

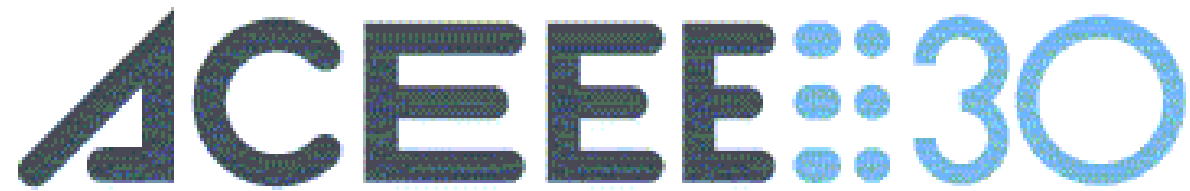
ACEEE::30

30 Years of Energizing Efficiency

Energy Efficiency: The Time is Now

Steven Nadel, Executive Director
American Council for an Energy-Efficient Economy
April 2010

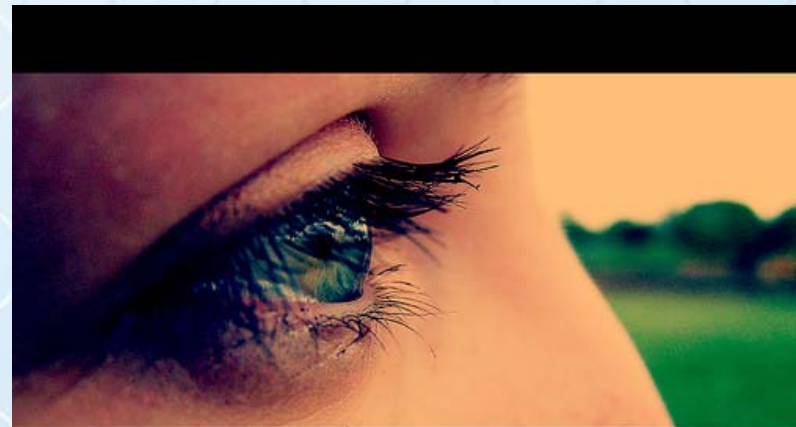




30 Years of Energizing Efficiency

**Much Has Been Accomplished in the
Past 30 Years...**

But Much Left to Do

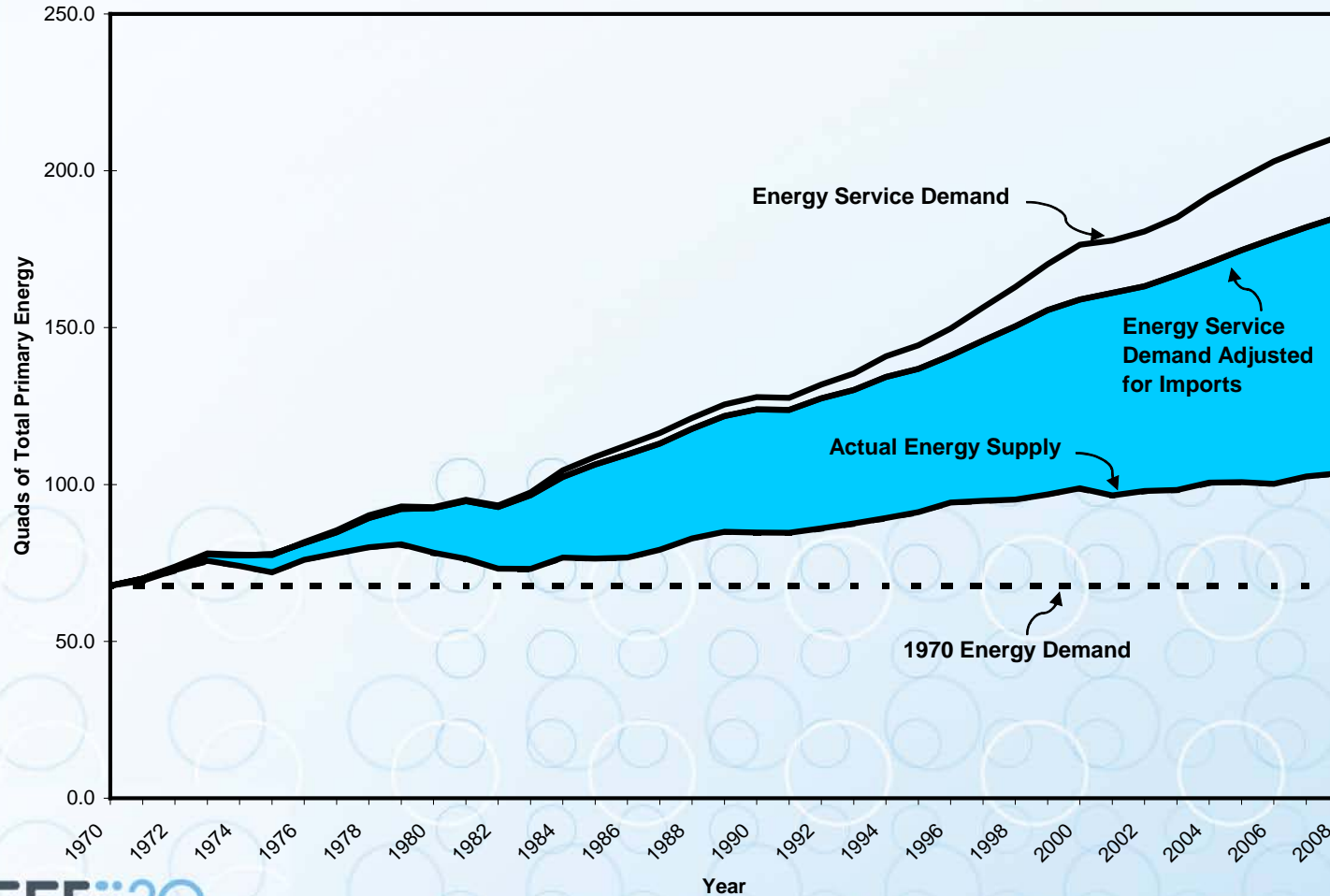


ACEEE 30th Anniversary Events

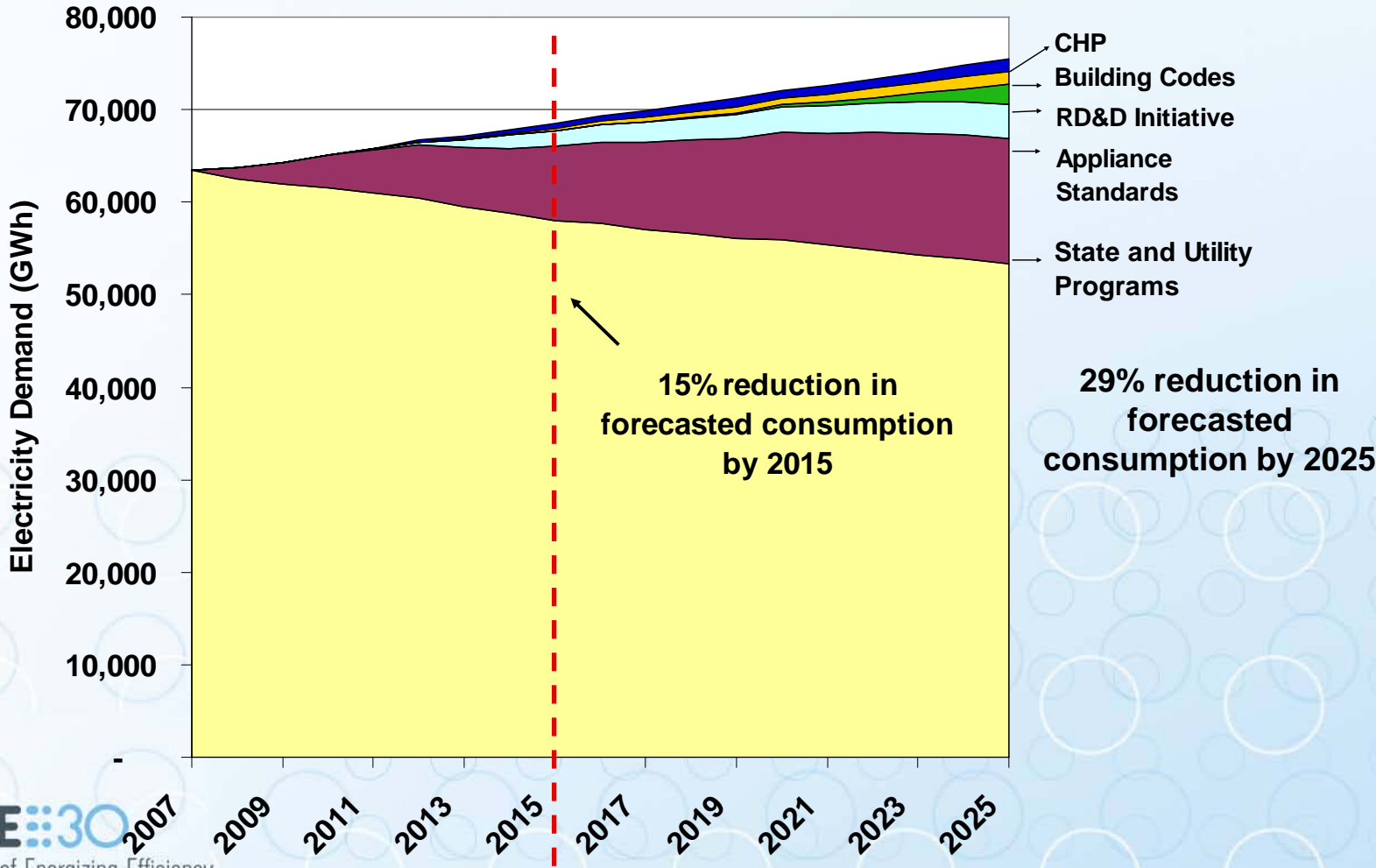
(all in Washington, DC)

- Symposia
 - April – *Energy and the Economic Imperative*
 - July – *Energy Efficiency and the Future of Manufacturing*
 - Oct. – *Transportation in the 21st Century*
 - Winter – *Laying the Foundation for a Low-Energy Building Stock*
- Conference and Celebration
 - Nov./Dec. – *Energy Policy and Analysis*

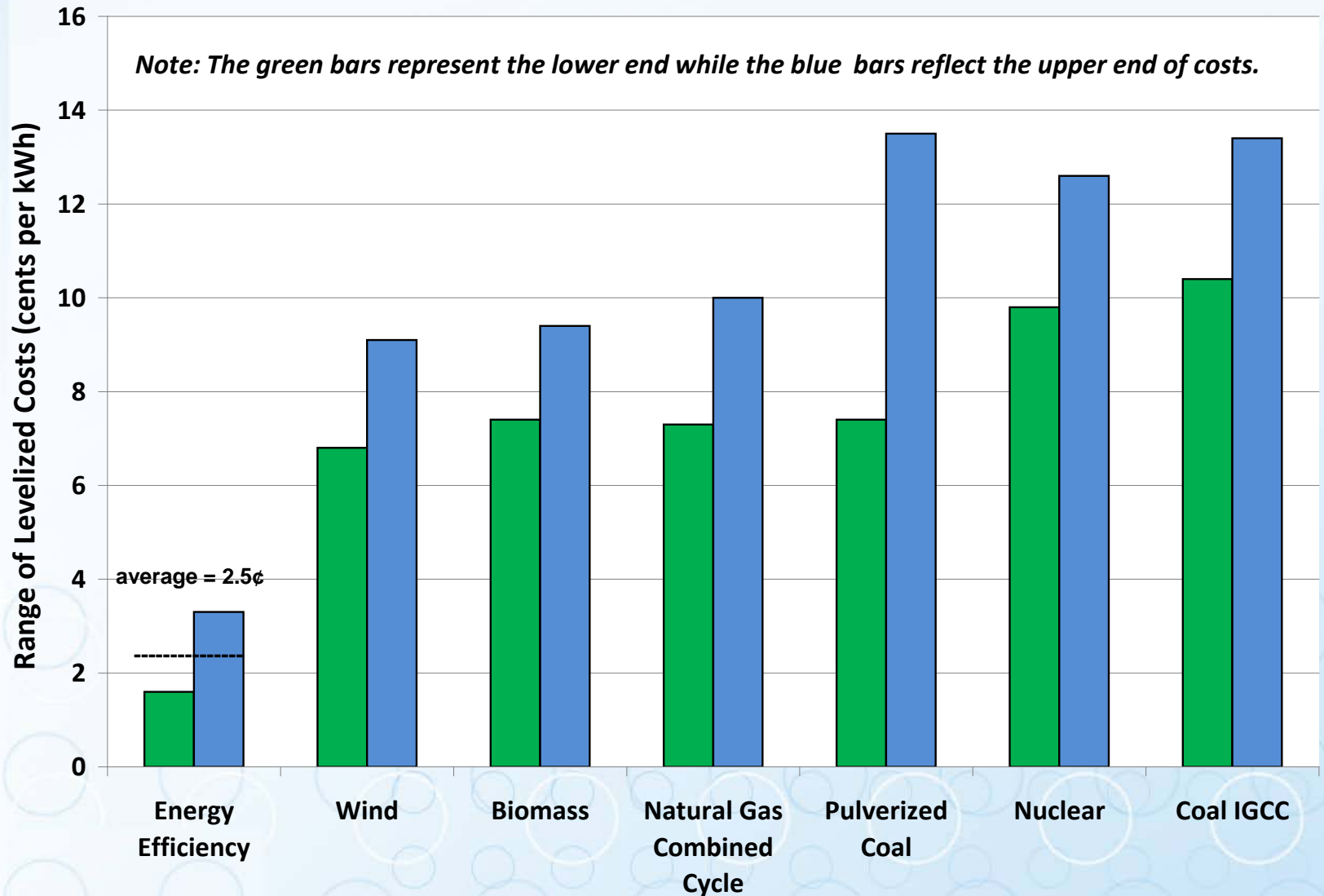
U.S. Energy Use in Relation to GDP 1970-2008



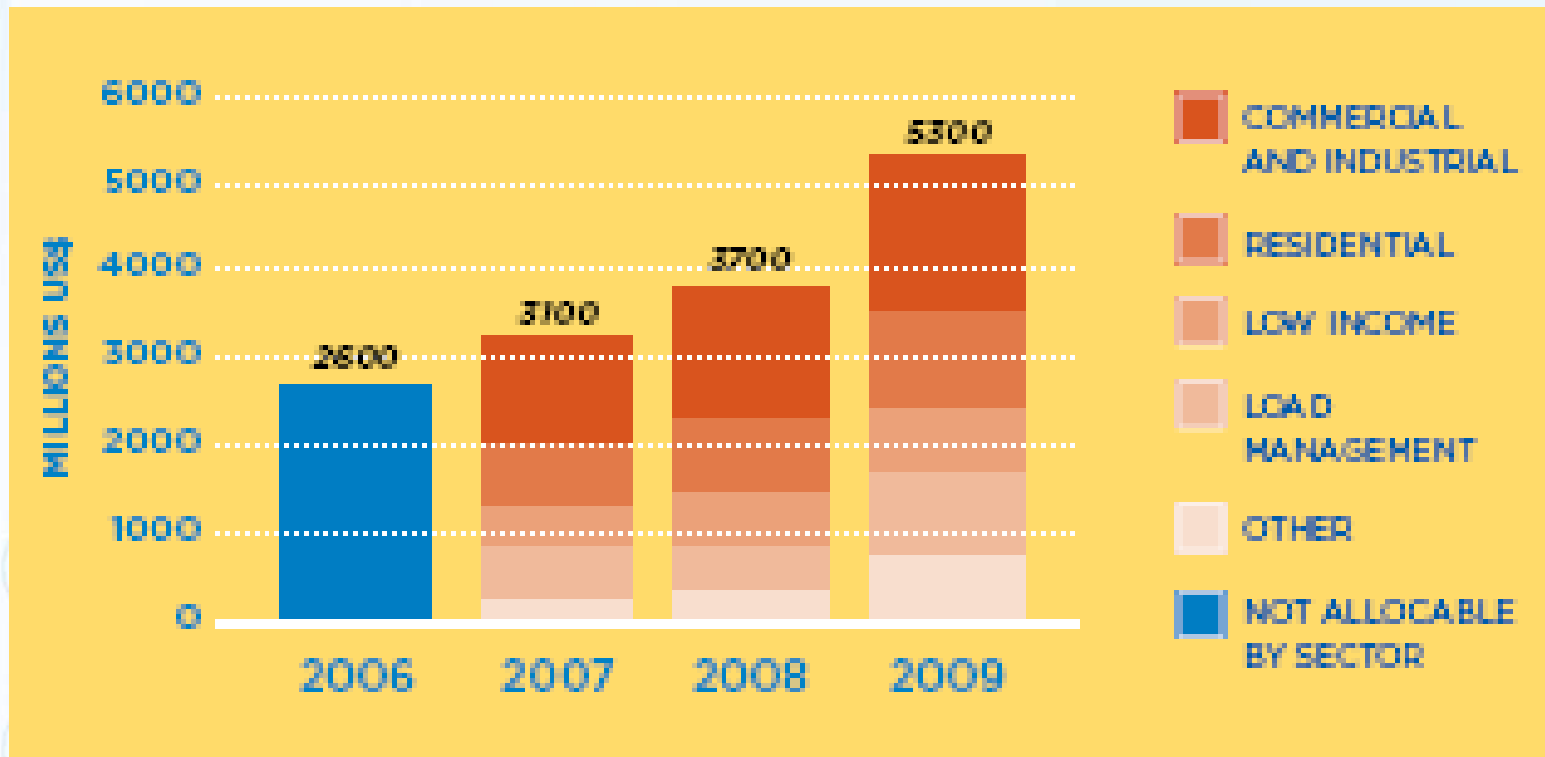
Share of Maryland Electricity Sales That Can Be Met by Efficiency Policies



Levelized Utility Cost of Electricity Resources



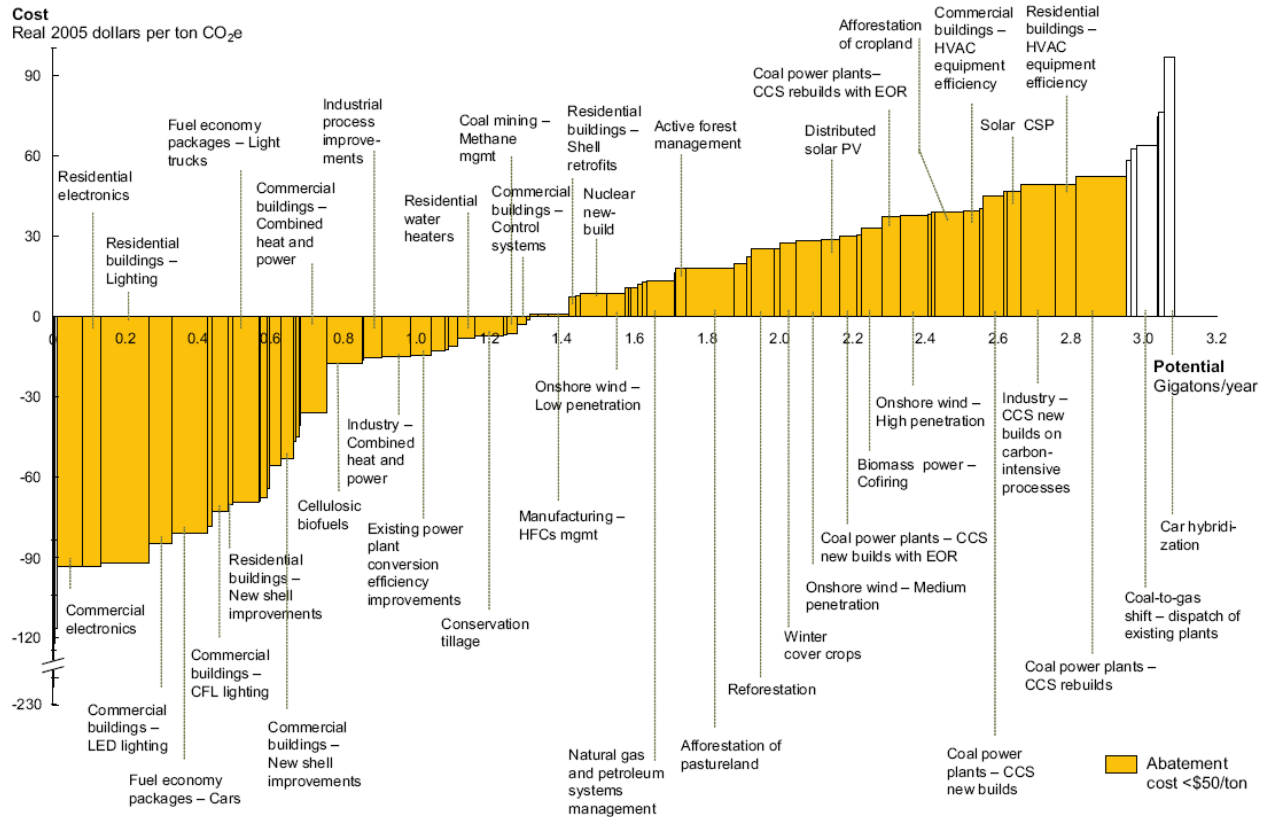
U.S. Electric and Gas Utility Budgets for Energy Efficiency & Load Management



Source: Consortium for Energy Efficiency

McKinsey Global's Analysis of Carbon Reduction Potential

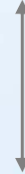
U.S. Mid-Range Abatement Curve – 2030



Source: McKinsey analysis

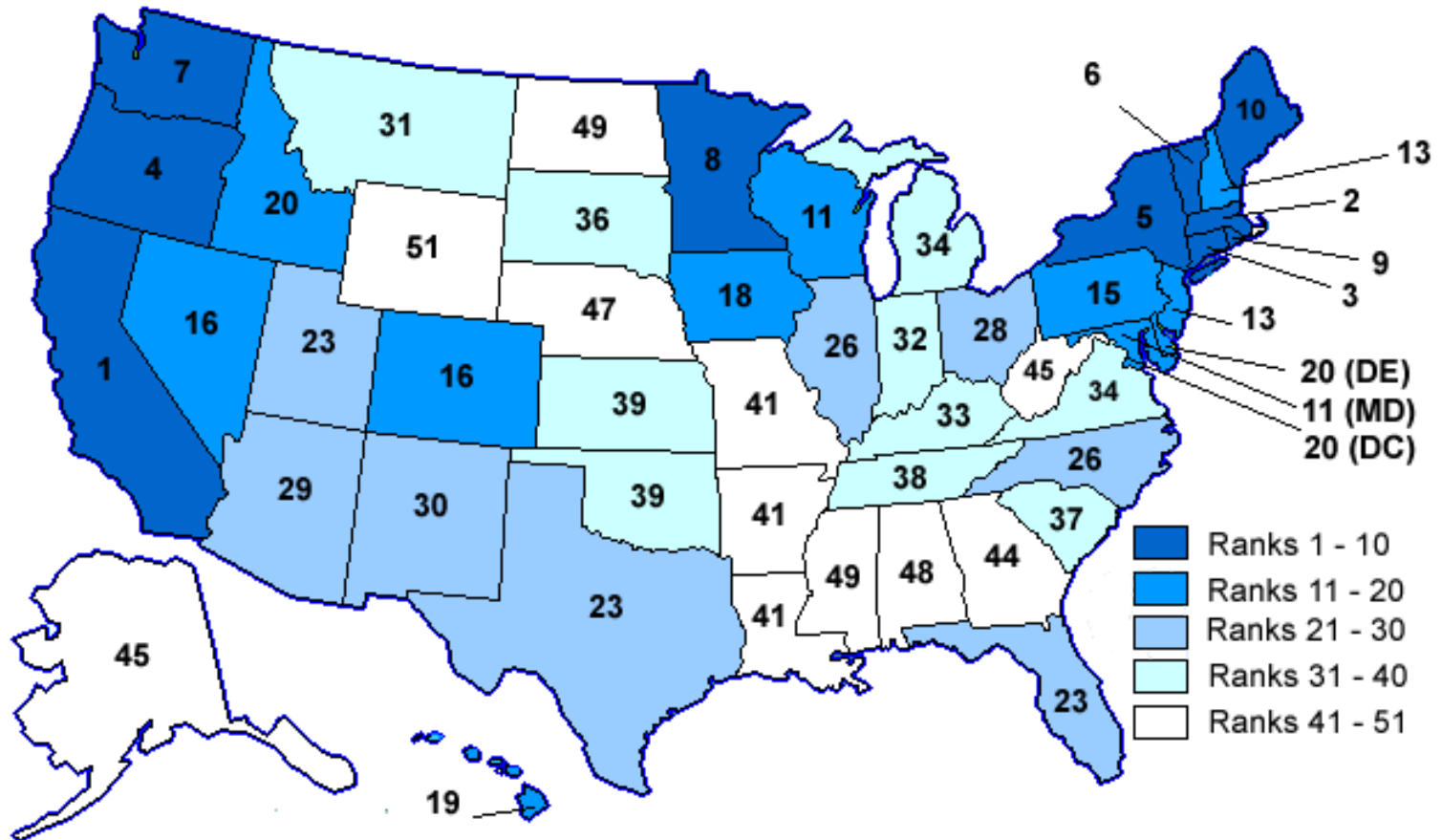
Note: The McKinsey report only examines a scenario through 2030. NRDC recommends a goal of 80 percent emissions reductions by 2050.

Role of Efficiency in Addressing Climate Change in the U.S.

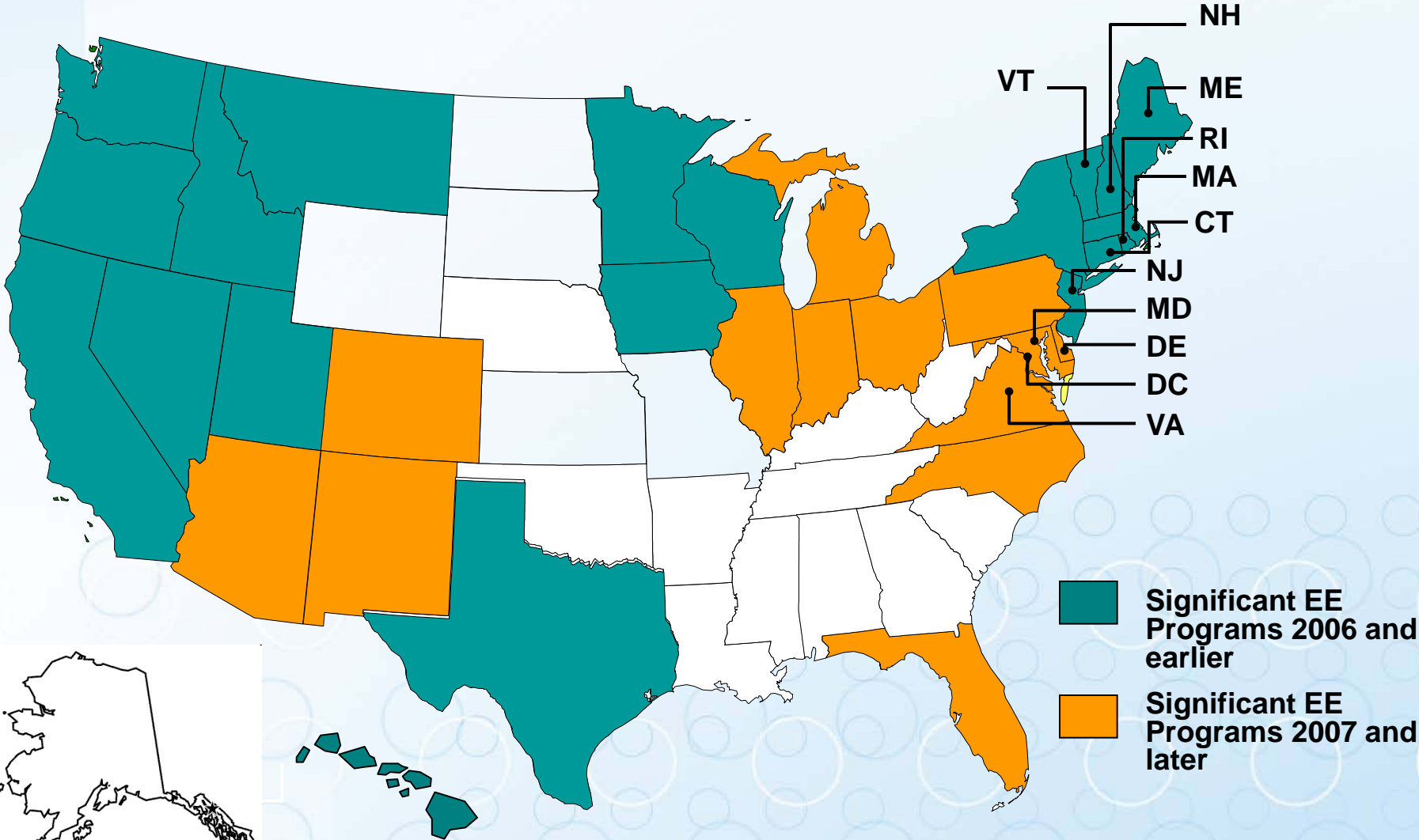


Note: This graph is stylized and is not exact.

ACEEE's 2009 State Energy Efficiency Scorecard Results



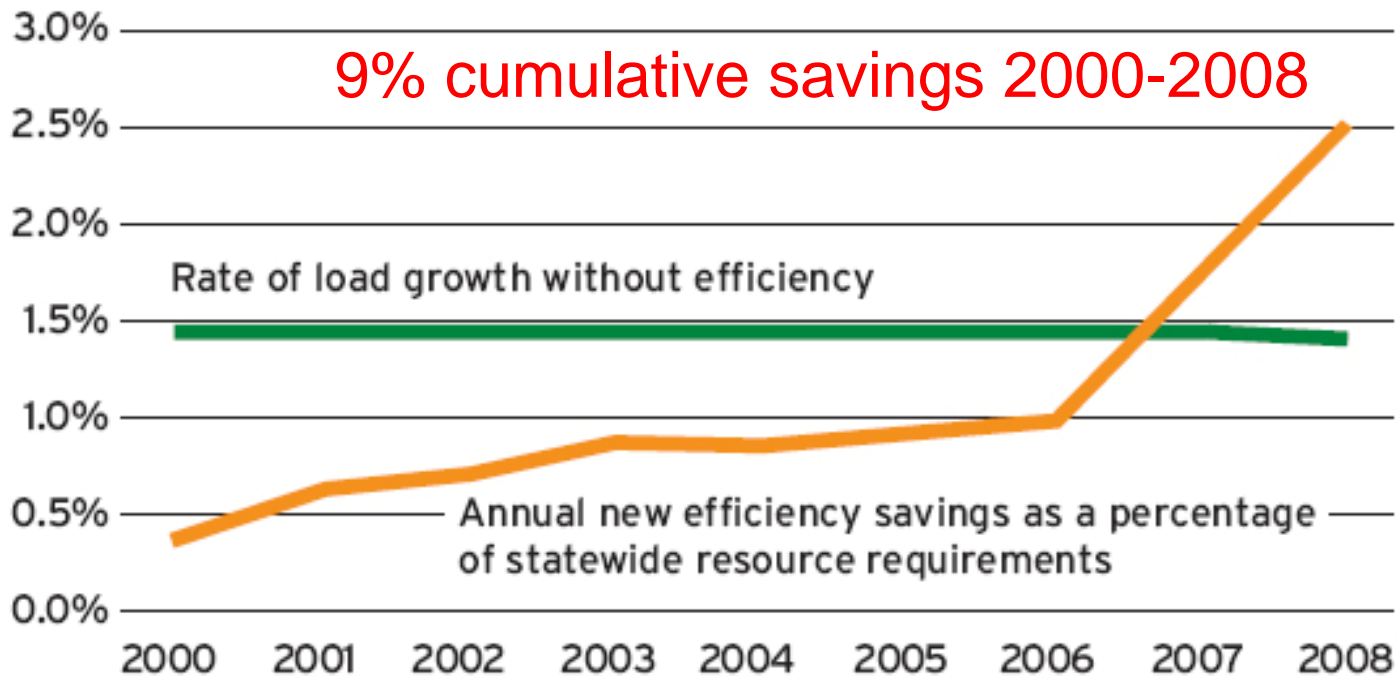
Utility EE Policies & Programs



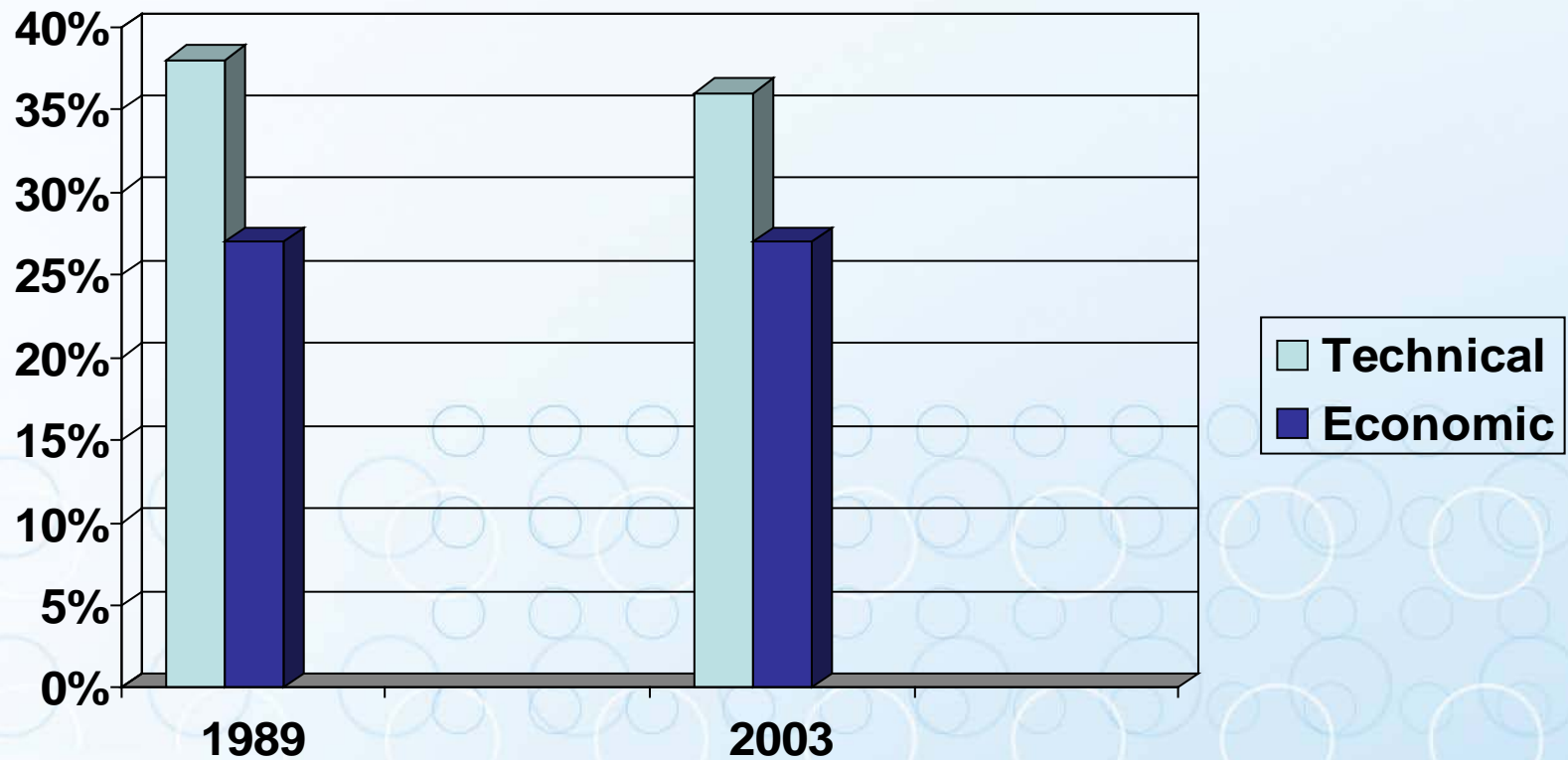
Vermont – Raising Efficiency to a New Level



Energy Savings vs. Projected Load Growth



Comparison of Economic Potential in NYS – 1989 vs. 2003



Source: ACEEE 1989 and Optimal Energy 2003 analyses.

New Technologies and Practices



Bulb Companies See the Wave Coming



Google PowerMeter: Ed's Home

Example utility. Find out about free energy-saving home improvements to save money on your next bill. [Learn more](#)

Day [Daily Totals](#) [Week](#) [more](#)

power in W

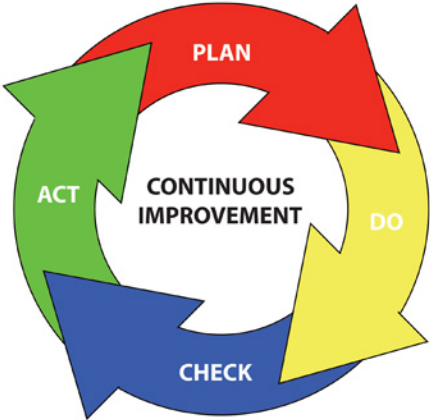
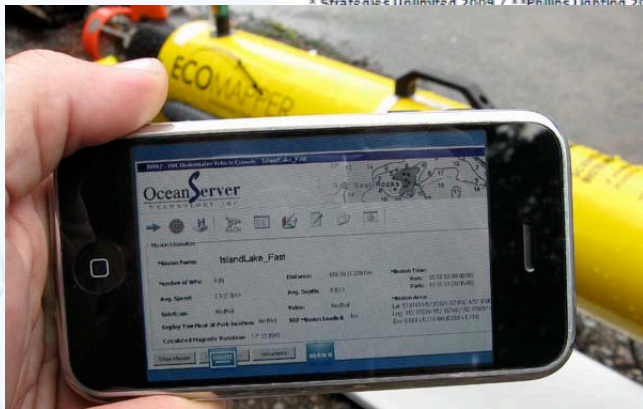
Monday: 8.2 kWh used
Nice! (83%)

Tuesday: 2.7 kWh used

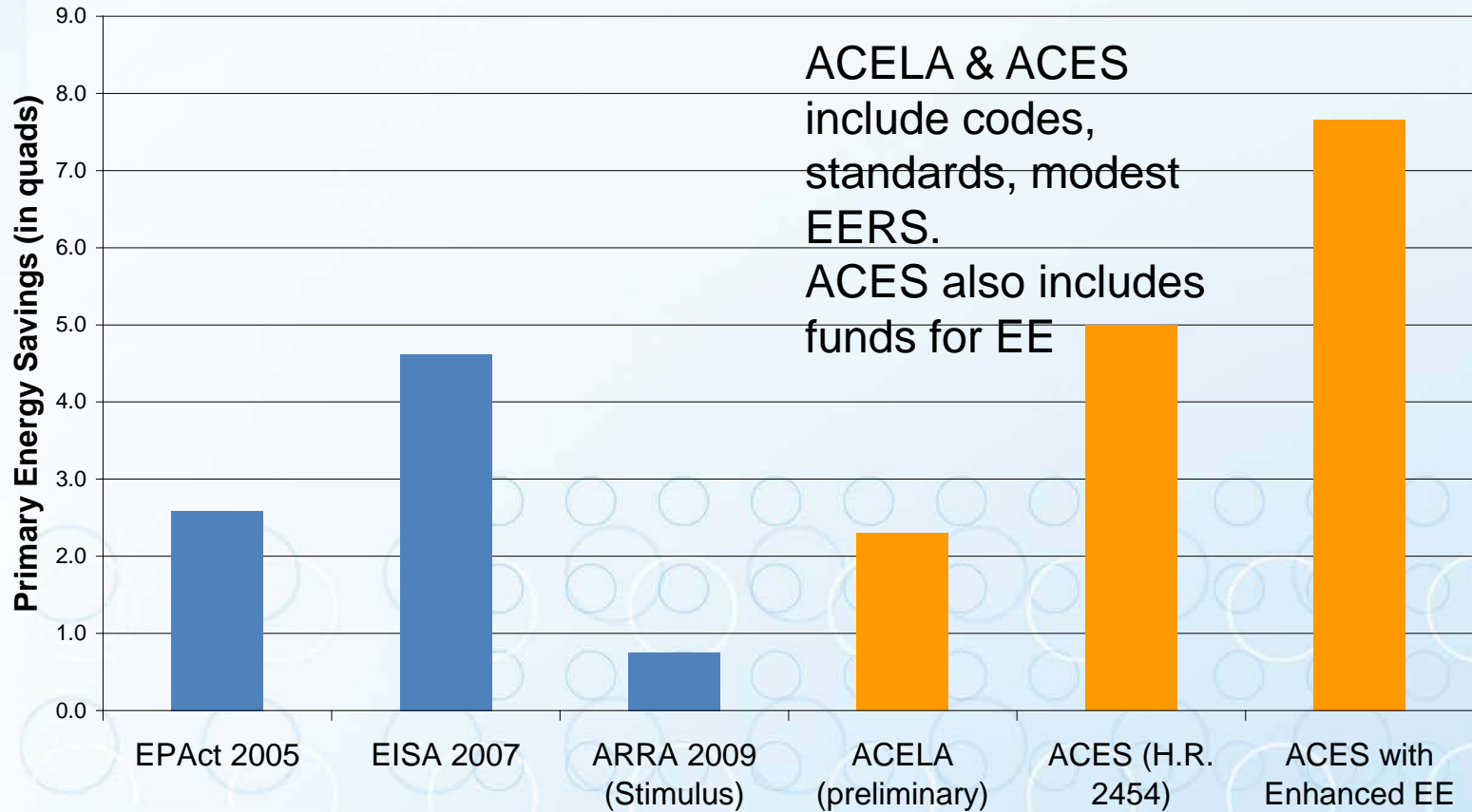
About even with expected usage so far today

used: night (morning) 2.7 kWh
exp: night morning all evening 9.5 kWh

[Help](#) [Utility Logo](#)

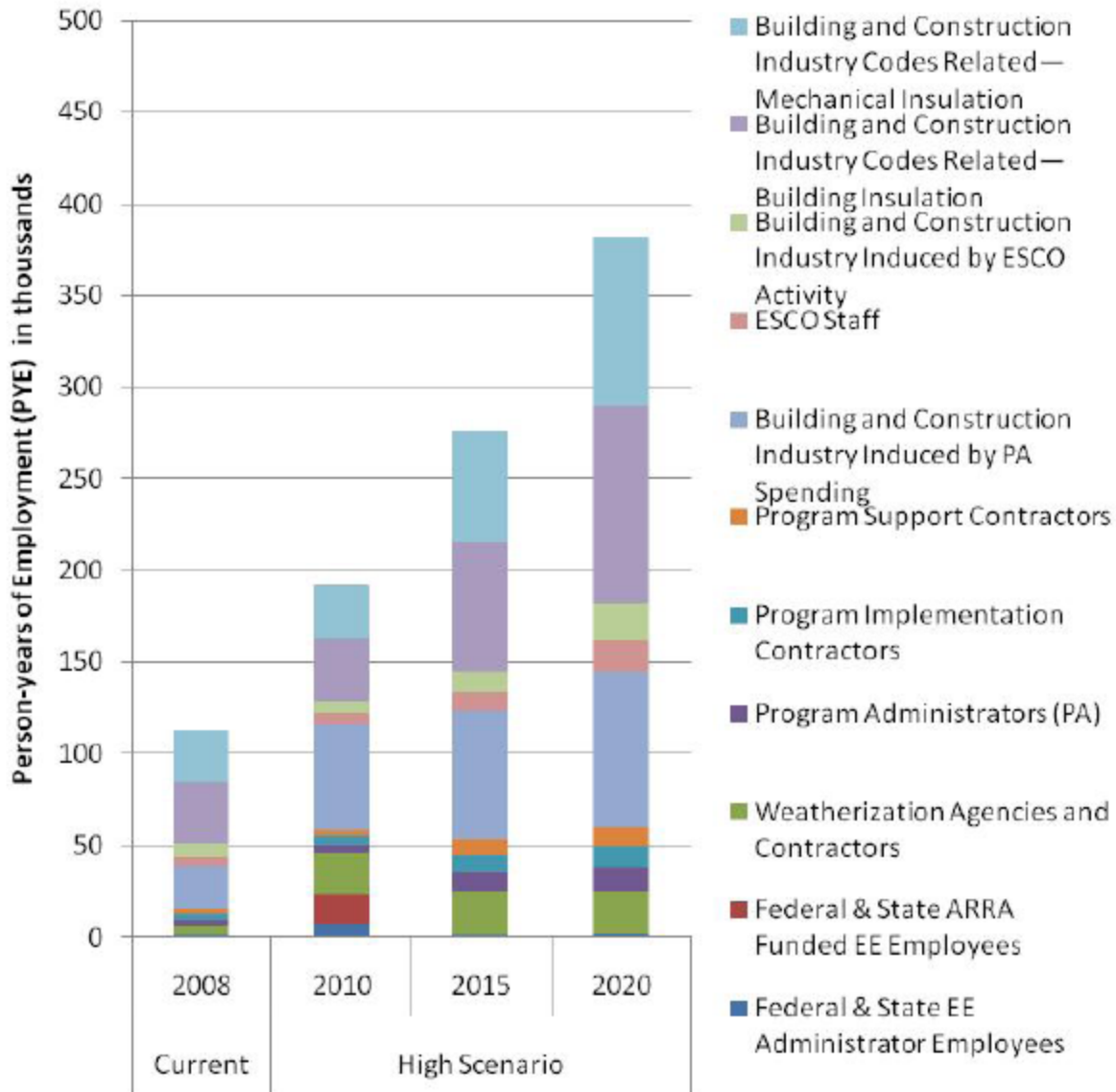


Efficiency Savings in 2030 in Pending and Recent Federal Energy Bills



Enhanced: 10% EERS by 2020, increased EE funding

EESS Workforce Size - Current and Projected: High Spending Scenario



Key Policies Supporting Chinese Goal to Reduce Energy Intensity 20%

Energy Policies	Date Effective	Responsible Agency
Fuel Consumption Limits For Passenger Cars	2004	
Medium and Long-Term Plan for Energy Conservation	2005	National Development and Reform Commission (NDRC)
Renewable Energy Law	2005	
Government Procurement Program	2005	NDRC and Ministry of Finance (MOF)
National Energy Efficient Design Standard for Public Buildings	2005	Ministry of Construction (MOC)
Eleventh Five-Year Plan	2006	NDRC
The State Council Decision on Strengthening Energy Conservation	2006	State Council
Revised Consumption Tax for Larger, Energy-Inefficient Vehicles	2006	MOF and the State Administration of Taxation
Reduced Export Tax Rebates for Many Low-Value-Added But High Energy-Consuming Products	2006	MOF
Top-1000 Energy-Consuming Enterprise Program	2006	NDRC
"Green Purchasing" Program	2006	Ministry of Environmental Protection (MEP) and MOF
Revision of Energy Conservation Law	2007	National People's Congress and NDRC
Allocation of Funding on Energy Efficiency and Pollution Abatement	2007	MOF and NDRC
China Energy Technology Policy Outline 2006	2007	NDRC and the Ministry of Science and Technology
Government Procurement Program	2007	NDRC and MOF
National Phase III Vehicle Emission Standards	2007	
Interim Administrative Method for Incentive Funds for Heating and Metering and Energy Efficiency Retrofit for Existing Residential Buildings in China's Northern Heating Area	2007	MOF
Law on Corporate Income Tax (preferential tax treatment for investment in energy-saving and environmentally-friendly projects and equipment)	2008	NDRC
Allocation of Funding on Energy Efficiency and Pollution Abatement	2008	MOF and NDRC
Appliance Standards and Labeling	Various Years	General Administration of Quality Supervision, Inspection and Quarantine

Time to Look Forward.. In New Creative Ways



“On the wrong way?”

On With the Show!



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