

Serving the Energy Corridors

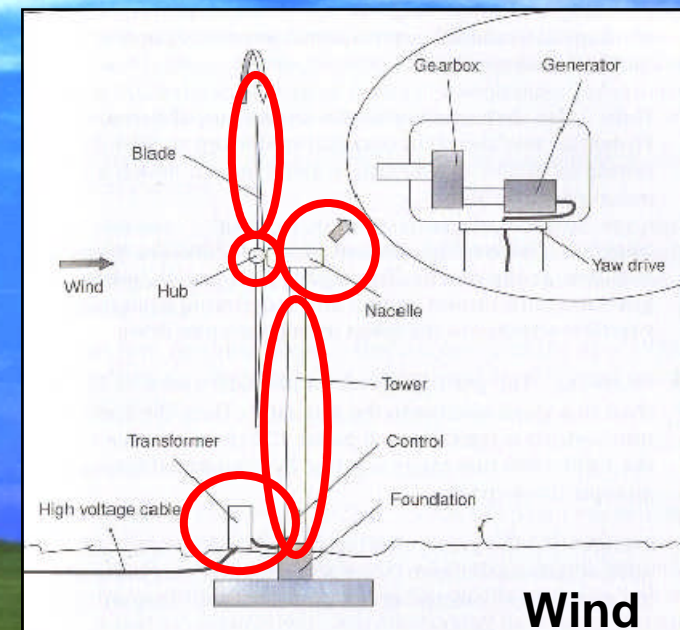
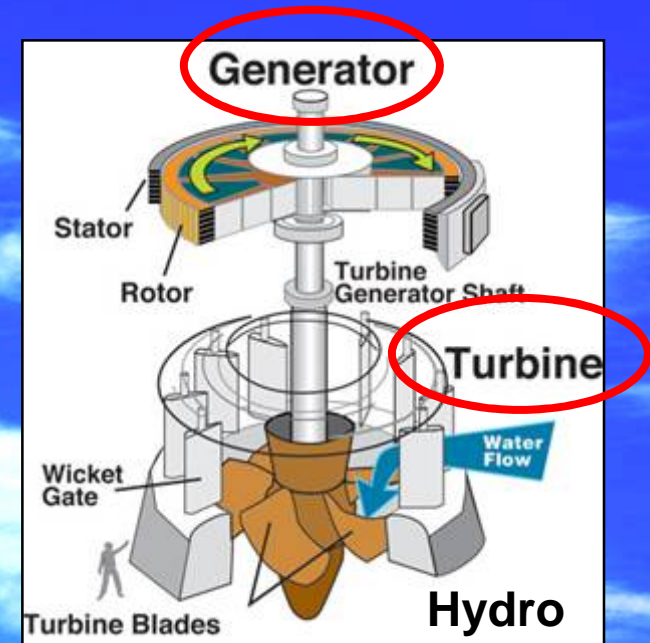
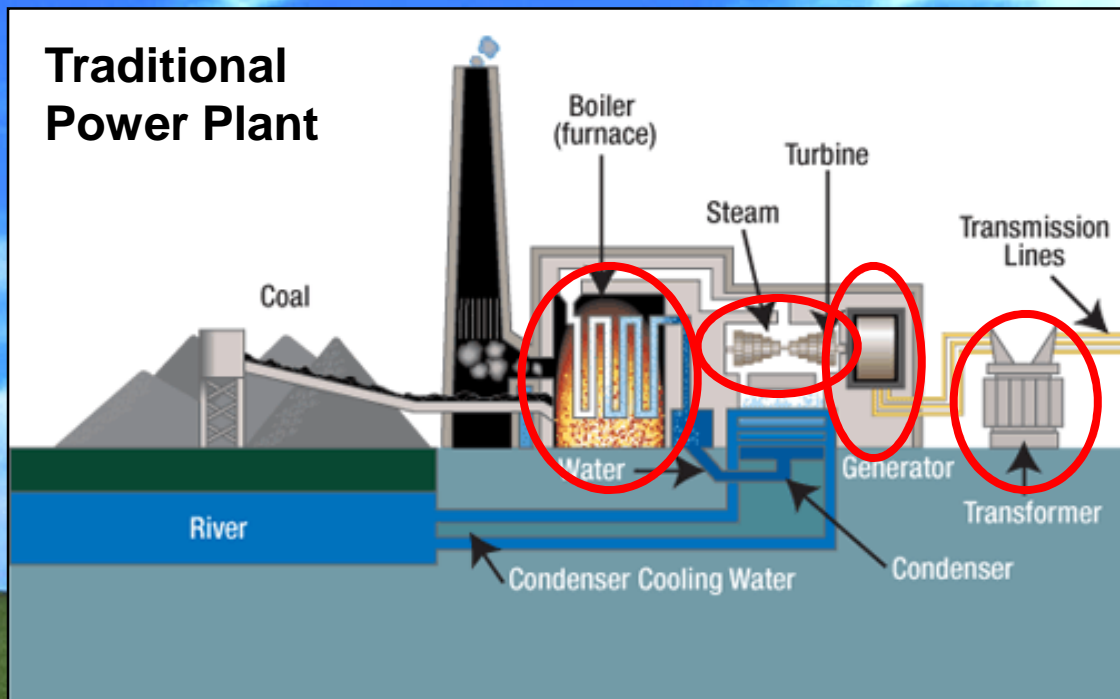
Overweight/Oversized Cargos: A Port Perspective

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What is Energy Sector Oversized?



- **Power Plant Transformer**
 - 210,000 lbs.
 - Delivered from S. America to NOLA by ship
 - Barged NOLA to PNS
 - Trucked to Vero Beach, FL
 - 19 axles, 183' long





- **Wind Turbine Nacelle**
 - 34 ft. long, 13 ft. high, 154,000 lbs.



- **Wind Turbine Hub**
 - 14 ft. tall, 11 ft. diameter, 40,000 lbs.



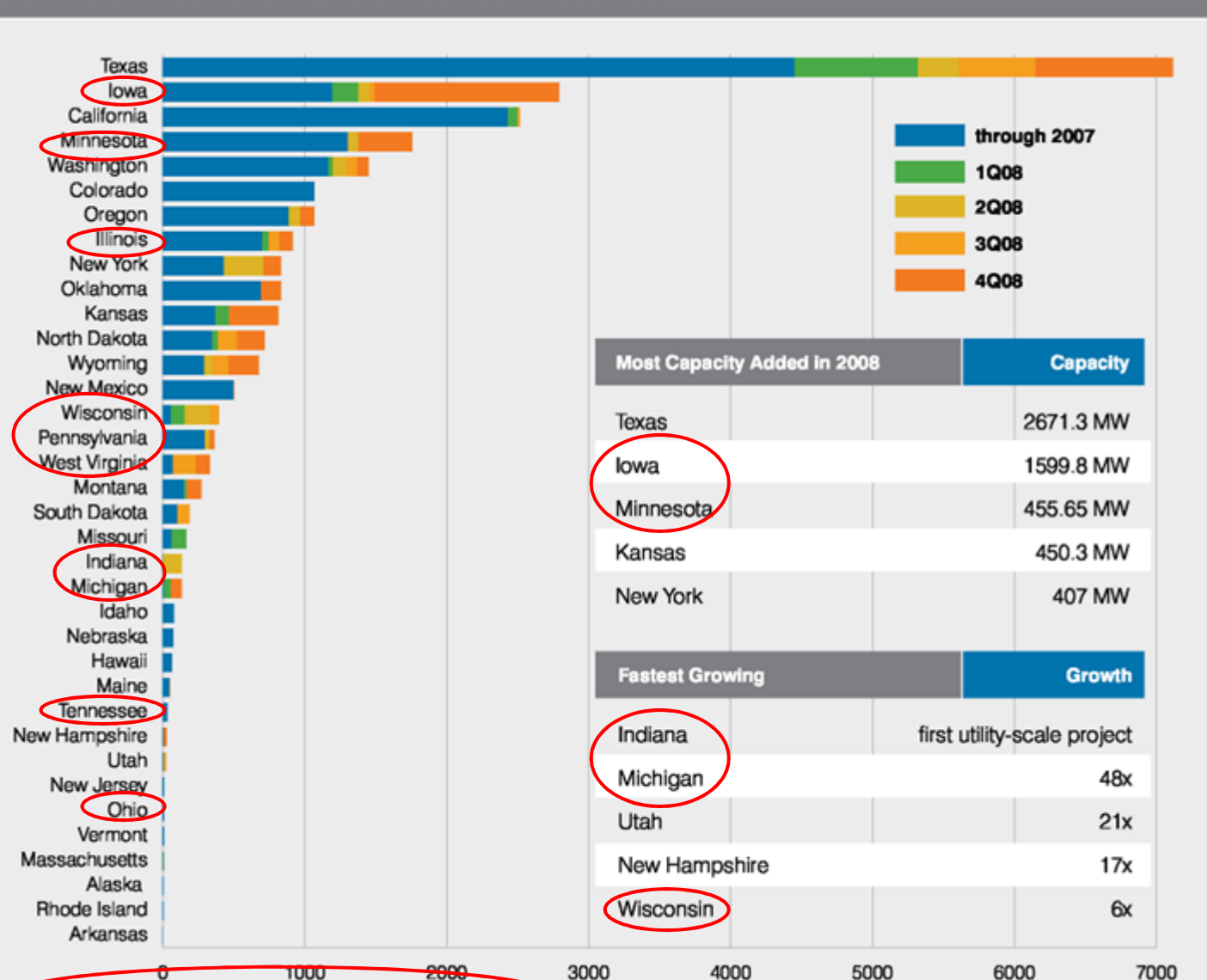
- **Wind Turbine Blade**
 - 136 ft. long, 6 ½ ft. diameter, 11 ft. high, 14,000 lbs.

Going Forward - Wind, Wind, Wind. Why?

- **In 2009, US became #1 in the world in:**
 - Wind Energy Production
 - Cumulative Wind Power Generating Capacity
 - New WTG Installations
- **Domestic Production**
 - 6 of top 10 global utility-scale wind turbine makers have US manufacturing plants
 - 70+ new wind component facilities opened in the US since 2007
- **Still not enough capacity to eliminate imports**

Going Forward - Wind, Wind, Wind. Where?

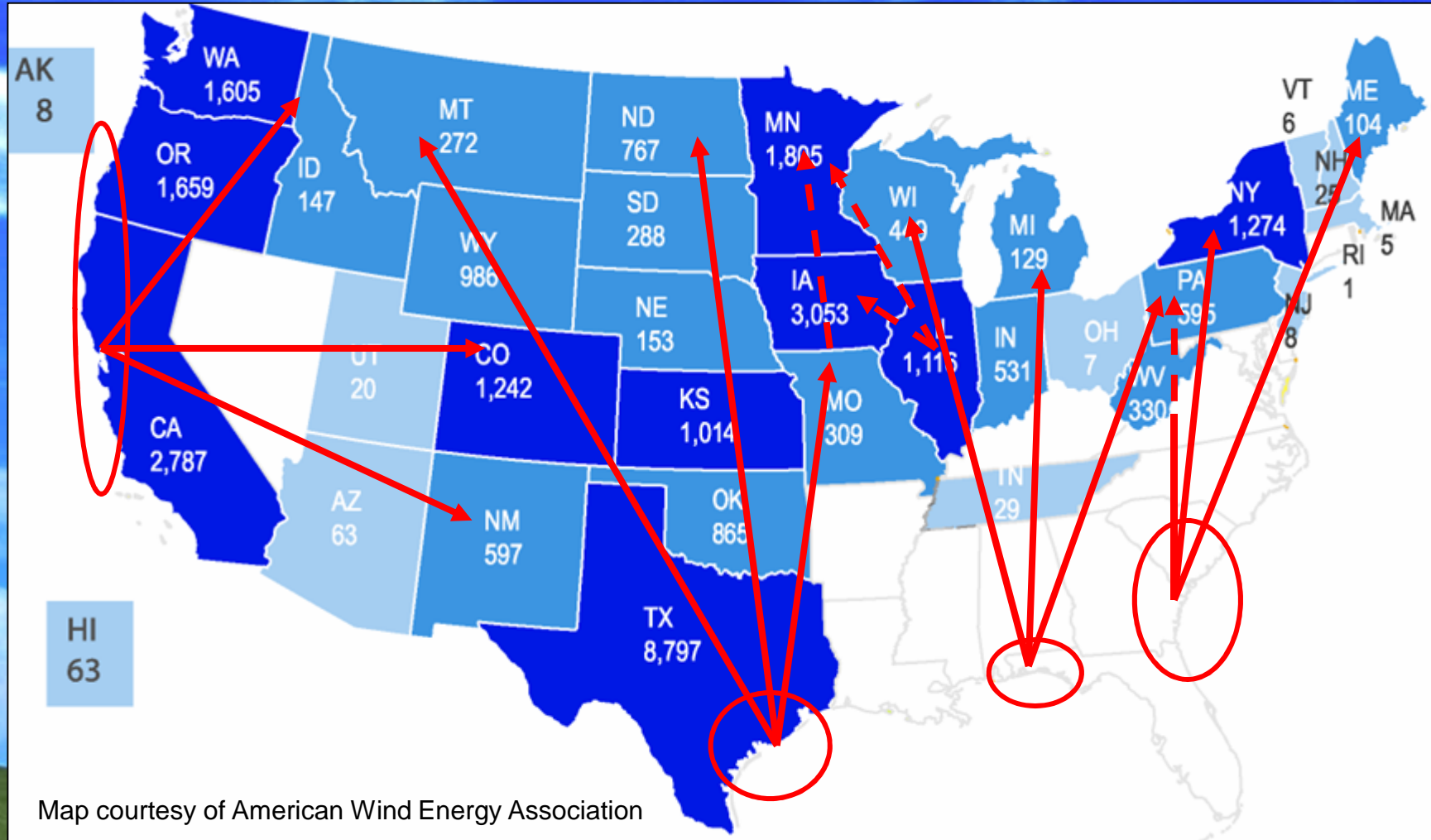
FIGURE 8: WIND POWER CAPACITY INSTALLATIONS BY STATE



Suitable for component importation via Pensacola

Source: American Wind Energy Association

Going Forward – Wind, Wind, Wind. How?



Key Project Factors - Economics

- Port charges
- Labor rates
- Transportation rates (rail & truck)



Key Project Factors – Port Selection

- Berth apron capacity
- On dock rail
- Lifting / craneage
- Labor expertise



Key Project Factors - Highway



- **Permitting**
- **Time & distance**
- **Height & width clearances/restrictions**



Key Project Factors - Rail



- **Time & distance**
- **# of interline switches**
- **Height & width clearances / restrictions**

Challenges

- **At point of origin (plant or port):**
 - Cargo storage capacity
 - Railcar staging capacity
 - Truck staging capacity
- **Highway routing:**
 - Urban transits
 - Inconsistent load restrictions state to state
 - Inconsistent transit time & escort requirements state to state
- **Rail routing:**
 - Railcar availability & delivery scheduling
 - Yard capacities for storage & interline switch staging
 - Urban transits

Thank You!

