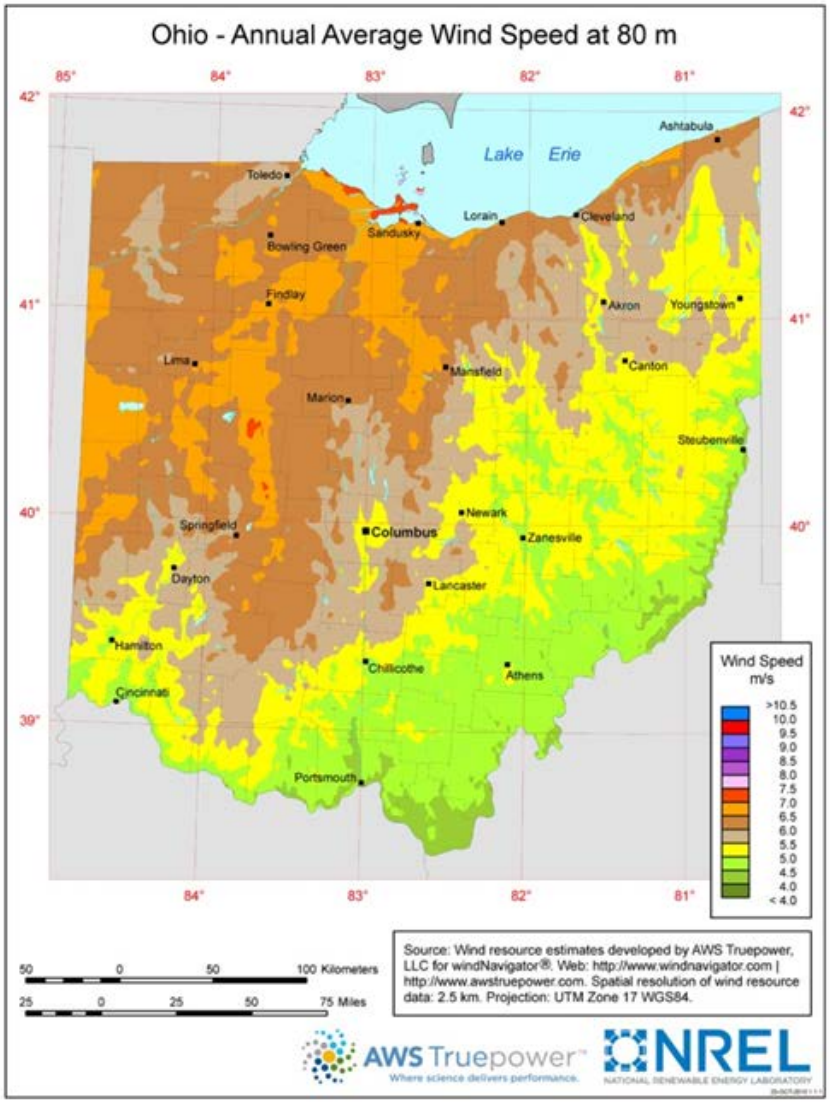
Ohio - Annual Average Wind Speed at 80 m
85°
84°
83°
82°
81°
42°
41°
40°
39°
Lake Erie
Ashtabula
Toledo
Lorain
Cleveland
Sandusky
Bowling Green
Findlay
Akron
Youngstown
Lima
Mansfield
Canton
Marion
Steubenville
Newark
Springfield
Columbus
Zanesville
Dayton
Lancaster
Hamilton
Chillicothe
Athens
Cincinnati
Portsmouth
Wind Speed m/s
>10.5
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
< 4.0
50 0 50 100 Kilometers
25 0 25 50 75 Miles
Source: Wind resource estimates developed by AWS Truepower, LLC for windNavigator®. Web: http://www.windnavigator.com | http://www.awstruepower.com. Spatial resolution of wind resource data: 2.5 km. Projection: UTM Zone 17 WGS84.
AWS Truepower
Where science delivers performance.
NREL
NATIONAL RENEWABLE ENERGY LABORATORY

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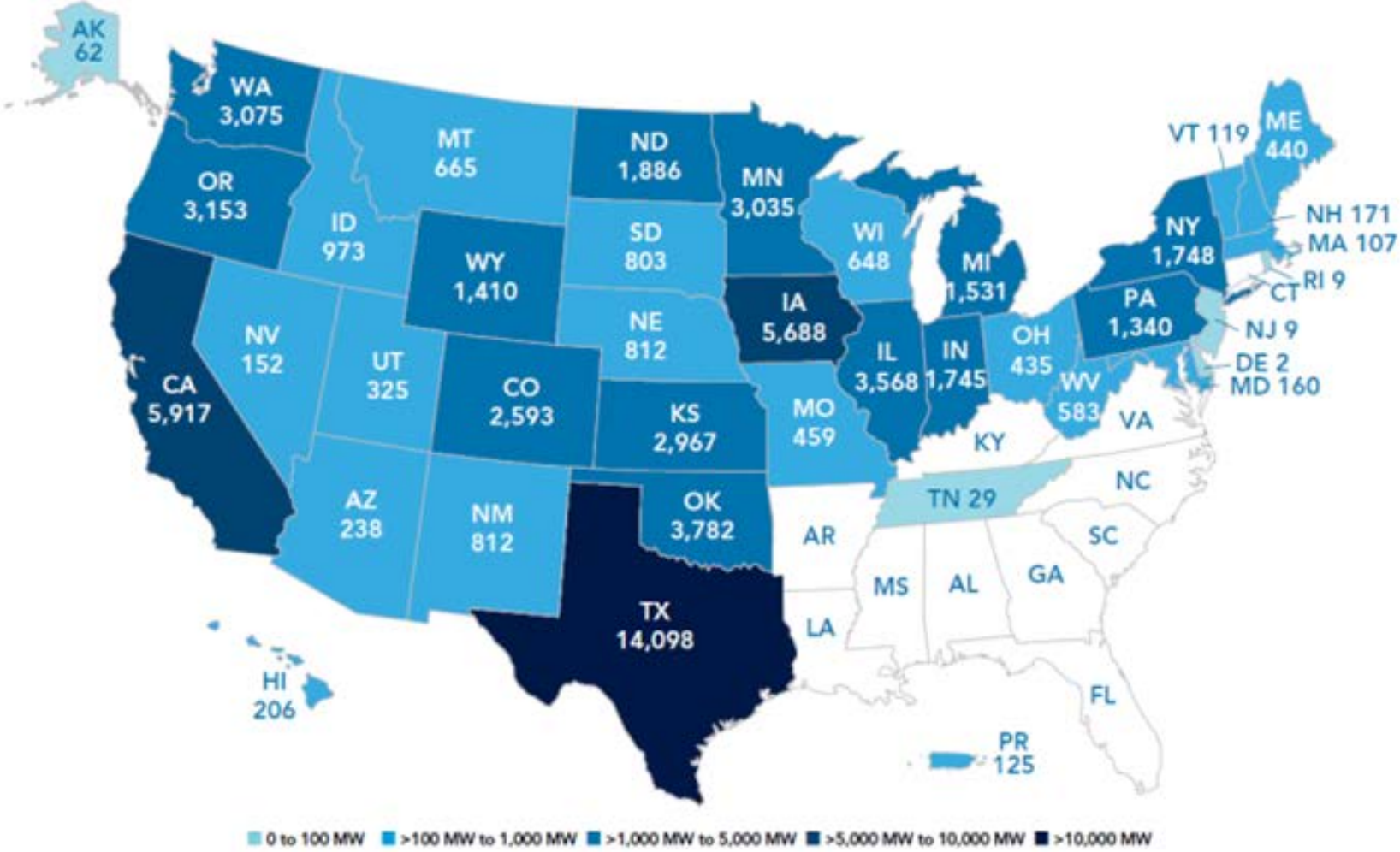
Installed wind energy capacity by state through 2014



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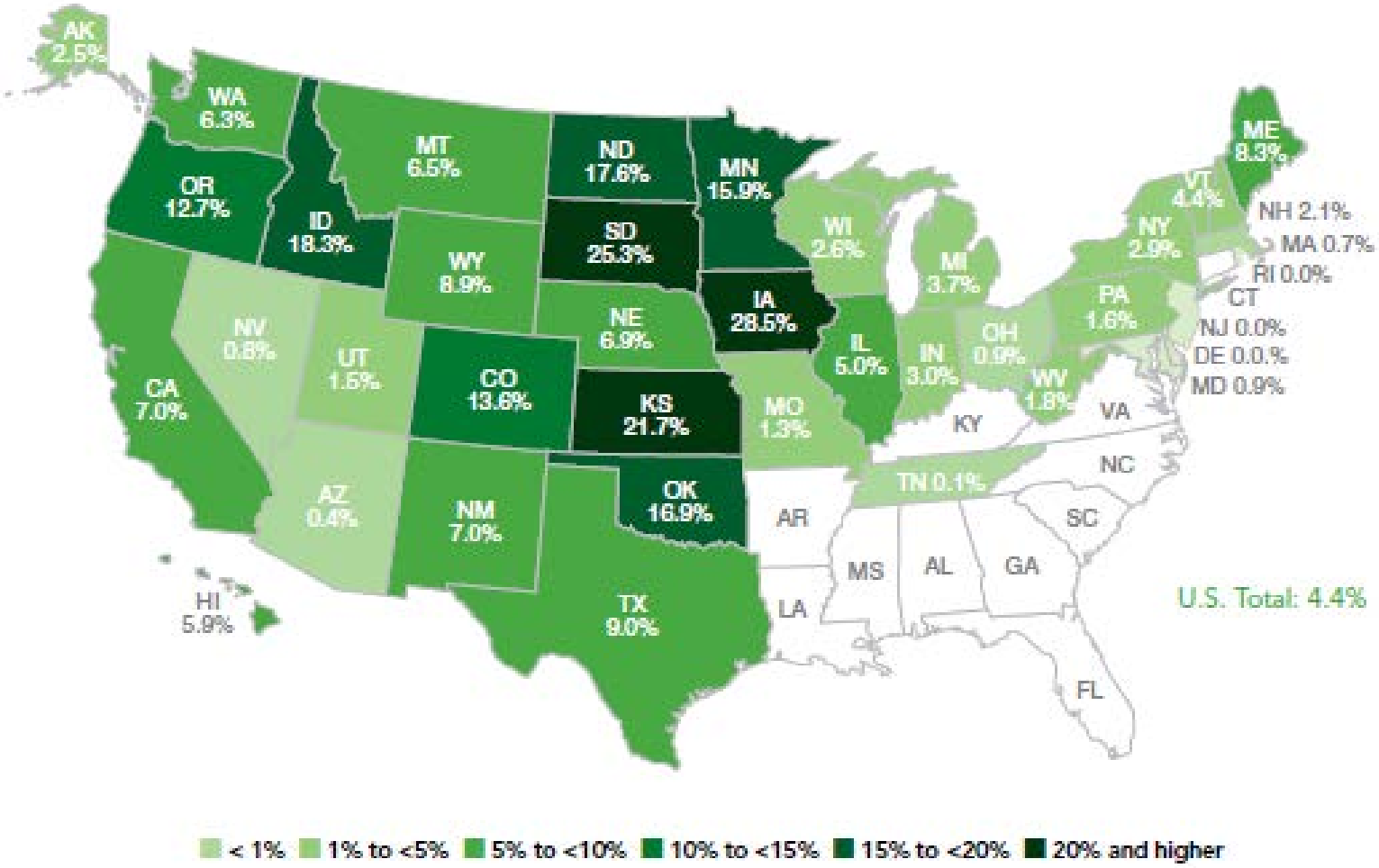
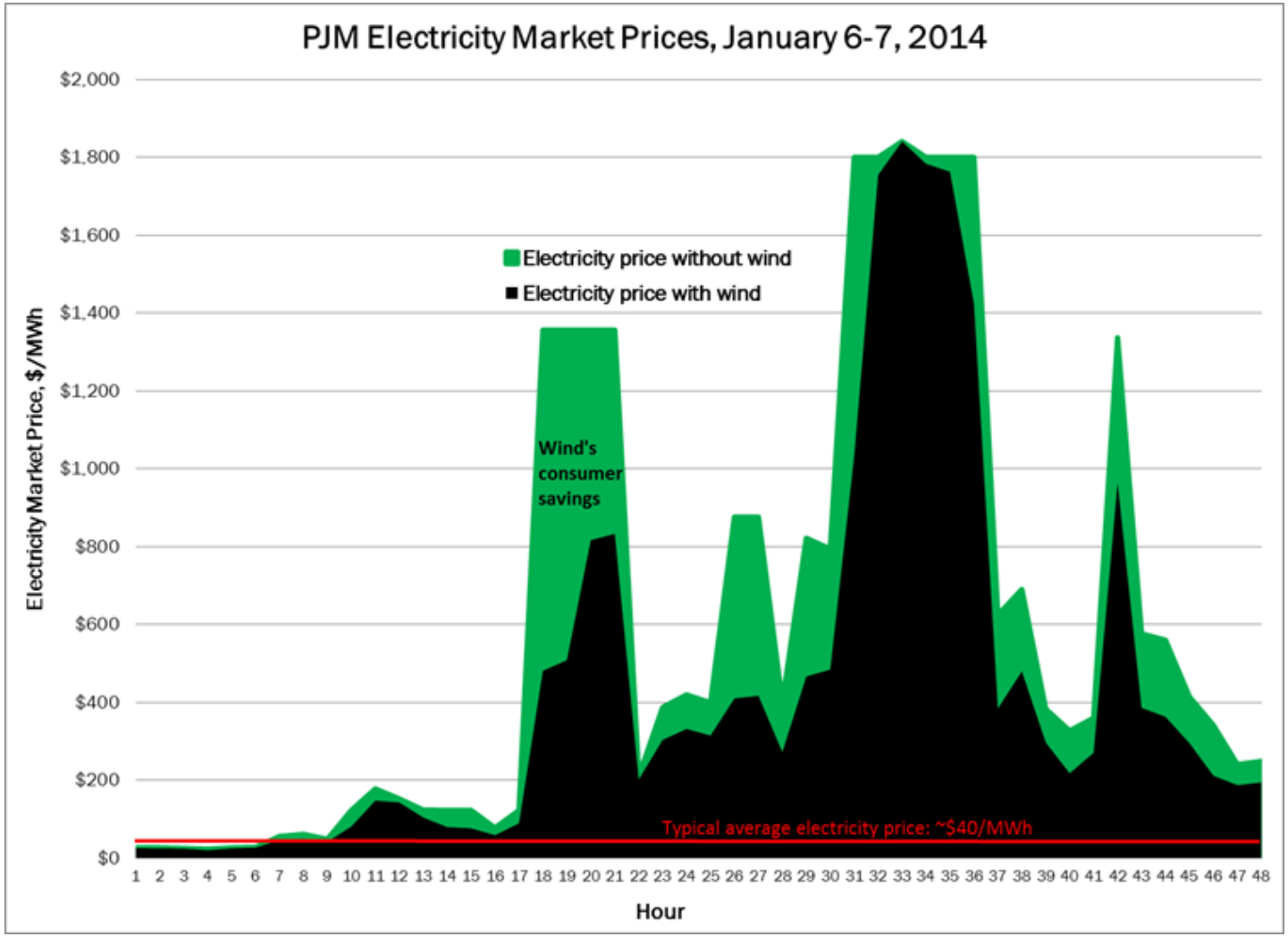
On an annual average basis, percent penetration of wind energy by state as of the end of 2014



Wind energy protected consumers from price spikes during polar vortex



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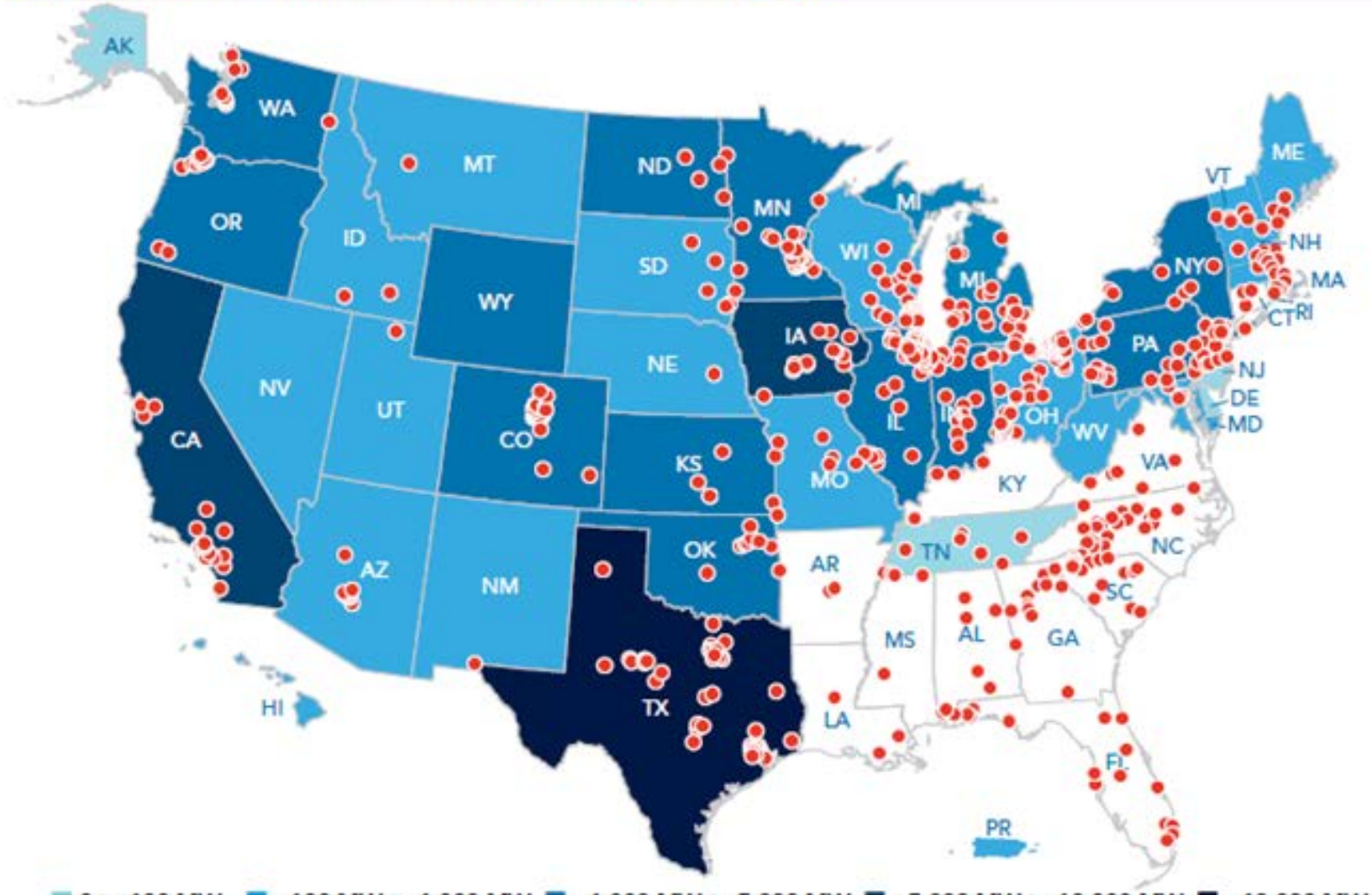
Active Wind-related Manufacturing Facilities at end of 2014



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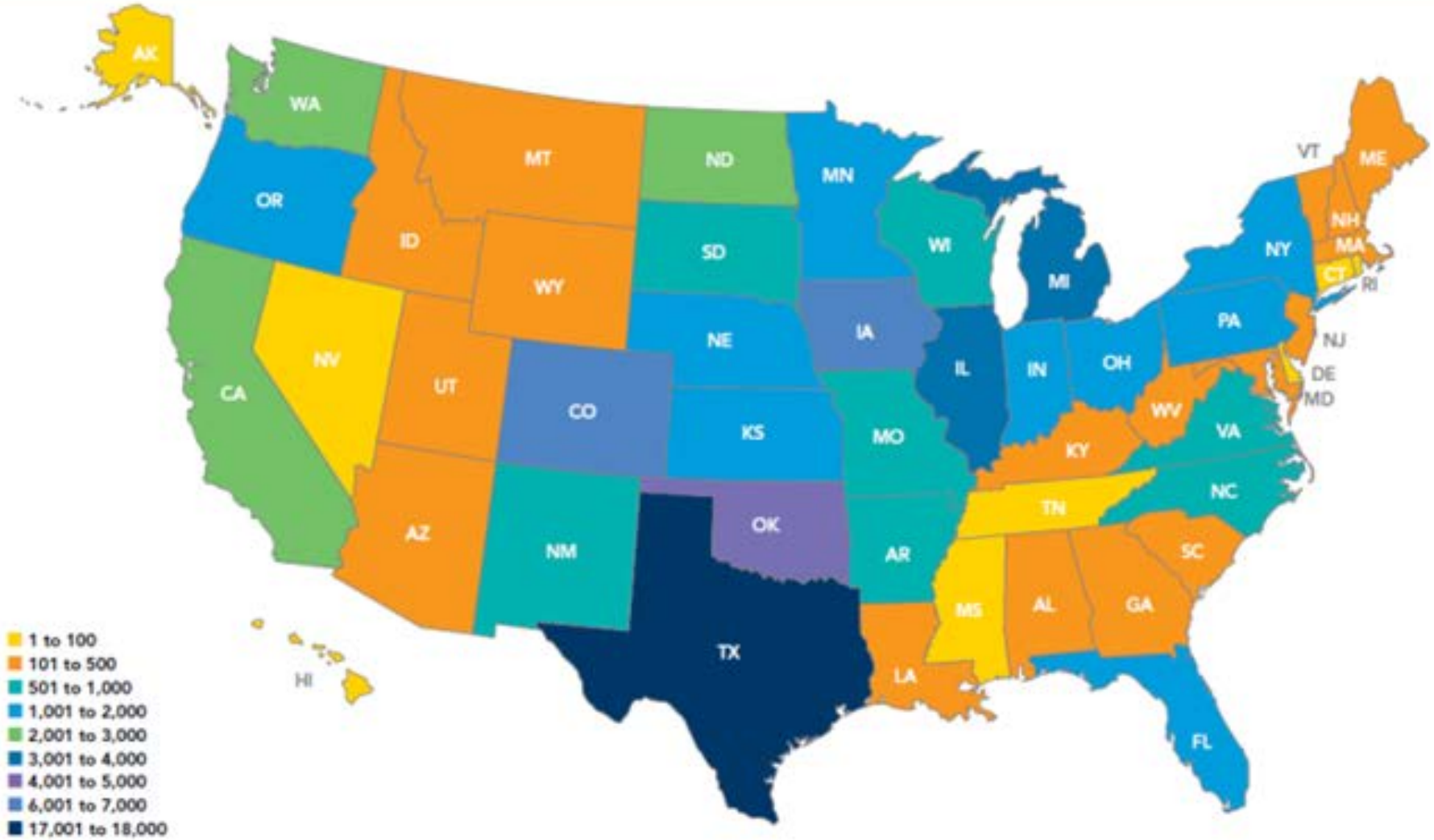
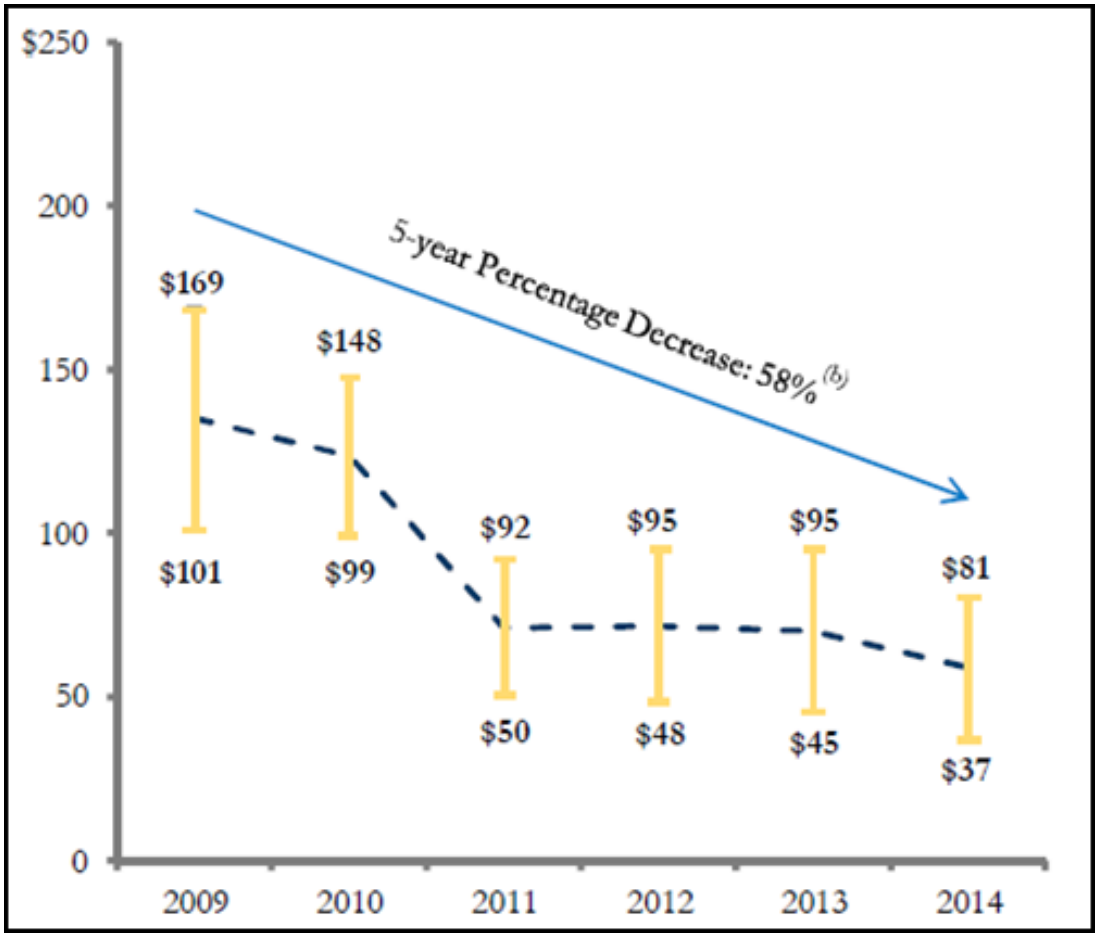
U.S. Wind Energy Industry Employment by State, Year End 2014



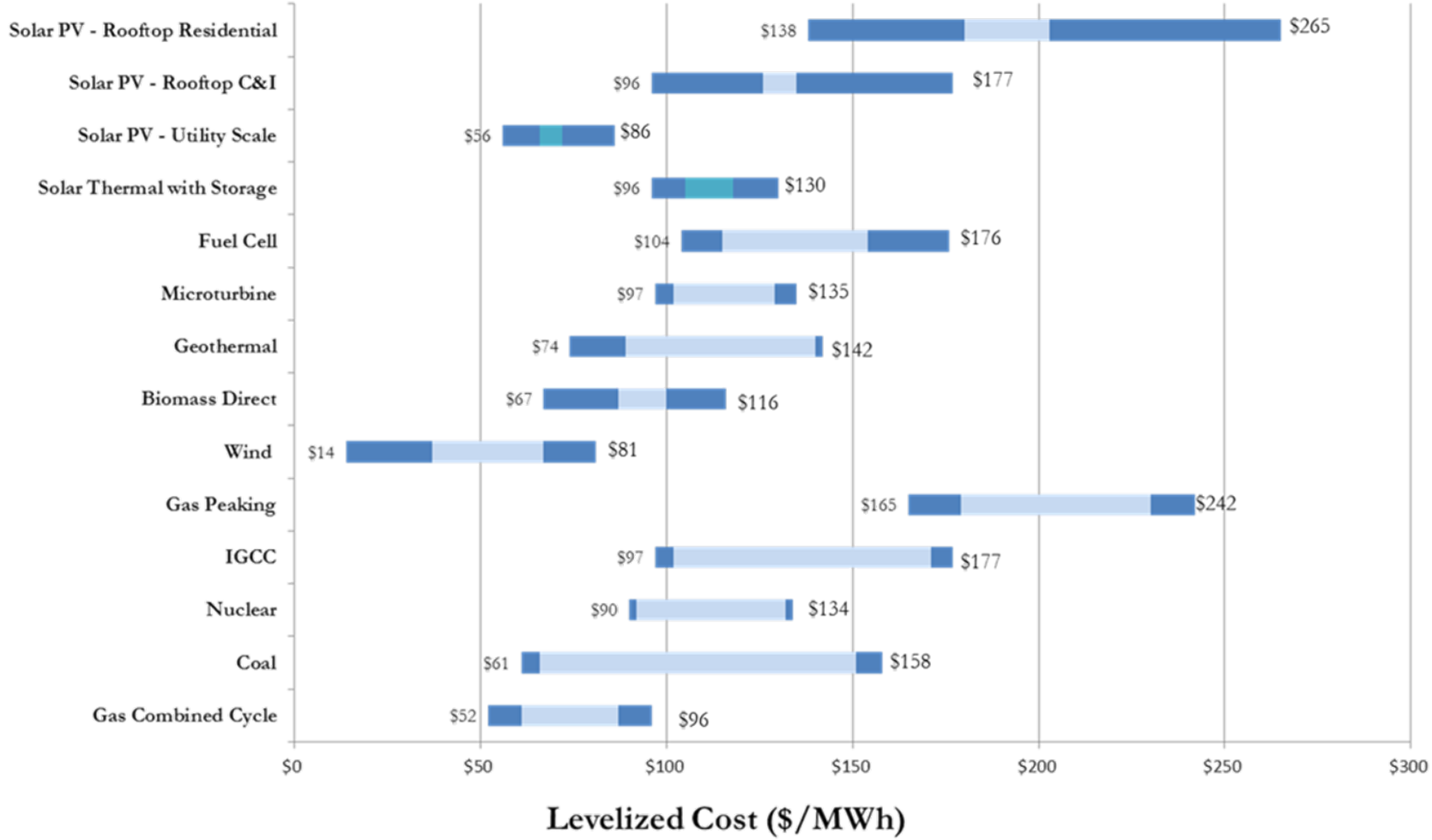
Wind energy cost declines over the last five years

Source: Lazard



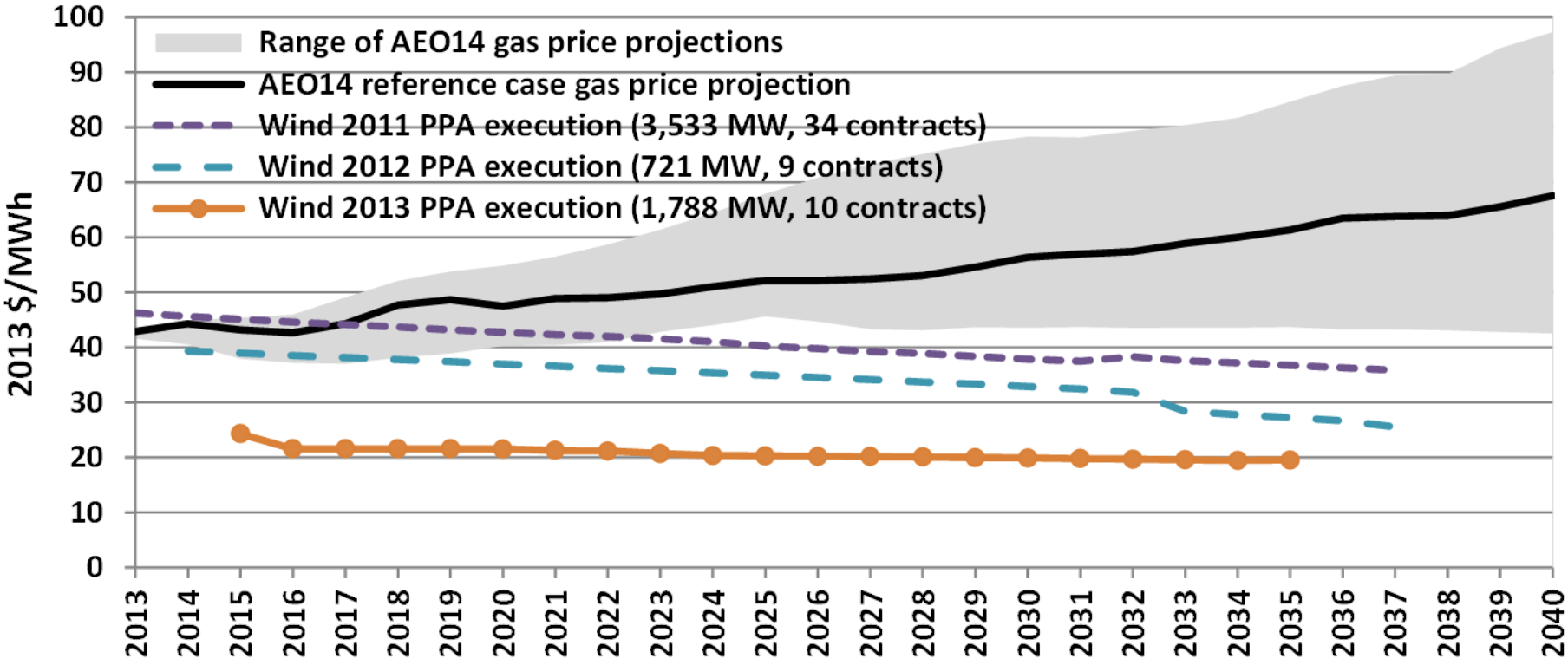
Comparative cost of technologies, fuel price risk

Source: Lazard

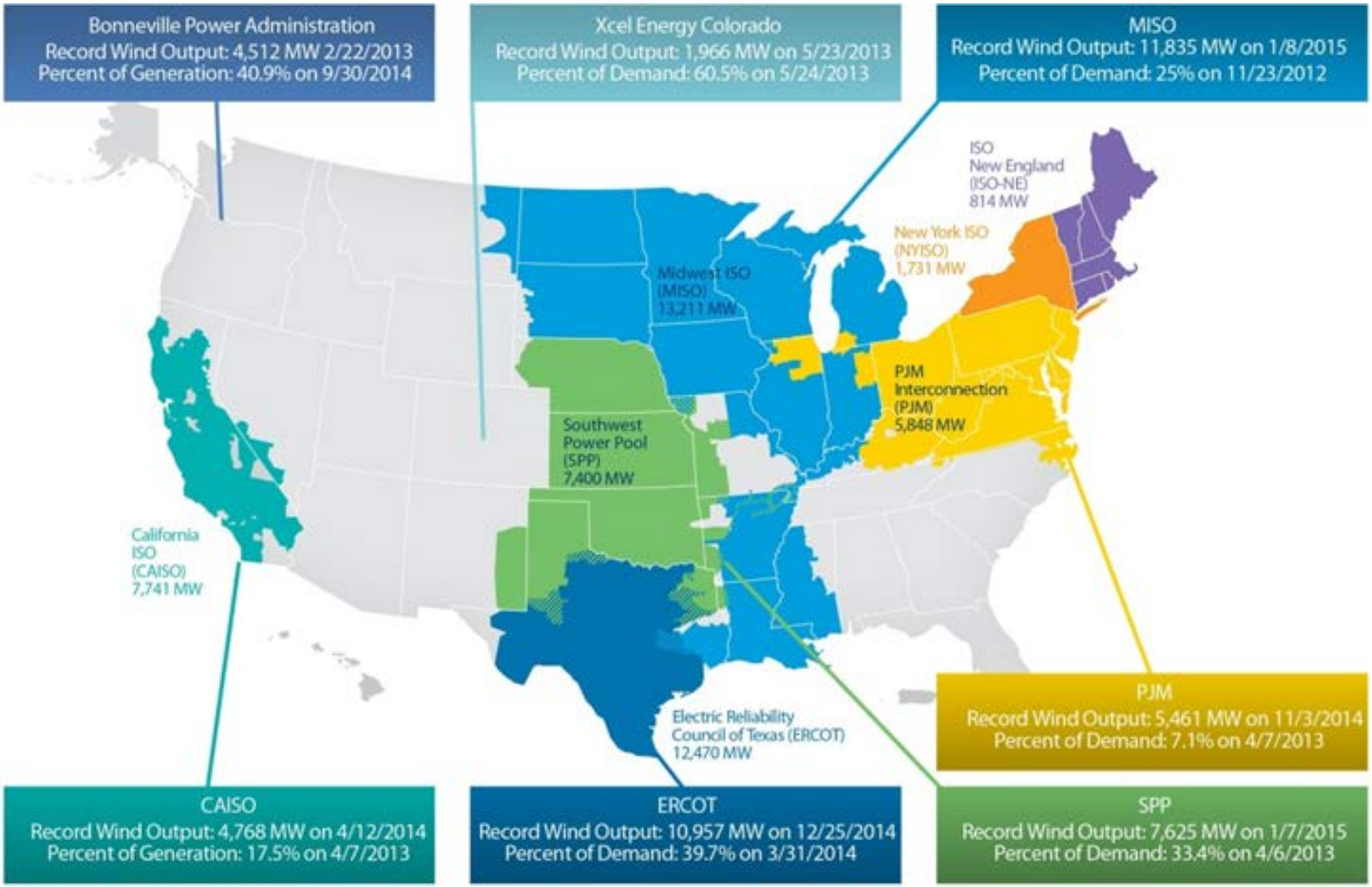


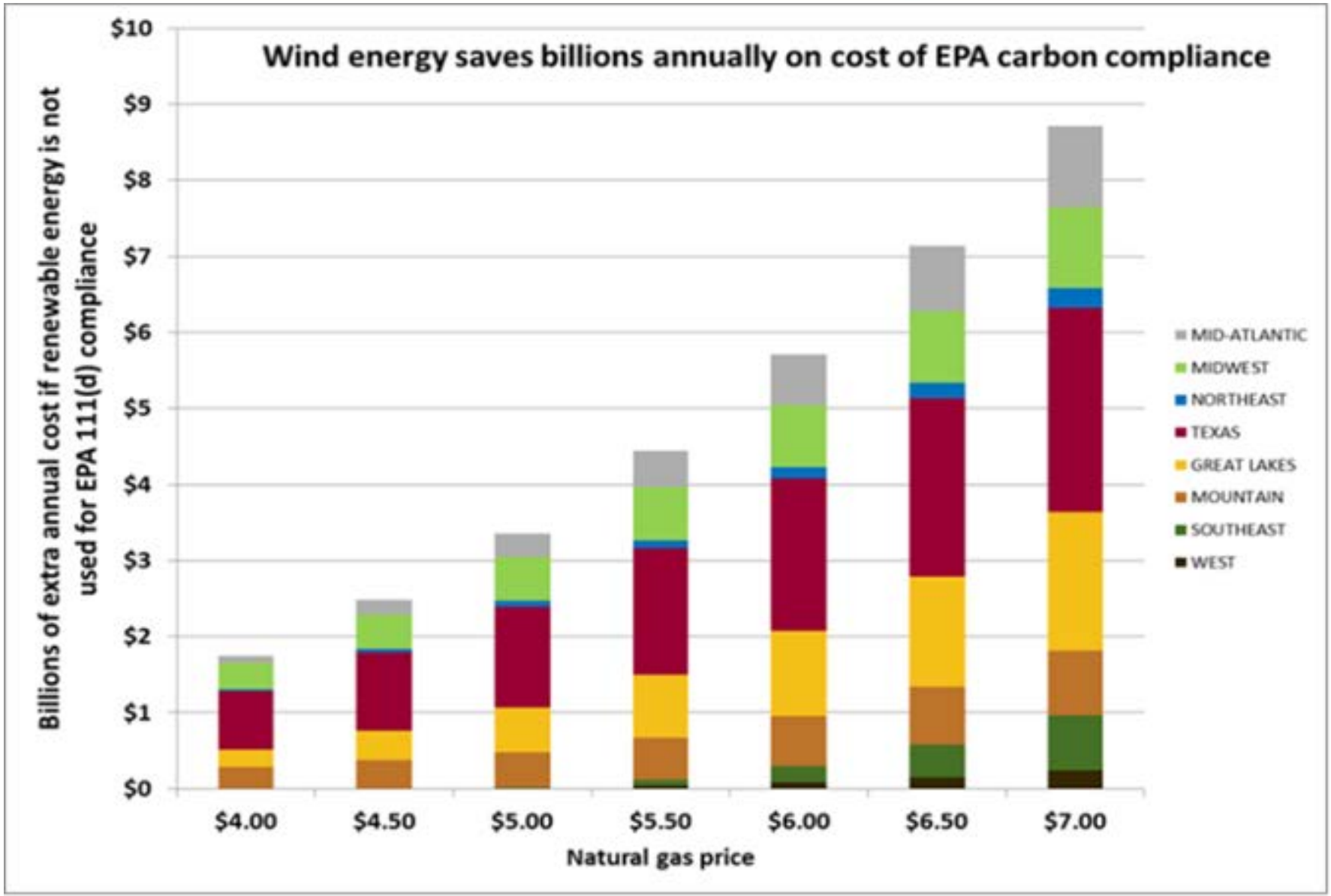
Wind as a long term hedge; wind prices w/ PTC are below the current & expected future cost of gas

Source: Lawrence Berkeley National Laboratory, Energy Information Administration



Record wind energy penetrations, by grid operator




Wind energy saves billions annually on cost of EPA carbon compliance
Billions of extra annual cost if renewable energy is not used for EPA 111(d) compliance
$10
$9
$8
$7
$6
$5
$4
$3
$2
$1
$0
$4.00
$4.50
$5.00
$5.50
$6.00
$6.50
$7.00
Natural gas price
MID-ATLANTIC
MIDWEST
NORTHEAST
TEXAS
GREAT LAKES
MOUNTAIN
SOUTHEAST
WEST