Potential Economic Benefits of Wind Energy
by
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Wind Energy is a Real Business
$27.5 Billion CAD in 2003

- Electricity Sales: 51%
- Project Development: 44%
- O&M: 5%
Germany’s Renewable Tariffs
The Results

• 45,000 Employed in Wind Industry
• 15,000 Employed in Solar Industry
• 135,000 Jobs in Renewables
• 110,000 Jobs in Wind by 2010
Ontario is a New Market

- Offers Great Promise
- Potentially Large Market
- Lure to Manufacturers
  Not Yet Too Late
- New Markets Grow Fast
  When Conditions are Right
Growth Quickens in New Markets

- "Take-Off" is Shorter
- Benefit from Experience
- Better Turbines
- Bigger Turbines

27 m, 225 kW

80 m, 1.8 MW
Community Wind
A Vision to Excite the Imagination

- 2,000 MW in 4 years?
- 4,000 MW in 6 years?
- 8,000 MW by 2012?

10% of Electrical Energy
Ontario Job Growth from Wind with ARTs

Person-Years of Employment

- Service
- Manufacturing

Year

2005 2006 2007 2008 2009 2010 2011 2012
Comparable Investments*
$1 Billion CAD

12 Year Life
65% CF
Pickering A1
47TWh/Lifetime

25 Year Life
20% CF
Ontario Wind
36TWh/Lifetime

*Pickering A1 Plant Costs Already Sunk
How Wind Can Benefit Canadian Farmers

• Royalties
  Lowest Risk
  Developer Bears Financial Risk
  Lowest Rewards
  % of Gross Revenue

• Ownership
  Risk Born Directly
  Wind Risk, Technology Risk, Political Risk
  All Profit Owned by Farmer
<table>
<thead>
<tr>
<th>Location</th>
<th>1-10</th>
<th>10-20</th>
<th>20-30</th>
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<tbody>
<tr>
<td>German Average</td>
<td>5%</td>
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<tr>
<td>Indian Mesa, TX</td>
<td>4%</td>
<td>6%</td>
<td>8%</td>
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<tr>
<td>Woodward Mesa, TX</td>
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<tr>
<td>US BLM, CA</td>
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<td>Freiburg, Germany</td>
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<td>Ontario</td>
<td>2-2.75</td>
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Potential per Farm

- 1MW Turbine, 60 m Ø, 80 m Tower
- $1.5 million CAD Installed
- 1.5-2.0 million kWh/Year
- $150,000 CAD/Year Net @ $0.10/kWh
- Simple Payback: 10 Years
- Second 10 Years: $1.5 million CAD
Rural Ontario Economic Benefit

- 55,000 Farmers
- 1/2 Install One 1-MW Turbine
- 27,000 MW
- 1/3 of All Ontario Electricity
- $4 billion CAD/Year Total Turnover
  Money Stays Within Province
  Money Circulates Through Rural Economy
  Potentially Stimulating Rural Revival