



CHICAGOLAND
WIND COUNCIL

CHICAGOLAND WIND COUNCIL

- *demonstrating the strength of offerings Chicago possesses for the Wind Industry market.*



CHICAGOLAND WIND COUNCIL

December 06, 2013

CWC - 20th Meeting



CHICAGOLAND WIND COUNCIL

December 06, 2013 Meeting Agenda

- Introductions
- Wind Market overview
- Area Activities
- Featured Speaker - Citizens' Greener Evanston
 - Jonathan Nieuwsma
- The Robert W. Galvin Center for electricity innovation
 - Mohammad Shahidehpour, PhD
- Q/A



CHICAGOLAND WIND COUNCIL



Introduction

The objective of the **Chicagoland Wind Council (CWC)** is to help companies develop a strategic plan for finding new customers or develop products in the wind turbine market.

The first project for the **CWC** was to help each participating company develop a Strategic Plan that would guide the company's actions as it enters or expands its customers in the wind supply chain. The Plan would contribute to each company efforts to attend or exhibit in some form at the 2010 AWEA show in Dallas.

The **CWC** is currently working on four work streams:

- Continue to develop and educate current supply chain within our area.
- Develop small wind product line for manufacture and distribution.
- Promote and assist the colleges and universities in our area with their addition of wind technology to their curriculum.
- Market the Wind capabilities of our area.



Chicagoland Wind Council

Who are we?

2010 Excellence in Economic Development –
Honorable Mention
International Economic Development Council



Event Partner for:

AWEA Regional Wind Energy Summit – Midwest **2012**

March 6 – 7, 2012 ▶ Chicago, IL



2012 and 2013 German
American Wind Energy
Business Conference



Technical Partner and
Panel Session for:



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Join us and post
your activities

LinkedIn group:
Wind Energy Chicago

838th member this week.



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Thank you



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Wind Energy - Market Overview

December 06, 2013

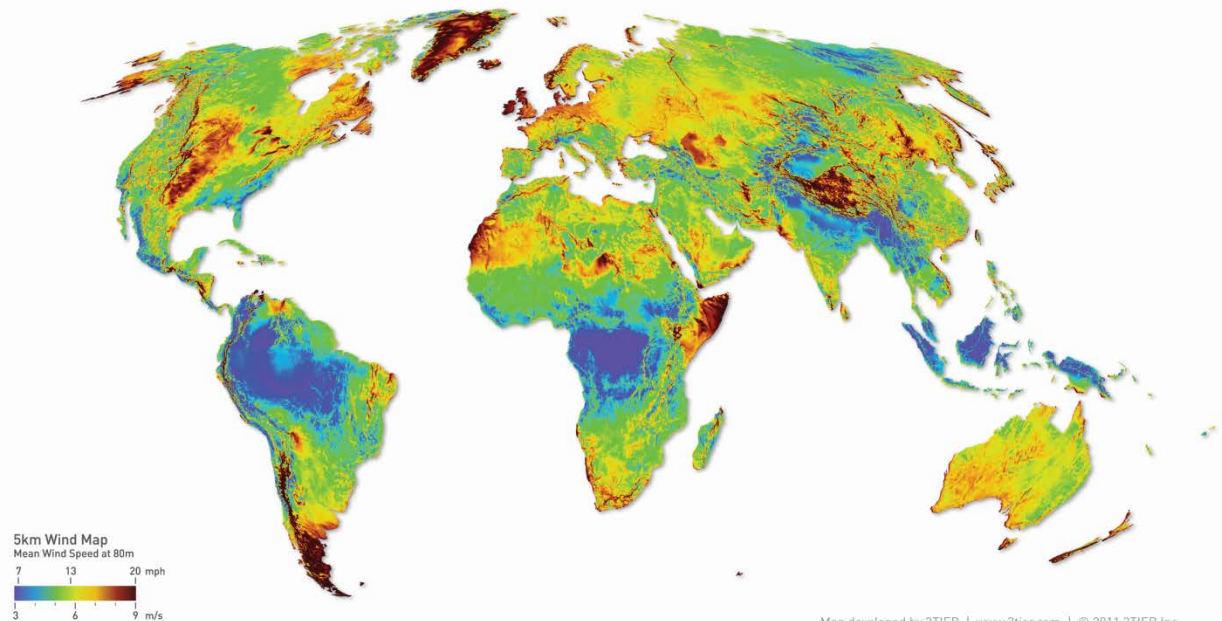


Wind Energy - Market Overview

Global



Global Mean Wind Speed at 80m



Map developed by 3TIER | www.3tier.com | © 2011 3TIER Inc.



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Wind Energy - Market Overview

100 countries using Wind Power!

100 Countries are using Wind Energy today - Iceland as 100th Wind Power Country

The worldwide wind capacity reached 282,275 Megawatt, out of which 44,609 Megawatt were added in 2012, more than ever before.

Wind power showed a growth rate of 19.2 %, the lowest rate in more than a decade.

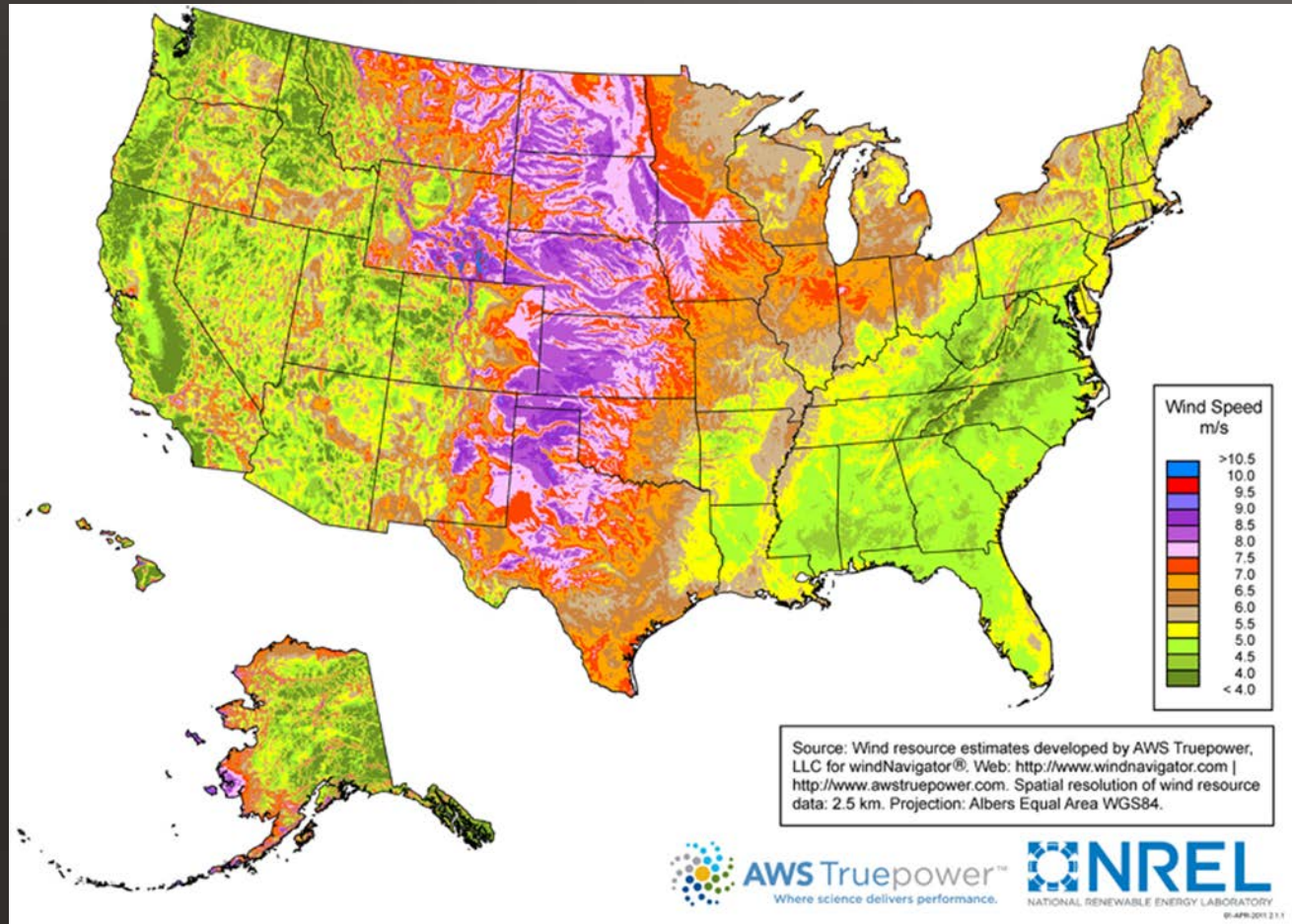
All wind turbines installed by the end of 2012 worldwide can provide 580 Terawatthours per annum, more than 3 % of the global electricity demand.

The wind sector in 2012 had a turnover of 60 billion Euro/75 billion USD.



Wind Energy - Market Overview

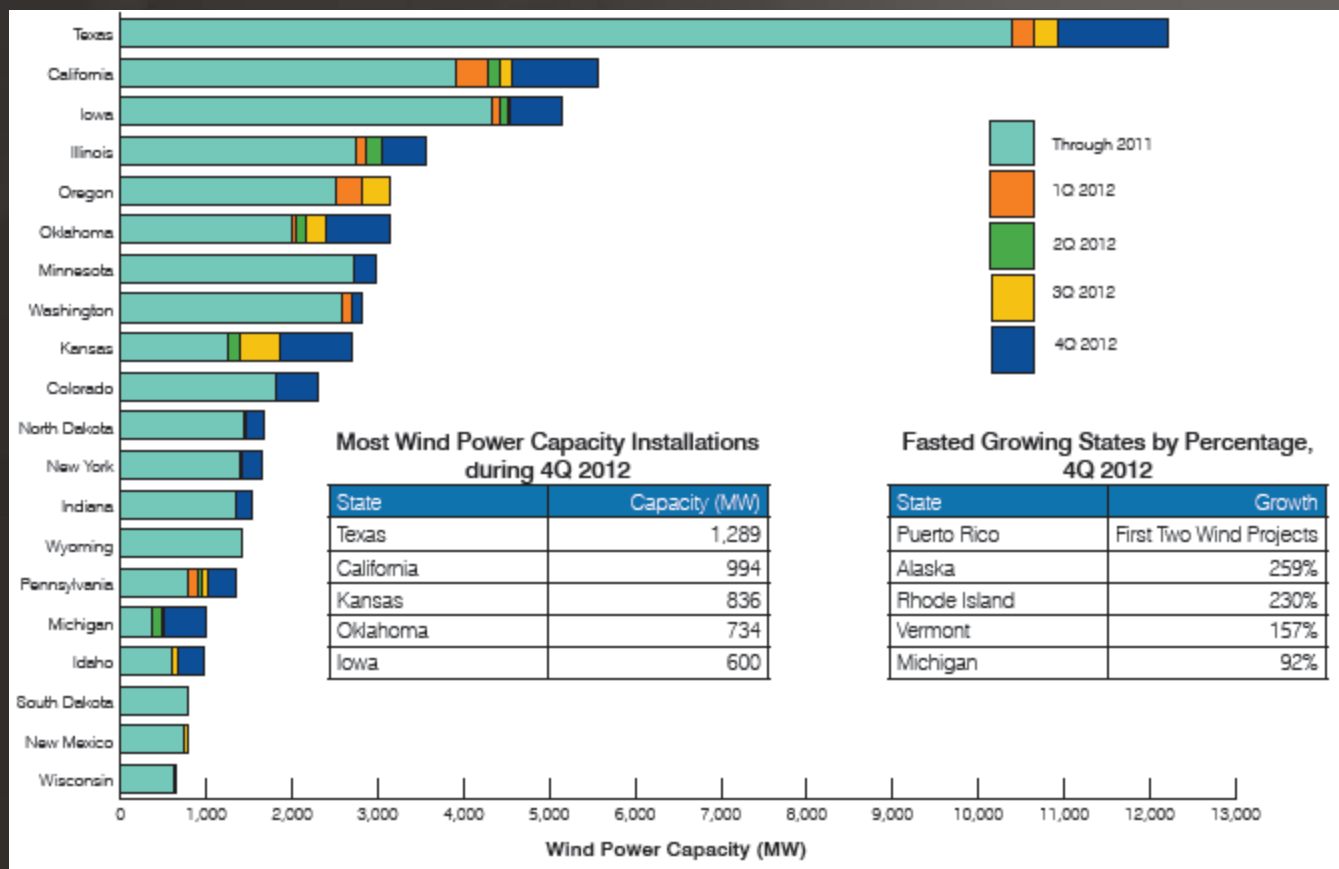
United States



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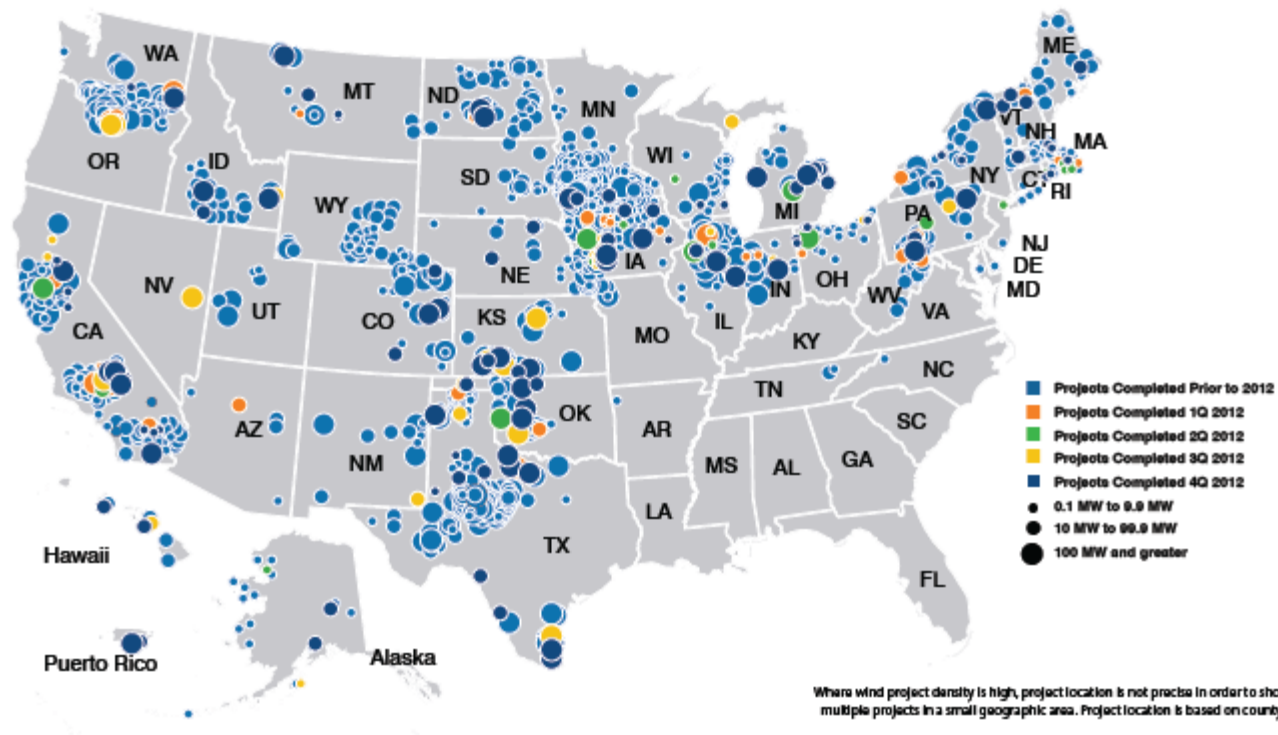
Wind Industry - Market Overview

U.S. Wind Power Capacity Installations, Top 20 States



Wind Industry - Market Overview

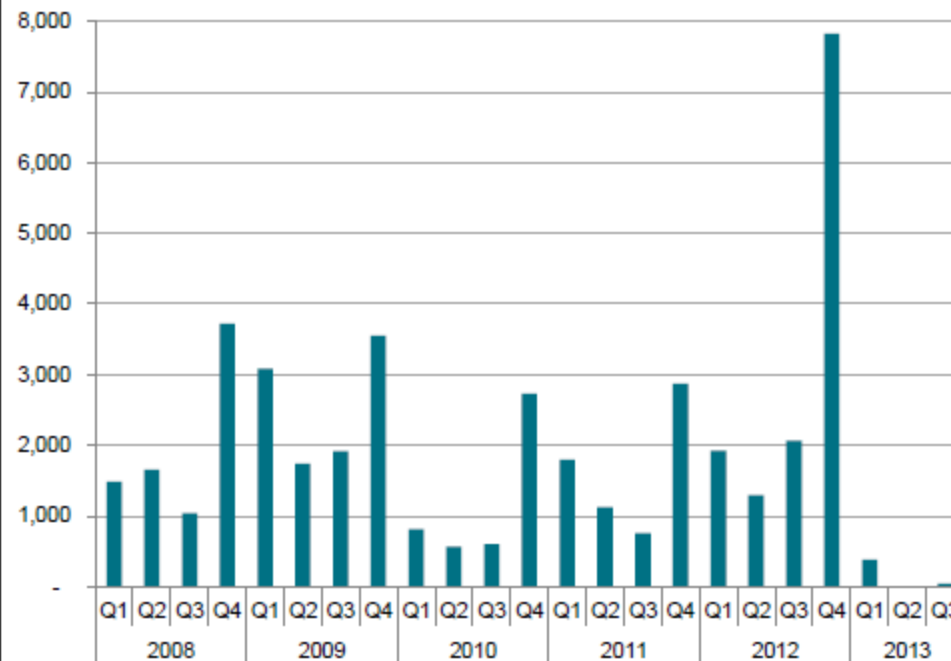
U.S. Wind Project Locations



Wind Energy - Market Overview

Year 2013

Wind capacity by quarter in service (MW)



Only units with known online months are included.
As of Oct. 8, 2013
Source: SNL Energy

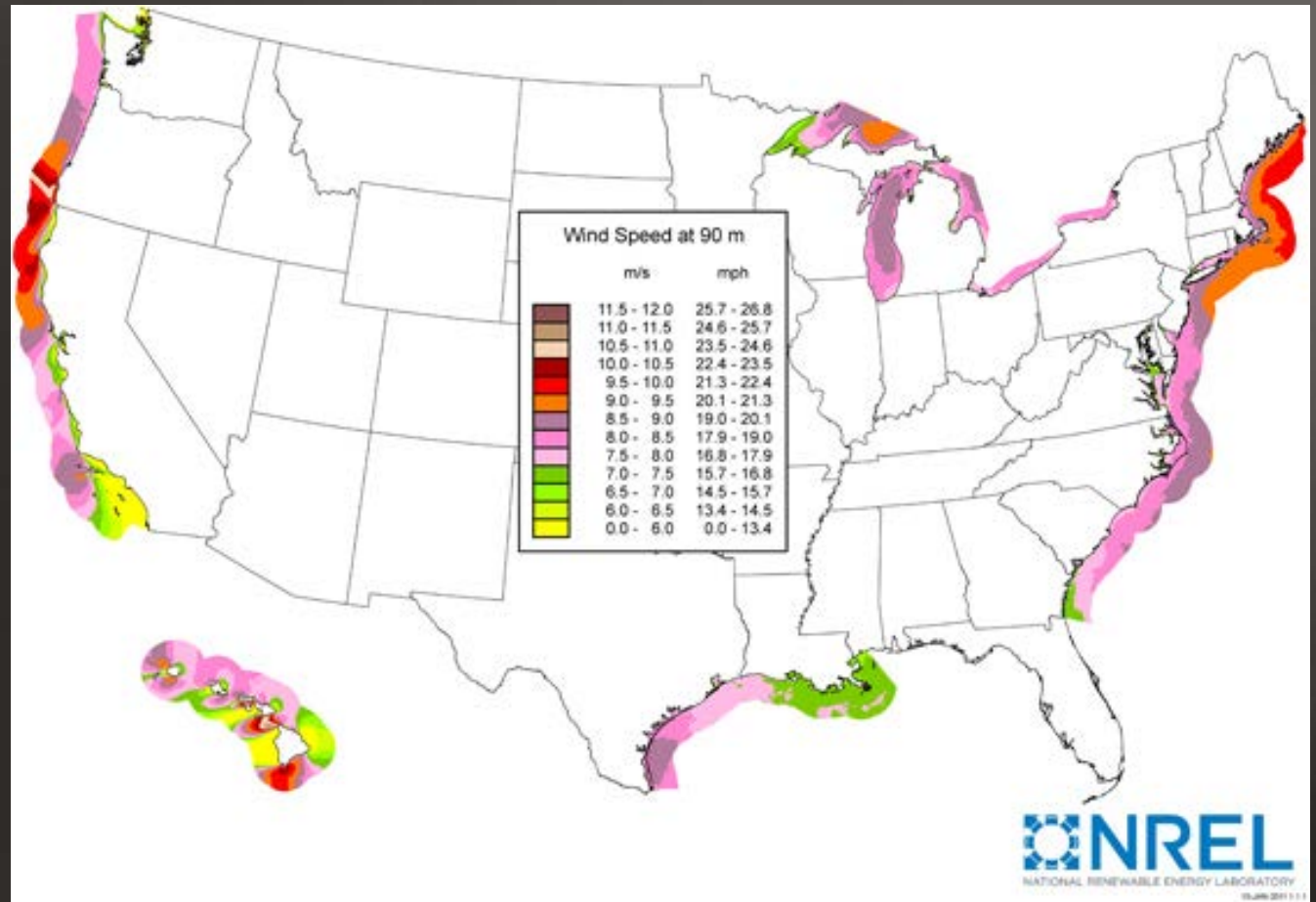
Year	Quarter	Capacity (MW)
2008	Q1	1,487
	Q2	1,656
	Q3	1,040
	Q4	3,725
2009	Q1	3,083
	Q2	1,736
	Q3	1,914
	Q4	3,549
2010	Q1	814
	Q2	564
	Q3	601
	Q4	2,727
2011	Q1	1,797
	Q2	1,124
	Q3	753
	Q4	2,871
2012	Q1	1,922
	Q2	1,297
	Q3	2,061
	Q4	7,823
2013	Q1	384
	Q2	5
	Q3	43



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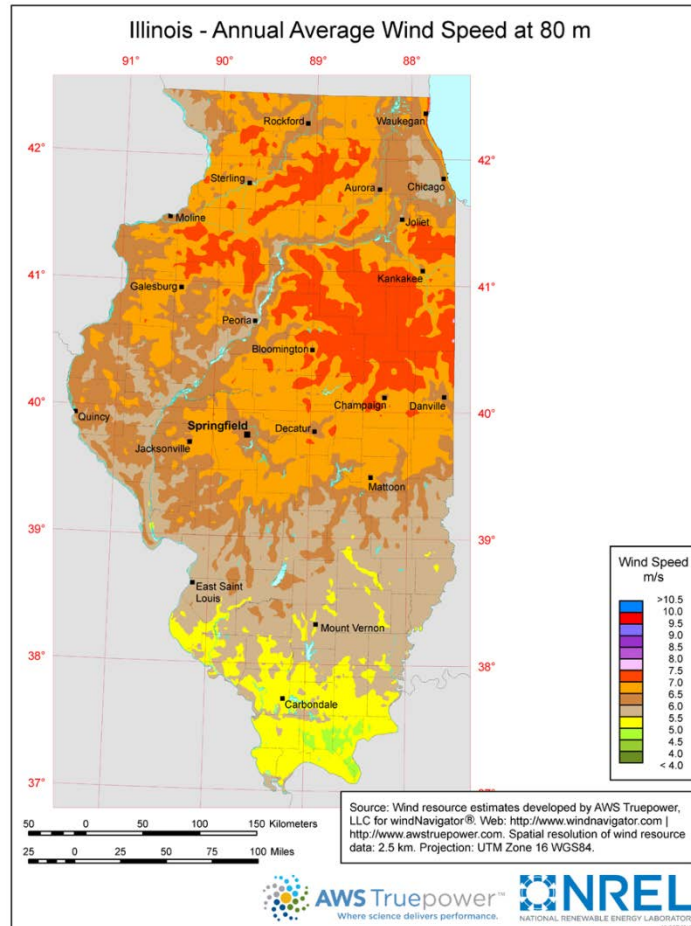
Wind Energy - Market Overview

United States
- Offshore



Wind Energy - Market Overview

Illinois



Wind Industry - Market Overview

Future Outlook

- Forecast
- Bigger and Bigger
- Opportunity
- Final thoughts



Wind Energy - Market Overview

Bigger and Bigger



Clemson center to test wind turbines and the grid

the 82,000-square-foot facility that houses the world's largest wind turbine drivetrain testing rig as well as a 15 megawatt electric grid research facility.

The center, financed in part by \$45 million in federal stimulus money from the Department of Energy, is located at the old Charleston Naval Base on the site of a warehouse that was built during World War II.



Wind Industry - Market Overview

Take away

- Offshore Wind Energy offers great potential to the U.S. and Great Lakes
- Market expected to recover 2014 -2015
- New opportunities



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Wind Energy
Greater Chicago Activities

December 06, 2013



Wind Energy – Chicagoland activities

CWC

- Lynwood Wind Project
- Grant Park Wind Farm
- KCC – Wind /Solar program



CHICAGOLAND WIND COUNCIL

Our Featured Speaker

December 06, 2013



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Citizens' Greener Evanston

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the Robert W. Galvin Center for electricity innovation

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- Mohammad Shahidehpour, PhD



Q/A



Thank you.

CWC



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