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 **5,265 MW** – representing about **2.3 per cent** of Canada's total electricity demand.
- Canada enjoyed a record year in 2011 with 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

- 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 Lilly 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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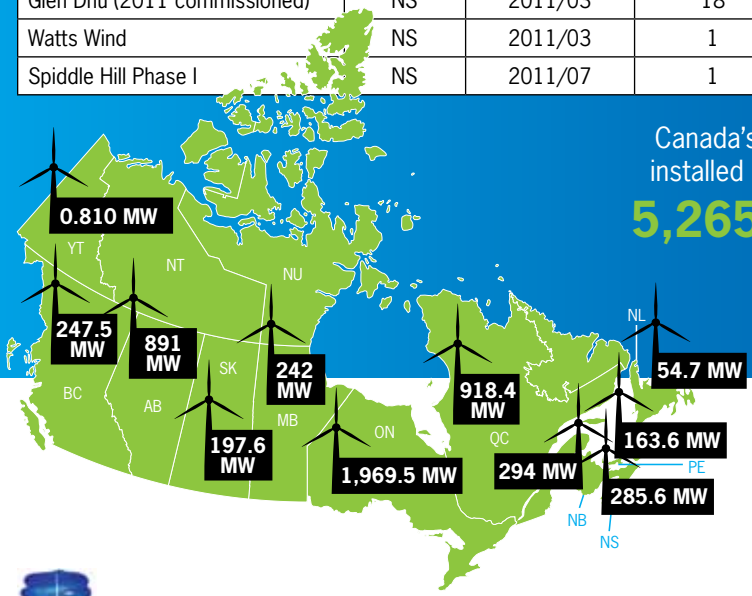
Mont Louis	QC	2011/09	67	100.50	Northland Power
Montagne-Sèche Wind Farm	QC	2011/11	39	58.5	Cartier Énergie Éolienne
Gros Morne Phase I	QC	2011/12	67	100.50	Cartier Énergie Éolienne
Lameque Wind Power Project	NB	2011/03	30	45.00	Acciona Lameque GP Inc.
Glen Dhu (2011 commissioned)	NS	2011/03	18	41.40	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.



Canada's current installed capacity:

5,265 MW

Current as of January 2012

WINDVISION 2025
POWERING CANADA'S FUTURE

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