Wind energy in Canada

Canada is a global leader in wind energy

13,413 MW total installed wind energy capacity in Canada... enough to power approximately 3.4 million homes

9th in the world
for total onshore installed capacity
(Global Wind Energy Council 2019)

301
Wind farms across Canada

6,771
Number of turbines in Canada

16%
10 year average annual growth rate of wind energy in Canada

70%
Rate of decline of wind energy costs since 2009
(Lazard 13.0)

GROWTH IN 2019

597 MW
new installed capacity

over $1 billion
investment in new wind energy

5 total new
wind energy projects

2 new projects
with Indigenous and local ownership stakes

Wind energy across Canada

Ontario
Largest wind market in Canada
- Current number of projects: 94
- 5,436 MW installed capacity
- 360 MW new in 2019
- 2,681 wind turbines

Quebec
Second largest wind market in Canada
- Current number of projects: 47
- 3,882 MW installed capacity
- 1,990 wind turbines

Alberta
Third largest market in Canada
- Current number of projects: 38
- 1,685 MW installed capacity
- 202 MW new in 2019
- 957 wind turbines

Atlantic

Nova Scotia
- Current number of projects: 78
- 616 MW installed capacity
- 309 wind turbines

New Brunswick
- Current number of projects: 6
- 314 MW installed capacity
- 119 wind turbines

Prince Edward Island
- Current number of projects: 10
- 204 MW installed capacity
- 104 wind turbines

Newfoundland and Labrador
- Current number of projects: 4
- 55 MW installed capacity
- 27 wind turbines

British Columbia
- Current number of projects: 9
- 713 MW installed capacity
- 15 MW new in 2019
- 292 wind turbines

Manitoba
- Current number of projects: 4
- 258 MW installed capacity
- 133 wind turbines

Saskatchewan
- Current number of projects: 8
- 241 MW installed capacity
- 20 MW new in 2019
- 153 wind turbines

Northwest Territories
- Current number of projects: 1
- 9 MW installed capacity
- 4 wind turbines

Yukon
- Current number of projects: 2
- 0.8 MW installed capacity
- 2 wind turbines

Sources: CanWEA December 2019 unless otherwise noted