

# BC Hydro quick facts\*



We are here to safely provide our customers with reliable, affordable, clean electricity

A commercial  **crown corporation** owned by the province of British Columbia

Provides over **4,000,000** customers with reliable electricity

Fifth lowest <sup>\*\*</sup> residential rates in North America 



**98.0%**  
clean electricity generated in B.C. in 2020/21

Serves **95%** of the province's population

The average household uses approximately **11,000 kWh** per year

Our Demand Side Management portfolio achieved **801 GWH of new incremental electricity savings in 2020/21\*\*\***



**30**  
Hydro Plants 



BC Hydro has a network of approximately **80,000 kms** of transmission & distribution lines

**Over 300**  
substations 

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\* For the year ended March 31, 2021

\*\* Out of 22 North American Utilities surveyed for the 2020 Comparison of Electricity Prices in Major North American Cities by Hydro-Québec

\*\*\*Including programs, codes and standards and conservation rates

 **BC Hydro**  
Power smart

## Financial Information

(in millions)

for the years ended or as at March 31	2021	2020 <sup>1</sup>
Revenues	\$ 6,414	\$ 6,269
Net income (Loss)	\$ 688	\$ 705
Property, plant and equipment, Right-of-way assets and intangible assets	\$ 33,682	\$ 31,510
Property, plant and equipment and intangible expenditures	\$ 3,207	\$ 3,082
Net long-term debt	\$ 24,470	\$ 23,354

### Definitions

**power** = how much electricity is consumed by customers or produced by power generators at any instant in time

**energy** = how much is consumed or produced over a period of time

**capacity** = the maximum sustainable amount of electricity that can be produced or delivered at any instant. Example: a car engine's horsepower rating is its energy capacity

### Units of power

- 1 kilowatt (kW) = 1,000 watts
- 1 megawatt (MW) = 1,000 kilowatts (or 1 million watts)
- 1 gigawatt (GW) = 1,000 megawatts (or 1 billion watts)

### Units of energy

- 1 kilowatt hour (kWh) = 1,000 watts for 1 hour (1,000 watt hours)
- 1 megawatt hour (MWh) = 1,000 kWh
- 1 gigawatt hour (GWh) = 1,000 MWh
- (Note that the abbreviations for prefixes follow metric convention, so kilo is k, while mega and giga are capitalized. The abbreviation for watt is W.)

### Power to Energy ratios—rule of thumb

- Power to energy—for thermal electric: MW x 8 = GWh per year
- Power to energy—for large hydro: MW x 5 = GWh per year

<sup>1</sup> In 2019/20, certain amounts in the comparative figures have been reclassified to conform to the 2020/21 presentation

## Operating Statistics

for the years ended or as at March 31	2021	2020 <sup>2</sup>
<b>Customer accounts</b>		
Residential	1,896,518	1,863,569
Light industrial and commercial	218,196	215,063
Large industrial	202	198
Other	3,383	3,396
Trade	154	159
<b>Total</b>	<b>2,118,453</b>	<b>2,082,385</b>

Domestic Electricity Sold (gigawatt-hours)	2021	2020
Residential	18,983	17,993
Light industrial and commercial	18,091	18,692
Large industrial	12,438	13,398
Other	1,628	1,848
<b>Total</b>	<b>51,140</b>	<b>51,931</b>

Revenues (in millions)	2021	2020
Residential	\$2,210	\$2,169
Light industrial and commercial	1,830	1,942
Large industrial	762	850
Surplus Sales	—	—
Other sales	435	432
<b>Total Domestic Revenues</b>	<b>\$5,237</b>	<b>\$5,393</b>

Average Revenue (per kilowatt-hour)	2021	2020
Residential	11.6¢	12.1¢
Light industrial and commercial	10.1¢	10.4¢
Large industrial	6.1¢	6.3¢

Average Annual Kilowatt-Hour Use Per Residential Customer Account	2021	2020
	10,997	9,735

Peak One-Hour Integrated System Demand (megawatts)	2021	2020
	10,076	10,577

Lines In Service	2021	2020
Distribution (kilometres)	59,907	59,694
Transmission (circuit kilometres)	19,958	20,389

\* BC Hydro entered into a new Transfer Pricing Agreement with Powerex in 2020/21 replacing a previous agreement which was established in 2002/03. As a result, the comparative period 2019/20 was restated for presentation changes between domestic and trade revenue and cost of energy (\$ and GWh).

## Generating Capacity in MW

Hydroelectric	Megawatts (MW)
Aberfeldie .....	25.0
Alouette.....	9.0
Ash River .....	28.0
Bridge River .....	478.0
Cheakamus .....	174.0
† Clayton Falls.....	2.0
Clowhom .....	33.0
Elko .....	12.0
Falls River.....	7.0
V GM Shrum .....	2,857.0
John Hart.....	136.0
Jordan River .....	170.0
Kootenay Canal.....	583.0
Ladore .....	47.0
La Joie.....	25.0
R Lake Bunzten .....	76.8
Mica.....	2,746.5
Peace Canyon.....	694.0
R Puntledge.....	24.0
V Revelstoke.....	2,480.0
Ruskin.....	105.0
R Seton.....	48.0
Seven Mile .....	805.0
R Shuswap .....	6.0
Spillimacheen.....	4.0
V R Stave Falls .....	91.0
R Strathcona.....	64.0
Waneta (1/3).....	164.4
R Wahleach.....	65.0
Walter Hardman.....	8.0
Whatshan .....	59.0
	<u>12,026.7</u>
<b>Thermal</b>	
Fort Nelson .....	73.0
Prince Rupert .....	46.0
	<u>119.0</u>
<b>Diesel Generation</b>	
† Ah-Sin-Heek .....	8.1
† Anahim Lake .....	3.1
† Atlin .....	2.7
† Bella Bella.....	4.9
† Dease Lake.....	2.5
Eddontenajon .....	1.2
† Elhlateese.....	0.2
† Good Hope Lake.....	0.8
† Hartley Bay.....	1.0
† Kwadacha .....	1.8
† Masset .....	10.4
McBride.....	5.0
† Sandspit.....	11.3
Takla.....	0.6
† Telegraph Creek.....	1.8
† Toad River.....	0.6
† Tsay Keh Dene.....	2.4
	<u>58.4</u>
<b>Total Capacity</b> .....	<u>12,204.1</u>
R Has recreational area	
V Has visitor centre	
† Non-integrated area	

Generation capacity figures may vary slightly from those stated in BC Hydro's Annual Service Plan Report due to recent plant upgrades/updates.

## BC Hydro

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A downloadable version of this information is available at:

[bchydro.com/quickfacts](http://bchydro.com/quickfacts)