

BC Hydro quick facts*



Providing customers with **reliable, affordable** and **clean** electricity throughout B.C., safely.

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

Provides **4,000,000** customers with reliable power

The third lowest residential rates**  in North America



98.3%
clean electricity generated in B.C. in fiscal 2016

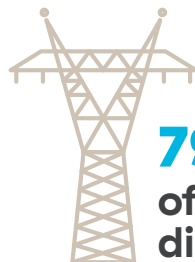
Serves **95%** of the province's population

The average household uses approximately **10,000 kWh** per year

Power Smart conservation programs achieved **cumulative energy savings of 5,091 GWh in fiscal 2016*****

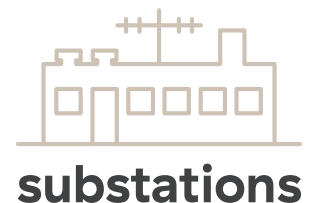


30
Hydro Plants



BC Hydro has a network of over **79,000 kms** of transmission & distribution lines

Over 300



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* For the year ended March 31, 2016

** Out of 22 North American Utilities surveyed for the 2015 Comparison of Electricity Prices in Major North American Cities by Hydro-Québec.

***Cumulative energy savings from fiscal 2008 to fiscal 2016

 **BC Hydro**
Power smart

Financial Information

(in millions)

| for the years ended or as at March 31 | 2016 | 2015 |
|---|-----------|-----------|
| Revenues | \$ 5,657 | \$ 5,748 |
| Net income | \$ 655 | \$ 581 |
| Property, plant and equipment and intangible assets | \$ 21,994 | \$ 20,480 |
| Property, plant and equipment and intangible expenditures | \$ 2,306 | \$ 2,169 |
| Net long-term debt | \$ 18,002 | \$ 16,682 |

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

BC Hydro

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British Columbia, Canada V6B 5R3

A downloadable version of this information is available at:

bchydro.com/quickfacts



Operating Statistics

for the years ended or as at March 31 2016 2015

| Customer accounts | 2016 | 2015 |
|---------------------------------|------------------|------------------|
| Residential | 1,751,296 | 1,727,945 |
| Light industrial and commercial | 205,615 | 203,466 |
| Large industrial | 185 | 183 |
| Other | 3,459 | 3,474 |
| Trade | 214 | 226 |
| Total | 1,960,769 | 1,935,294 |

| Domestic Electricity Sold (gigawatt-hours) | 2016 | 2015 |
|--|---------------|---------------|
| Residential | 17,331 | 17,047 |
| Light industrial and commercial | 18,421 | 18,564 |
| Large industrial | 13,669 | 14,020 |
| Other | 7,879 | 1,582 |
| Total | 57,300 | 51,213 |

| Revenues (in millions) | 2016 | 2015 |
|---|----------------|----------------|
| Residential | \$1,842 | \$1,712 |
| Light industrial and commercial | 1,685 | 1,597 |
| Large industrial | 766 | 748 |
| Other energy sales | 464 | 280 |
| Domestic Revenues before Regulatory Transfers | 4,757 | 4,337 |
| Regulatory Transfers | 299 | 492 |
| Total Domestic Revenues | \$5,056 | \$4,829 |

| Average Revenue (per kilowatt-hour) ¹ | 2016 | 2015 |
|--|-------|-------|
| Residential | 10.6¢ | 10.0¢ |
| Light industrial and commercial | 9.1 | 8.6 |
| Large industrial | 5.6 | 5.3 |

| Average Annual Kilowatt-Hour Use Per Residential Customer Account | 2016 | 2015 |
|---|-------|-------|
| | 9,958 | 9,919 |

| Peak One-Hour Integrated System Demand (megawatts) | 2016 | 2015 |
|--|-------|-------|
| | 9,602 | 9,441 |

| Lines In Service | 2016 | 2015 |
|-----------------------------------|--------|--------|
| Distribution (kilometres) | 58,765 | 58,518 |
| Transmission (circuit kilometres) | 20,176 | 19,792 |

| Water Inflows (% of average) | 2016 | 2015 |
|------------------------------|------|------|
| | 97 | 102 |

¹ Average Revenue is before regulatory transfers.

Generating Capacity in MW

| Hydroelectric* | Megawatts (MW) |
|-----------------------------|------------------------|
| Aberfeldie..... | 25.0 |
| Alouette..... | 9.0 |
| Ash River..... | 28.0 |
| Bridge River..... | 478.0 |
| Cheakamus..... | 158.0 |
| † Clayton Falls..... | 2.0 |
| Clowhom..... | 33.0 |
| Elko..... | 12.0 |
| Falls River..... | 7.0 |
| √ GM Shrum..... | 2,730.0 |
| John Hart..... | 126.0 |
| 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 |
| √ Revelstoke..... | 2,480.0 |
| Ruskin..... | 105.0 |
| R Seton..... | 48.0 |
| Seven Mile..... | 805.0 |
| R Shuswap..... | 6.0 |
| Spillimacheen..... | 4.0 |
| √ R Stave Falls..... | 91.0 |
| R Strathcona..... | 64.0 |
| R Wahleach..... | 65.0 |
| Waneta (1/3)..... | 164.4 |
| Walter Hardman..... | 8.0 |
| Whatshan..... | 54.0 |
| | <u>11,868.7</u> |
| Thermal | |
| Fort Nelson..... | 73.0 |
| Prince Rupert..... | 46.0 |
| | <u>119.0</u> |
| Diesel Generation | |
| † Ah-Sin-Heek..... | 7.6 |
| † Anahim Lake..... | 3.9 |
| † Atlin..... | 2.7 |
| † Bella Bella..... | 4.9 |
| † Dease Lake..... | 3.5 |
| † Eddontenajon..... | 1.7 |
| † Elhlateese..... | 0.2 |
| † Hartley Bay..... | 1.1 |
| † Kwadacha..... | 1.8 |
| † Masset..... | 13.1 |
| † McBride..... | 5.0 |
| † Sandspit..... | 10.2 |
| † Takla..... | 0.6 |
| † Telegraph Creek..... | 1.8 |
| † Tsay Keh Dene..... | 1.1 |
| † Toad River..... | 0.6 |
| | <u>59.8</u> |
| Total Capacity | <u>12,047.5</u> |

- * Maximum sustained generating capacity
- R Has recreational area
- √ Has visitor centre
- † Non-integrated area

Generation capacity figures may vary slightly from those stated in BC Hydro's Annual Report due to recent plant upgrades/updates. For capacity in kW see BC Hydro's Annual Financial Report to the British Columbia Utilities Commission.