



**“If you need a tool and don’t buy it, eventually you will have paid for the tool and won’t have it”**

**—Henry Ford**

# What is Wind Power?



- \$17B and 85,000 jobs in the US in 2008
- Clean, Carbon-Free energy
- More built in '08 than Natural Gas, Coal, or ANY other power source
- Most economically viable Renewable Energy solution

A dark teal background image of a wind turbine, showing the tower, nacelle, and three blades. The word "Myth" is overlaid in white text.

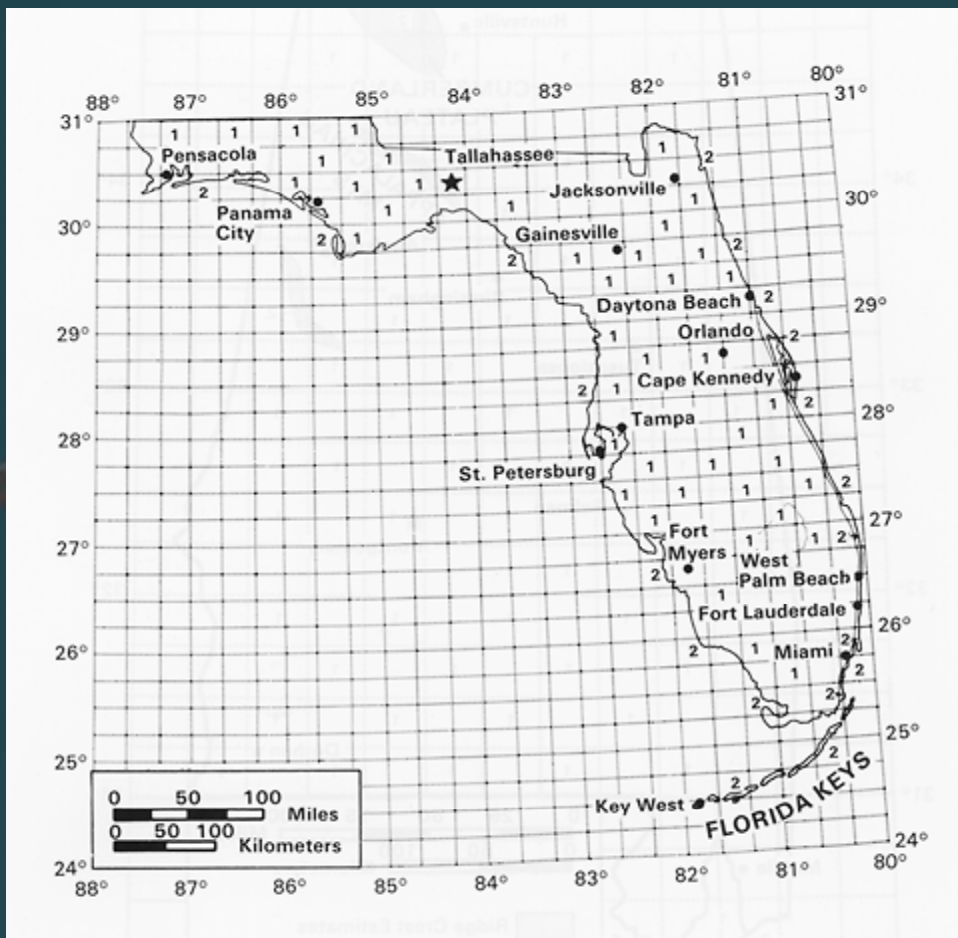
**Myth**

# **Myth: The Southeast Has No Wind Resource**



- **FPL study: “Hutchinson Island wind speeds strong enough to produce substantial electricity”**
- **Airport and NOAA data show almost all coastal communities have at least the same level of resource as Hutchinson Island**

# Example: Florida



- NREL wind map
- “2” = Class 2, or > 12.5 mph average annual wind speed
- A statewide detailed study has not been done

A dark teal background image of a wind turbine, showing the tower, nacelle, and three blades. The word "Challenges" is overlaid in white text.

# Challenges

# What are the Challenges?



- **NIMBY—Not In My Back Yard**
- **Hurricanes**
- **Nuclear and Oil Interests**
- **Lower Wind Speeds than Midwestern US**
- **Lack of Local Wind Power Experience**
- **Lack of Infrastructure to Transport and Erect Huge Components**

# How Can We Succeed?

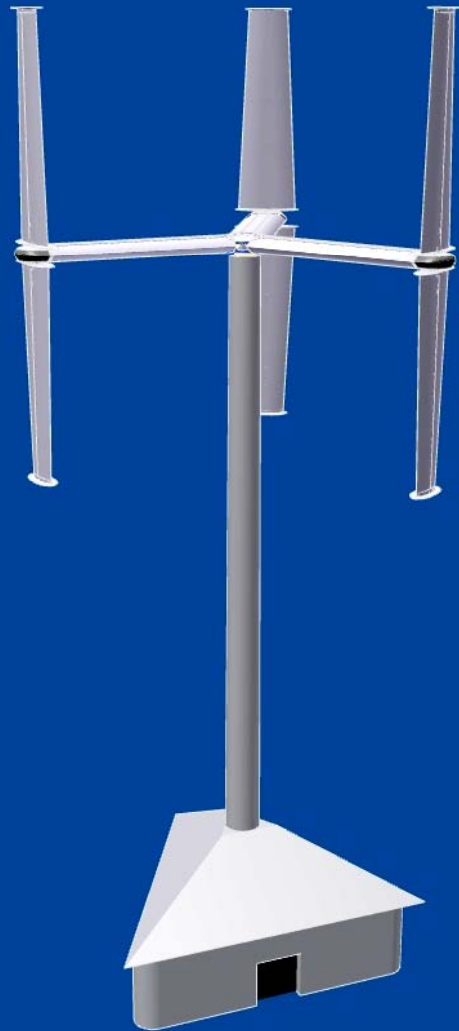


## •Technology

- Innovative, Smaller Sized Turbines
- Lower Environmental Impact
- Locally Designed and Built

## •Facility Class Wind

- Net Metering
- Distributed Generation
- ‘Behind the Meter’ Applications



**EcoVert 250**

- **Vertical-Axis**
- **Quiet**
- **Low Head Mass**
- **Slim Profile**
- **Smaller Components**



# Inerjy HQ Plantation



**Currently Permitting Large Prototype**

# Anne Kolb Nature Center



# KWNAS Fleming Key/Trumbo Point



# Existing Examples



# What Kind of Investment?



- \$3 per Watt capacity
- 6-year capital payback in class 2 wind regime
- 400-800MWh annual production
- 25+ year machine life
- Numerous finance models/options
- Federal and State incentives





# Benefits



# What Will Success Mean?



- Local Jobs: Estimated 5 man-years per turbine
- Emissions Reduction: 500+ Tons CO<sub>2</sub> annually per turbine
- Fuel Import Reduction: \$80k annually per turbine





# Sustainability



# How do we achieve Sustainability?



- Distributed Wind
- Solar
- Waste to Energy
- Offshore Energy
- Energy Storage
- EV's or Synthetic Fuel Technologies





**Myth**



# References



- American Wind Energy Association 2008 Report
- Navigant Consulting Florida Renewable Energy Potential Assessment
- Florida Power & Light Wind Results from the St. Lucie Project Site
- National Oceanographic and Atmospheric Administration
- DOE



# Contact



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