

Advancing Wind Power in Illinois Conference 2011

Andy Cukurs

Suzlon Wind Energy Corporation

Wind Energy Executives Panel Plenary Session

Thursday, July 21, 2011, 11:30 AM



IWWG Advancing Wind Power

Andy Cukurs, CEO Suzlon Wind Energy Corporation

Where is wind power headed in 2012 and beyond?





Suzion Wind Energy Corporation

Presentation Overview

- → My background
- → Market Drivers
- → Is wind poised for growth?



My Background

Professional background

Education

- BSME University of Illinois at Chicago (1985)
- MBA University Of Chicago (1994)

Work Experience

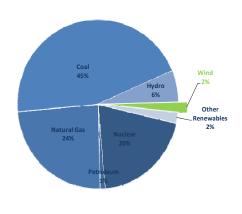
- Project Management & Engineering APV Crepaco
- VP Engineering APV Americas
- Managing Director APV Beverage
- President & CEO NEG Micon USA
- CEO & Chairman Suzlon Wind Energy Corporation

Suzion Wind Energy Corporation:

- North American sales and service division of Suzlon
- More than 420 employees located across the US
- Over 1200 wind turbines and 2500 MW of installed capacity
- Serve 26 OMS service offices in 17 states across the U.S.
- State of the art 24/7 monitoring center
- Central Distribution & Wind Turbine Training Facility centrally located in Elgin, IL

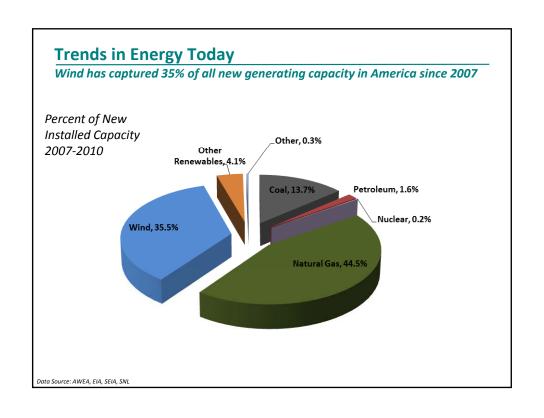
Trends in Energy Today

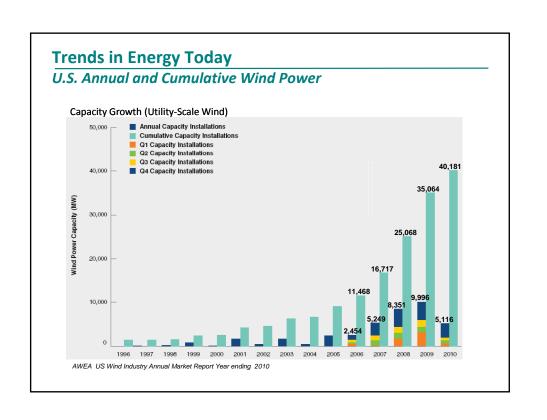
Renewable Electricity as a Percentage of U.S. Electricity in 2010



- Electricity from wind power capacity in the U.S. will supply the equivalent of:
 - Over 10 million American homes
 - Nearly 10 nuclear power plants
- 4 94.6 million MWh of wind produced in 2010
- Wind provided 2.3% of U.S. electricity in 2010
- lowa produced over 15% of state's annual electricity generation;
 Texas, the overall leader in installed capacity, produced 6%

Source: Energy Information Administration Electric Power Monthly 2010





Trends in Energy Today

Where do we go from here?

- → Will the US consume less energy in 2020 than it does today?
- ★ How will we replace the coal plants that get retired over the next 5-7 years?
- ★ Is Shale Gas for real?
- ↑ Carbon sequestration?
- ★ Is there a future in nuclear, if so, when?

Trends in Energy Today

Growth in US installations over last decade

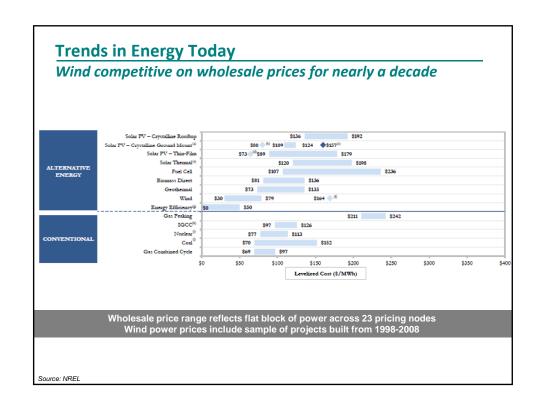
In 2000, California hosted more than 60% of the U.S. wind power capacity.

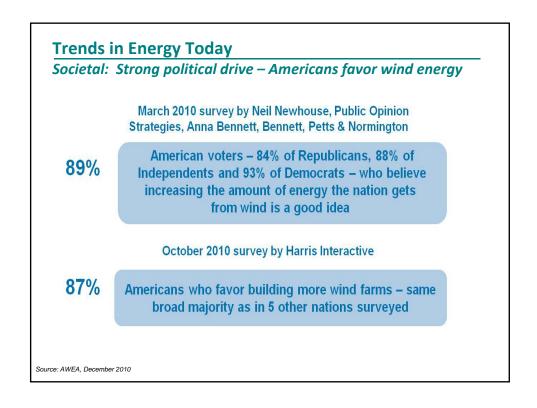
Today, 38 U.S. states shared 40,181 MW of utility-scale wind installations.

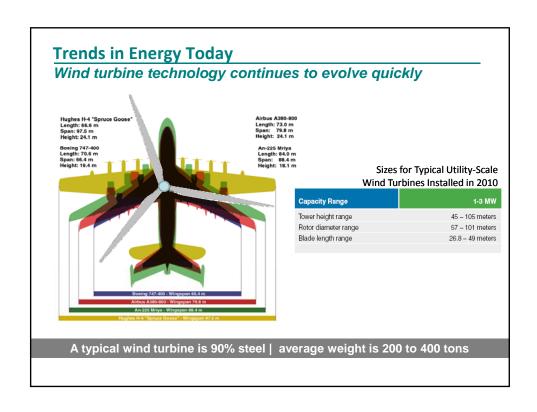
14 U.S. States part of "Gigawatt Club" with more than 1,000 MW of wind installations

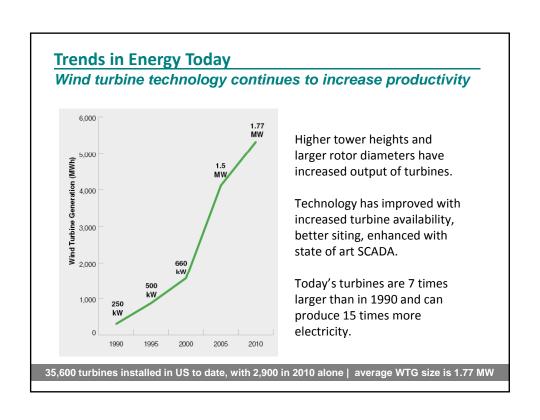


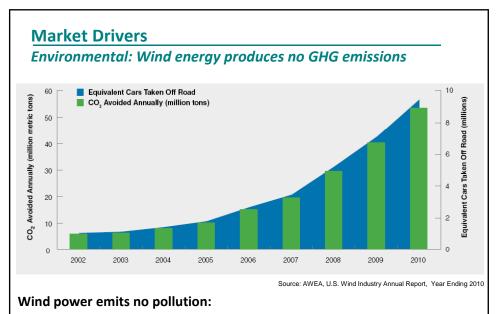
Source: AWE



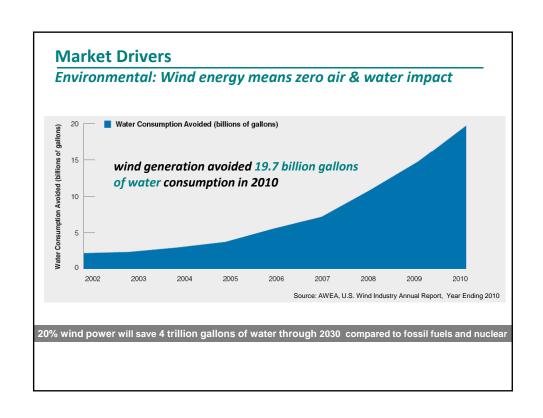


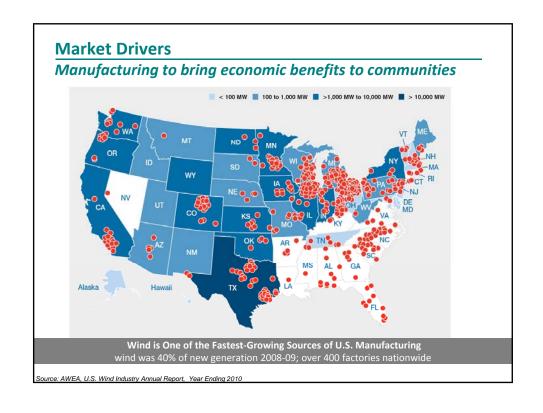


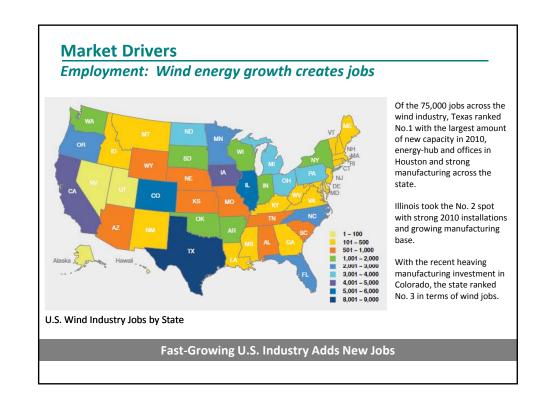




U.S. wind fleet in 2010 avoided 54 million metric tons of ${\rm CO_2}$ - equal to the emissions from 9.5 million cars

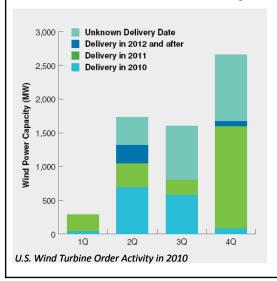






Wind Industry is poised for growth

"American wind energy is ramping up, and these first-quarter figures indicate an industry poised for a renaissance. Refined technologies, affordable prices, and continued demand for clean, homegrown." said Denise Bode, AWEA CEO



In total, 6,280 MW of turbines were ordered in 2010.

- 1,400 MW of turbines delivered in 2010 were ordered in the same year.
- ↓ 2,300 MW or turbine orders placed for 2011 (with majority in placed in 4Q10: 1,500 MW)



