

Hydropower in WASHINGTON



Wanapum Dam

97

Hydropower facilities including **Grand Coulee Dam**

68,000,000 MWh

Net Electricity Generation Annually

Residents benefit from hydropower.

26.7% lower electric bills than the rest of the U.S.

13

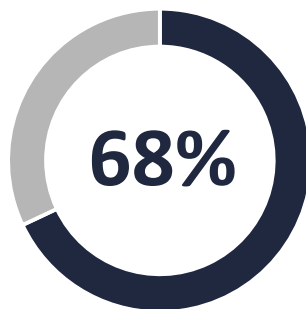
Utilities with hydropower in their fleet

Equivalent number of homes powered by hydropower



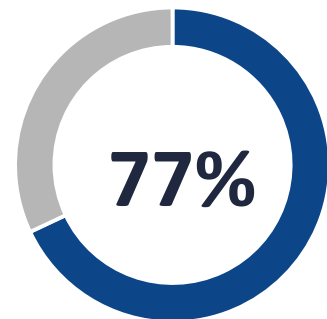
6.35 MILLION

Washington's hydropower as a % of total energy



■ Hydropower


% of Washington's renewable energy from hydropower





■ Renewable Energy

16.3 million tons of CO2 equivalent emissions are avoided by hydropower generation.

That's like taking **3.5 million cars** off the road each year.

Potential Growth	
Amount of technical potential hydropower at current non-powered dams over 1MW (total capacity MW):	68.4 MW
Amount of technical potential hydropower at new stream reaches outside wilderness, national parks, etc. (total capacity MW):	6,055 MW
Theoretical marine hydrokinetic potential on the coastline of the state:	140TWh/yr

Jobs & Economic Benefits	
Number of jobs in the Northwest created by hydropower:	7,400
Percent of hydropower workers in the Northwest who are skilled or craft workers:	40.5%
Number of additional jobs needed by 2040 in the Northwest to support hydropower growth, workforce retirements, and rehabilitating older facilities:	3,700

Environmental Benefits	
Monitor and regulate water temperatures and moderate effects of climate change at hydropower facilities to maintain safe water conditions for fish and aquatic species, especially during hot summer extremes.	
Fish hatcheries to help recover ESA-listed species important to the state’s history and cultural identity.	
Protection and conservation of wildlife habitat such as old-growth and second-growth forests, riparian and migratory corridors, and wetlands.	
An on demand resource for integration of other intermittent carbon free resources, like wind and solar, providing instant energy when the sun isn’t shining or the wind isn’t blowing.	

Recreation Benefits	
Hydropower provides recreation opportunities to communities: <ul style="list-style-type: none"> Boating of all types - whitewater boating, rafting, flatwater boating, kayaking fishing – shore, boat, river, and lake swimming biking – mountain and road hiking wildlife viewing camping & more! 	No other energy source provides recreation like hydropower does.


NWA
 NORTH WEST
 HYDROELECTRIC
 ASSOCIATION

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Sources:

- www.eia.gov/energyexplained/hydropower/where-hydropower-is-generated.php
- www.hydro.org/map/hydro/
- www.eia.gov/tools/faqs/faq.php?id=97&t=3
- <https://www.nrel.gov/docs/fy19osti/74313.pdf>