

# Wind Energy: A National and Missouri Perspective

Missouri Wind Energy Forum  
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Hans Detweiler  
American Wind Energy Association

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# Wind at Work

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1. Wind Energy Growth
2. Laws Matter
3. A Recipe For Wind In Missouri

## Wind Energy is High Growth

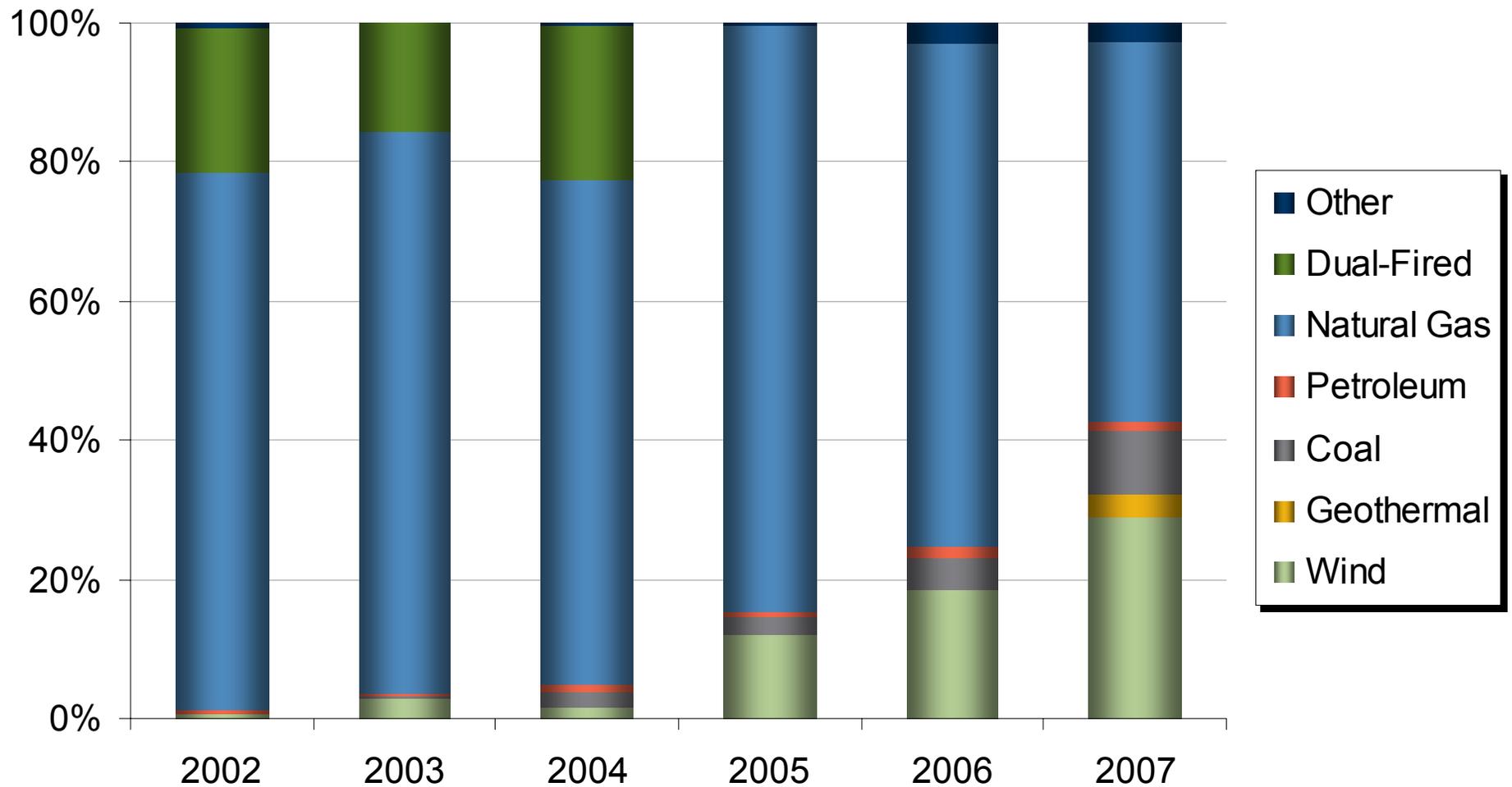
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- ◆ In 2007:
  - 5,244 MW added
  - Over 16 GW cumulative total
  - About \$10 billion in new investments
  - Enough power for over 1.5 million households
- ◆ 45% growth 2006 to 2007; over 18% annual growth over past 15 years.

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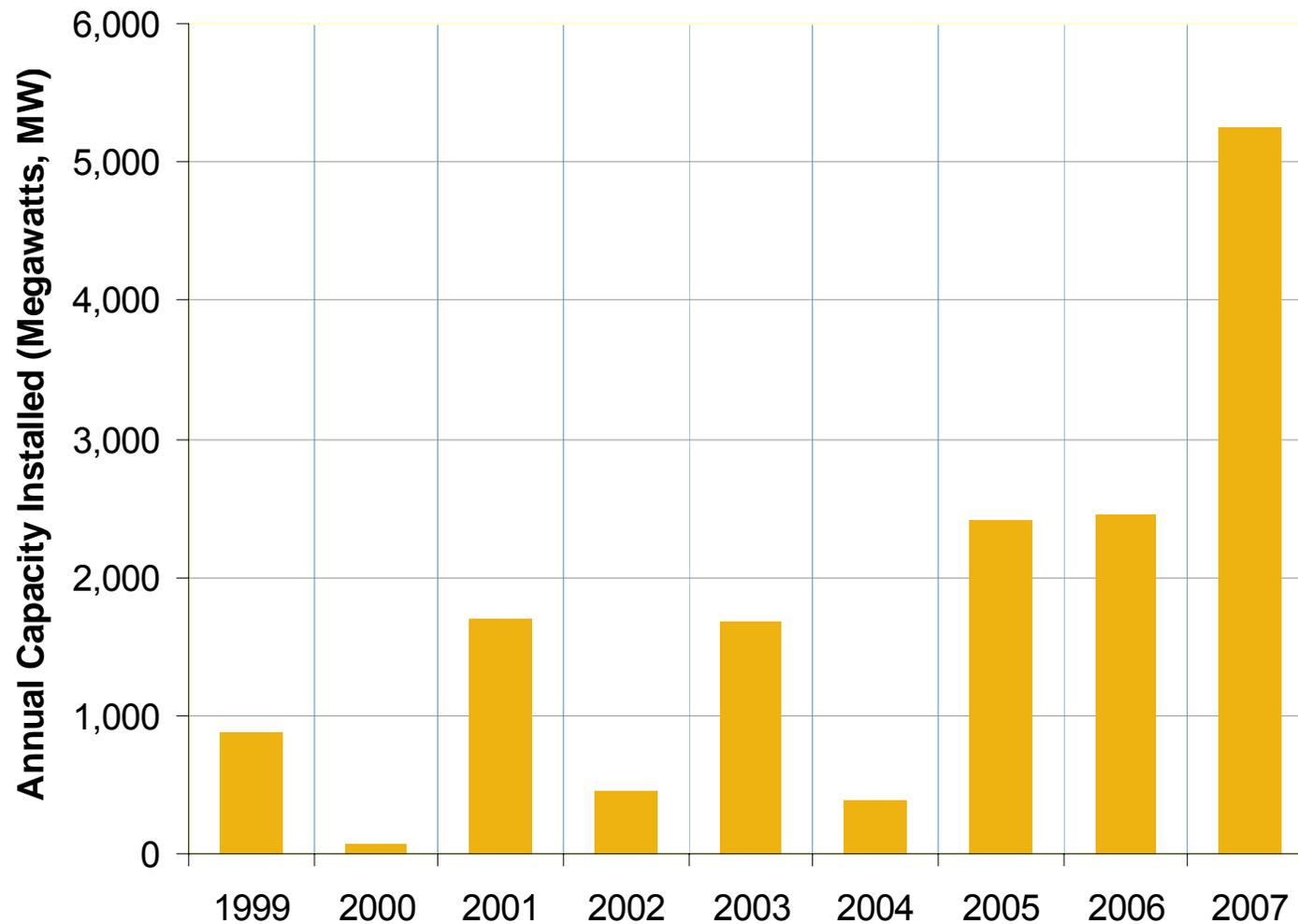
# New Capacity by Source



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## Annual Wind Capacity Installation

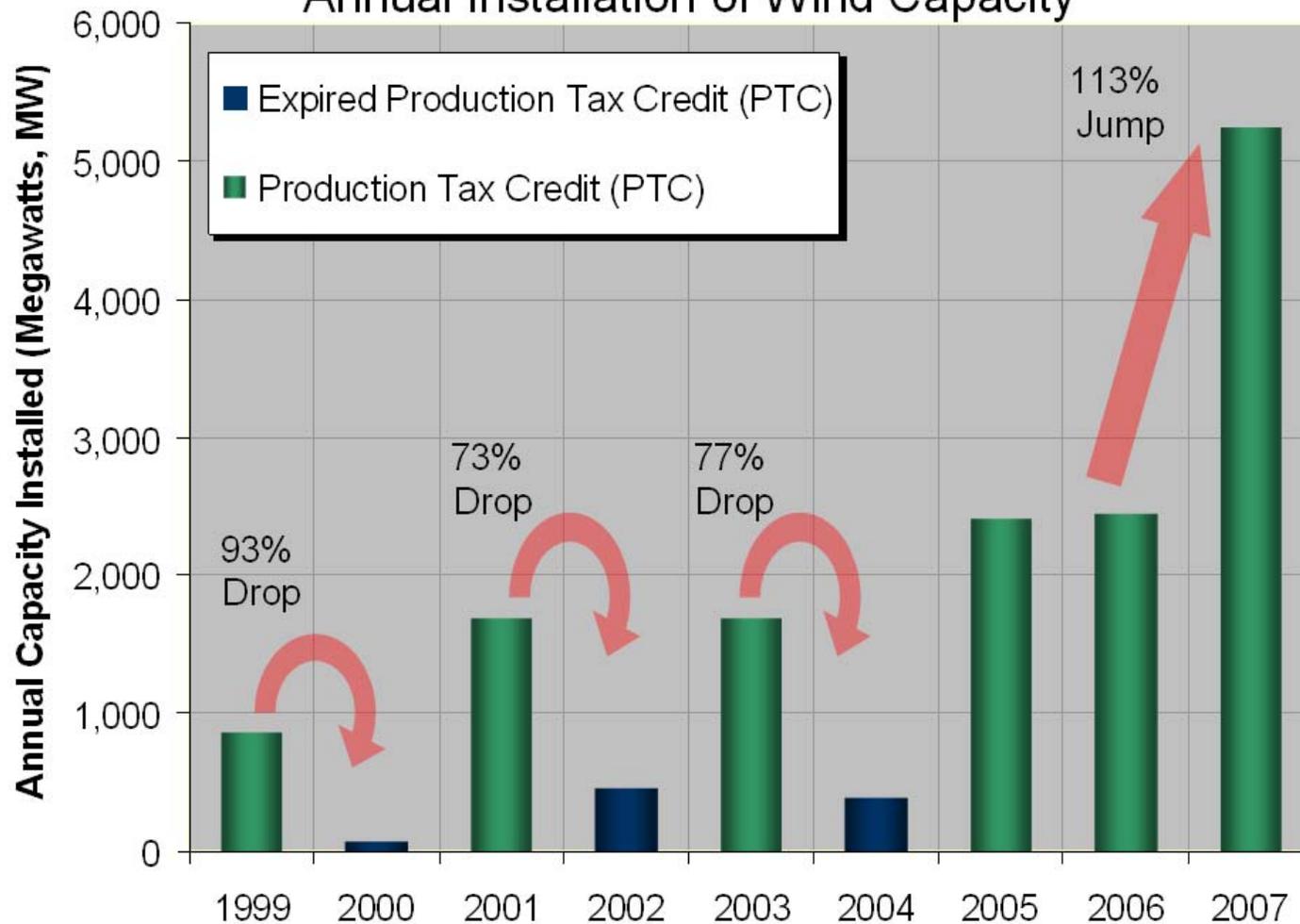


- U.S. is more than 25% of global market

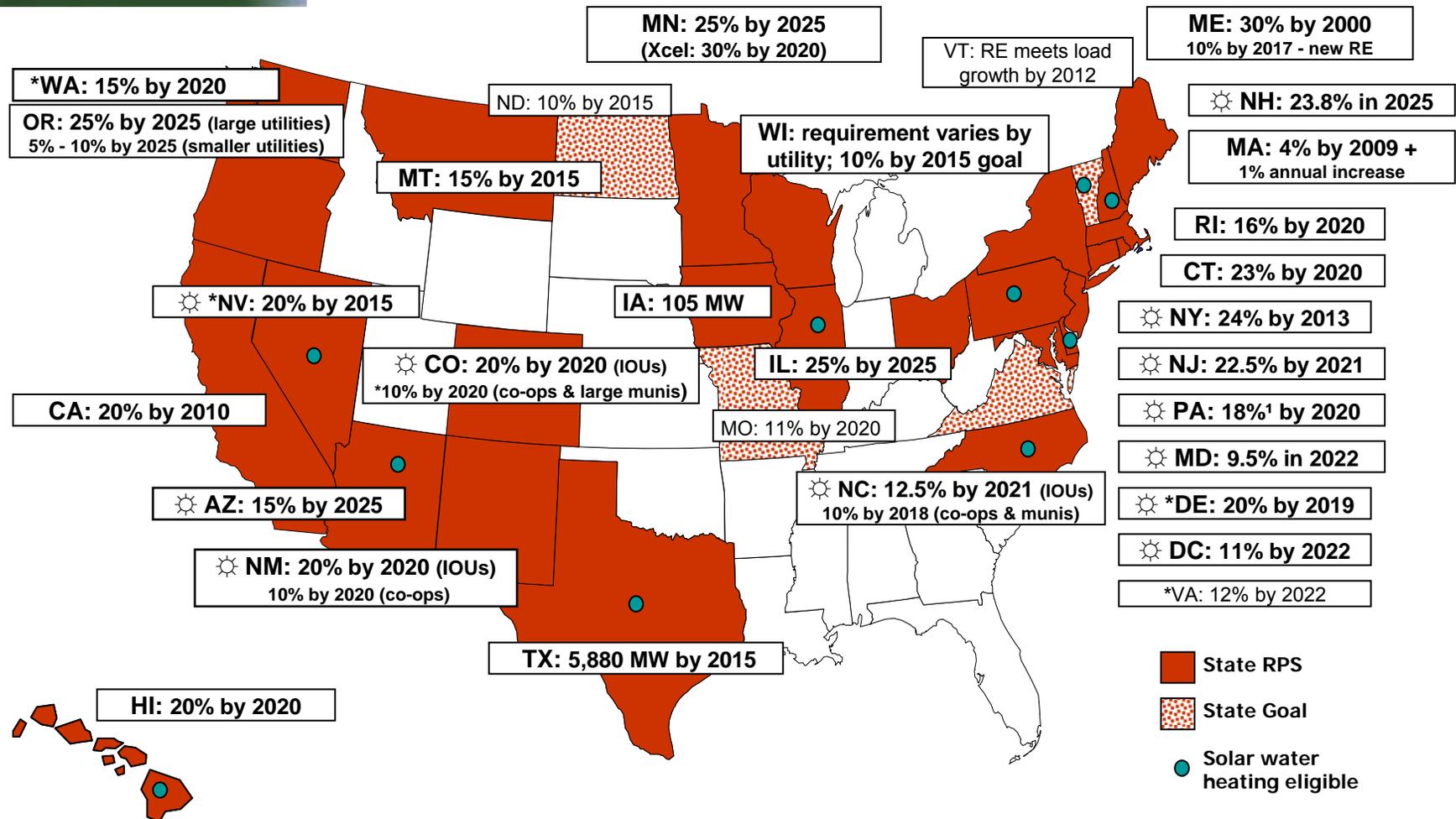
- Annual Installation in 2007: 20,000 MW

- U.S.: 5,200 MW
- Spain: 3,400 MW
- China: 3,400 MW
- India: 1,800 MW

Historic Impact of PTC Expiration on Annual Installation of Wind Capacity



# State RPS Requirements



RPS: Renewable Portfolio Standard, also known as Renewable Energy Standards

## Top 5 States for Wind, 2007

All five leading states for 2007 for new wind farms have robust RPS laws:

Top Five States in Terms of New Capacity in 2007	Capacity (MW)
Texas	1618
Colorado	776
Illinois	592
Oregon	447
Minnesota	405

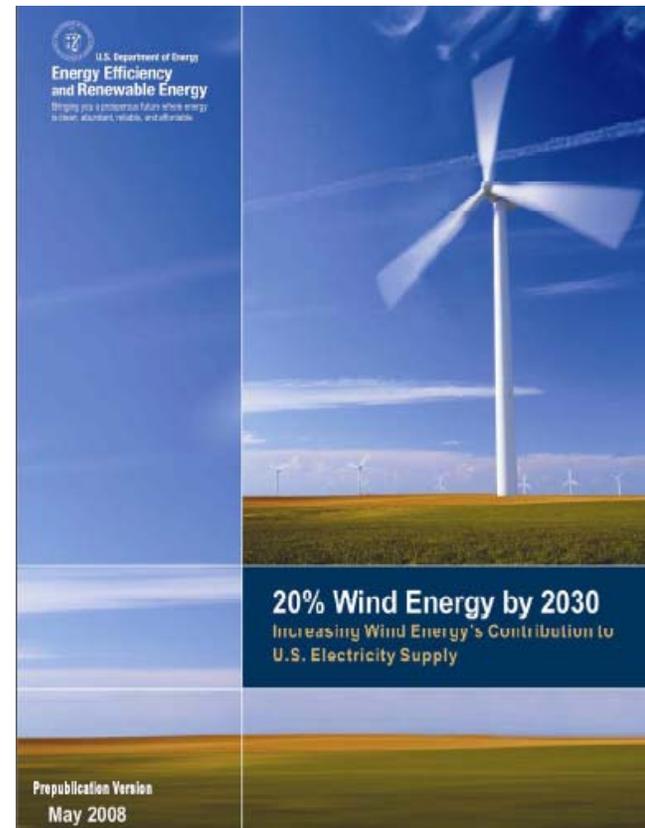
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# 20% Wind Energy by 2030

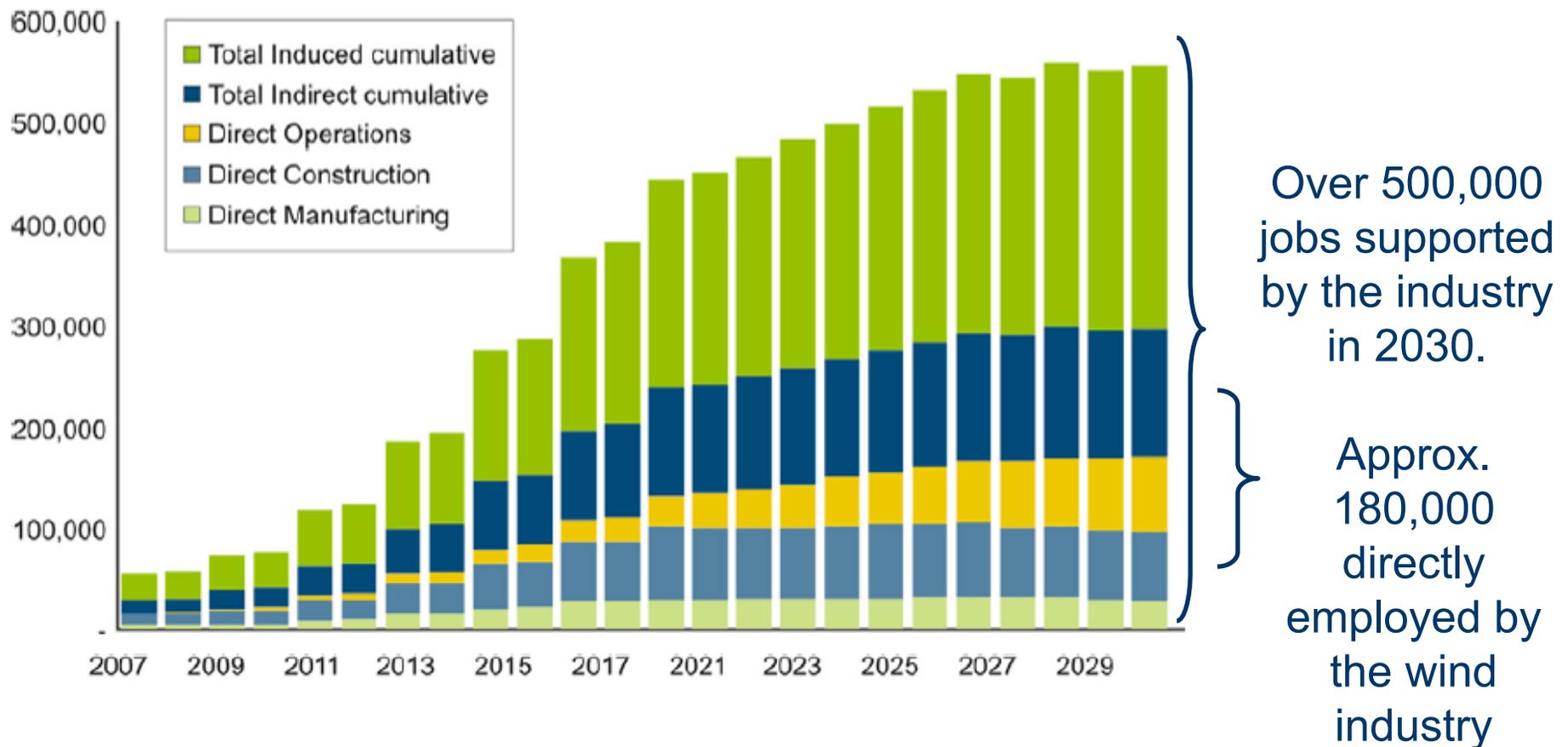
U.S. Department of Energy and AWEA report the solid technical and economic potential for the U.S. to get 20% of all electricity from wind.

[www.20percentwind.org](http://www.20percentwind.org)



## Employment Impacts

### Industry Employment from direct, indirect, and induced categories



### 5000 New Manufacturing Jobs announced 2007:

- ◆ Vestas (blades): Windsor, CO
- ◆ TPI Composites (blades): Newton, IA
- ◆ GE Energy (service): Schenectady, NY
- ◆ Hendricks Industries (towers): Keokuk, IA
- ◆ PPG Industries (fiberglass): Shelby, NC

Most major job announcements occur in states  
with RES laws

## Missouri and its Neighbors:

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### Where Does Missouri Stand Today (12/31/07):

- ◆ Missouri: 57 MW
- ◆ Illinois: 699 MW
- ◆ Iowa: 1273 MW
- ◆ Colorado: 1067 MW

### However, Missouri does have:

- ◆ A solid wind regime and electric load
- ◆ A highly skilled industrial workforce
- ◆ Great industrial infrastructure

## Missouri's Two-Part Recipe for Success:

1. Pass the Missouri Ballot Initiative: 15% by 2021
  - ◆ Endorsed by AWEA and others
  - ◆ Estimated to support ~4000 MW by 2021
  - ◆ 1% rate impact cap protects consumers
  - ◆ ~\$8 billion in total new investments
  - ◆ ~\$8-16 million annual landowner payments
2. Encourage Federal Officials to Support the PTC and a national Renewable Energy Standard

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Thank You

Hans Detweiler

Manager of State Legislation and Policy

American Wind Energy Association

773-878-4861

[hdetweiler@aweaa.org](mailto:hdetweiler@aweaa.org)