



# OKLAHOMA'S ENERGY FUTURE

Securing Demand and Effectively Marketing our  
Domestic Natural Resources

Robert Wegener

Oklahoma Secretary of Energy

January 20, 2010



- energy states such as Oklahoma, Texas and Louisiana “**enjoyed much faster job growth prior to the recession, entered the recession much later and have posted better overall job growth in the current cycle.** These states have also dominated the state job growth rankings since the start of the recession.”

*Dr. Mark Snead, former Oklahoma State University economist, now with the Federal Reserve*



# Thoughts from energy leaders...

***“We need more from **all sources of domestic energy** to get America’s **economy on track** and growing again and to increase our energy security... Thus, **we need a multi-pronged approach that along with current sources includes renewable energy and increased energy efficiency.**”***

-J. Larry Nichols

Chairman, American Petroleum Institute and

Chairman and CEO Devon Energy Corporation

September 10, 2009 Testimony before Senate Finance Committee

***“Renewable energy and clean burning natural gas are the basis of a new strategy the world needs to create a cleaner and more secure future.”***

- T. Boone Pickens and Ted Turner

CEO of BP Capital and Chairman of Turner Enterprises Inc.

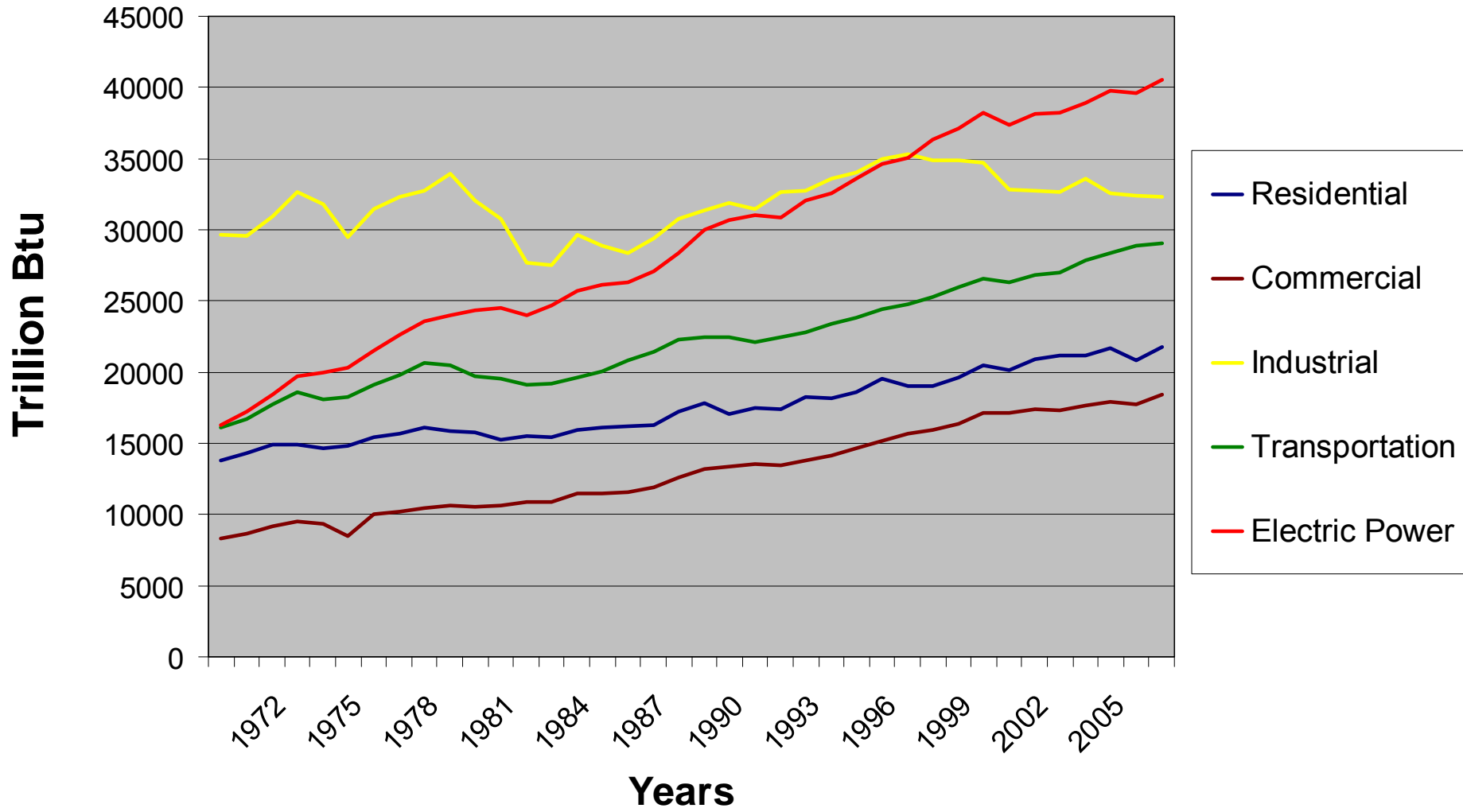
August 16, 2009



**If we want to protect the safety and economic security of our citizens, no city, no state, no nation will ever arrive at an alternative energy future without relying on domestic oil and natural gas.**



# Energy Consumption by End Use Sector



Source: Energy Information Administration:  
2008 Annual Energy Review

# Securing Demand for our Natural Resources

## OK Power Supply No-brainers

- Natural Gas – the foundation; the baseload
- Wind
- Geothermal
- Demand-side Management/Efficiency

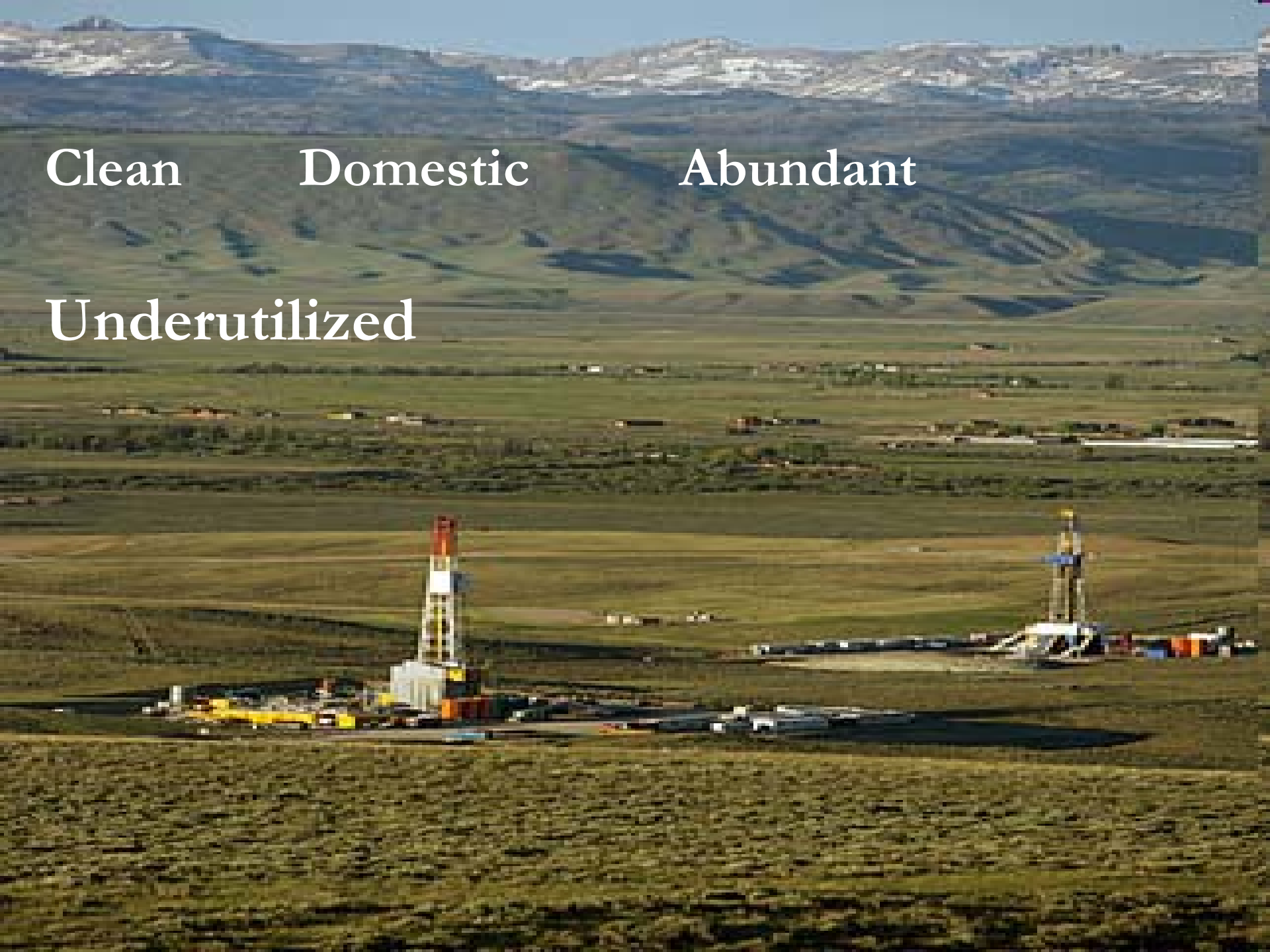
What about coal and nuclear???

Clean

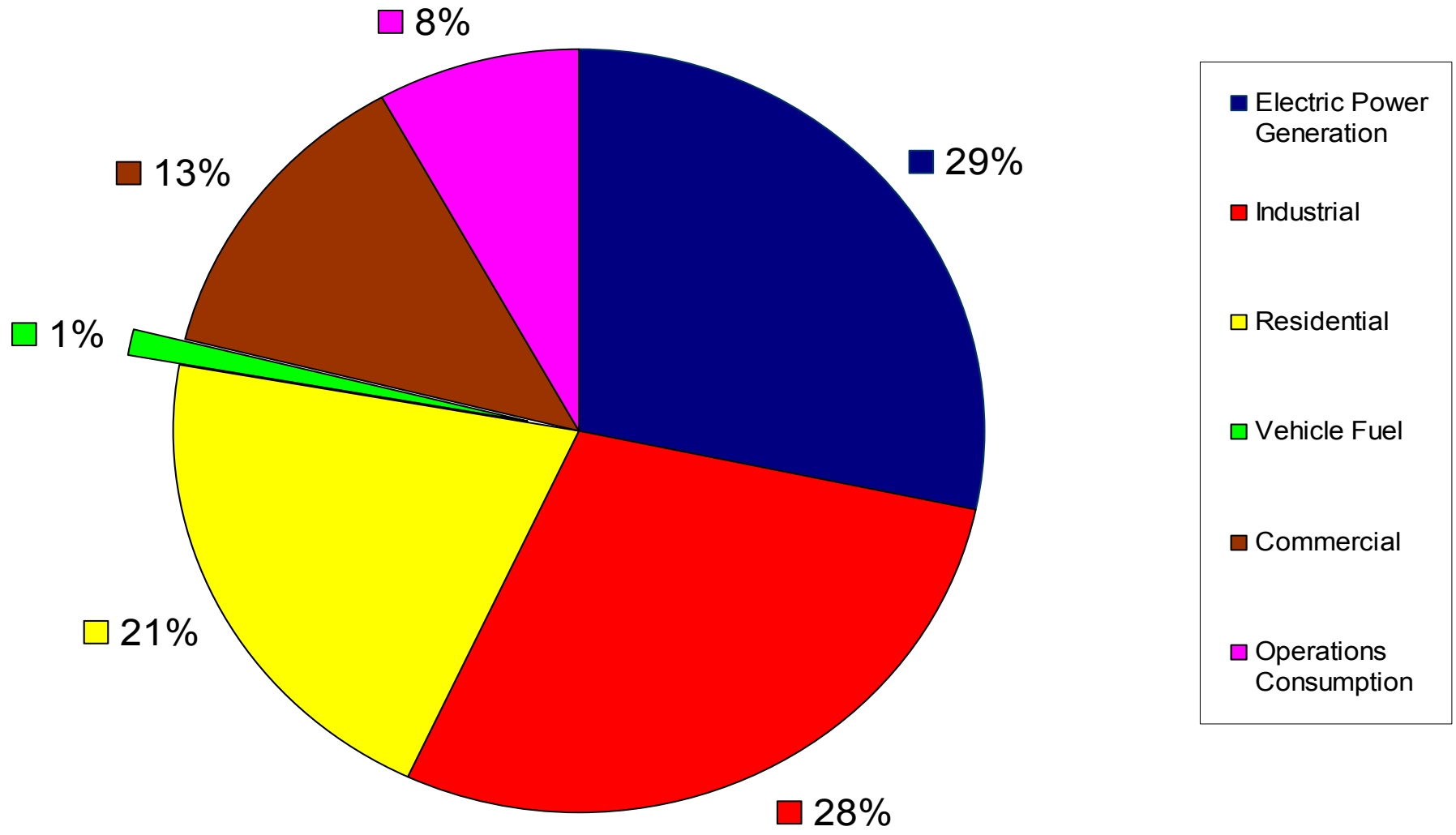
Domestic

Abundant

Underutilized



# U.S. End Uses of Natural Gas



Source: EIA



# Why Natural Gas?

- Abundant domestic supply supports increased utilization
- Cleanest Fossil Fuel Generation– 50% less CO<sub>2</sub> than coal
- **Addresses scalability issue: Only available backup for renewable generation**
- Challenges
  - Price Volatility Requires Hedges
  - Policy challenges in DC



42% of all new generation capacity



# Policy Support for Wind

- Public Policy has been a strong driver for wind development
- PTC extended through 2012
- Zero Water Use
- Primary driver - Renewable Portfolio Standard (RPS)
  - Mandate requiring utilities purchase a minimum level of electricity from renewable sources
  - Majority of states have adopted
  - KS is newest addition to the family
    - Lead to locating of Siemens manufacturing plant

# Oklahoma – Economic Impacts

from 1000 MW of new wind development

*Wind energy's economic "ripple effect"*

## Direct Impacts

### Payments to Landowners:

- \$2.7 Million/yr

### Local Property Tax Revenue:

- \$6.4 Million/yr

### Construction Phase:

- 1,800 new jobs
- \$189 M to local economies

### Operational Phase:

- 250 new long-term jobs
- \$21 M/yr to local economies

## Indirect & Induced Impacts

### Construction Phase:

- 1,650 new jobs
- \$141 M to local economies

### Operational Phase:

- 250 local jobs
- \$20 M/yr to local economies

## Totals

(construction + 20yrs)

**Total economic benefit = \$1.16 billion**

**New local jobs during construction = 3,500**

**New local long-term jobs = 500**

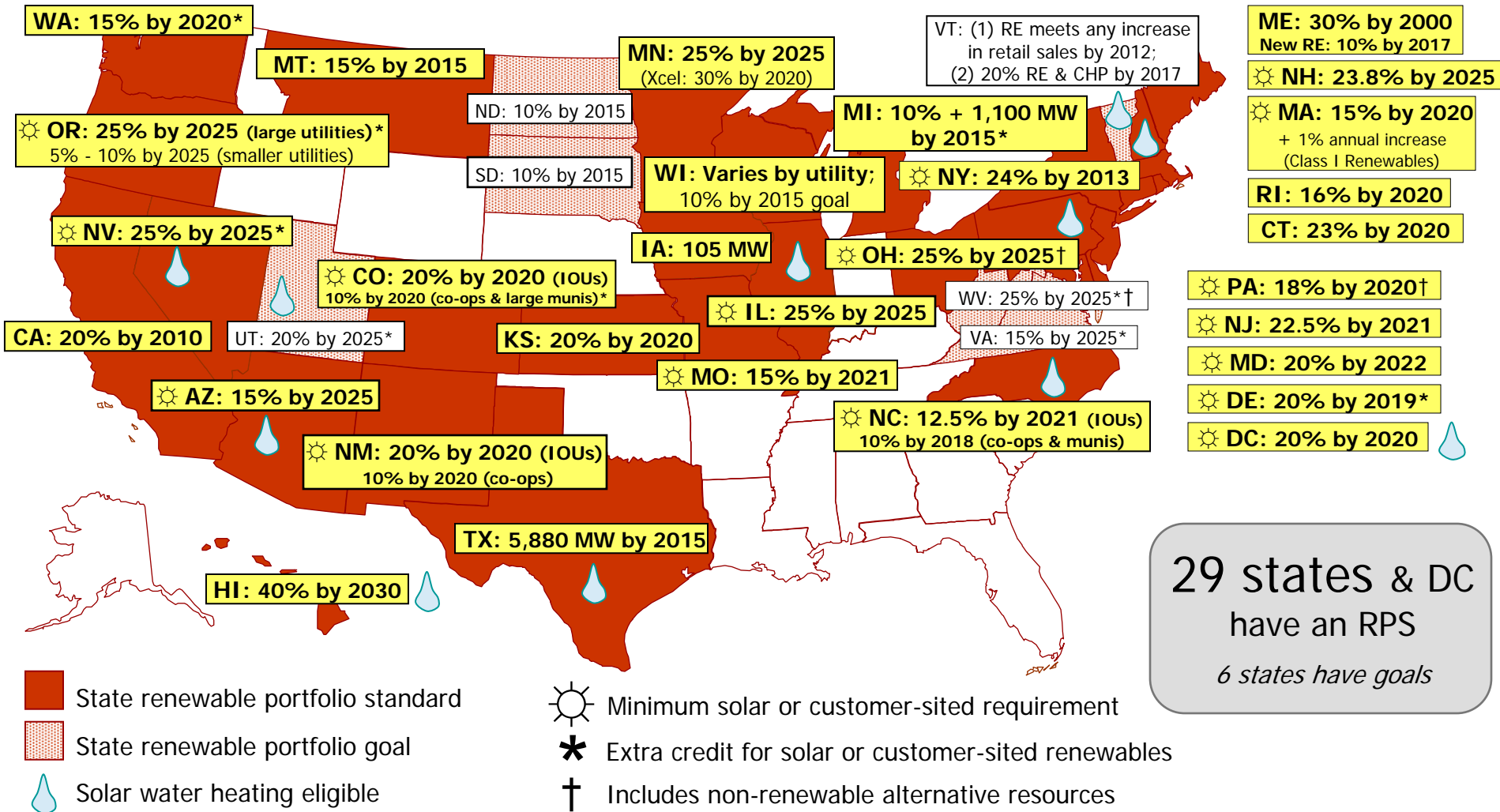


All jobs rounded to the nearest 50 jobs; All values greater than \$10 million are rounded to the nearest million

Construction Phase = 1-2 years  
Operational Phase = 20+ years

# Renewable Portfolio Standards

[www.dsireusa.org](http://www.dsireusa.org) / September 2009



29 states & DC have an RPS  
 6 states have goals



# What should Oklahoma do??

- Consider RPS and Clean Energy Standards
- Look to Texas for an example
  - Adopted a “natural gas goal” AND a RPS in 1999.
    - 50 percent of new generation from natural gas
    - 10,000 MW of wind by 2015

Supply alone is not a sustainable solution to increased electric sector demand



# Why DSM and Efficiency?

- Hedge to natgas price volatility
- Cost of additional supply
  - 1000 mw nuclear: \$6 - 8 billion
  - 1000 mw coal: \$2.5 billion...and rising
  - Renewables are important, but they are intermittent

Policy must address the utility disincentive



Diversity is critical, but we must keep  
the foundation strong





# What's happening in DC?

- IDC and Percentage Depletion
- EPA endangerment decision
- Hydraulic Fracturing Debate re-ignited
  - NY Times Editorial
  - September 2009 EPA Report
- Natgas Act
  - Important provisions need to be protected
  - Stand-alone legislation needs a home



# Helping DC

- Natgas Act
  - Preserve transferable tax credits – draw parallels to the wind industry
  - Support inclusion in new jobs legislation
- Hydraulic Fracturing
  - Empathize with groups concerned about water quality
  - Emphasize importance of state regulators and their increasing involvement
  - Consider disclosing fluid mixture to state regulators



# How should we promote natgas?

- Address the misconception that natural gas is scarce
- Agree that carbon emissions need to be reduced
- Encourage alternative energy development
- Embrace energy efficiency and demand programs
- Address scale issue without criticizing alternatives
  - Focus message on utilizing gas as baseload
  - Criticism jeopardizes public perception

# Summary

- Develop a multi-pronged approach with a natural gas foundation
- Embrace renewables and efficiency as hedges to price volatility and significant statewide economic development potential
- Address scale issues without criticizing alternatives
  - Focus message on utilizing gas as baseload
  - Criticism jeopardizes public perception
- Efficiency and Demand-management must be considered with traditional supply-side options

# Natural Gas Wins the Policy War and Rigs Stay Active...

