

Rural Economic Development & Renewable Energy

Keeping the benefits at home



“Rural Canada has historically been dominated by the primary sector, with many rural communities owing their existence to nearby natural resources and/or the fertility of the land. Their fates have consequently been tied to the boom-bust commodity price cycle and exchange rate fluctuations, pressures from low-cost competitors in emerging economies, the dictates of trade actions, border closures and competition from subsidized imports.”

Understanding Freefall: The challenge of the Rural Poor – Interim Report of the Standing Senate Committee on Agriculture and Forestry, December, 2006

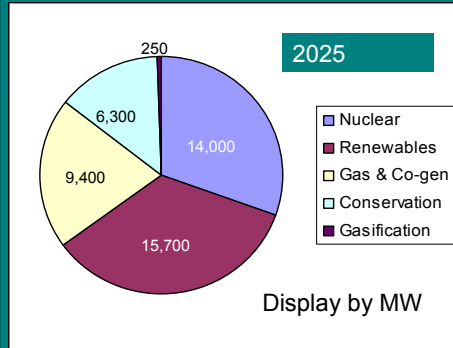
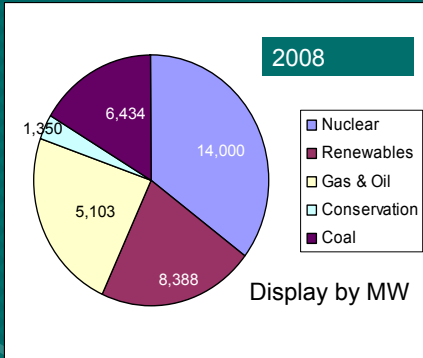
Rural Communities have a competitive advantage.



The New Old Resources



Ontario's Energy Mix



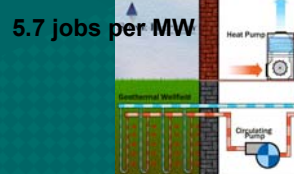
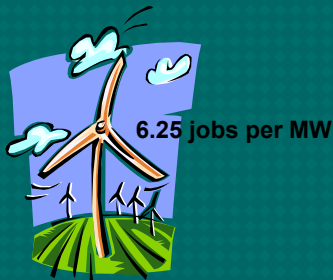
Renewable Sources in 2008

Hydro 7,795 MW
 Wind 501 MW
 Other 92 MW

New Renewables in 2025

7,412 MW

Renewable Energy Jobs per Sector



Sustainable Energy Solutions for B.C.

Report of the B.C. Sustainable Energy Association

Human Resources Needs in the Canadian Wind Energy Industry

[Industry Canada]

Employment in jobs. (Person –years)

Employment	2009	2010	2011	2012
Manufacturing Installation	7,403	7,581	8,346	8,726
Operation	1,306	1,587	1,906	2,231
Export	1,500	1,899	2,000	2,000
Total	10,209	10,968	12,254	12,957

Employment Breakdown

Profession	%	# of employees by 2012 in Canada
Unskilled, on-job training	41.5%	5,338
Skilled labour	36.0%	4,680
Admin, legal, Commerce	8.2%	1,066
Engineer Scientist	14.3%	1,859
Total	100%	12,957

Forecast of Revenues in Wind Energy for Canada

(in millions of dollars)

Revenue	2009	2010	2011	2012
Investment	\$1,058	\$1,083	\$1,193	\$1,247
Operation	\$155	\$190	\$213	\$250
Export	\$225	\$270	\$300	\$300
Total Revenue	\$1,438	\$1,543	\$1,653	\$1797

Economic Benefits

- Large projects owned by multi-nationals provide land rents and increase the local tax base but most of the benefits flow out of the area as profits.



Iowa study indicates locally owned wind generation can create nearly 10 times more local economic activity than out-of-state companies.



10 KW photo-voltaic project



\$ 25,000 immediate return to community

Small is beautiful

Small scale projects (house and farm) are usually done by local suppliers

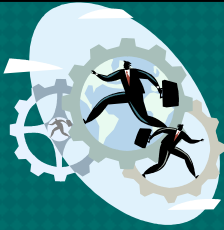
Most local suppliers have between 3 and 5 employees and access local resources for their needs

Income generated is used in the local area.

Community



Benefits



Individual Benefits



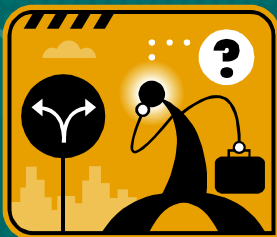
Avoided costs for individuals and small companies can be significant (electricity, heat, cooling)

Value added approach for farms and resource companies through use of previously ignored resources

Smaller capital needs are within the reach of many individuals

New technologies are beginning to cater to small operations because of logistic requirements

Where do we go from here?



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