

Hydropower in BRITISH COLUMBIA



122

Hydropower facilities including **Mica Dam**

16,000 MWh

Installed hydropower capacity

Residents benefit from hydropower.

B.C.'s electricity rates are among the lowest in N. America

9

New Hydropower Facilities currently under construction

Equivalent number of homes powered by hydropower



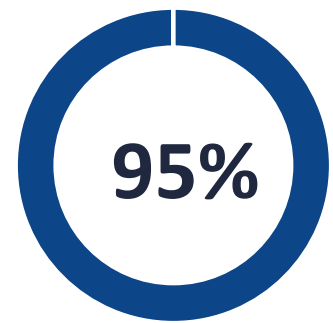
438,000

British Columbia Energy Sources



■ Renewable Energy


% of BC's Renewable Energy from Hydropower





■ Hydropower

Greenhouse Gas Emissions in Canada are 60 times less than coal-fired plants.

Hydropower emits no air pollutants and no toxic waste-by products.

Potential Growth	
How much additional electricity will BC need in the next 20-25 years.	30,000 GW
Potential new hydropower available at stream reaches outside wilderness, national parks, etc. (total capacity MW)	8,000 sites
Theoretical potential of these identified sites:	50,000GWh/yr

Jobs & Economic Benefits	
How many jobs in the British Columbia are created by hydropower?	6,128

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"> • 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.



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NORTH WEST HYDROELECTRIC ASSOCIATION

Sources:

- <https://cleanenergybc.org/sector/large-hydro/>
- <https://www.esri.com/about/newsroom/arcnews/unlocking-british-columbias-hydropower-potential/>
- <https://www.cer-rec.gc.ca/en/data-analysis/energy-commodities/electricity/report/2016-canadian-renewable-power/province/canadas-renewable-power-landscape-2016-energy-market-analysis-british-columbia.html>