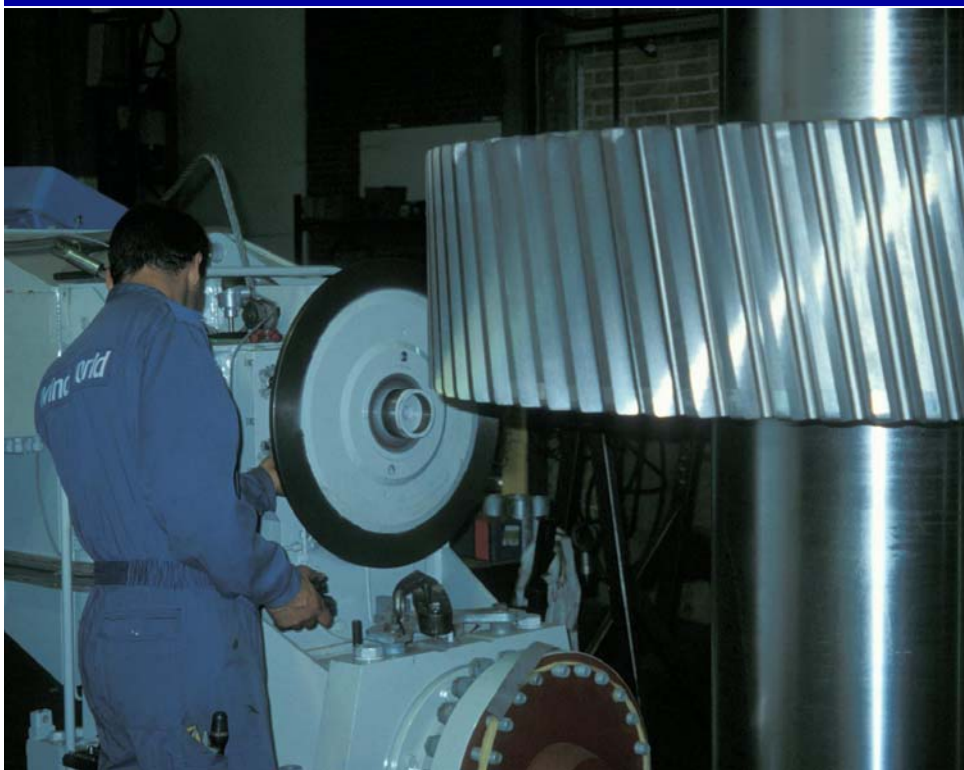


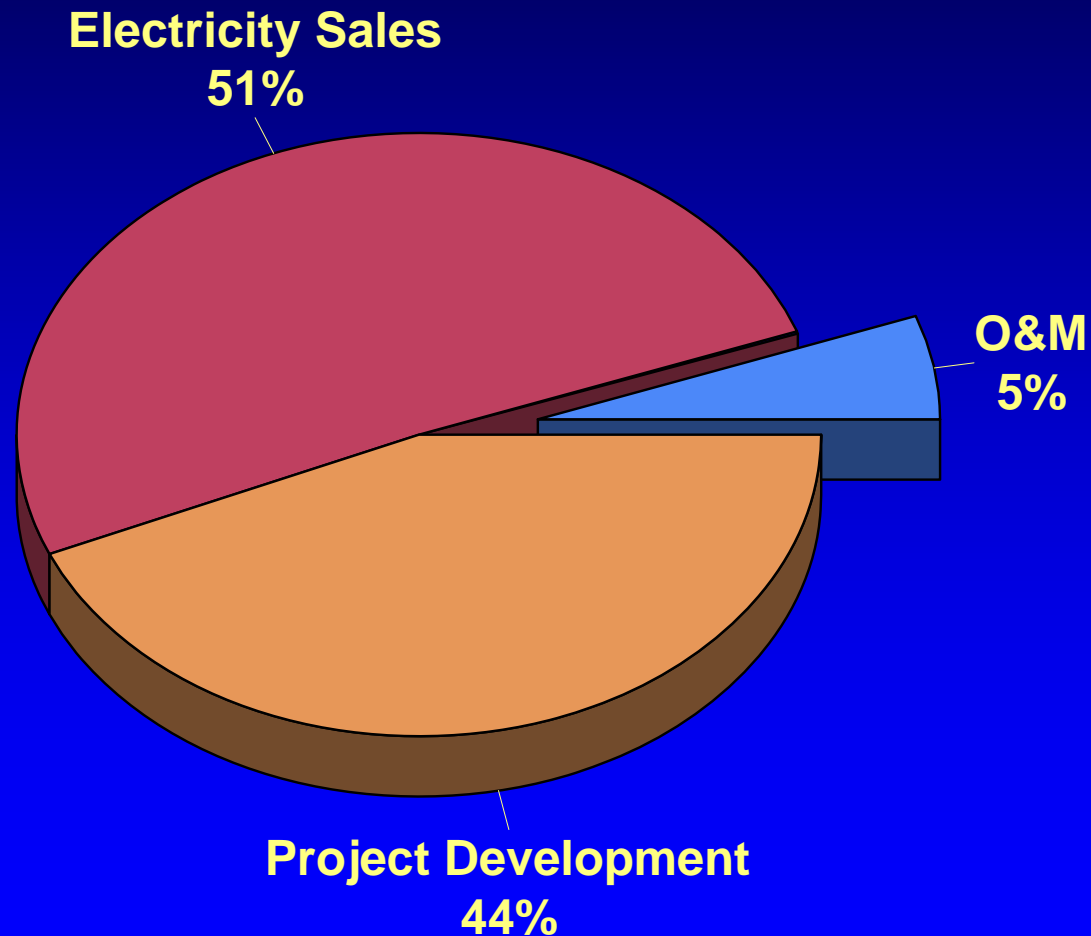
Potential Economic Benefits of Wind Energy

by
Paul Gipe, OSEA



Wind Energy is a Real Business

\$27.5 Billion CAD in 2003



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

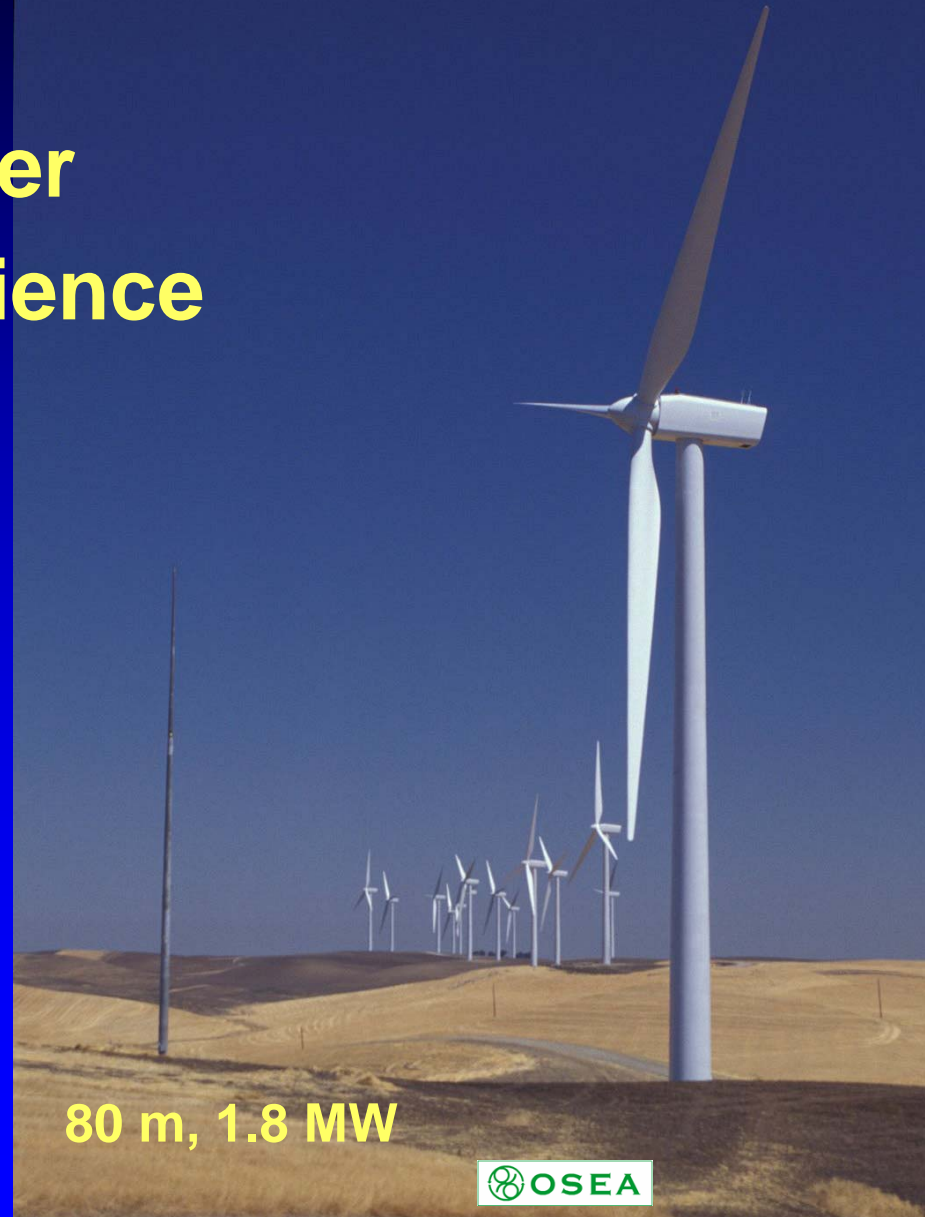
Not Yet Too Late

- New Markets Grow Fast

When Conditions are Right

Growth Quickens in New Markets

- “Take-Off” is Shorter
- Benefit from Experience
- Better Turbines
- Bigger Turbines



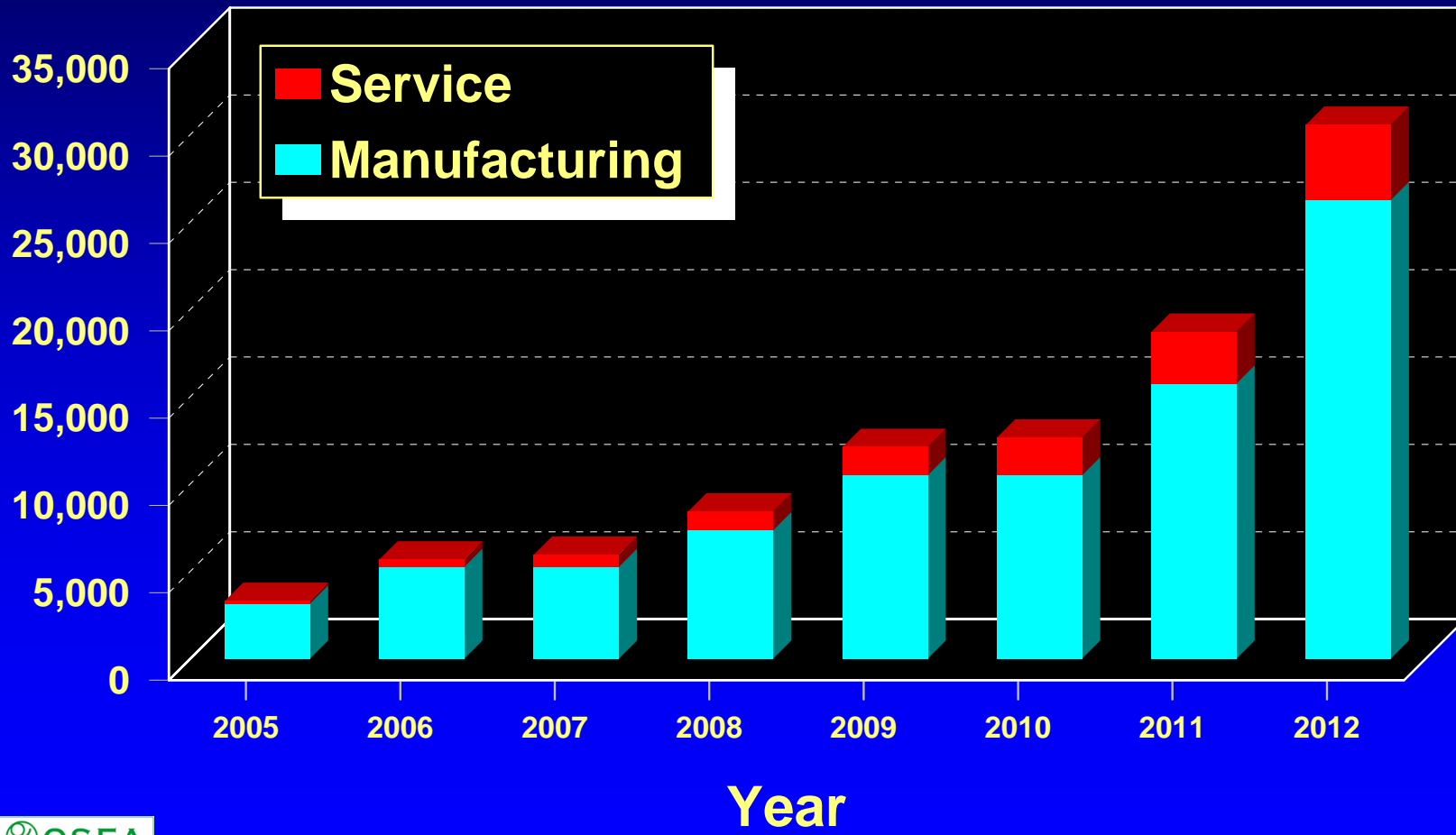
Community Wind

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

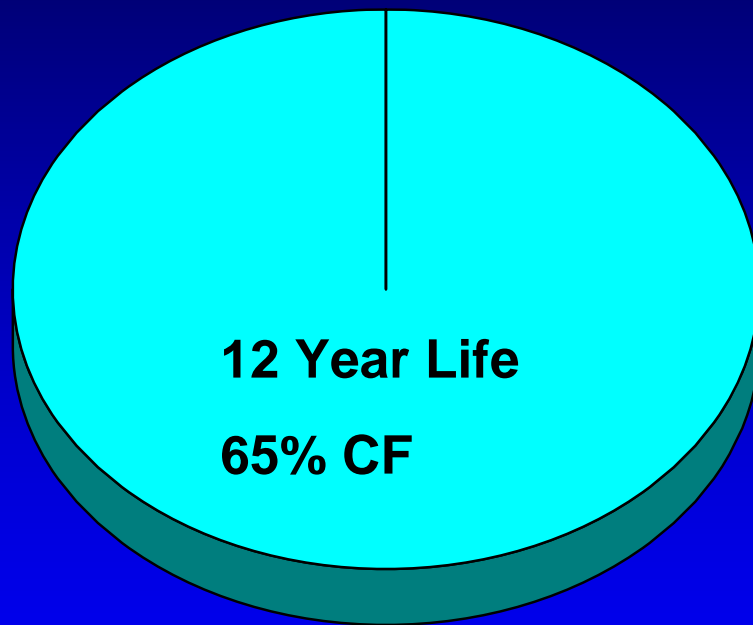
Ontario Job Growth from Wind with ARTs

Person-Years of Employment

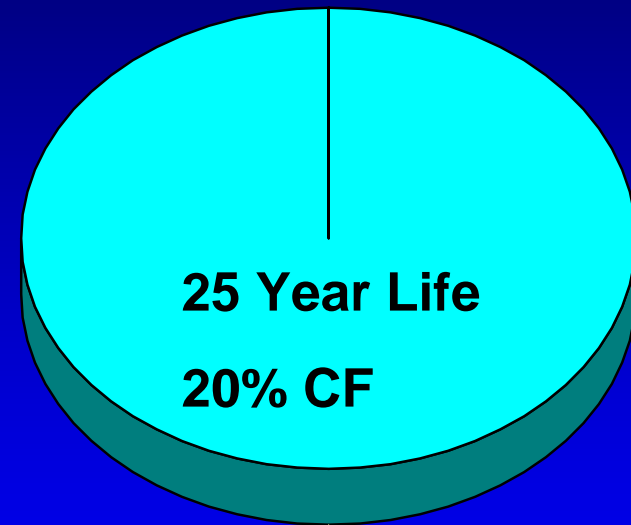


Comparable Investments*

\$1 Billion CAD



Pickering A1
47TWh/Lifetime



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**

Royalties & Land Rents

	1-10	10-20	20-30
German Average	5%		
Indian Mesa, TX	4%	6%	8%
Woodward Mesa, TX	4%	6%	
US BLM, CA	4%		
Freiburg, Germany	3.8%	5.4%	
Portugal	2.5%		
Ontario	2-2.75	?	

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