

# Hydropower in IDAHO



# 139

Hydropower facilities including **Black Canyon**

# 8,500,000 MWh

Net Electricity Generation Annually

Residents benefit from hydropower.

## 27.8% lower electric bills than the rest of the U.S.

# 280

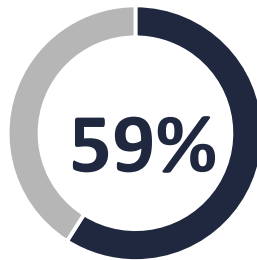
Generating units at the facilities

Equivalent number of homes powered by hydropower



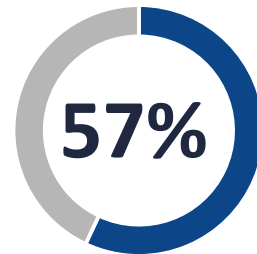
# 793,000

Idaho's hydropower as a % of total energy



■ Hydropower


% of Idaho's renewable energy from hydropower





■ Renewable Energy

5 million metric tons CO2 equivalent emissions are avoided by hydropower generation.

## That's like taking 1.1 million cars off the road each year.

| Potential Growth                                                                                                             |  |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Amount of technical potential hydropower at current non-powered dams over 1MW (total capacity MW):                           | <b>4.4 MW</b>                                                                       |
| Amount of technical potential hydropower at new stream reaches outside wilderness, national parks, etc. (total capacity MW): | <b>4,937 MW</b>                                                                     |
| Theoretical marine hydrokinetic potential from river currents within the state:                                              | <b>76 TWh/yr</b>                                                                    |

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

| 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"> <li>Boating of all types - whitewater boating, rafting, flatwater boating, kayaking</li> <li>fishing – shore, boat, river, and lake</li> <li>swimming</li> <li>biking – mountain and road</li> <li>hiking</li> <li>wildlife viewing</li> <li>camping &amp; more!</li> </ul> | No other energy source provides recreation like hydropower does.                      |

**NWHA**  
  
 NORTHWEST HYDROELECTRIC ASSOCIATION

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Sources:

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