



Building an Offshore Wind Industry with the Atlantic Wind Connection

National Association of State Energy Officials

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Robert Mitchell, CEO

Atlantic Wind Connection

202-258-0960

RMitchell@AtlanticWindConnection.com

U.S. energy demand

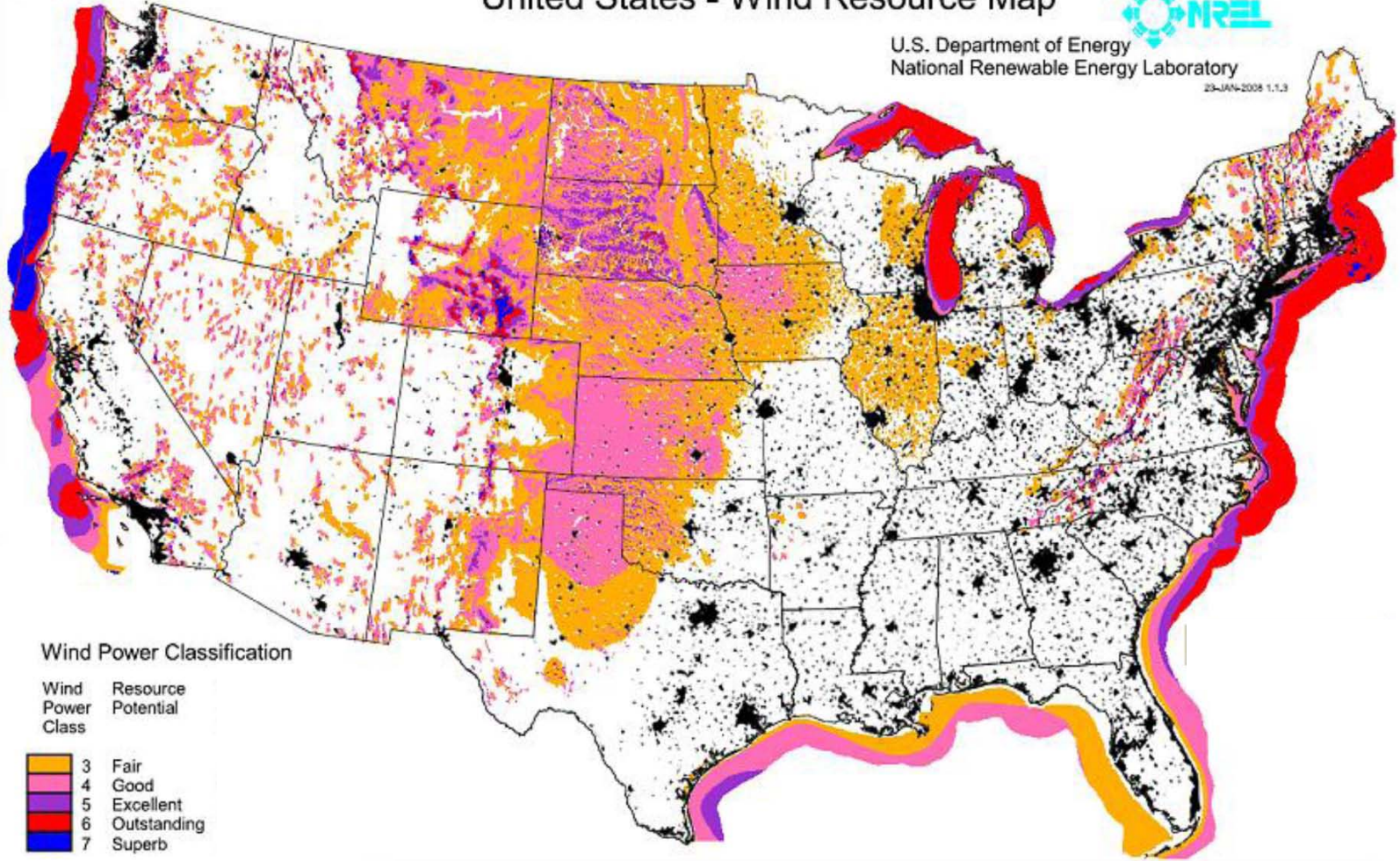


“The mid-Atlantic region offers the most abundant and most attractive offshore wind resources in the country.” The Brattle Group

United States - Wind Resource Map



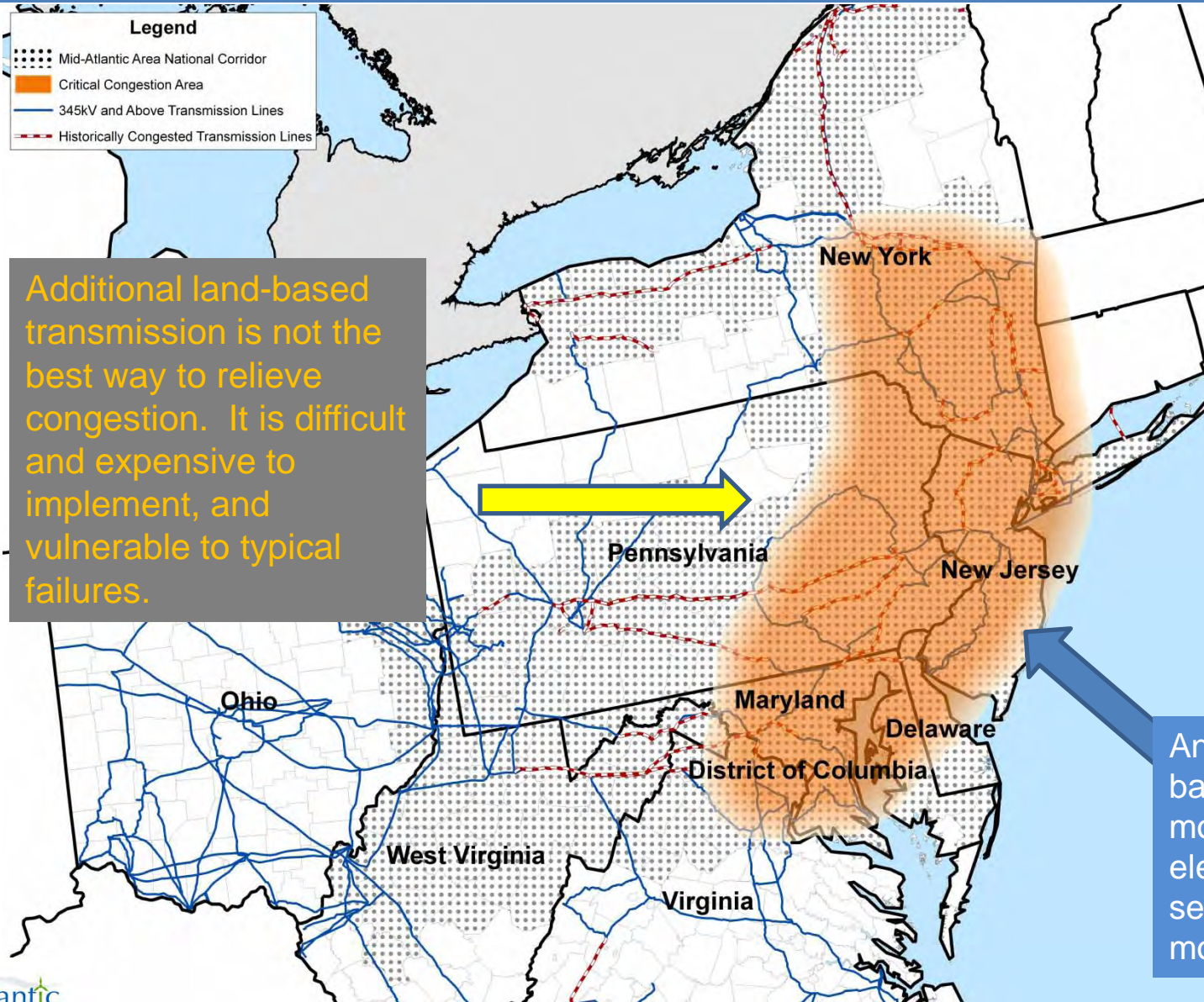
U.S. Department of Energy
National Renewable Energy Laboratory
23-JAN-2008 1.1.3



Wind Power Classification

Wind Power Class	Resource Potential
3	Fair
4	Good
5	Excellent
6	Outstanding
7	Superb

AWC lowers the hidden costs consumers pay for congestion.



Additional land-based transmission is not the best way to relieve congestion. It is difficult and expensive to implement, and vulnerable to typical failures.

- Congestion is the inability to deliver power where it is needed.
- Ratepayers in Eastern PJM pay **\$1.2 – 1.8 Billion** each year in congestion charges.
- Eliminating congestion would provide huge value to consumers.

An offshore backbone is more easily built, electrically separate, and more secure.

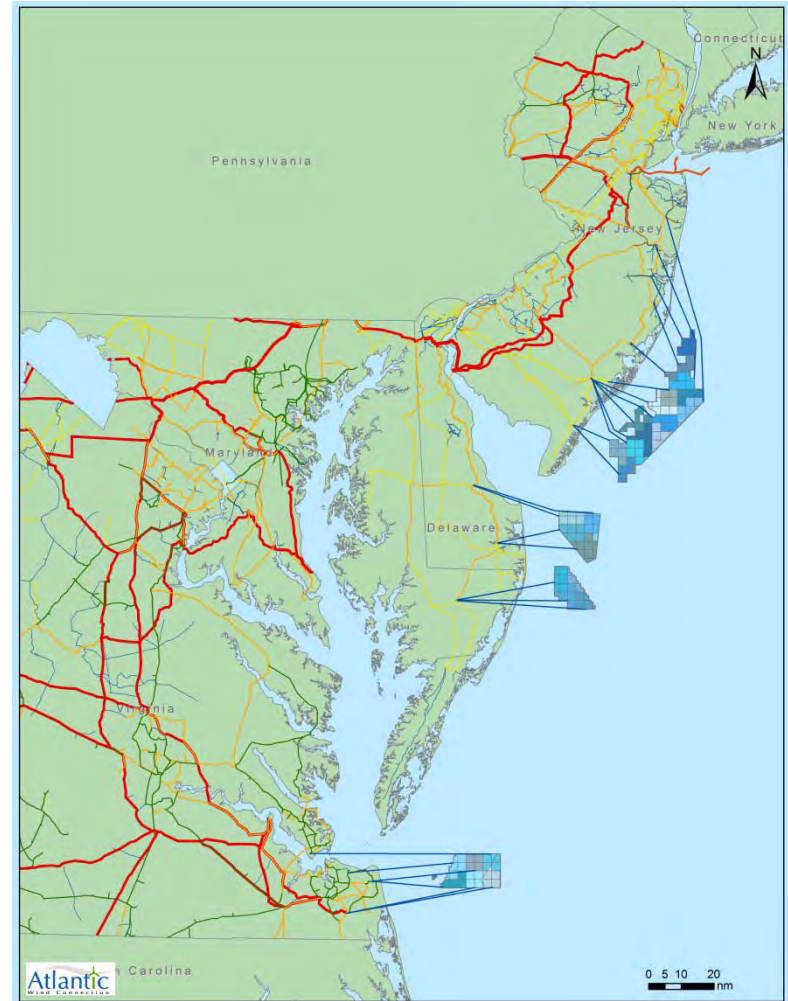
Congestion Adds Costs

Transportation and Electric Transmission



“Local roads or an interstate highway network?”

Planning ahead to avoid obstacles will save ratepayers money



“Local roads or an interstate highway network?”

Planning ahead to avoid obstacles will save ratepayers money in the long run



- 10 year plan to build 350 mile subsea HVDC transmission system off mid-Atlantic states in 5 phases
- Enables up to 7,000 MW of offshore wind to be developed 12 or more miles off the coast
- Helps make offshore wind affordable
- Enables replacement of 5 coal plants – 16 million tons of CO₂
- Is buildable because it can be permitted
- Makes the PJM grid more robust
- \$43 billion in benefits from transmission and offshore wind
- Private venture

The Atlantic Wind Connection Makes Offshore Wind...

AWC offshore electric grid uniquely promotes large-scale offshore wind development – scale sufficient to make a positive environmental impact, create thousands of jobs, and reduce the cost of offshore wind.

Bigger

AWC provides a platform on which offshore wind developers can interconnect their wind farms with significantly reduced siting, permitting and interconnection barriers, thus speeding the process of offshore wind development.

Faster

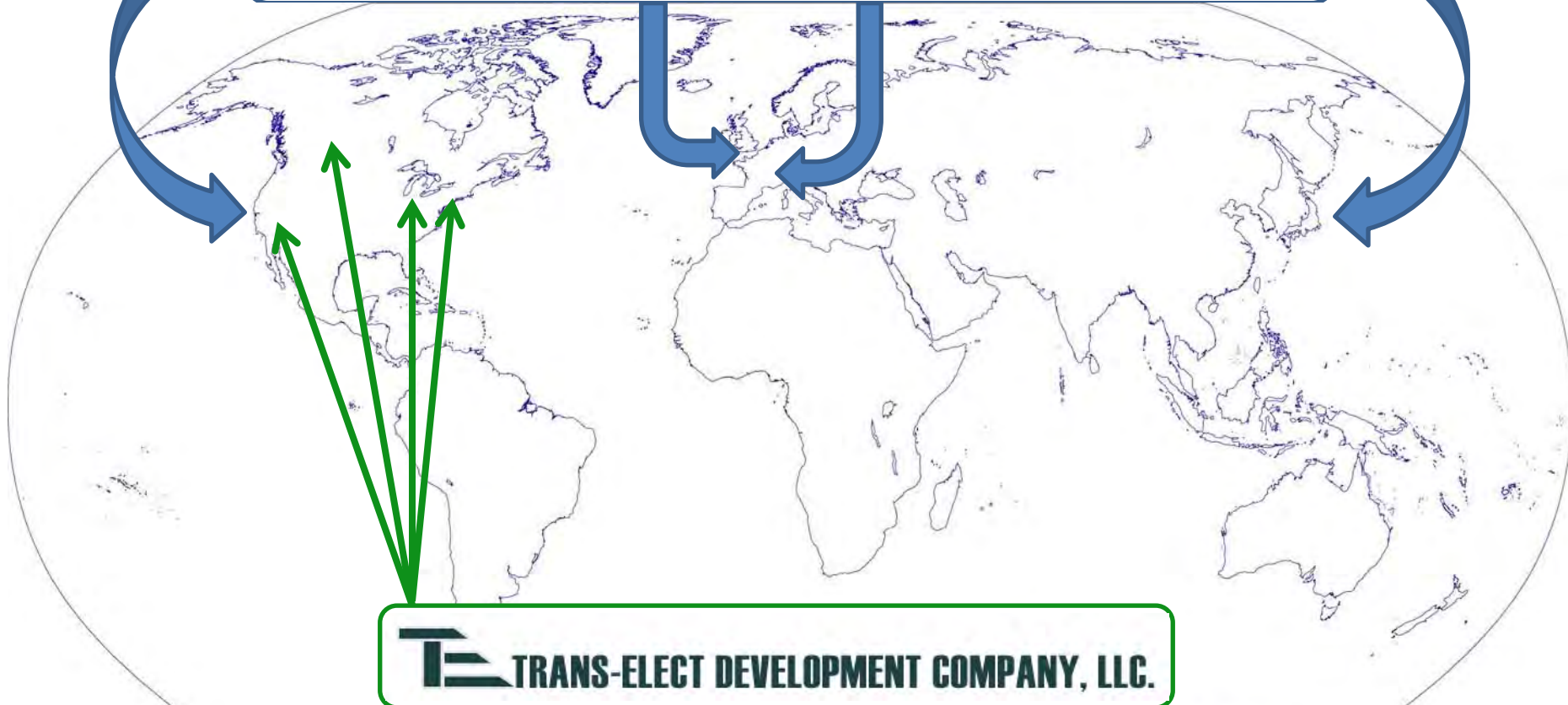
AWC's offshore electric grid will have a limited number of landfall points and thus, reduce disturbance to sensitive coastal environments.

Greener

A 2010 Brattle Group study found that AWC will reduce the overall costs of developing nearly 7,000 MW of offshore wind farms by between \$1.2 to \$3 billion

Affordable

AWC is funded by a team of global investors



Development Led by Experienced Independent Transmission Company