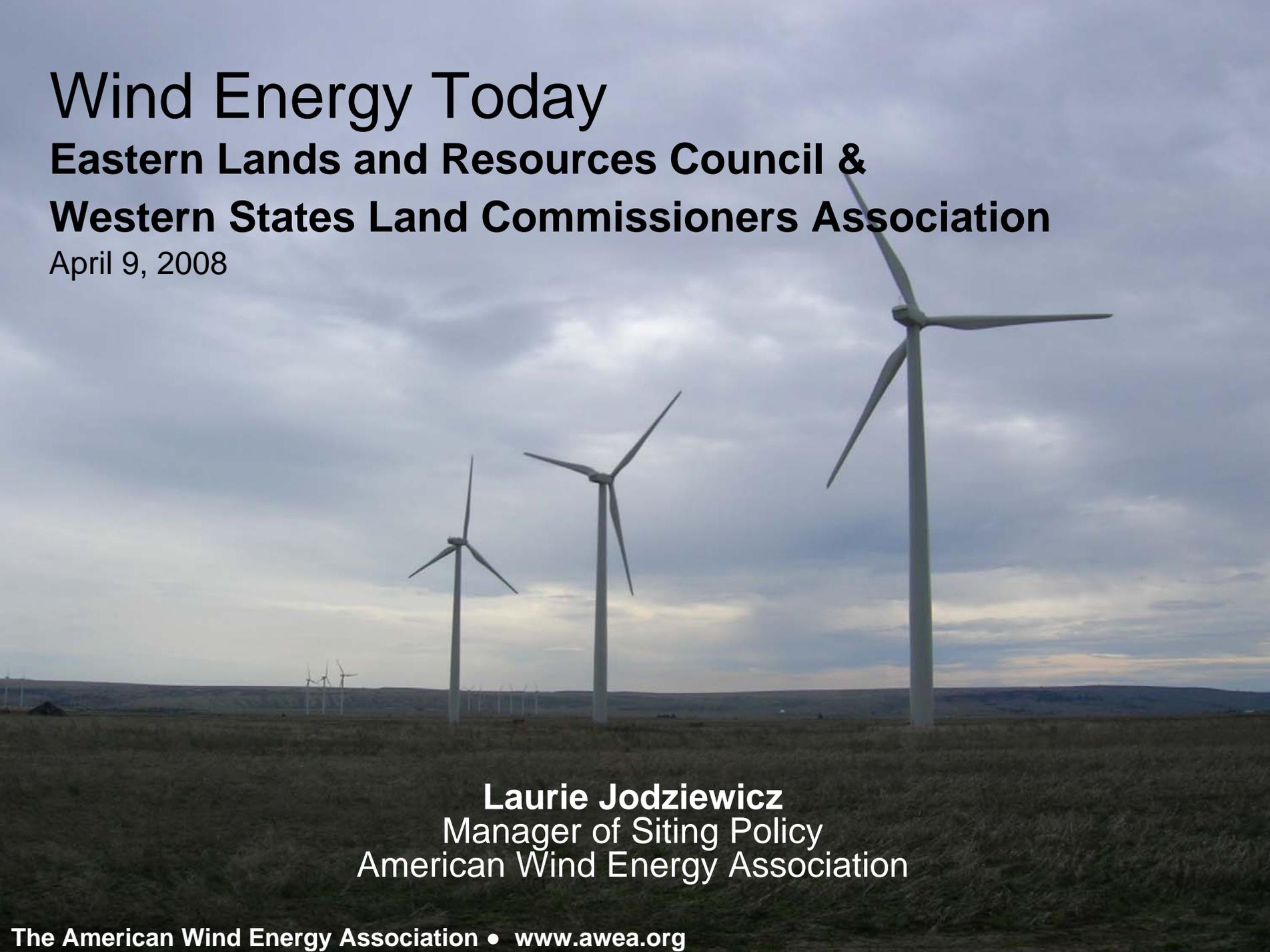


Wind Energy Today

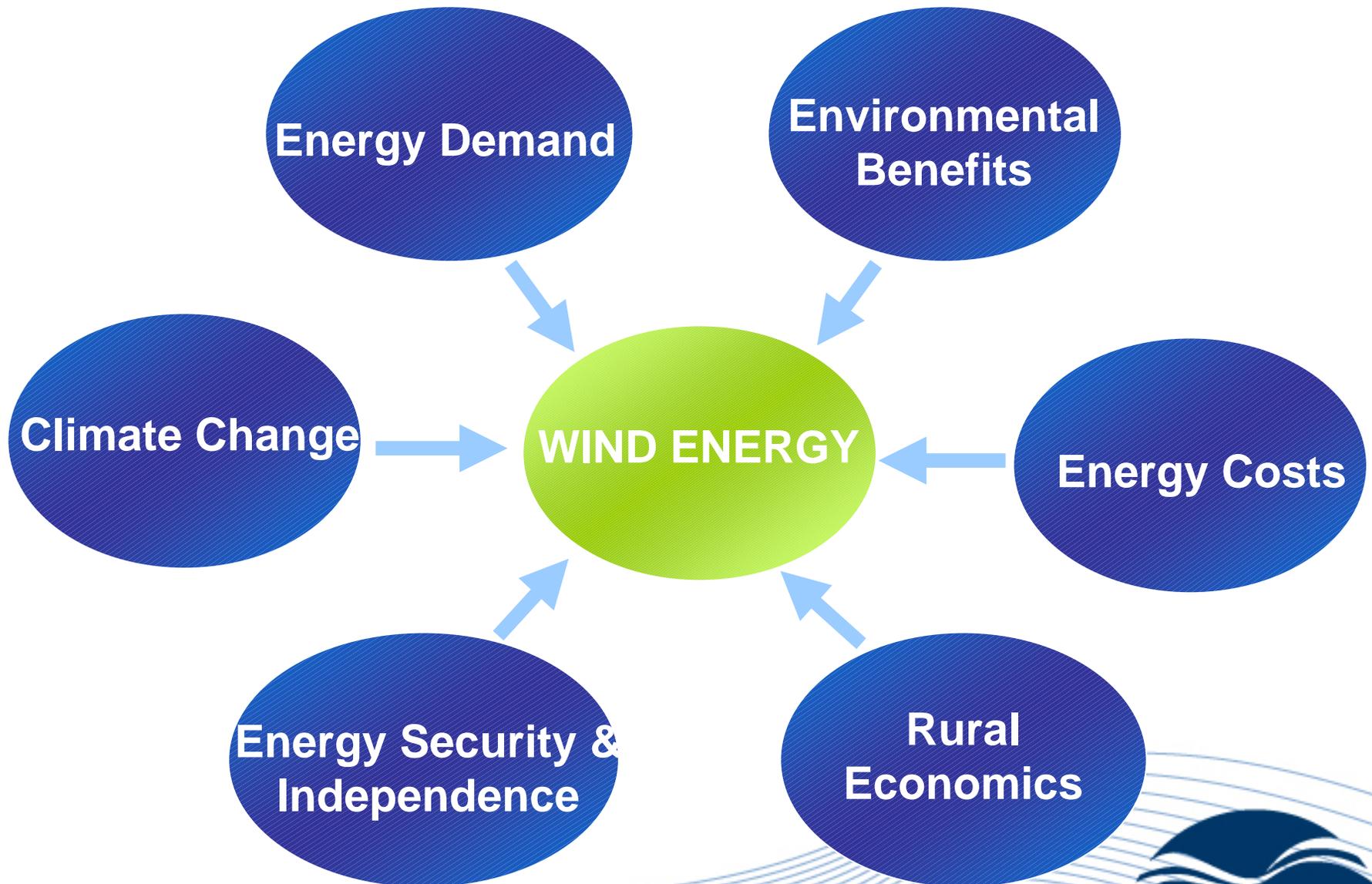
**Eastern Lands and Resources Council &
Western States Land Commissioners Association**

April 9, 2008

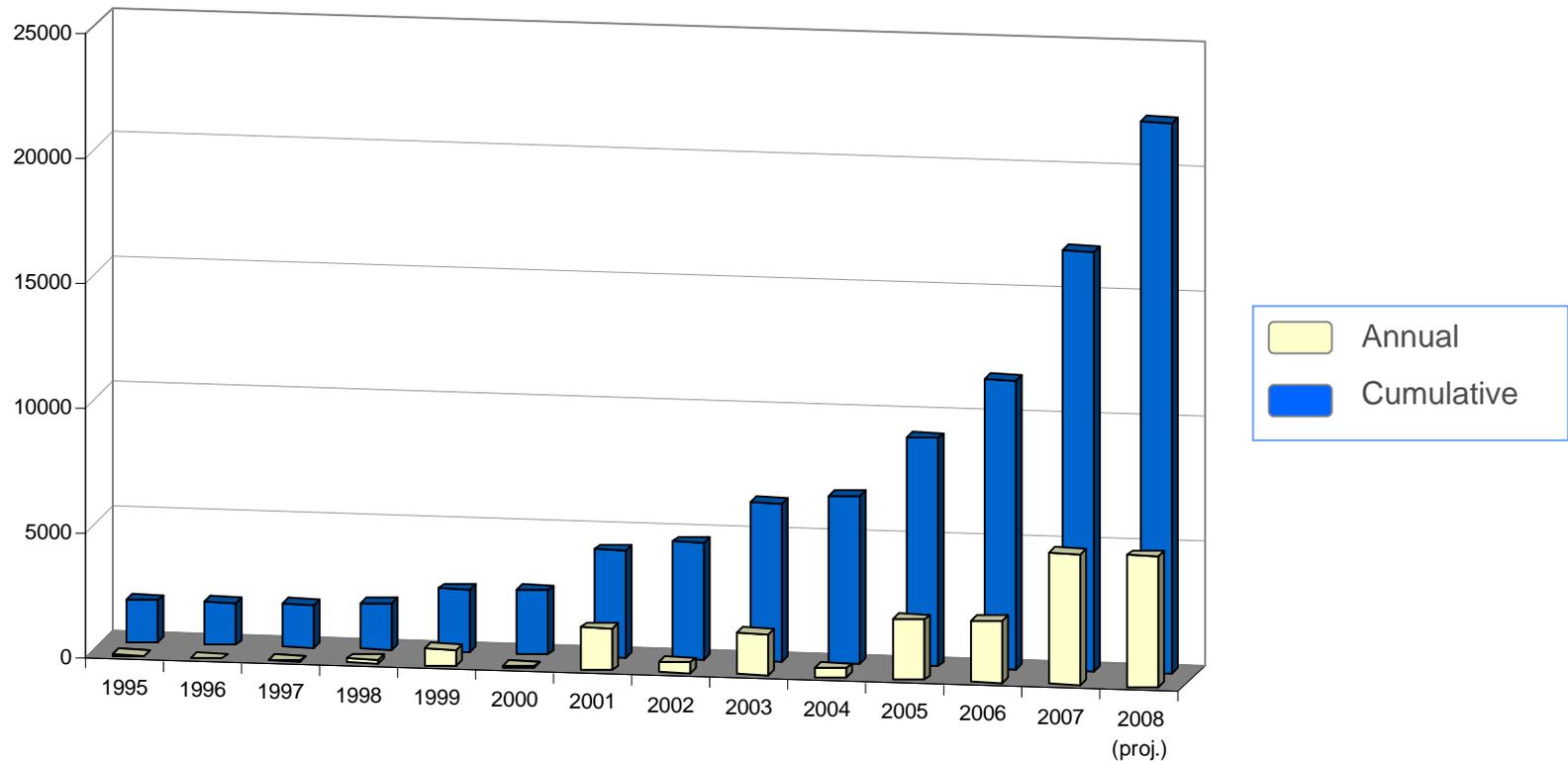


Laurie Jodziewicz
Manager of Siting Policy
American Wind Energy Association

Drivers for Wind Energy Development



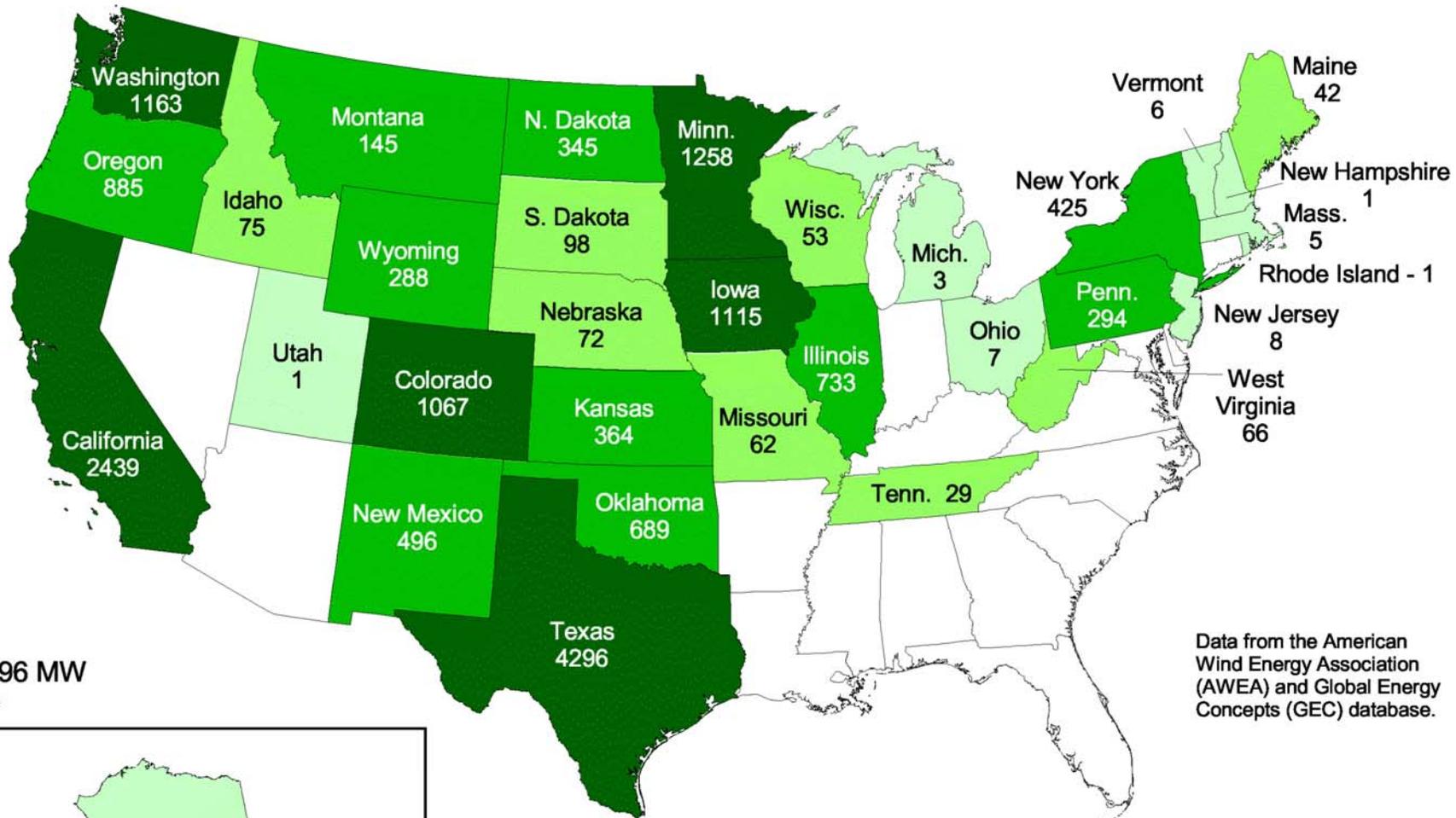
Wind Energy is Growing in the U.S.



Source: AWEA Market Report

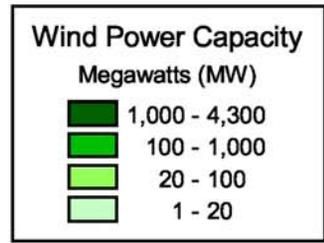
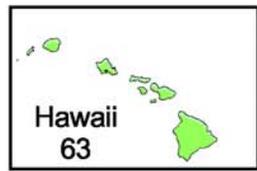
As of December 31, 2007

United States - 2007 Year End Wind Power Capacity (MW)



Data from the American Wind Energy Association (AWEA) and Global Energy Concepts (GEC) database.

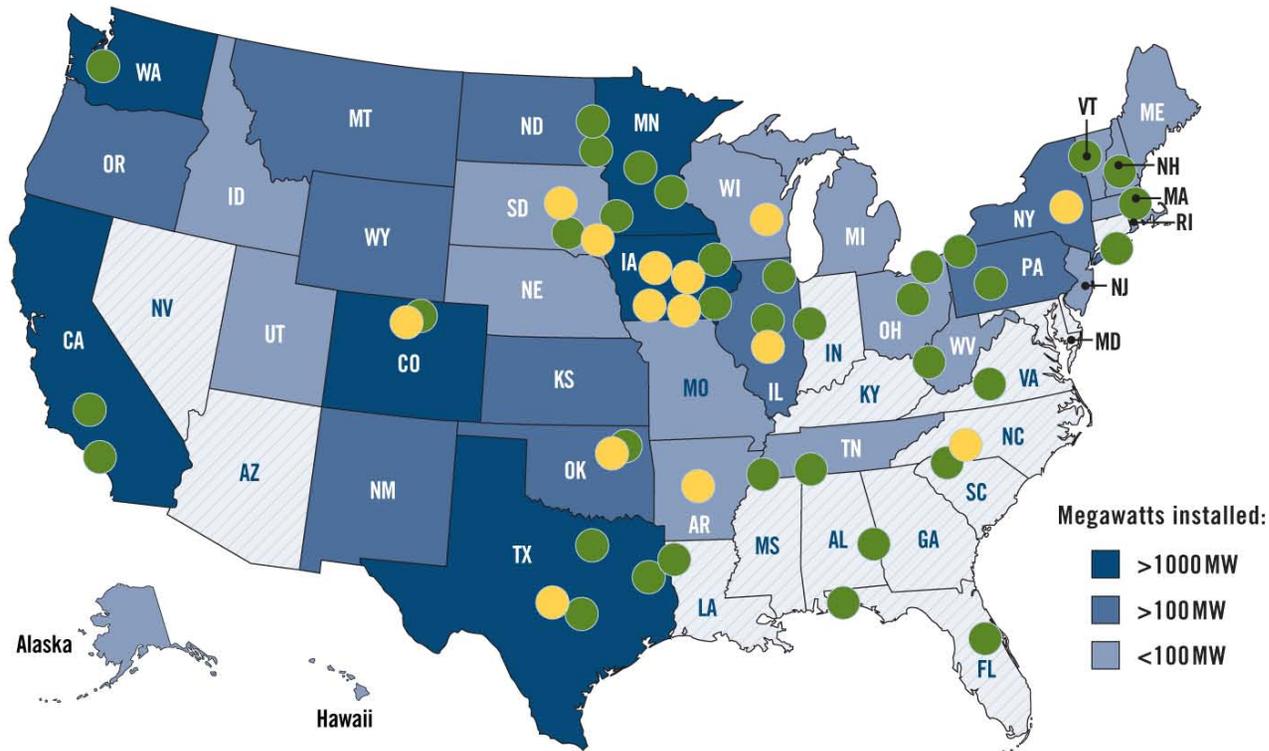
Total: 16,596 MW
(As of 12/31/07)



U.S. Department of Energy
National Renewable Energy Laboratory



Growth in the Manufacturing Sector



Examples of facilities opened or announced in 2007

- LM Glasfiber (blades): Little Rock, AR
- Vestas (blades): Windsor, CO
- Acciona (turbines): West Branch, IA
- Hendricks Industries (towers): Keokuk, IA
- Siemens (blades): Fort Madison, IA
- TPI Composites (blades): Newton, IA
- Trinity Structural Towers(towers): Clinton, IL
- PPG Industries (fiberglass): Shelby, NC
- GE Energy (service): Schenectady, NY
- DMI (towers): Tulsa, OK
- Knight & Carver (blades): Howard, SD
- Molded Fiberglass (blades): Aberdeen, SD
- Composite Technology/DeWind (assembly): Round Rock, TX

Examples of facilities opened in 2006

Integrating Wind Energy



- Output from wind farms varies with the wind
- Growing body of evidence shows challenges can be managed
- Denmark and some states in Germany and Spain exceed 20% supply from wind
- Numerous studies conducted, full list at Utility Wind Integration Group (UWIG)
- Consensus: integrating wind has impacts but they can be managed through proper interconnection, integration, planning, market & systems operations, and forecasting

Wind Energy on Public Lands

- Bureau of Land Management
 - Programmatic EIS on wind development 2005
 - 500 MW in operation
 - 150 applications in process
- U.S. Forest Service
 - 2007 draft directives published
 - 4 applications in process, none yet operational
- Minerals Management Service
 - Energy Policy Act (2005) gave MMS jurisdiction over offshore wind resources
 - Currently drafting regulatory program to be completed this year
 - 2 projects grandfathered in, Cape Wind in process
 - 28 offshore wind testing nominations received under an interim lease process announced December 2007



***Looking Ahead –
A New Vision for Wind Energy in the U.S.***

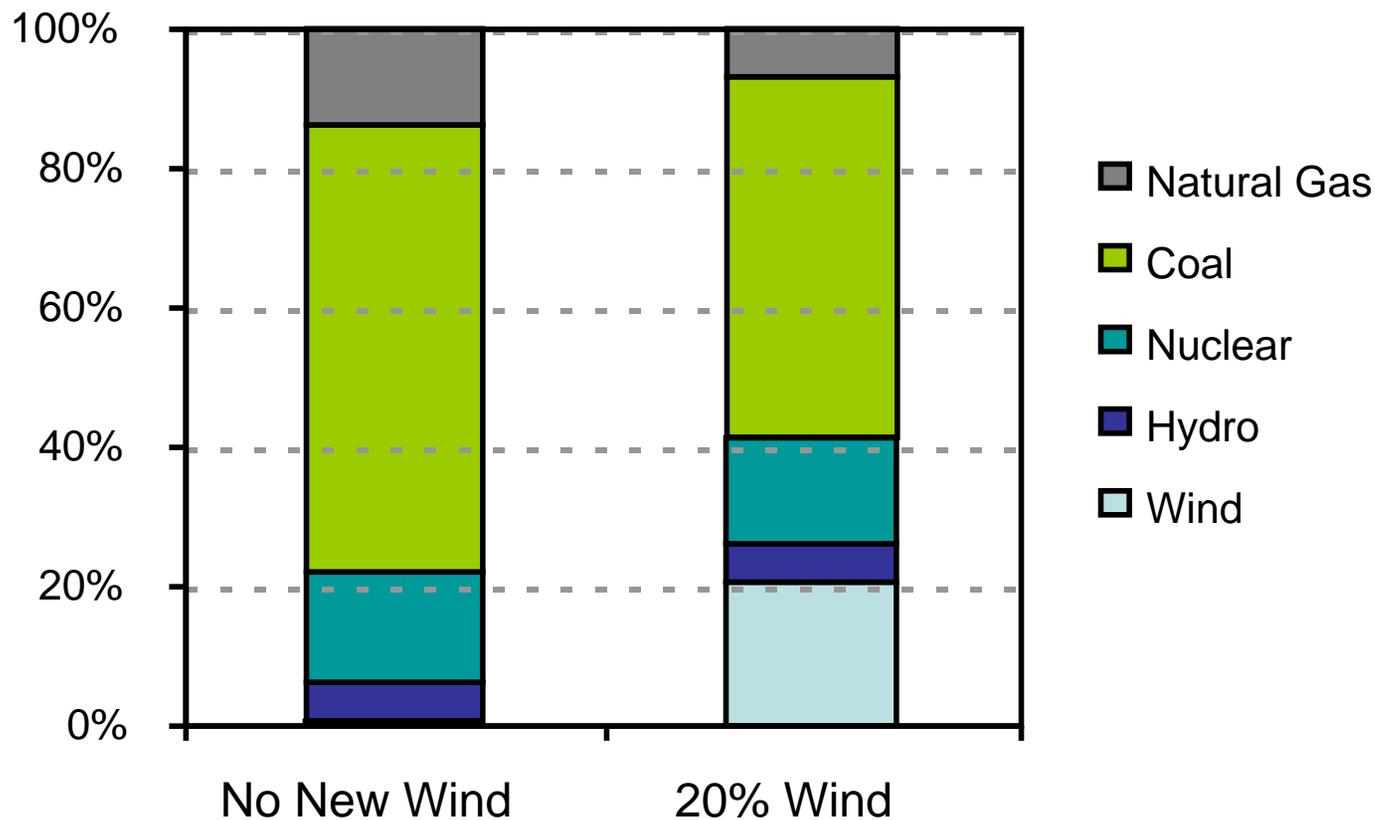
2006 State of the Union Address

**“...We will invest more in ... revolutionary
and...wind technologies”**

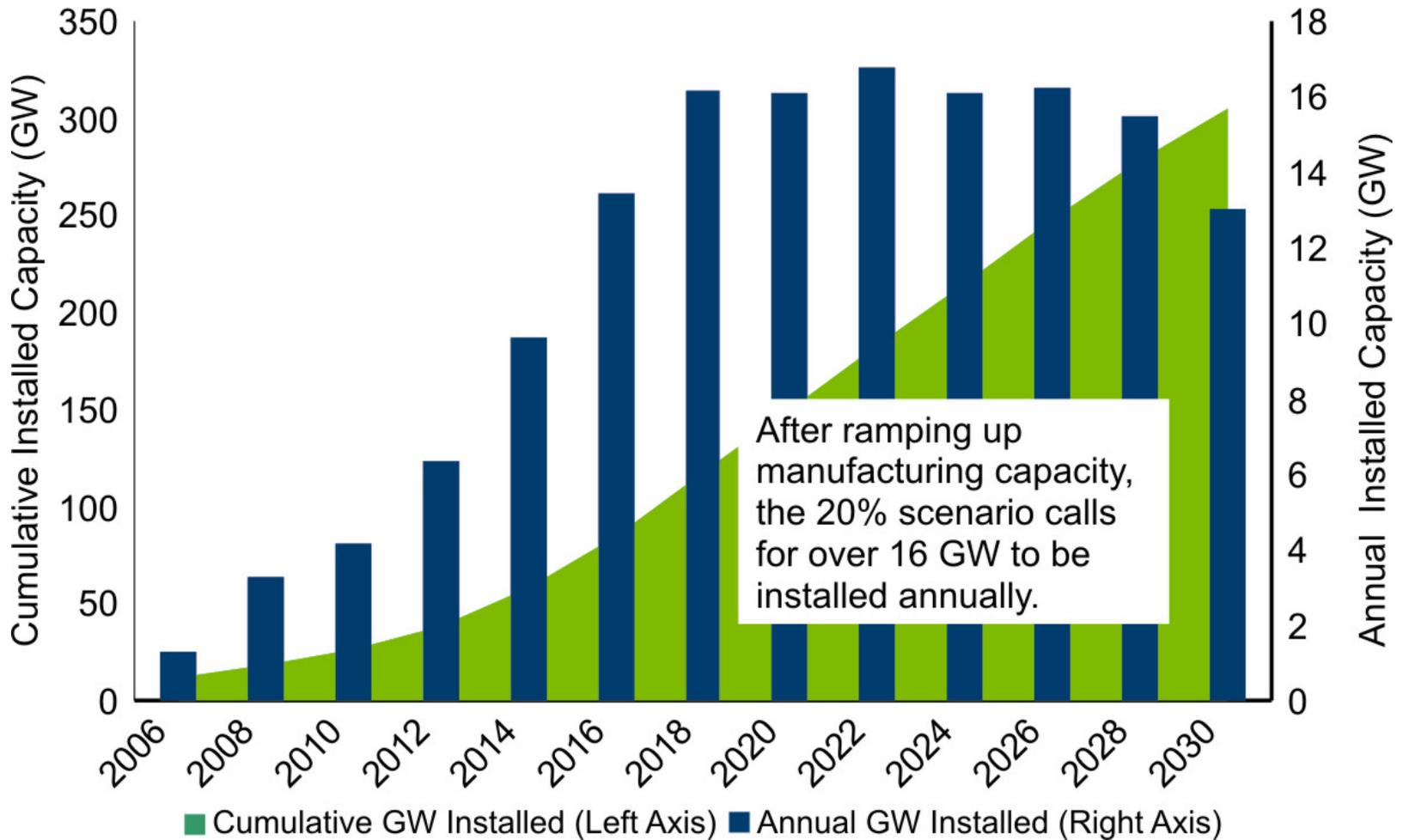
Advanced Energy Initiative

**“Areas with good wind resources have the
potential to **supply up to 20% of the
electricity** consumption of the United States.”**

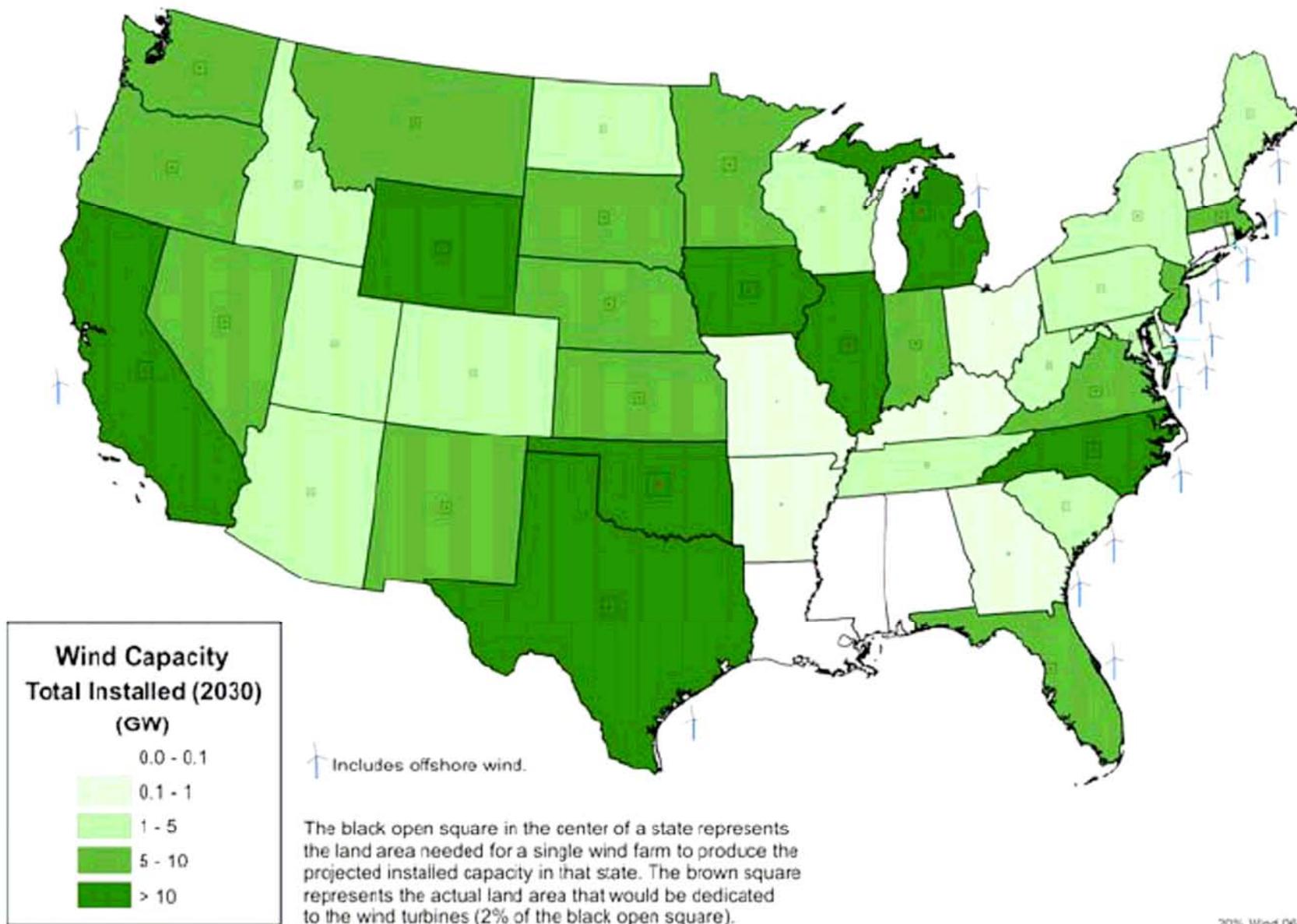
20% Wind Generation Scenario



Build Out Under 20% Scenario



20% Scenario: Installed Nameplate Capacity by State (2030)



Benefits of a 20% Wind Scenario

- Reductions in carbon dioxide emissions
- Water savings
- Economic benefits through property taxes and landowner payments
- Job creation
- Reduced natural gas consumption for electricity generation



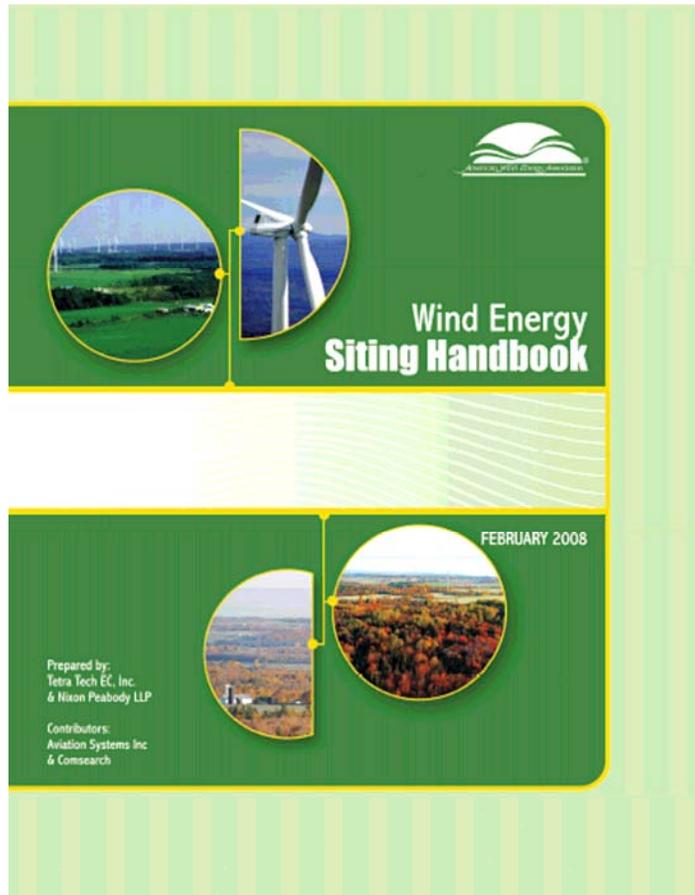
Barriers to Achieving 20%

- Technology development (R&D)
- Transmission and integration
- Manufacturing and material needs
- Environmental impacts and siting issues
- Markets for wind electricity
- Policy environment



AWEA Siting Handbook

www.awea.org/sitinghandbook



- Free, web-based document
- Discussion of regulatory framework and applicable laws
- Descriptions of potential impacts, mitigations, and studies
- Geared to industry, but helpful technical information accessible to many



Thank you



American Wind Energy Association

www.awea.org

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