

Wind energy in Canada



Canada is a global leader in wind energy

12,239 MW total installed wind energy capacity in Canada...
enough to power over

3 million homes

That's 6% of Canada's electricity demand!

9th in the world

for installed capacity



#1 new source of electricity: WIND ENERGY

Largest source of new electricity generation in Canada for over a decade

295

Wind farms
across Canada

6,415

Number of grid-
connected turbines
in Canada

15%

5 year annual growth
rate of wind energy in
Canada (1,159 MW/year)



67%

Rate of decline of
wind energy costs
since 2009

**GROWTH
IN 2017**



341 MW
new installed capacity

\$800 million
investment in new
wind energy

10 total new
wind energy projects

5 new projects
with Aboriginal Peoples,
municipal or local ownership



Wind energy across Canada

Ontario

LARGEST WIND MARKET IN CANADA

- 4,900 MW current installed capacity
- 119 MW new in 2017
- 2,515 wind turbines
- Approximately 7.5% of electricity demand

Quebec

SECOND LARGEST WIND MARKET IN CANADA

- 3,510 MW current installed capacity
- 1,879 wind turbines
- Approximately 5% of electricity demand

Alberta

THIRD LARGEST WIND MARKET IN CANADA

- 1,479 MW current installed capacity
- 901 wind turbines
- Approximately 8% of electricity demand

Atlantic

Nova Scotia

- 610 MW current installed capacity
- 13 MW new in 2017
- Approximately 9% of electricity demand

New Brunswick

- 294 MW current installed capacity
- Approximately 6% of electricity demand

Prince Edward Island

- 204 MW current installed capacity
- Approximately 29% of electricity demand

Newfoundland and Labrador

- 55 MW current installed capacity
- Approximately 2% of electricity demand

British Columbia

- 698 MW current installed capacity
- 209 MW new in 2017
- Approximately 2% of electricity demand

Manitoba

- 258 MW current installed capacity
- Approximately 4% of electricity demand

Saskatchewan

- 221 MW current installed capacity
- Approximately 3% of electricity demand

Northwest Territories

- 9.2 MW current installed capacity
- Approximately 4% of electricity demand

Yukon

- 0.8 MW current installed capacity
- Approximately 0.1% of electricity demand