



# Quick Facts

For the year ended March 31, 2007

## Corporate Purpose

BC Hydro's corporate purpose is to provide reliable power, at low cost, for generations.

## Business of BC Hydro

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 1.7 million customers. We are responsible for reliably generating between 43,000 and 54,000 gigawatt hours (GWh) of electricity. Electricity is delivered to customers through an interconnected system of 18,280 kilometres of transmission lines and 55,705 kilometres of distribution lines.

## Facts of Interest

- Net income was \$407 million, compared with \$266 million the year before, resulting in a return on equity of 13.44%. Increased net income was due in part to higher customer rates, increased consumption, higher energy trading income, lower energy costs and lower amortization expenses.
- Power Smart conservation programs continued to deliver cost-effective energy, producing cumulative annual incremental energy savings of 2,518 GWh.
- The provincial government's *BC Energy Plan: A Vision for Clean Energy Leadership* was released in February 2007. The 2007 BC Energy Plan provides policy direction and guidance for BC Hydro to provide and acquire power in advance of future needs.
- On November 10, 2006, the British Columbia Utilities Commission (BCUC) approved the Negotiated Settlement Agreement (NSA) with respect to the F2007/2008 Revenue Requirements Application (F07/08 RRA). BCUC approved a rate increase of 1.54 per cent effective July 1, 2006, and a further 2.1 per cent effective February 1, 2007, for a total increase of 3.64 per cent. Included in the February 1, 2007, rate increase is a two per cent rate rider for the purpose of recovering a portion of the current balances in the energy deferral accounts.
- From October to January, BC Hydro incurred \$37 million in storm restoration costs related to several major storms that occurred throughout British Columbia.

## 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 will consume 5 GWh in a year, equal to the consumption of 500 households.
- A large "big box" retail outlet will consume 3.5 GWh per year, or roughly the equivalent of 350 households.
- A 1 MW micro hydro plant produces about 5 GWh per year of green energy

## Financial Information

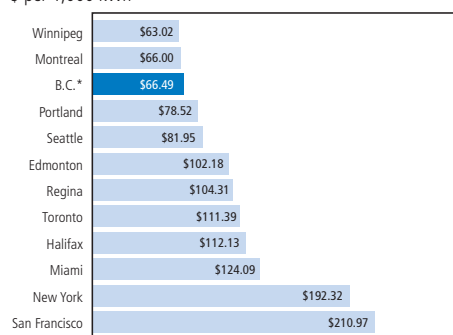
(in millions)

For the years ended or as at March 31	2007	2006
Revenues	\$4,197	\$4,311
Net income	\$407	\$266
Property, plant and equipment and intangible assets	\$10,422	\$10,023
Property, plant and equipment and intangible asset expenditures	\$807	\$610
Net long-term debt <sup>1</sup>	\$6,916	\$6,627

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

## Residential Rates

\$ per 1,000 kWh



Note: All bills and average rates are in Canadian currency and exclude taxes. "B.C." refers to BC Hydro service territory. A U.S. exchange rate of \$0.85 was used. Source for rates: April 2006 Hydro Quebec Survey. \* B.C. rates effective February 1, 2007 (including 2% rate rider).

## Operating Statistics

For the years ended or as at March 31	2007	2006
<b>Customers</b>		
Residential.....	1,540,176	1,511,435
Light industrial and commercial.....	193,070	189,764
Large industrial.....	146	146
Other.....	3,349	3,326
Trade.....	246	221
<b>Total.....</b>	<b>1,736,987</b>	<b>1,704,892</b>
<b>Electricity sold (gigawatt hours)</b>		
Residential.....	16,651	16,261
Light industrial and commercial.....	18,268	17,913
Large industrial.....	15,989	16,428
Other.....	2,003	1,838
Trade (electricity & gas).....	41,336	36,547
<b>Total.....</b>	<b>94,247</b>	<b>88,987</b>
<b>Revenues (in millions)</b>		
Residential.....	\$ 1,070	\$ 1,046
Light industrial and commercial.....	1,025	989
Large industrial.....	556	584
Other energy sales.....	99	92
Miscellaneous.....	41	16
Trade.....	1,406	1,584
<b>Total.....</b>	<b>\$ 4,197</b>	<b>\$ 4,311</b>
<b>Average revenue (cents per kWh)</b>		
Residential.....	6.4	6.4
Light industrial and commercial.....	5.6	5.5
Large industrial.....	3.5	3.6
Other.....	4.9	5.0
Trade <sup>1</sup> .....	6.9	7.8
<b>Average annual kilowatt hour use</b>		
per residential customer.....	10,906	10,846
Peak one-hour demand integrated system (megawatts).....	10,113	9,317
<b>Lines in service</b>		
Distribution (kilometres).....	55,705	55,224
Transmission (circuit kilometres).....	18,336	18,234
Number of employees <sup>2</sup> .....	4,546	4,203

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

<sup>2</sup> Includes full and part-time employees of BC Hydro and its subsidiaries.

## Generating Capacity in kW

Hydroelectric*	Kilowatts (kW)
Aberfeldie.....	5,000
Alouette.....	9,000
Ash River.....	28,000
Bridge River.....	476,000
Cheakamus.....	158,000
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.....	580,000
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.....	1,980,000
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
Walter Hardman.....	8,000
Whatshan.....	54,000
<b>Total.....</b>	<b>10,231,800</b>

\* Maximum sustained generating capacity

R Has recreational area

V Has visitor centre

† Non-integrated area

## Thermal

Burrard.....	950,000
Fort Nelson.....	47,000
Prince Rupert.....	46,000
<b>Total.....</b>	<b>1,043,000</b>

## Diesel Generation

† Ah-Sin-Heek.....	6,700
† Anahim Lake.....	3,650
† Atlin.....	2,650
† Bella Bella.....	3,900
† Dease Lake.....	3,980
† Eddontenajon.....	2,200
† Masset.....	11,524
† Sandspit.....	10,150
† Telegraph Creek.....	1,800
<b>Total.....</b>	<b>47,904</b>

## Total Capacity

<b>Total Capacity.....</b>	<b>11,322,704</b>
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## Transmission Lines in Service

	Circuit Kilometres	
For the years ended or as at March 31	2007	2006
500 kV lines.....	5,675	5,675
360, 287 and 230 kV lines.....	4,045	4,045
138 kV lines.....	4,842	4,802
60 kV lines.....	3,774	3,712
<b>Total.....</b>	<b>18,336</b>	<b>18,234</b>



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A downloadable version of this information is available at:

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