

Developing & Marketing New Wind Energy



Community Energy, Inc. (CEI)

- Nation's leading marketer of wind power.
- Founded in 1999
- By Spring of 2004 CEI will have helped bring over 250 megawatts of new wind on-line.
- 280,000 mwh of wind under contract

The Community Energy Wind Farms



The 15-MW Mill Run Wind Farm
Fayette County, PA
On-Line October 2001



The 9-MW Somerset Wind Farm
Visible From the PA Turnpike
On-Line October 2001



The 31-MW Fenner Wind Farm
Madison County, NY
On-Line June 2002



The 66-MW Mountaineer Project
Allegheny Plateau, WV
On-Line December 2002



The 61-MW Pocono Wind Farm
Northeast of Scranton, PA
Expected On-Line Fall 2003



The 7.5-MW Jersey Atlantic Project
Atlantic City, NJ
Expected On-Line Spring 2004

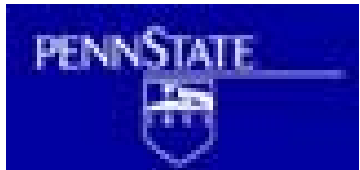


U.S. Department of Energy



Johnson & Johnson

Carnegie Mellon University



Norm Thompson
escape from the ordinary®

THE CATHOLIC UNIVERSITY
of AMERICA

The World Bank Group



14 of 18 Largest US Wind Energy Purchases

Organization	Percent Wind	kWh/ year	# of Turbines
State of New Jersey	7.5%	54,900,000	13.7
University of Pennsylvania	11%	40,000,000	10.0
Johnson & Johnson	7.5%	19,140,000	4.8
Penn State University	5%	17,600,000	4.4
University of Buffalo	2%	8,000,000	2.0
Carnegie Mellon University	6%	5,805,000	1.5
The World Bank	6%	4,000,000	1.0
The US Army	N/A	4,000,000	1.0
Catholic University	11.7%	4,000,000	1.0
Drexel University	9.5%	4,000,000	1.0
Giant Eagle Supermarkets	3%	3,000,000	0.75
PA Turnpike Commission	5%	2,600,000	0.65

Drivers

- **The Right Thing To Do**
- **Environmental Leadership**
- **Public Relations**
- **Energy Independence**
- **Stake holder Goodwill**
- **Economic Development Benefits**

Obstacles:

- **Cost**
- **Electric Choice Learning Curve**
- **Business As Usual**

Sample Customer Environmental Benefits

Amount Purchased				Pollution Saved (Pounds Per Year)				CO2 Comparison		
Percent Wind	# of Turbines	kWh/Month	kWh/Year	Coal	CO2	SO2	NOx	Planting X Number of Trees	Miles Not Driven	Car Taken Off the Road
20%	0.05	16,667	200,000	66,732	219,424	1,530	498	14,927	190,374	16
50%	0.13	41,667	500,000	166,830	548,560	3,825	1,245	37,317	475,935	40
70%	0.18	58,333	700,000	233,562	767,984	5,355	1,743	52,244	666,309	56
100%	0.25	83,333	1,000,000	333,660	1,097,120	7,650	2,490	74,634	951,870	79
1 turbine	1.0	333,333	4,000,000	1,334,640	4,388,480	30,600	9,960	298,535	3,807,480	317

A 1.5 megawatt wind turbine produces approximately 4 million kWh a year. kWh/Year = 1500 KW (Generator Size) * 8760 (Hours/Year) * 30% (capacity factor)

* - KEY DISCLAIMER: Compared to the average generation mix in the Mid-Atlantic power pool, the environmental benefits from this purchase are equivalent to a reduction of X lbs. per year, etc.

** - Emission factors are reported by U.S. EPA (EGRID 2002) for generation year 2000.

Carbon dioxide (CO2) is a major greenhouse gas, implicated in global climate change.

Sulfur dioxide (SO2) contributes to acid rain and snow, brown clouds and regional haze.

Nitrogen oxides (NOx) mix with hydrocarbons, heat, and sunlight to form ground-level ozone and smog, a health hazard.

New Wind Energy Product Features

- 100% New (versus Existing)
- **Emission-Free (versus Emissions)**
- **Locally-Generated**
- Highly Preferred by Consumers
- Flexible
- No Switching Required
- **Real Environmental Benefits**
- Economic Development Benefits
- **Public Relations Advantages**

Thought Experiment:

If Green Power was the Norm...

Price versus True Cost

Thank You

