

WIND FACTS

WIND BY THE NUMBERS: ECONOMIC BENEFITS OF WIND ENERGY



Wind energy is generating affordable, clean electricity while creating new jobs and economic development opportunities in communities across the country. Here are some of the economic benefits being realized today – and opportunities for tomorrow.

- Canada is now the ninth largest producer of wind energy in the world with current installed capacity at **5,403 MW** – representing about **2.3 per cent** of Canada's total electricity demand.
- Canada enjoyed a record year in 2011 the addition of **1,267 MW** of new wind energy capacity to provincial grids, representing an investment of **\$3.1 billion** and creating **13,000 person-years** of employment.
- 2011 was also a record year for new wind energy installations in Ontario with more than **500 MW** installed by the end of year.
- More than **6,000 MW** of wind energy projects are already contracted to be built in Canada over the next five years.
- Ontario is expected to install more than **5,600 MW** of new wind energy capacity by 2018, creating **80,000 person-years** of employment, attracting **\$16.4 billion of private investments** (with more than half of that invested in the province), and contributing more than **\$1.1 billion of revenue to municipalities** and landowners in the form of taxes and lease payments over the 20-year lifespan of the projects.¹
- Wind energy drives jobs and local benefits at prices that are competitive with other new sources of electricity. According to new research from Bloomberg New Energy Finance: "The cost of electricity from onshore wind turbines will **drop 12 per cent in the next five years** thanks to a mix of lower-cost equipment and gains in output efficiency."
- CanWEA believes that wind energy can satisfy **20 per cent** of Canada's electricity demand **by 2025**. The benefits of achieving this vision are many:
 - \$79 billion in new investment
 - 52,000 new high quality jobs
 - \$165 million in annual revenues for municipalities
 - Reducing Canada's annual greenhouse gas emissions by 17 megatonnes

¹ The Economic Impacts of the Wind Energy Sector in Ontario 2011 – 2018, by ClearSky Advisors, http://www.canwea.ca/wind-energy/talkingaboutwind_e.php



WINDVISION 2025
POWERING CANADA'S FUTURE

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- CanWEA released a wind vision for British Columbia which called on the BC government to install **5,250 MW** of cost-competitive and low-impact wind power capacity **by 2025**. This would generate **\$16 billion in new investment** with **\$3.7 billion** flowing directly to **BC communities** and meet **17 per cent** of BC's total electricity demand. Download *CanWEA's WindVision 2025 – A Strategy for British Columbia* at: www.canwea.ca/windvision_bc_e.php
- CanWEA's *WindVision 2025 – A Strategy for Quebec* proposes that an average of **800 MW** of wind energy capacity be added each year between 2016 and 2025 – for a **total of 8,000 MW** – increasing wind energy to 20 per cent of Quebec's overall installed capacity for electricity generation. This long-term objective would stimulate **\$25 billion in industry investment** and create nearly **91,000 new construction jobs**. Download the report at: www.canwea.ca/windvision_quebec_e.php

New wind farms built in 2011

Wind Farm	Province	Date Installed	# of Turbines	Total Capacity (Megawatts)	Developer/Operator
Dokie Wind Project	BC	2011/02	48	144.00	Dokie General Partnership
Wintering Hills	AB	2011/12	55	88.00	Suncor
Red Lily Wind Energy Project	SK	2011/02	16	26.40	Red Lily Wind Energy Partnership/ Algonquin Power
St. Joseph	MB	2011/02	60	138.00	Pattern Energy
North Maiden Wind Farm	ON	2011/01	5	10.00	Boralex Inc.
Kruger Energy Chatham Wind	ON	2011/01	44	101.20	Kruger Energy
Raleigh Wind Energy Centre	ON	2011/01	52	78.00	Invenergy LLC
Kent Breeze Wind Farm	ON	2011/05	8	20.00	Suncor Energy Inc.
Greenwich Renewable Energy Project	ON	2011/11	43	98.9	Enbridge & RES Canada
Pointes Aux Roches	ON	2011/12	27	48.60	International Power/GDF Suez
Comber East	ON	2011/12	36	82.80	Brookfield
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Mont Louis	QC	2011/09	67	100.50	Northland Power
Montagne-Sèche Wind Farm	QC	2011/11	39	58.5	Cartier Énergie Éolienne
Gros Morne Phase I	QC	2011/12	67	100.50	Cartier Énergie Éolienne
Lameque Wind Power Project	NB	2011/03	30	45.00	Acciona Lameque GP Inc.
Glen Dhu (2011 commissioned)	NS	2011/03	18	41.40	Shear Wind
Watts Wind	NS	2011/03	1	1.50	Watts Wind Inc.
Spiddle Hill Phase I	NS	2011/07	1	0.80	Colchester-Cumberland Wind Field Inc.

