



Overview

- ▶ FORESIGHT INTRO
- ▶ WIND INDUSTRY GROWTH
- ▶ WIND ECONOMICS & DRIVERS
- DEVELOPMENT PROCESS
- ► SITE ASSESSMENT



Foresight Intro

 Foresight Energy Company is a leading renewable energy consulting group founded 1996

- Consulting clients include:
 - EPRI
 - Utilities and Power Marketers
 - Wind and other renewable project developers
 - California Energy Commission –
 RPS development and deployment
- Formed Foresight Wind Energy, LLC in 2002 to directly pursue wind project development
 - Focus on US Southwest market and California
 - 120 MW of Foresight wind projects planned for construction in 2007
 - An additional 1,800 MW of wind projects under development
 - Partnered with many tribes including Hopi, Navajo, and Pueblo of Laguna



Sizes and Applications



FORES

Small (≤10 kW)

- Homes
- Farms
- Remote Application



Intermediate (10-250 kW)

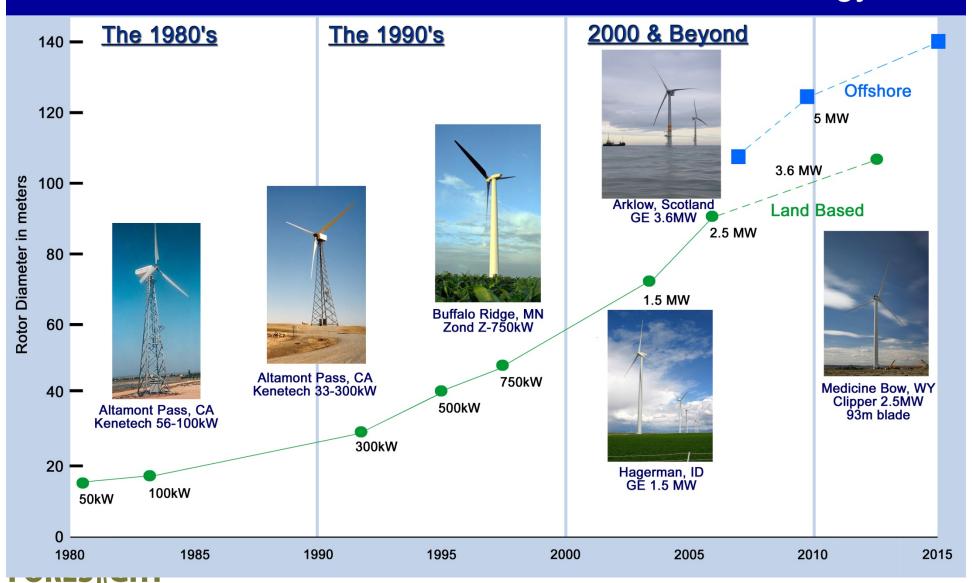
- Village Power
- Hybrid Systems
- Distributed Power



Large (660 kW - 2+MW)

- Central Station Wind Farms
 - Distributed Power
 - Community Wind

Evolution of U.S. Commercial Wind Technology

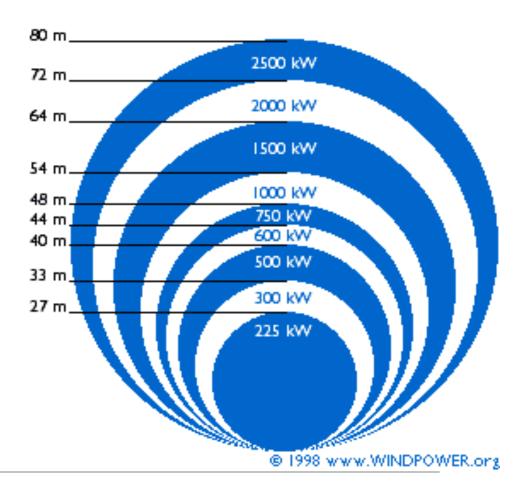


Wind Economics

POWER = $\frac{1}{2}$ * (power coefficient * air density * rotor swept area * wind speed^3)

▶ SHEAR = wind speed

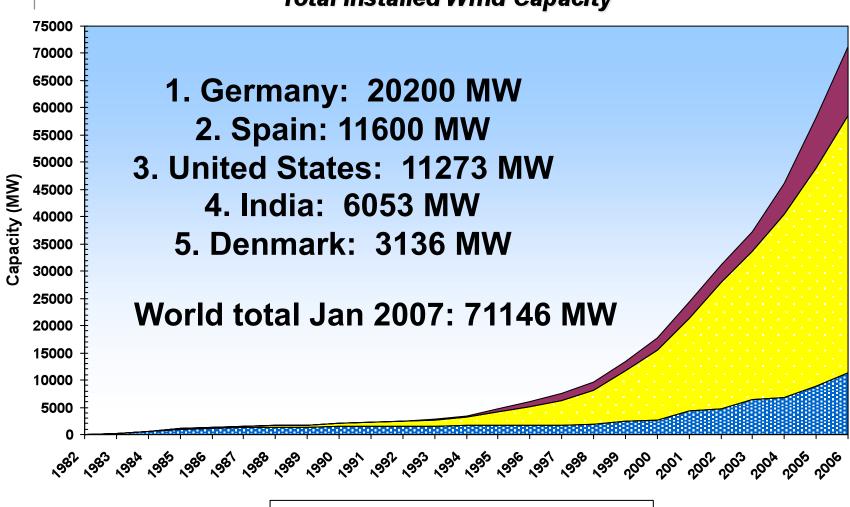
SCALE = swept area





People Want Renewable Energy!

Total Installed Wind Capacity



FOF

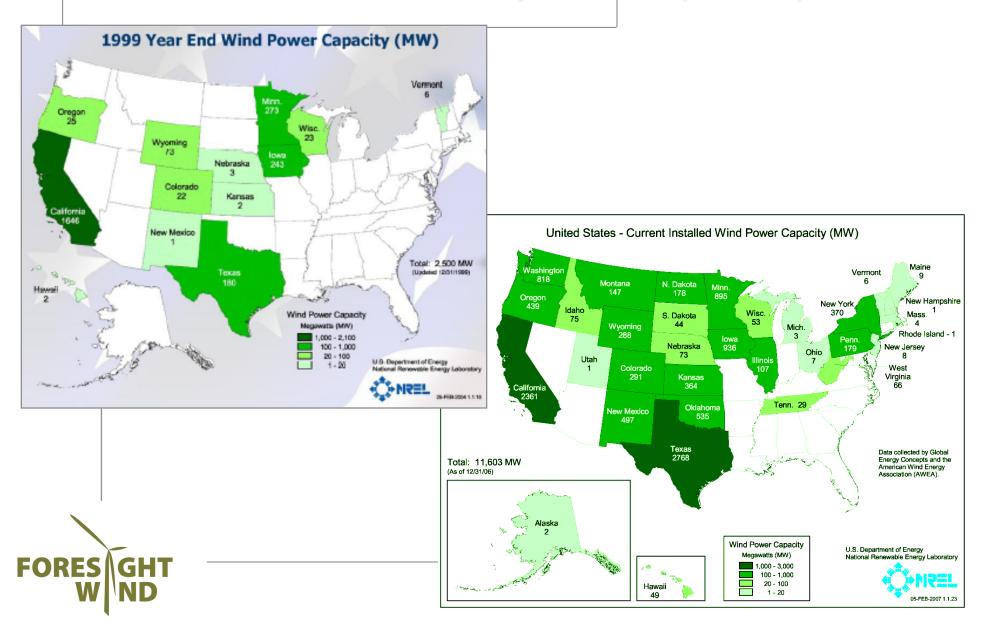
Source: WindPower Monthly

■ United States □ E

Europe

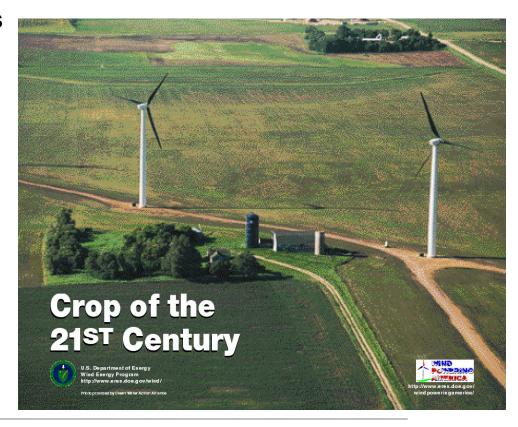
■ Rest of World

Installed Wind Capacities (99-06)



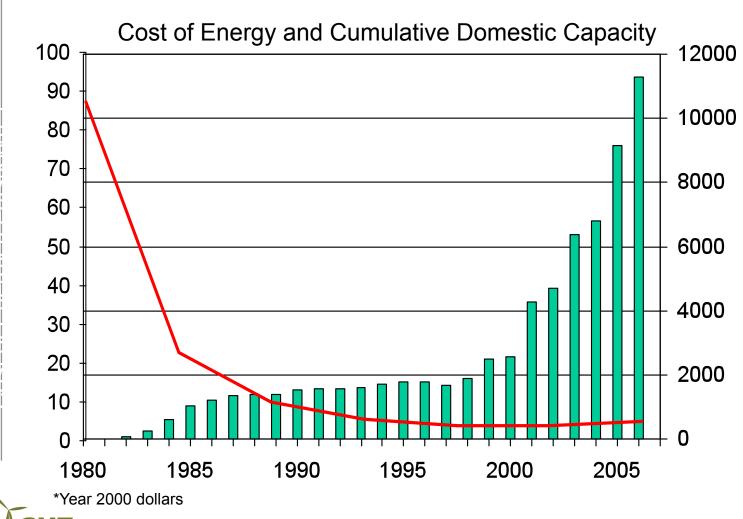
Drivers for Wind Power

- Declining Wind Costs
- Fuel Price Uncertainty
- Federal and State Policies
- Economic Development
- Green Power
- Energy Security



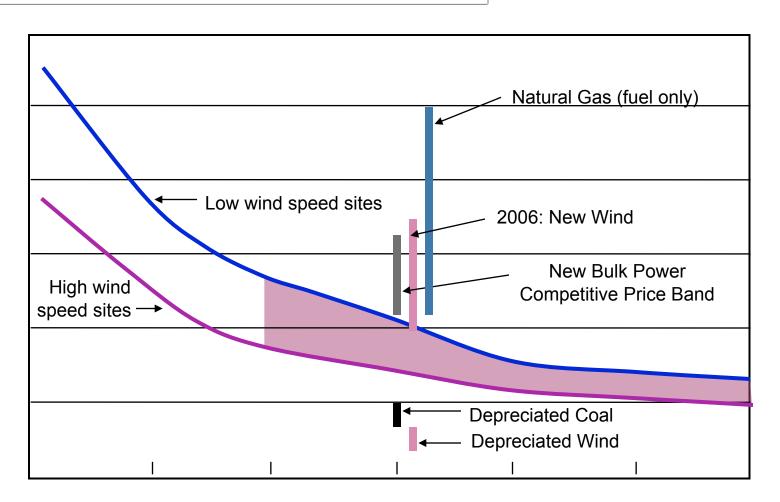


Capacity & Cost Trends

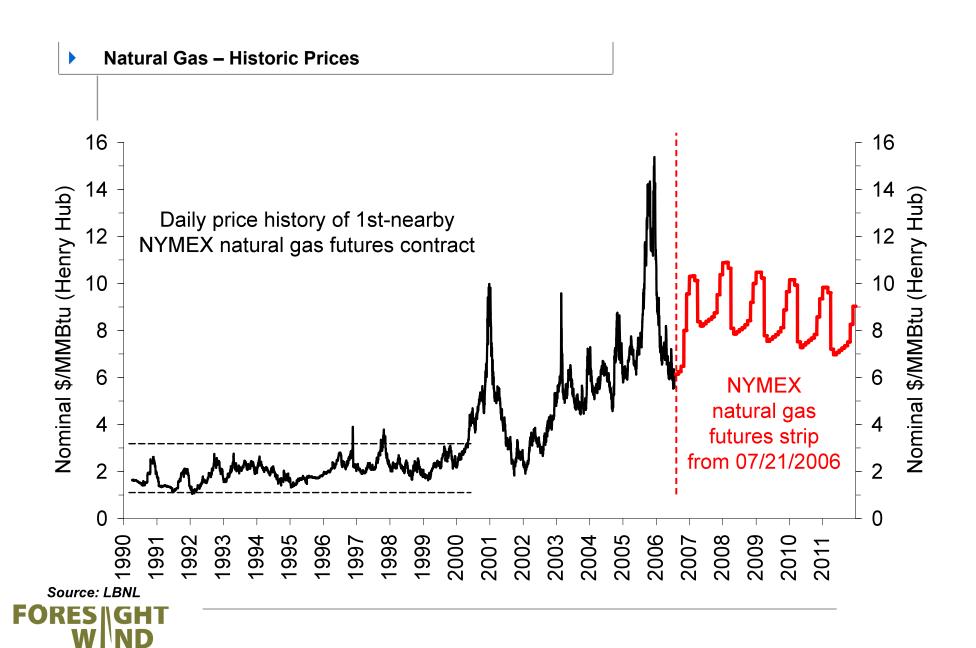




Wind Cost of Energy







Development Process

- Site Selection
- Land Agreements
- Wind Assessment
- Environmental Review
- Economic Modeling
- Interconnection Studies
- Permitting
- Sales Agreements
- Financing
- Turbine Procurement
- Construction contracting

Foresight Role - Early Stage Developer high- risk, multi-disciplinary

Large Energy Company Role – Late Stage lower- risk, large capital required

FORES GHOperations & Maintenance ND

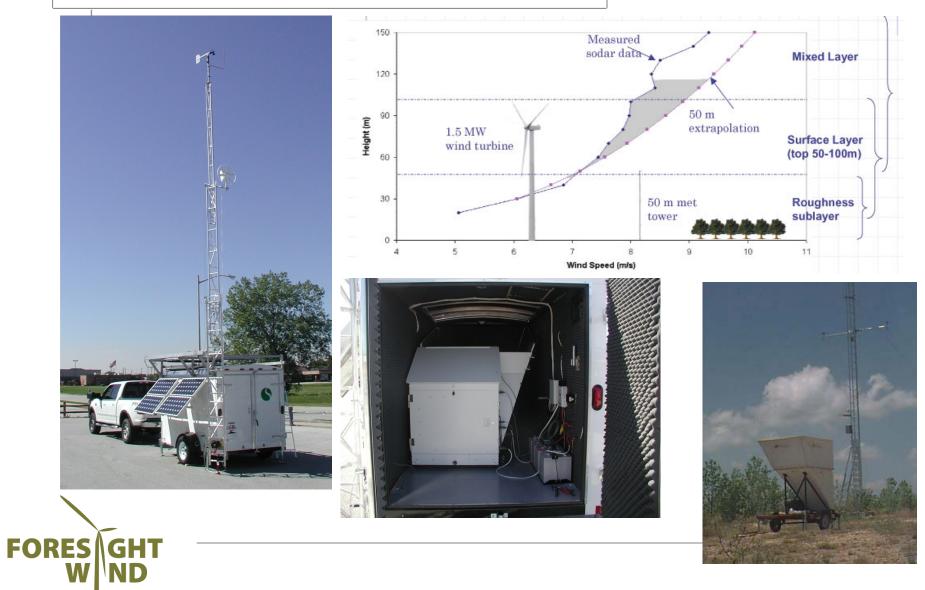




Met tower assessment

FORES GHT W ND

Next Gen Assessment - SODAR



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