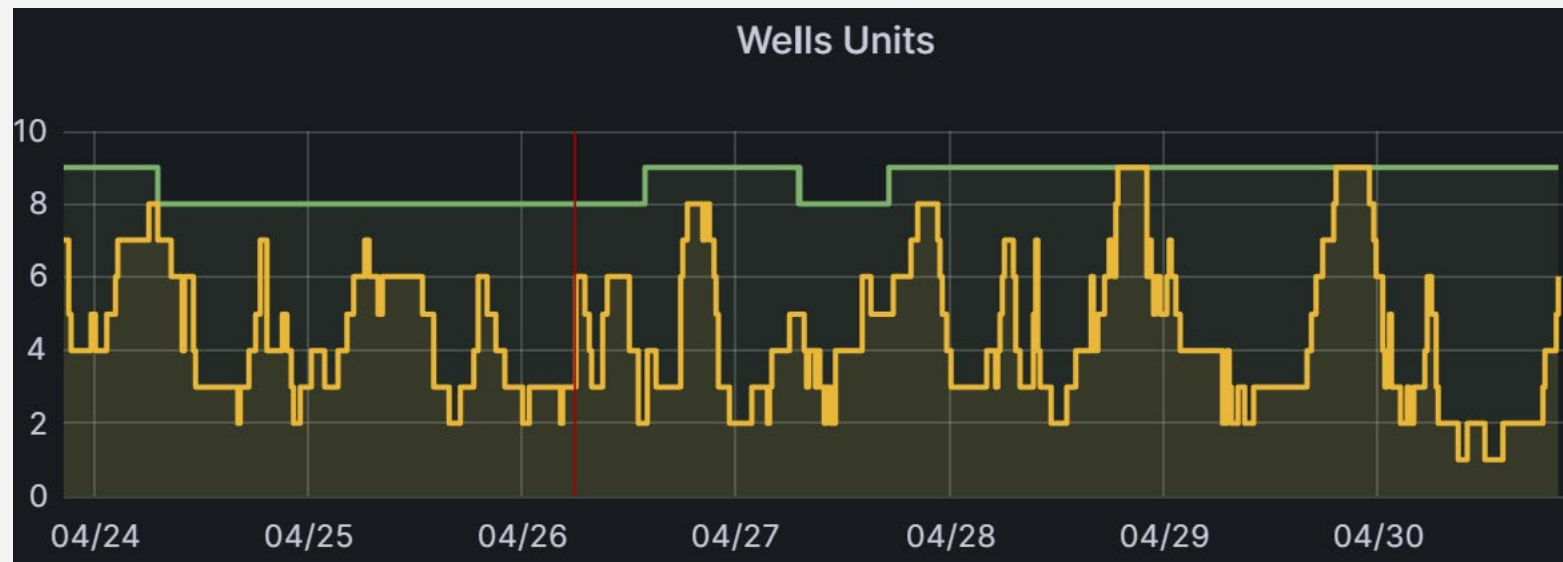
- Spill
- Turbine/Mechanical Wear
- Maximize Efficiency
- Reserves
- WA Clean Energy Transformation Act



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM

Why Renewable H2?

- Flexible and interruptible load we control
- Reduces Mechanical Wear and Tear
- Reduce Spill
- Grid Services



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM

Douglas PUD Hydrogen Facility



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM

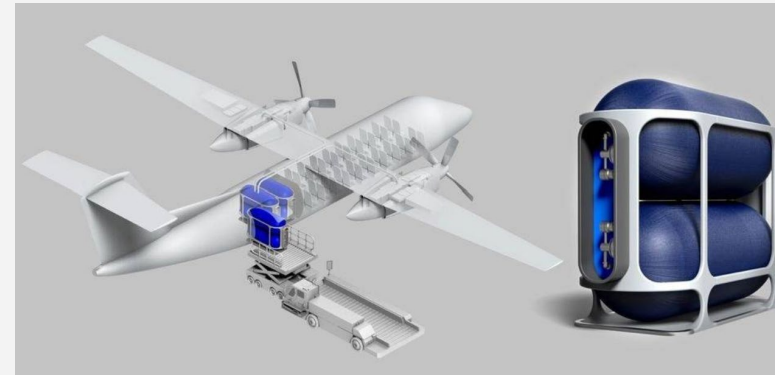
Douglas County PUD Hydrogen Facility



- Facility is expandable
- Initial Startup 5MW
- Over 2 metric tons of hydrogen per day
- Onsite Storage
- Phase one complete Spring 2024



Hydropower = Hydrogen



WATER.POWER.WEEK.
WASHINGTON, D.C. • MAY 8-10, 2023
CAPITAL HILTON • WATERPOWERWEEK.COM