



**NARUC**

*Serving the consumer interest  
by seeking to improve the  
quality and effectiveness  
of public utility regulation  
in America.*

## ***Regulator's Role in Climate Change, the Environment and New Technologies***

Commissioner David Boyd

Minnesota Public Utilities Commission

**11<sup>th</sup> EU-US Energy Regulators Roundtable**

**May 13-14, 2014**

**Boston, MA, USA**



# U.S. Market Challenges

## ➤ Regulatory Regimes

- Federal (1)
- States, territories, protectorates, DC (about 65)
- Counties (3,143)
- Municipalities (about 30,000)

## ➤ Electric Utilities

- Federal (9)
- Electric Cooperatives (883)
- Public utilities (2,009)
- Investor-owned (210)



# State Incentives

- **Renewable Portfolio Standards (RPS)**
- **Tax policies**
- **Utility rates & revenue policies**
- **Interconnection standards**
- **Financial incentives**
- **3<sup>rd</sup> party ownership**
- **Energy efficiency standards**
- **Feed in tariffs (FITs)**

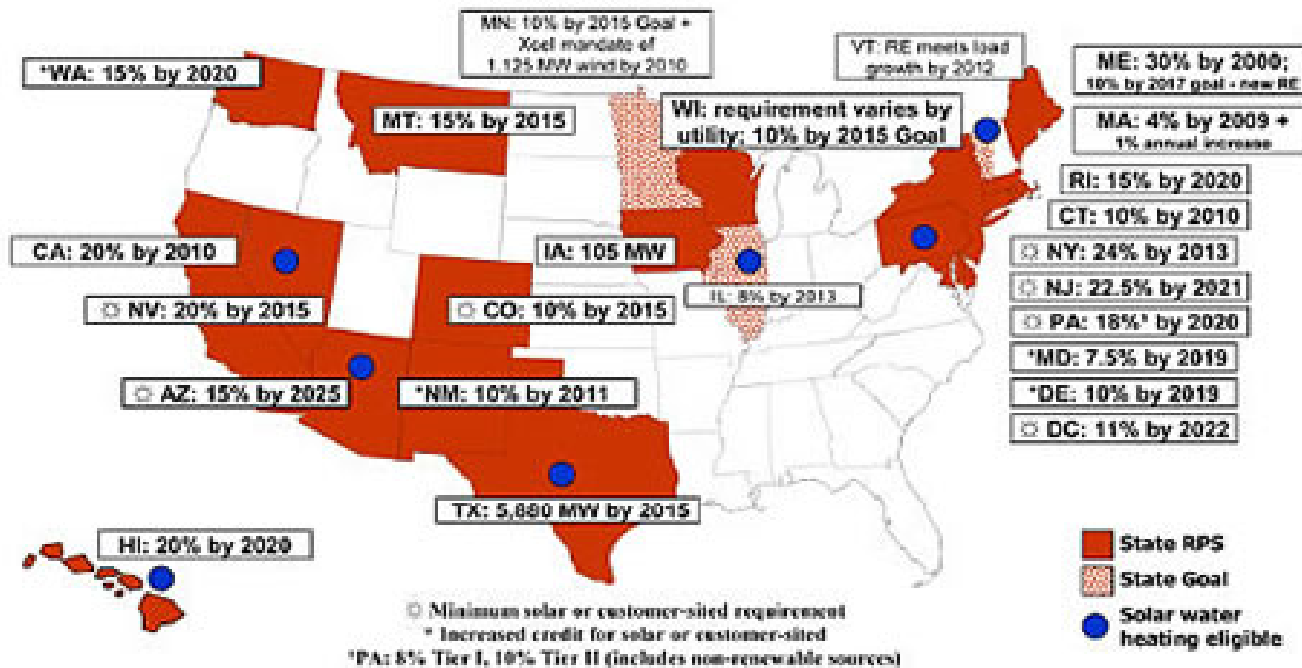


# State Initiatives

DSIRE: [www.dsireusa.org](http://www.dsireusa.org)

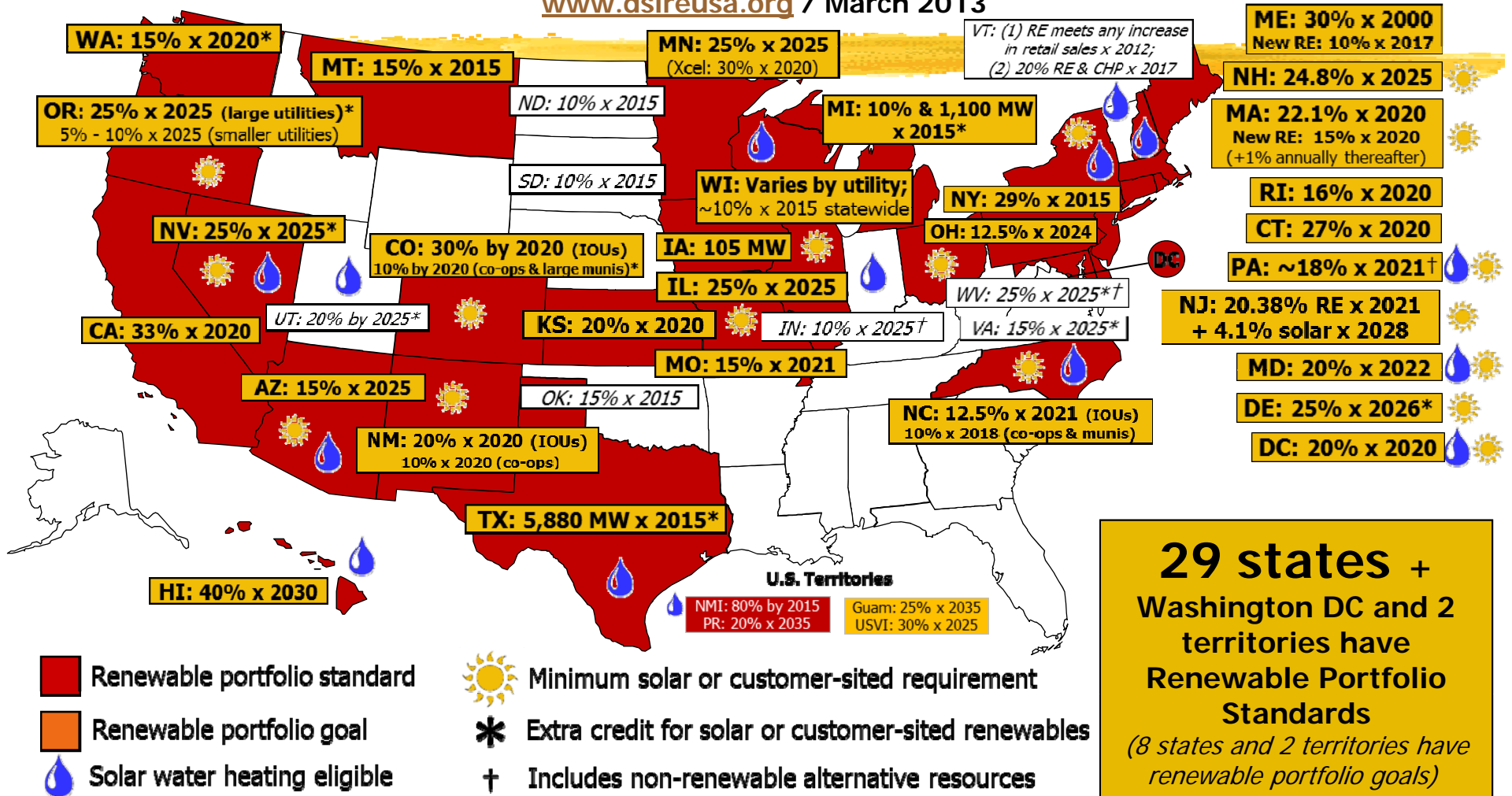
January 2007

## *Renewables Portfolio Standards*



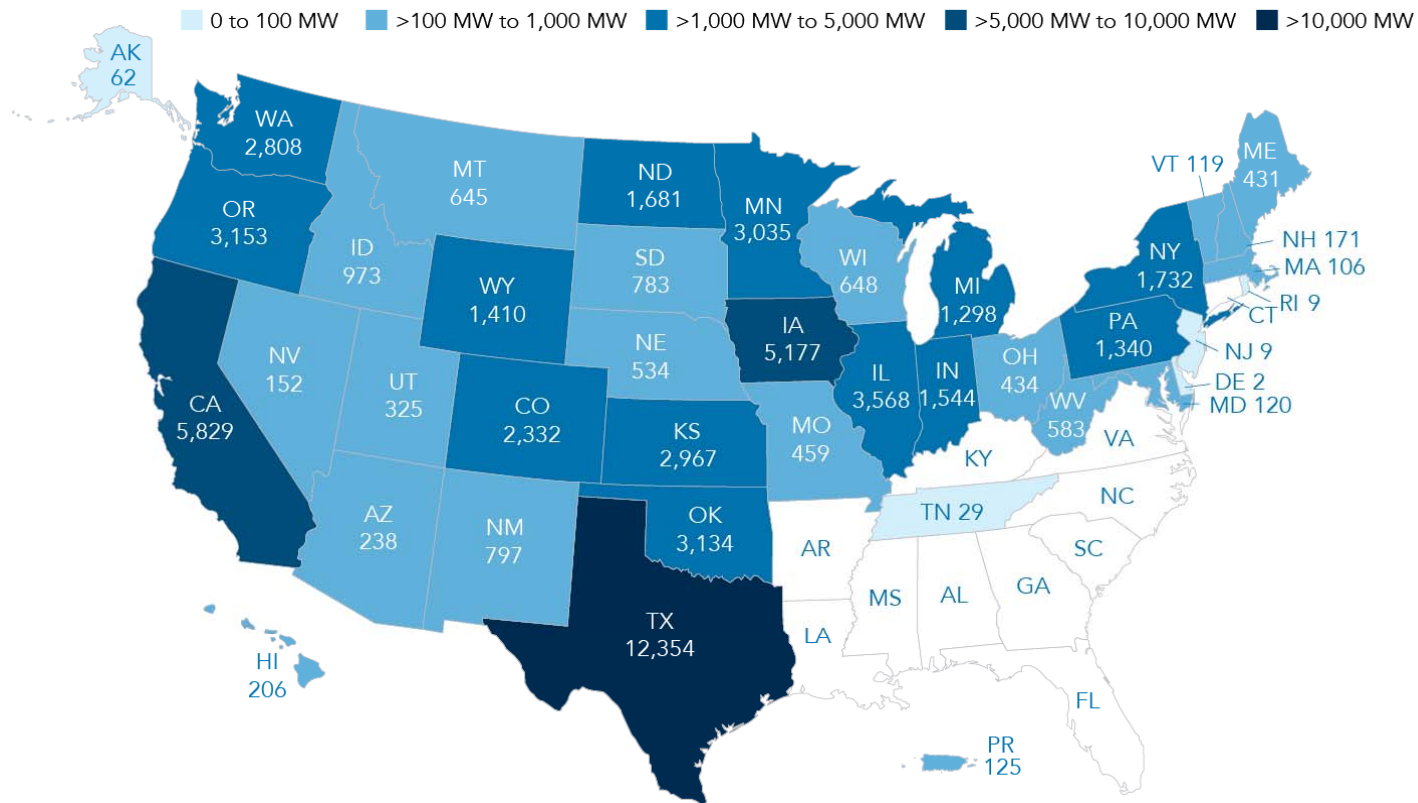
# Renewable Portfolio Standard Policies

[www.dsireusa.org](http://www.dsireusa.org) / March 2013



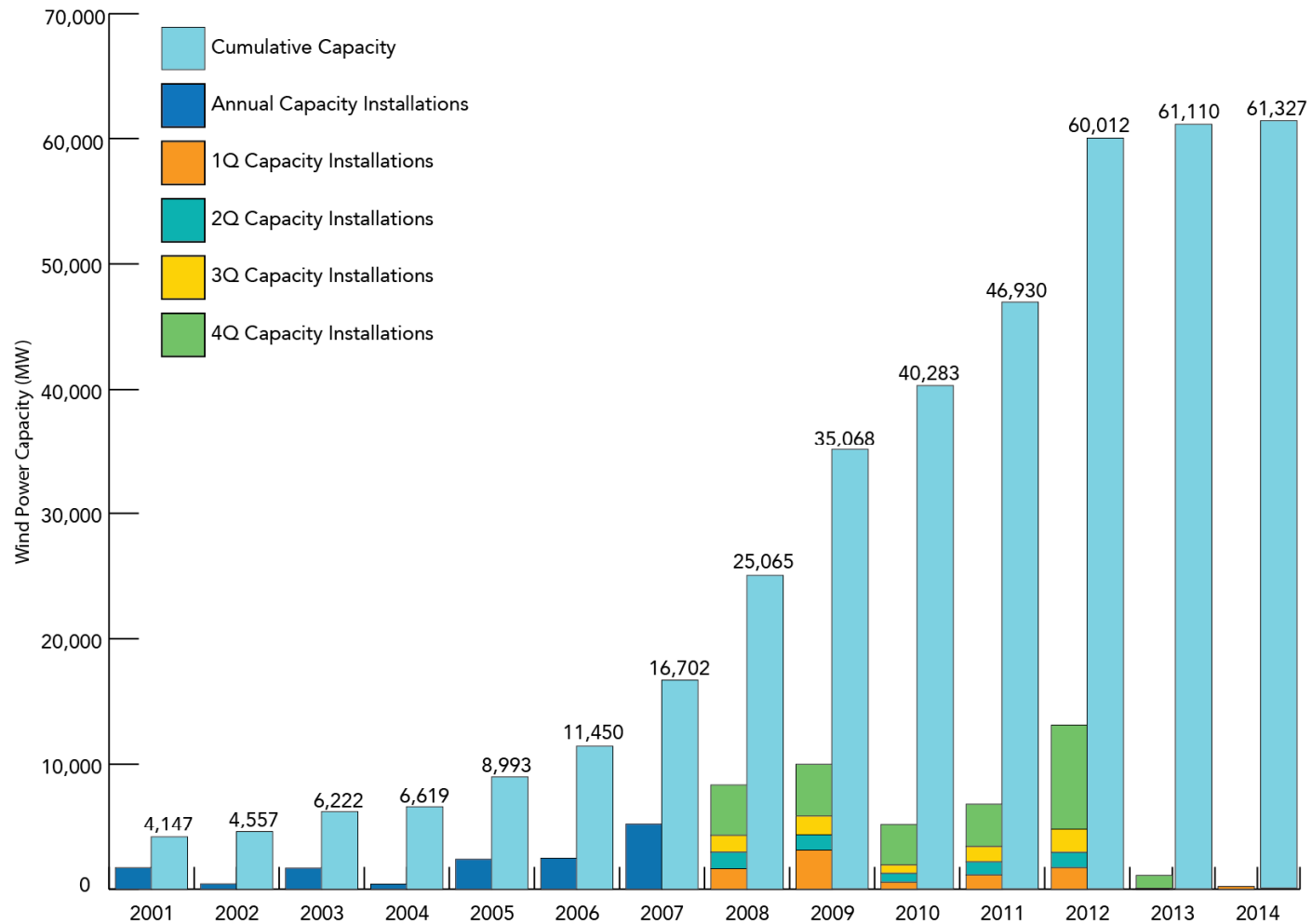


# Installed Wind Capacity





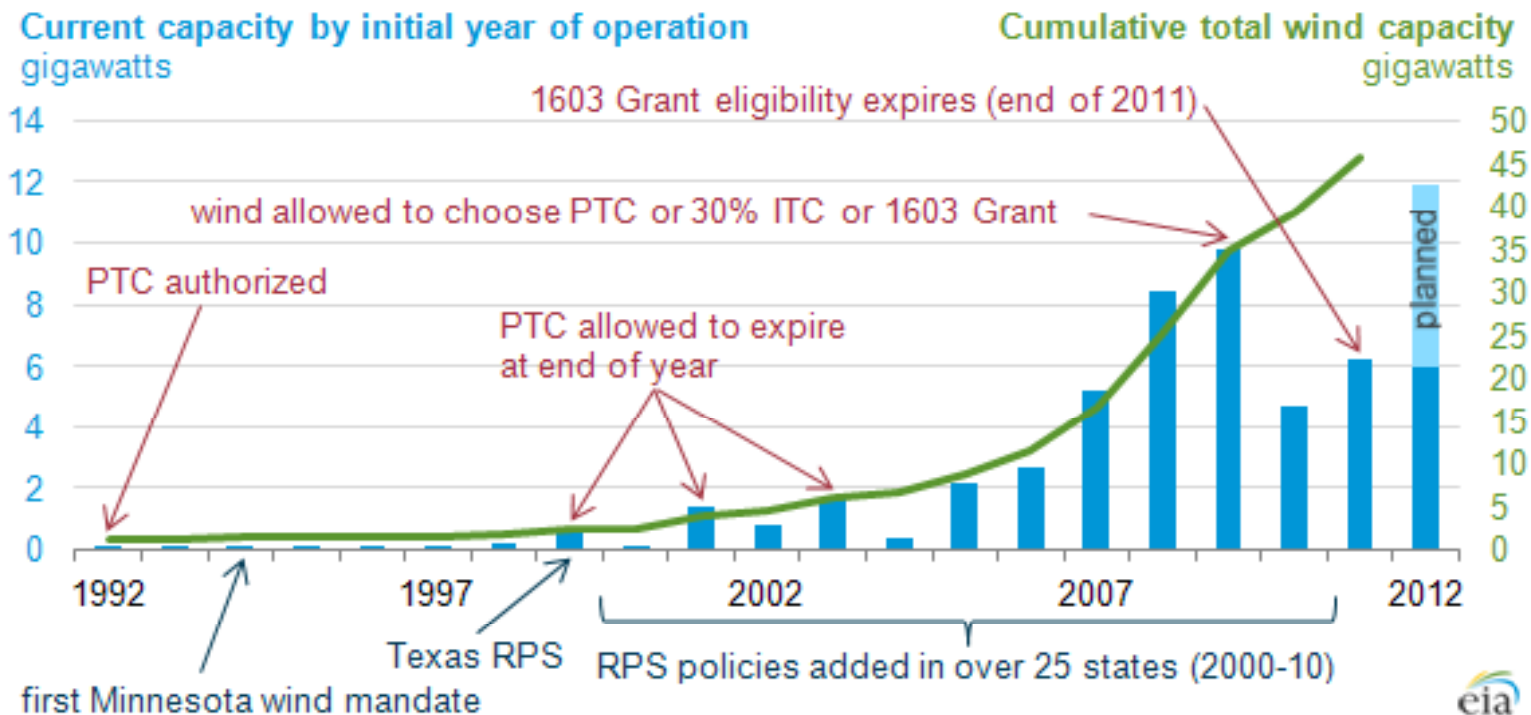
# Installed Capacity



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# Wind Energy Tax Credit







# Minnesota Initiatives

- **2007 Next Generation Energy Act**
- **2013 omnibus energy bill affirms commitment to a future free of carbon-based fuels**
- **RPS & distributed generation**
  - **1.5% Solar PV by 2020 for IOUs**
  - **Net metering limit raised**
  - **Value of solar tariff (VOST)**
  - **Solar gardens**
- **State cost of carbon value**



# State Regualtor Roles

- **Individual state initiatives are increasingly important in shaping national energy policy**
- **Capture local opportunities**
- **Accommodate local concerns**



# Thank you

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