

# QUICK FACTS



FOR THE YEAR ENDED MARCH 31, 2012

## Corporate Purpose

**BC Hydro's corporate purpose is to power B.C. with clean, reliable electricity for generations.**

## Our Business

BC Hydro is a commercial Crown corporation owned by the Province of British Columbia. BC Hydro is one of North America's leading providers of clean, renewable energy, and the largest electric utility in British Columbia, serving approximately 95 per cent of the province's population and approximately 1.9 million customers.

We are responsible for reliably generating between 43,000 and 56,000 gigawatt hours (GWh) of electricity per year. Electricity is delivered to our customers through a network of over 75,000 kilometres of transmission and distribution lines, approximately 300 substations, 900,000 utility poles and 325,000 individual transformers.

## 2012 Facts

- Net income after regulatory transfers was \$558 million, \$31 million below the prior year. This decrease was primarily due to the impact of the Province's Direction No. 3 to the BC Utilities Commission, which reflected the outcome of the provincial government review of BC Hydro and set electricity rates increases at 8 per cent, 3.9 per cent and 1.44 per cent for fiscal 2012, 2013, 2014, respectively.
- Inflows for fiscal 2012 were 108 per cent of average, following two successive low water years. At March 31, 2012, the combined system storage in BC Hydro reservoirs was 110 per cent of average compared to 99 per cent of average at March 31, 2011.
- Power Smart conservation programs continued to deliver cost-effective energy, producing cumulative annual energy savings of 3,424 GWh in fiscal 2012.
- Capital expenditures were \$1.9 billion, \$400 million above the prior year expenditures as the Company continues to renew its aging infrastructure and expand its facilities to meet future load growth, including generation replacement and expansion projects, transmission projects, and the Smart Metering and Infrastructure Program (SMI).

## Energy Facts

### 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 energy that can be produced or carried 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

### Comparison statistics

- The average household in BC Hydro's service area uses about 11,000 kWh per year.
- A large industrial customer, such as a pulp mill, might use 400 GWh in a year, equal to the consumption of 40,000 households.
- A typical large office building of 20–25 storeys might consume 5 GWh in a year, equal to the consumption of 500 households.
- A large "big box" retail outlet might consume 3.5 GWh per year, or roughly the equivalent of 350 households.
- A 1 MW micro hydro plant produces about 4 GWh per year of green energy.

## Financial Information (in millions)

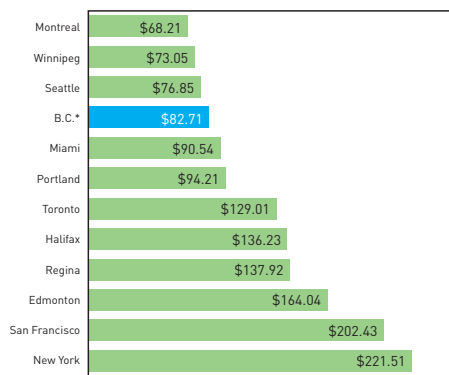
For the years ended as at March 31

	2012	2011
Revenues	\$ 4,684	\$ 4,016
Net income	\$ 558	\$ 589
Property, plant and equipment and intangible assets	\$ 16,832	\$ 15,546
Property, plant and equipment and intangible additions	\$ 1,917	\$ 1,519
Net long-term debt <sup>1</sup>	\$ 12,795	\$ 11,520

<sup>1</sup>Consists of long-term debt, including the current portion, net of sinking funds and cash and cash equivalents.

## Residential Rates

Monthly \$ Bills per 1,000 kWh



Hydro-Quebec Electricity Prices Comparison Report – Residential Monthly Bills as of April 1, 2011 (except BC Hydro May 1, 2011 bills).

Note: All bills and average rates are in Canadian currency and exclude taxes. "B.C." refers to BC Hydro service territory.

### BC Hydro

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British Columbia, Canada V6B 5R3

A downloadable version of this information is available at:

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

## Operating Statistics

For the years ended as at March 31

	2012	2011
Customers		
Residential	1,671,412	1,654,079
Light industrial and commercial	197,821	195,402
Large industrial	168	166
Other	3,490	3,490
Trade	264	269
Total	1,873,155	1,853,406
Electricity sold (gigawatt hours)		
Residential	18,395	17,797
Light industrial and commercial	18,005	18,052
Large industrial	13,522	13,164
Other energy sales <sup>2</sup>	2,275	1,647
Total domestic	52,197	50,660
Trade (electricity and gas)	54,548	49,615
Total	106,745	100,275
Domestic Change Over Previous Year (%)	3.0	0.9
Revenues (in millions)		
Residential	\$ 1,531	\$ 1,366
Light industrial and commercial	1,321	1,243
Large industrial	680	590
Other energy sales	177	239
Total domestic	3,709	3,438
Trade	975	578
Total	\$ 4,684	\$ 4,016
Average revenue (per kilowatt-hour)		
Residential	8.3 ¢	7.7 ¢
Light industrial and commercial	7.3	6.9
Large industrial	5.0	4.5
Other	7.8	14.5
Trade <sup>1</sup>	4.0	4.0
Average annual kilowatt hour use per residential customer	11,067	10,818
Peak one-hour demand integrated system (megawatts)	9,929	9,790
Lines in service		
Distribution (kilometres)	57,914	57,648
Transmission (circuit kilometres)	18,864	18,764

<sup>1</sup> The method used to calculate trade revenue per kWh is based on gross trade revenues.

<sup>2</sup> Other energy sales GWh have been revised to include surplus energy sales.

## Generating Capacity in kW

Hydroelectric*	Kilowatts (kW)
Aberfeldie.....	25,000
Alouette.....	9,000
Ash River.....	28,000
Bridge River.....	478,000
Cheakamus.....	158,000
† Clayton Falls.....	2,000
Clowhom.....	33,000
Elk River.....	12,000
Falls River.....	7,000
V GM Shrum.....	2,730,000
John Hart.....	126,000
Jordan.....	170,000
Kootenay Canal.....	583,000
Ladore.....	47,000
La Joie.....	25,000
R Lake Bunzten.....	72,800
Mica.....	1,805,000
V Peace Canyon.....	694,000
R Puntledge.....	24,000
V Revelstoke.....	2,480,000
Ruskin.....	105,000
R Seton.....	48,000
Seven Mile.....	805,000
R Shuswap.....	6,000
Spillimacheen.....	4,000
V R Stave Falls.....	91,000
R Strathcona.....	64,000
R Wahleach.....	65,000
Waneta.....	164,420
Walter Hardman.....	8,000
Whatshan.....	54,000
	10,923,220
* Maximum sustained generating capacity	
R Has recreational area	
V Has visitor centre	
† Non-integrated area	
Thermal	
Burrard.....	950,000
Fort Nelson.....	73,000
Prince Rupert.....	46,000
	1,069,000
Diesel Generation	
† Ah-Sin-Heek.....	6,550
† Anahim Lake.....	3,550
† Atlin.....	2,680
† Bella Bella.....	3,300
† Dease Lake.....	1,850
† Eddontenajon.....	1,700
† Masset.....	12,545
† Sandspit.....	12,950
† Telegraph Creek.....	1,800
† Toad River.....	600
	47,525
Total Capacity.....	12,039,745

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