



American Council for an Energy-Efficient Economy

State Renewable Portfolio Standards and Energy Efficiency Resource Standards

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American Council for an Energy-Efficient
Economy

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The American Council for an Energy-Efficient Economy (ACEEE)

Nonprofit 501(c)(3) dedicated to advancing energy efficiency through research, communications, and conferences.

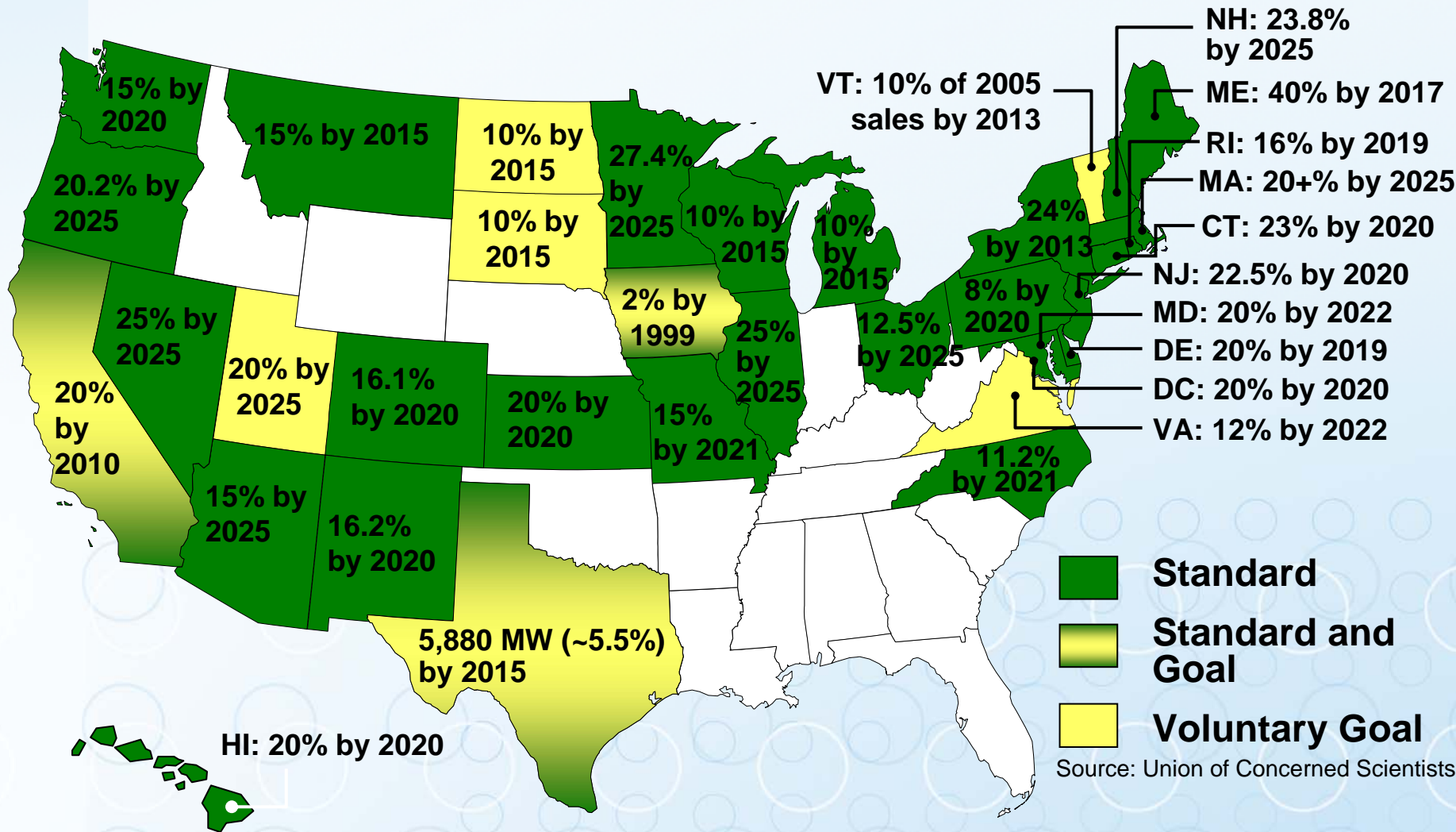
~35 staff in Washington DC, + field offices in DE, IL, MI, and WI.

Focus on End-Use Efficiency in Industry, Buildings, Utilities, and Transportation; Economic Analysis & Human Behavior; and State & National Policy

Funding:

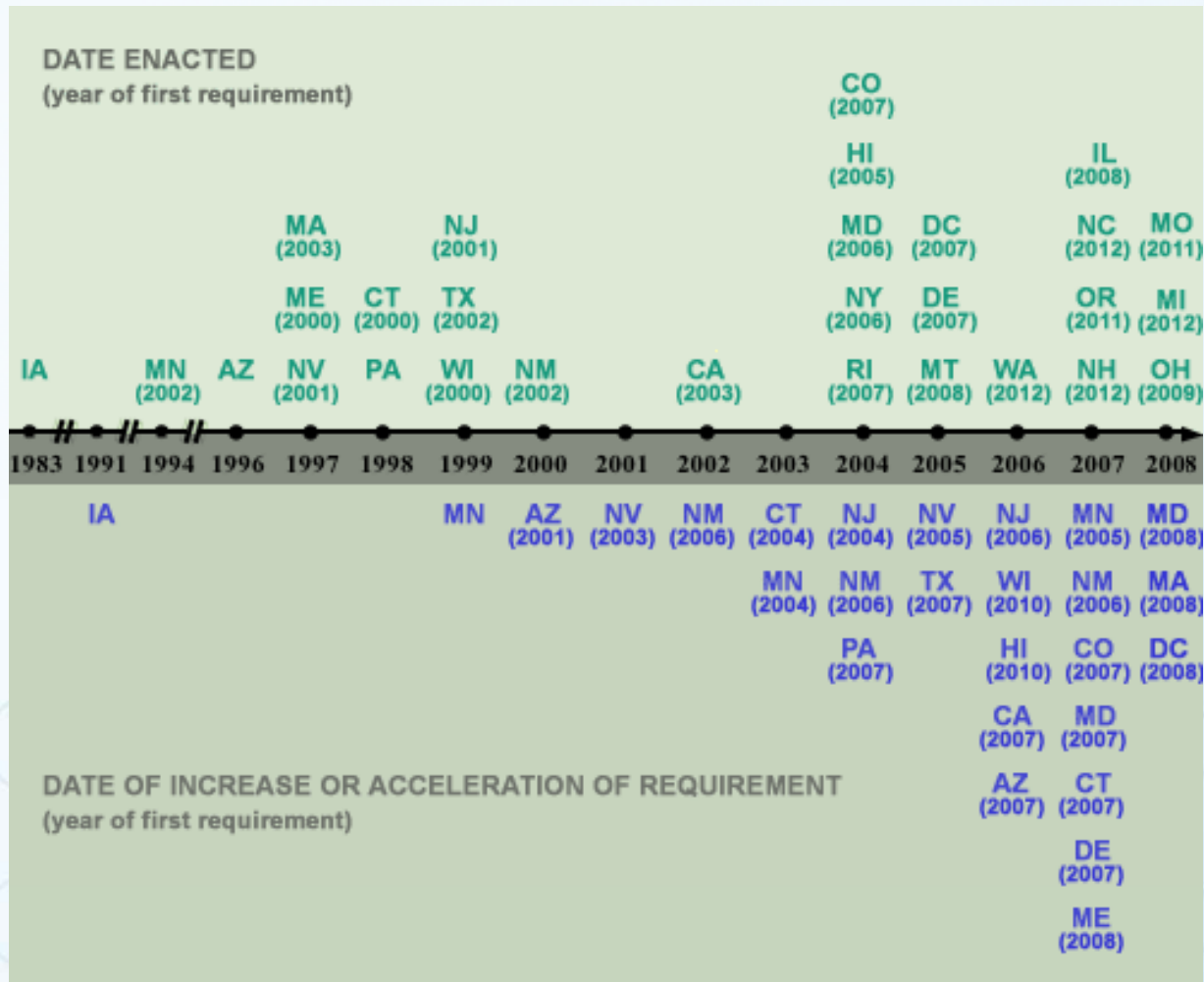
- Foundations (34%)
- Federal & State Grants (7%)
- Specific Contract work (21%)
- Conferences and Publications (34%)
- Contributions and Other (4%)

Renewable Electricity Standards 29 States + D.C.



17 states + D.C. have requirements of 20% or higher

State RES Timeline



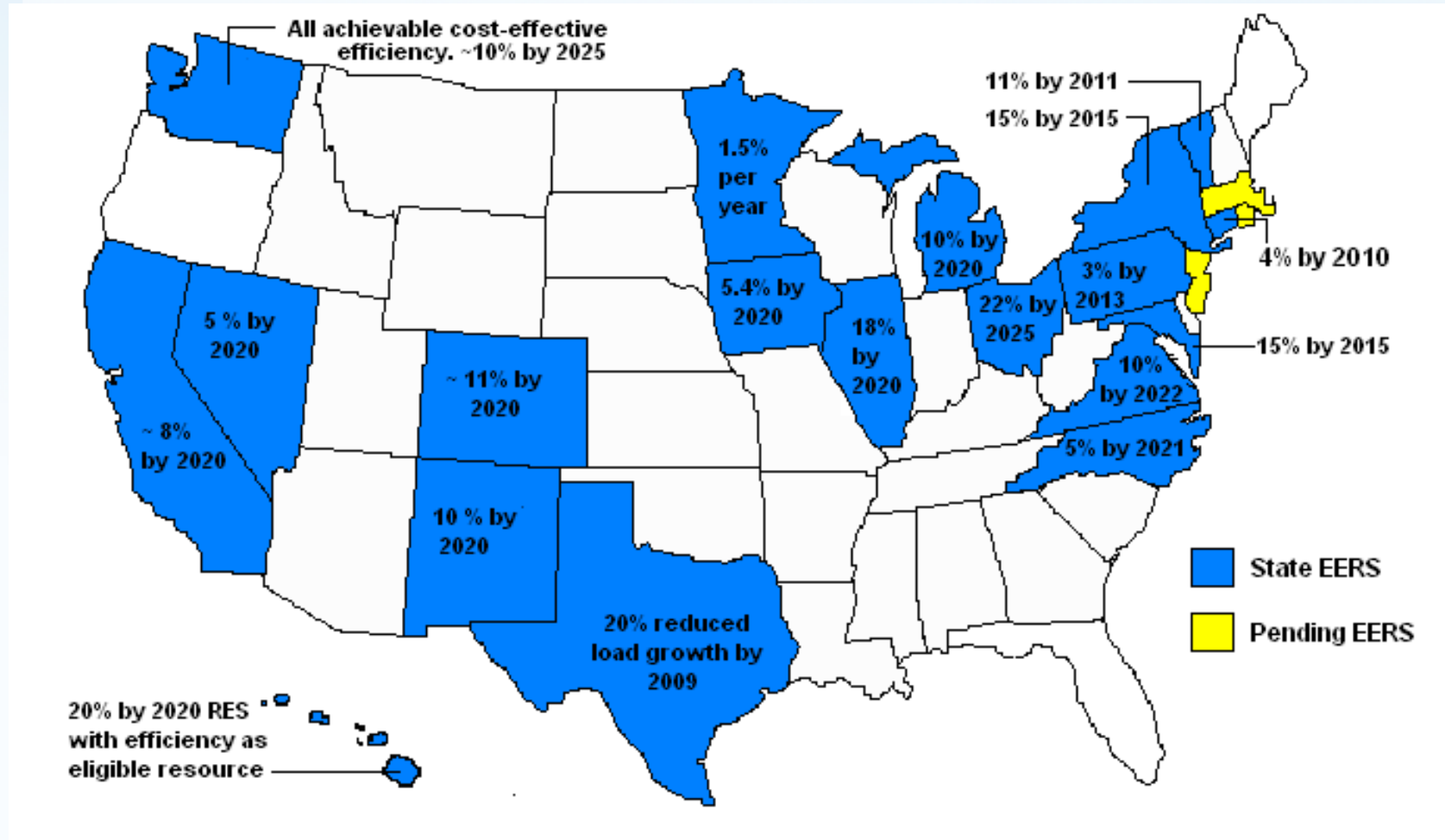
Source: Union of Concerned Scientists, Renewable Electricity Standards Toolkit. 2009.

RES Trends in the Northeast and Mid-Atlantic Region

- Northeast and Mid-Atlantic States saw an incremental increase of 1,064 MW in renewable generation between 1998-2007.
- NY, PA, and NJ are leading the way in terms of new renewable capacity.
- Only ME has consistently hit target.
- MA, NY, and CT did not meet targets for different reasons:
 - MA – shortfall of RECs
 - NY – budgetary tightening and delayed start dates
 - CT – unclear resource eligibility

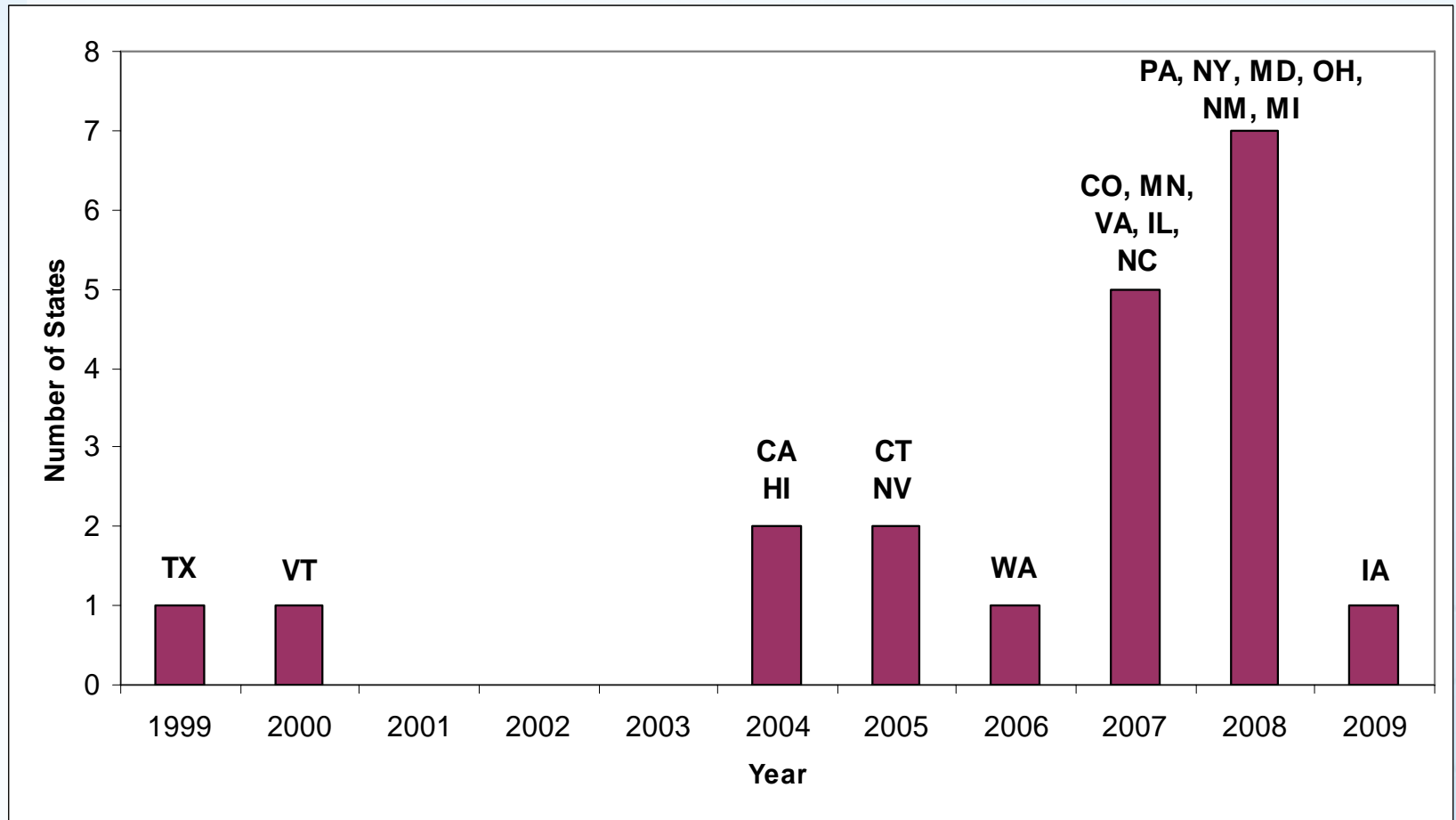
Source: Clean Energy States Alliance, Progress Report Review of State Renewable Portfolio Standard Programs in the Northeast & Mid-Atlantic Regions. 2008.

Energy Efficiency Resource Standards 19 States



15 states have requirements of 5% or higher

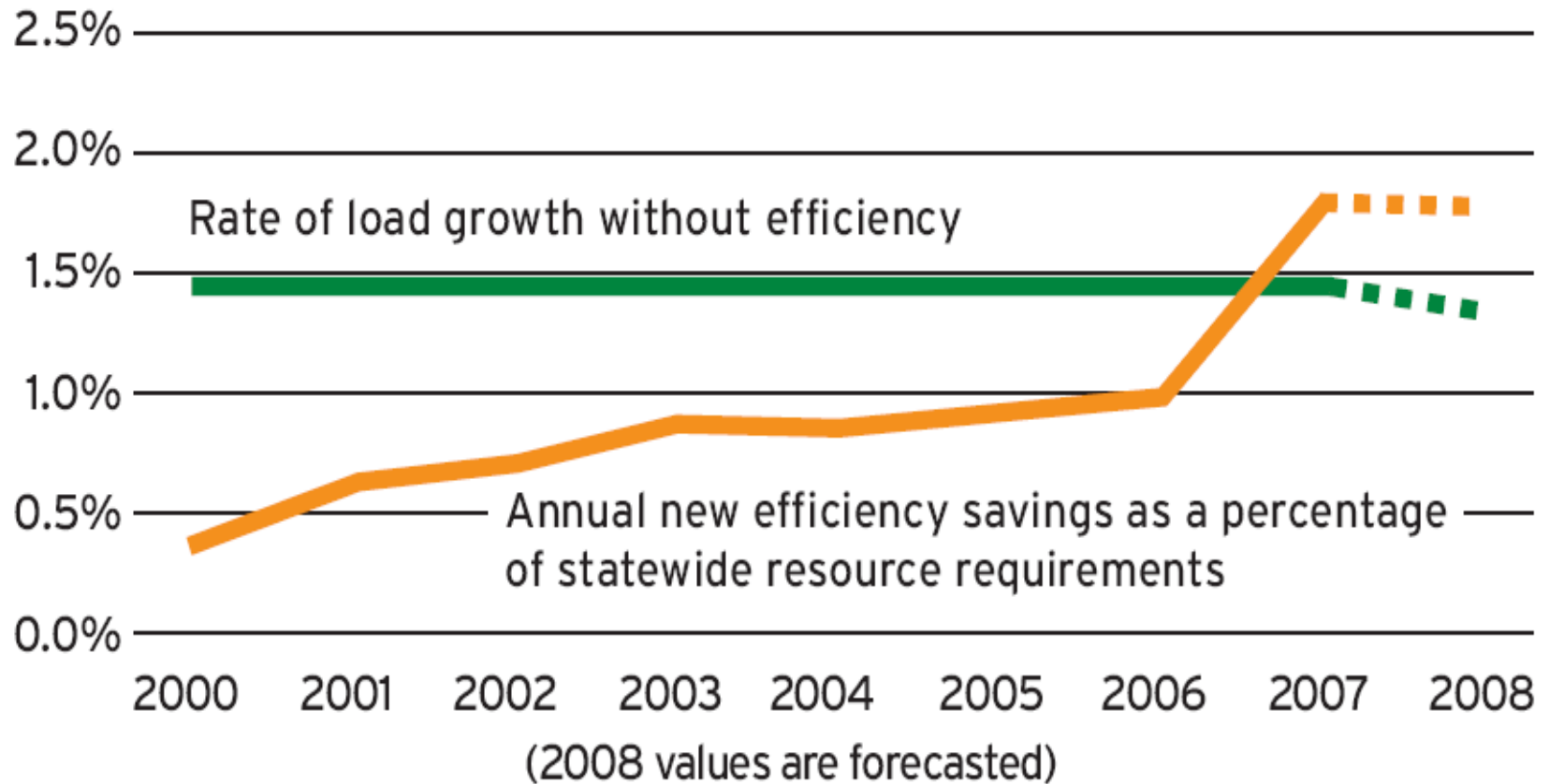
State EERS Timeline



Source: ACEEE

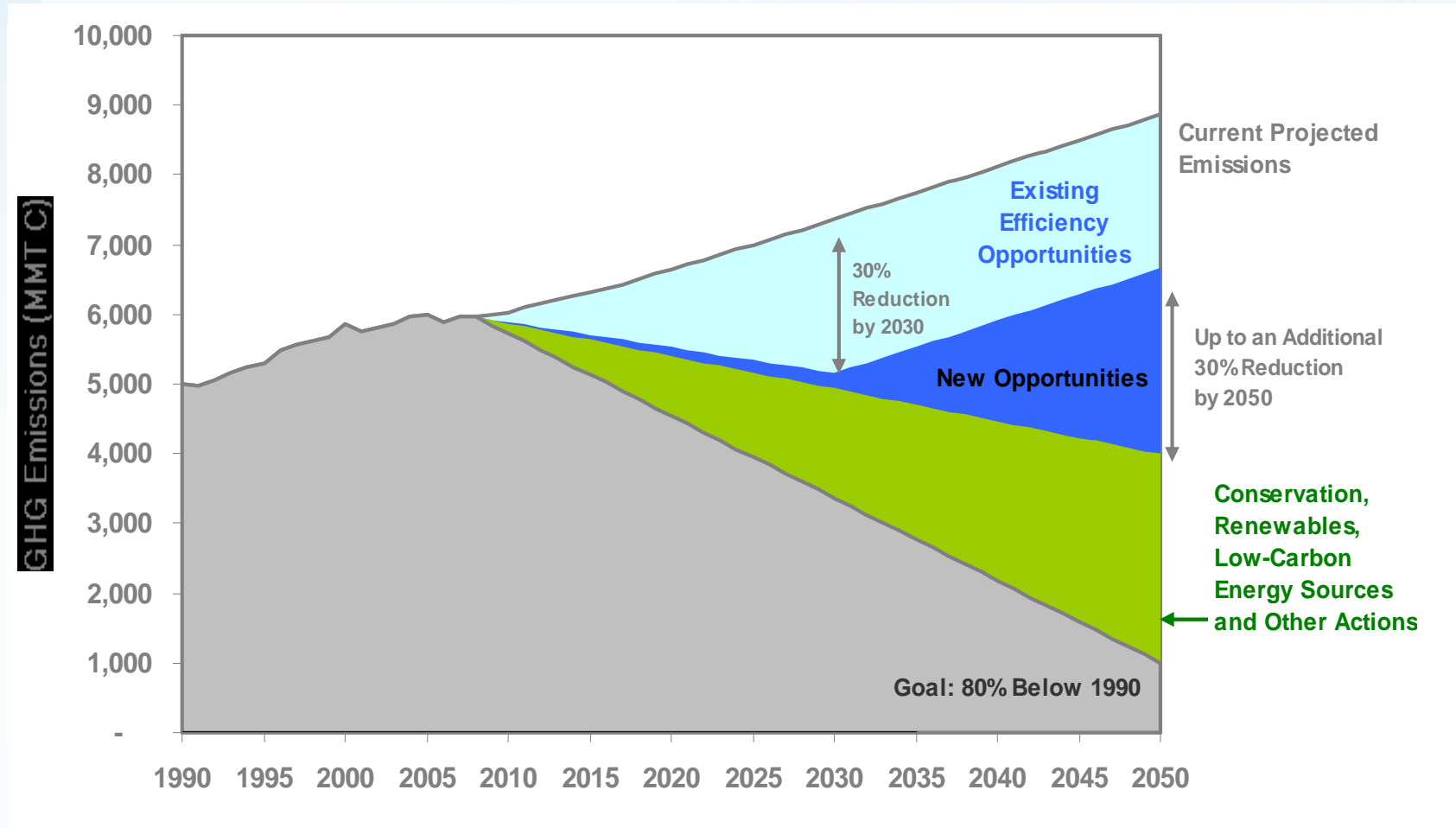
EERS Trends in Vermont

Energy Savings vs. Load Growth



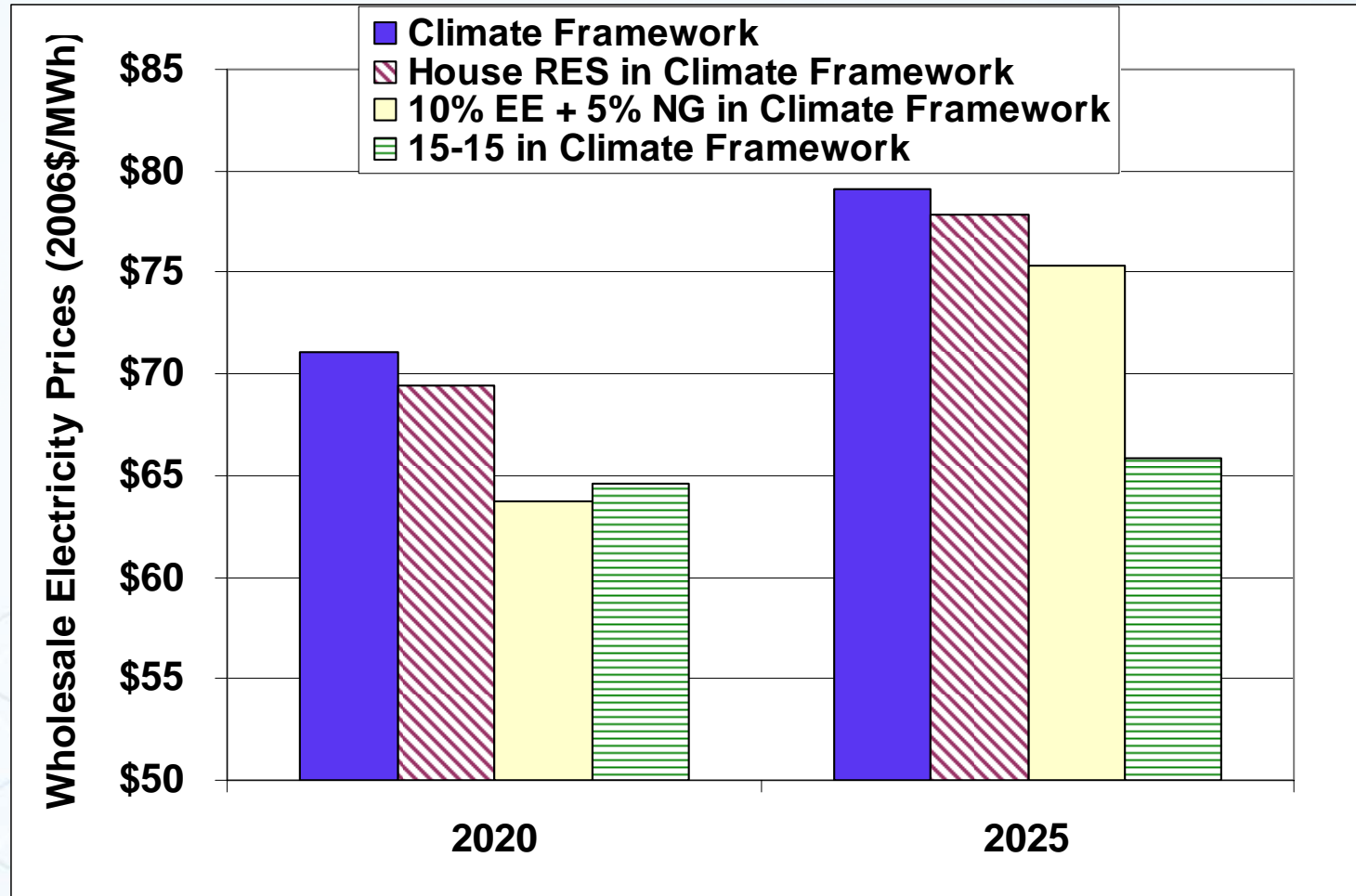
Source: Efficiency Vermont Annual Report Executive Summary. 2008.

RES and EERS are Complementary Policies



Source: Annual Energy Outlook

National Wholesale Electricity Price With an EERS (Climate Framework Scenario)

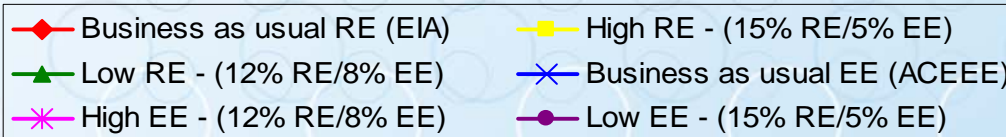
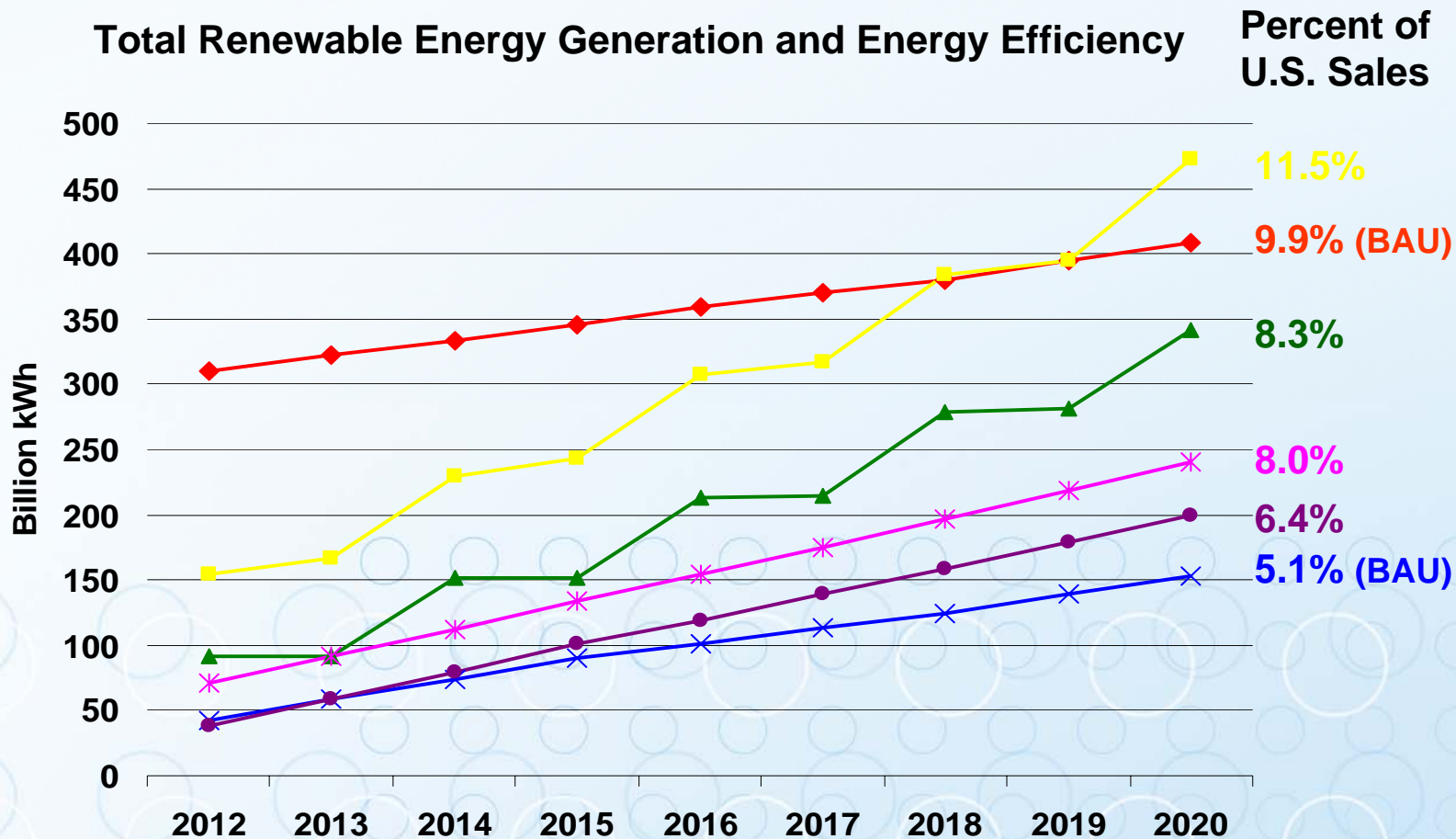


Source: ACEEE Dec. 2007 EERS-RES study

Current Legislation: Waxman-Markey Bill (H.R. 2454)

- 20% Renewable Electricity by 2020
- 25% of RES can be met with Energy Efficiency (total of 5% by 2020)
- Eligible 3% for added efficiency if necessary (with petition by Governor)
- States can set higher standards and continue to implement state standards (no preemption)
- State's may review and verify savings

Current Legislation: Waxman-Markey Bill (H.R. 2454)



Renewable Energy and Energy Efficiency Require Aggressive, Achievable Goals

Energy Efficiency Savings by 2020	Net Consumer Savings (\$2007)	Net Jobs Created	CO2 Emissions Reductions (MMT)
5%	\$20 billion	26,000	28
8%	\$46 billion	53,000	52
10%	\$77 billion	90,000	87
15%	\$169 billion	220,000	262

Source: ACEEE Internal Analysis

Renewable Energy Savings by 2020	Net Consumer Savings (\$2007)	Net Jobs Created	CO2 Emissions Reductions
12%	0	0	0
15%	0	0	0
25% (by 2025)	\$64.3 billion	297,000	2% reduction from 2009 levels

Source: Union of Concerned Scientists, Clean Energy, Green Jobs (2009); Southern Alliance for Clean Energy Internal Analysis

Conclusions

- States are leading the way on Renewable Energy and Energy Efficiency.
- Not clear that federal proposal will provide significant additional benefit.
- Federal RES/EERS needs to be at levels consistent with leading state targets.

For More Information

RES

- Union of Concerned Scientists

http://www.ucsusa.org/clean_energy/solutions/renewable_energy_solutions/

- Southern Alliance for Clean Energy

<http://www.cleanenergy.org>

EERS

- ACEEE EERS Webpage:

www.aceee.org/energy/national/eers.htm

- ACEEE State Energy Efficiency Policy Database:

<http://www.aceee.org/energy/state/index.htm>