

# Hydropower in ALASKA



Swan Lake

**41**

Hydropower facilities including **Blue Lake**

**1,640,000 MWh**

Net Electricity Generation Annually

**1,800 TWh/yr Potential**

Untapped clean energy offers 1,800 TWh/yr to Alaskans to reduce oil dependency

**86**

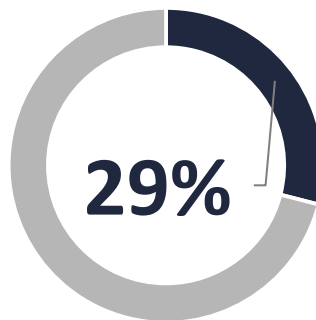
Generating units at the facilities

Equivalent number of homes powered by hydropower



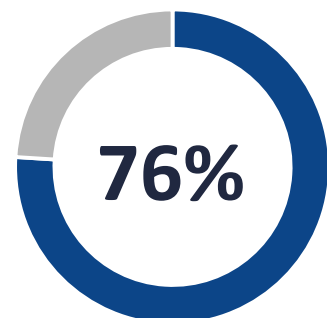
**153,056**

Alaska's hydropower as a % of total energy



■ Hydropower

% of Alaska's Renewable Energy from Hydropower



■ Renewable Energy

## Potential Growth





Amount of technical potential hydropower at new stream reaches outside wilderness, national parks, etc. (total capacity MW):

**4,530 MW**

Theoretical marine hydrokinetic potential on the coastline of the state:

**1,800 TWh/yr**

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	
<p>Hydropower provides recreation opportunities to communities:</p> <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>	<p>No other energy source provides recreation like hydropower does.</p>



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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>