



National Governor's Association –
Raleigh, NC
January 25, 2010



Who is SEEA?

The Southeast Energy Efficiency Alliance builds regional partnerships to promote and achieve energy efficiency for a cleaner environment, a more prosperous economy, and a higher quality of life.

- Covering 11 southeastern states
- 71 million residents





SEEA Participants

- State, federal & local governments, electric and natural gas utilities, businesses (energy users and efficiency suppliers), and Non-Governmental Organizations (NGOs) (environment, low income housing, etc.).



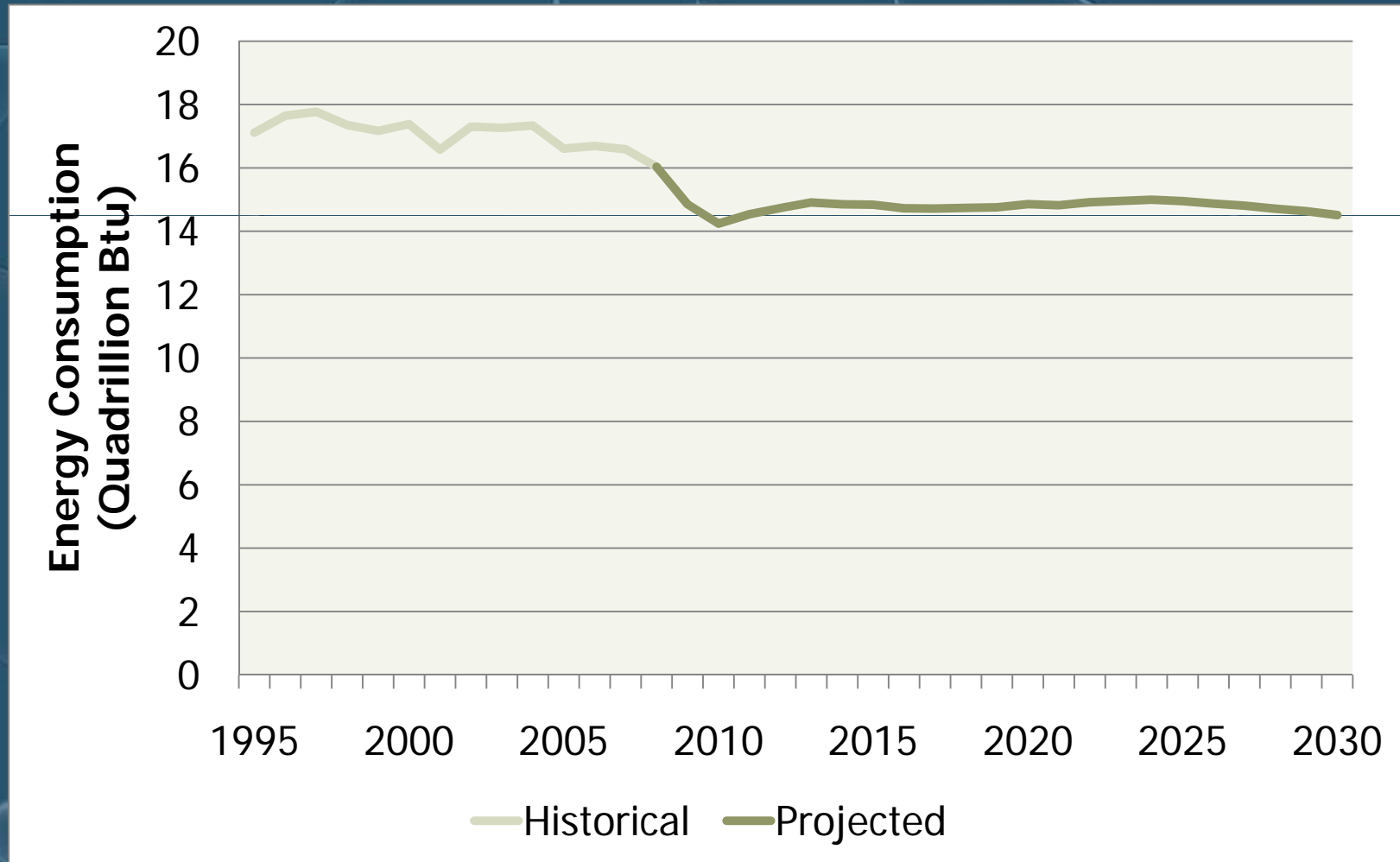


SEEA Programs

- Utility and PSC
- Business Forum
- State Policy
- Transit
- Industrial
- Private Sector
- Education
- Government
- Research

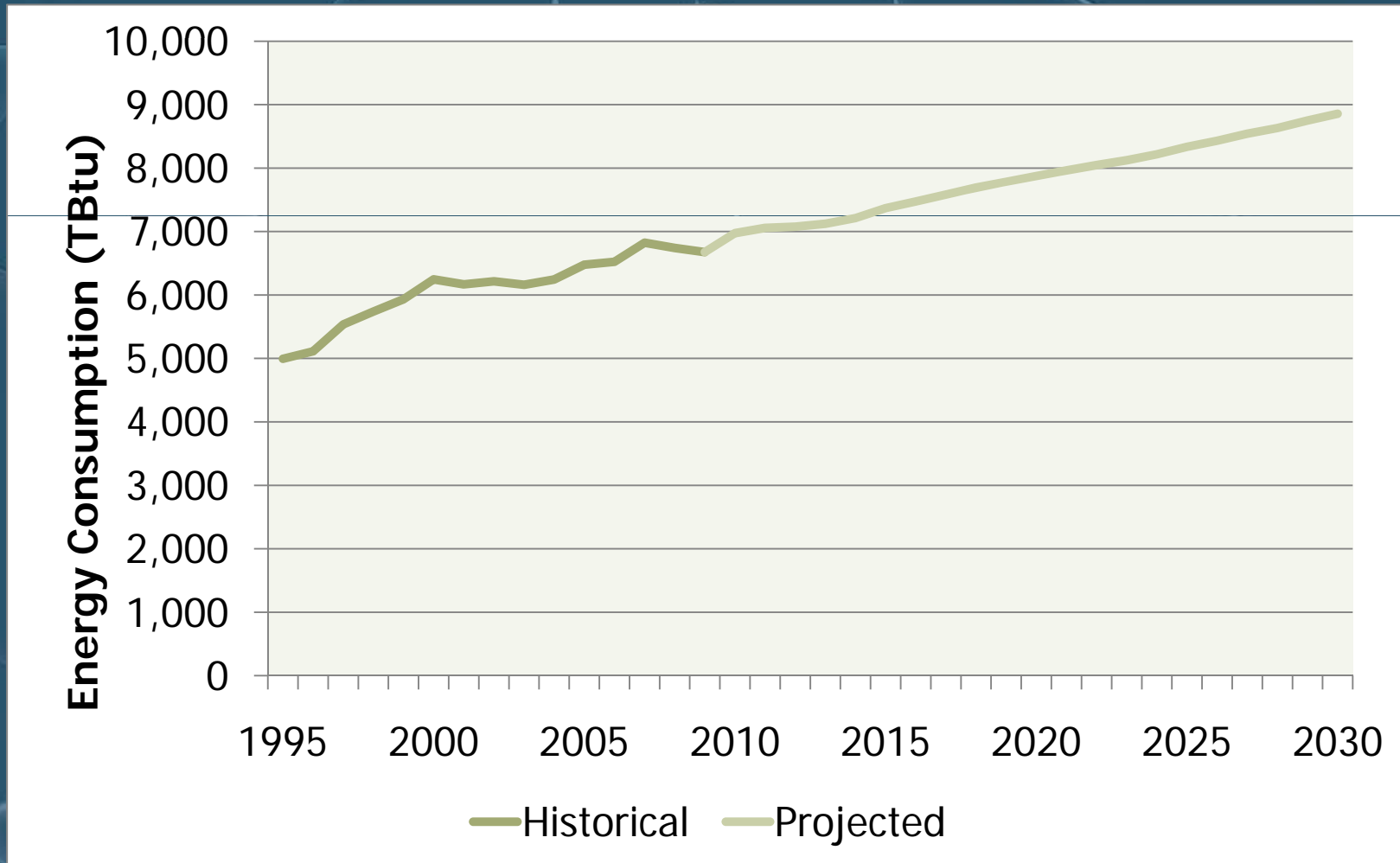


Consumption forecast for Industry in the South region (EIA, 2009)





Consumption forecast for Commercial in the South region (EIA, 2009)



Historical and Projected Energy Consumption by Residential Sector (EIA, 2009; AEO 2009)





Energy Efficiency Policies in NC

- Building Codes
 - 2006 IECC with amendments that include adoption of ASHRAE 90.1-2004
 - Energy Standards for Public Buildings
- Green Building Incentives
- Revolving Loan Program for Renewable Energy and Energy Efficiency
- Clean Energy Financing (PACE)
 - Senate Bill 97 needs to be fixed so that revenue bonds would specifically allow proceeds to be used for renewable energy and EE.
- Sales Tax Holiday for Energy-Efficient Appliances
- North Carolina Green Business Fund
- Energy Improvement Loan Program (EILP)
- Create incentives for EE such as RE Tax Credits



Utilities

- Energy Efficiency Resource Standard



- Current one does not have specific reduction number – only a percentage of prior year electricity sales.



- Texas - 15% of load growth, by 2009 – 20% of load growth by 2010



- Nevada - 20% of electricity sales by 2015, and was amended to allow energy efficiency to meet up to 25% of the total portfolio standard.



Appliance & Equipment Efficiency Standards

- California
- Massachusetts
- Rhode Island
- Recent Federal Action





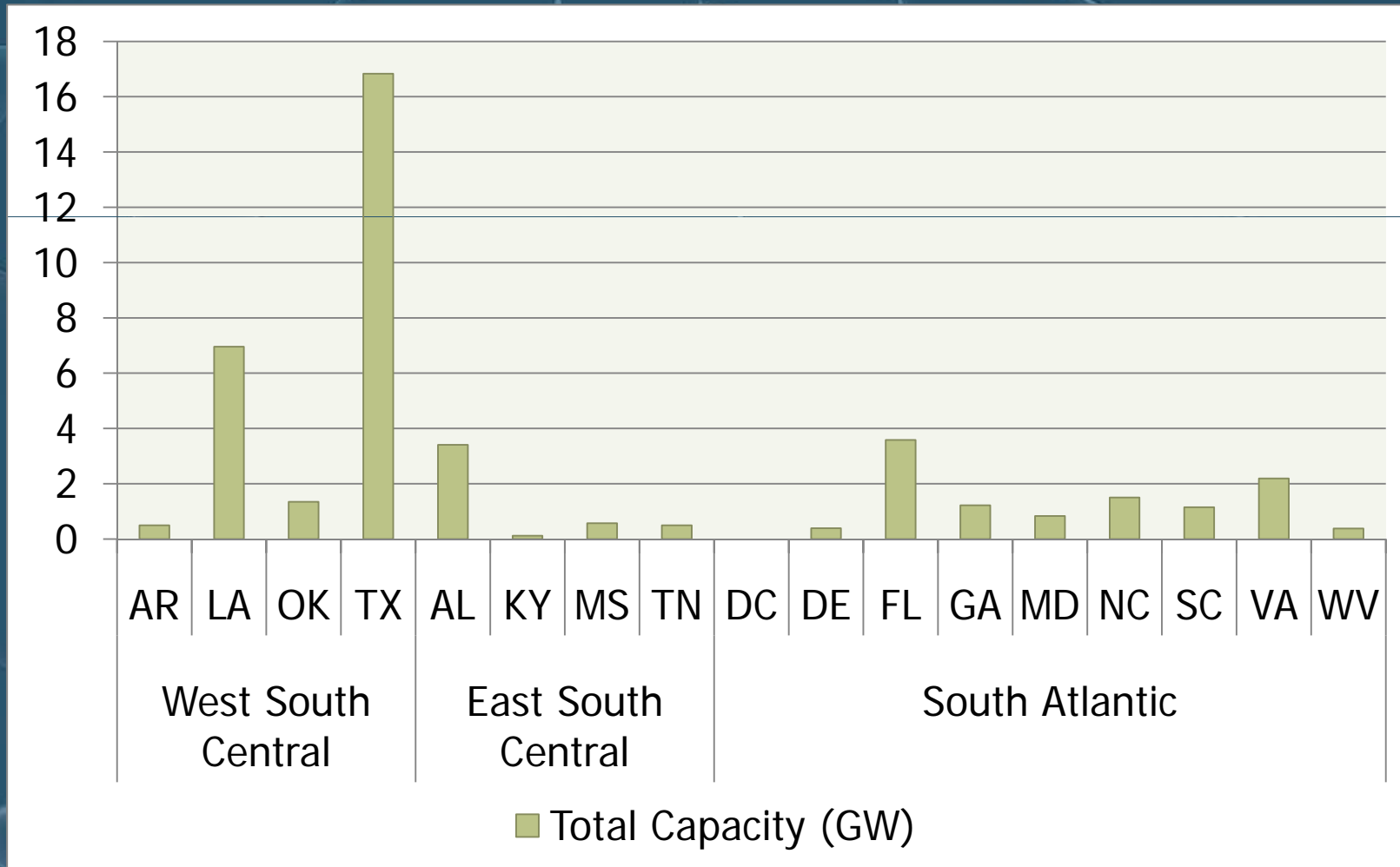
CHP

- Connecticut (Interconnection Standards) - developed interconnection standards applicable to CHP systems as large as 10 MW,
- New York - In 2004, the maximum capacity of interconnected systems was increased from 300 kW to 2 MW
- California - streamlined interconnection standards for systems up to 10 MW





Installed CHP Capacity by state in the Southeast (EEA, 2009)





State Financial Incentives

- Oregon (Tax Incentives)
- Minnesota (Home Energy Loans)
- Louisiana (Home Energy Rebate)
- SC (Sales Tax Cap on EE Manufactured Homes)



Transportation

- Feebate Program - sliding scale of fees and rebates for the purchase of new vehicles based on fuel consumption or emissions of greenhouse gases.
- California (Standards)
- South Carolina (Tax Credit) - tax credit equivalent to 20% of the hybrid-electric vehicle (HEV) and alternative fuel vehicle (AFV)
- Pennsylvania (Tailpipe Emissions Standards (Low-Emission Vehicle Program) - 30% reduction in average new vehicle greenhouse gas emissions from 2002 levels by 2016





Building Codes

ARRA Building Codes Requirement

1. Adopt a building energy code for residential buildings that meets or exceeds the 2009 IECC;
2. Adopt a building energy code for commercial buildings that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, and;
3. Develop and implement a plan, including active training and enforcement provisions, to achieve 90% compliance with the target codes by 2017, including measuring current compliance each year.



ARC Policies Modeled

Residential Buildings	Commercial Buildings	Industry	Transportation
<i>Improved Building Energy Code with Third Party Verification and Compliance Incentive</i>	<i>Commercial Building Energy Codes with Third Party Verification and Compliance Incentives</i>	<i>Expanded Industrial Assessment Centers</i>	<i>Pay-as-You-Drive Insurance</i>
<i>Expanded Weatherization Assistance Programs</i>	<i>Support for Commissioning of Existing Commercial Buildings</i>	<i>Increasing Energy Savings Assessments</i>	<i>Clean Car Standards</i>
<i>Residential Retrofit Incentive with Resale Energy Labeling and Incremental Cost Incentives</i>	<i>Efficient Commercial HVAC and Lighting Retrofit Incentive</i>	<i>Supporting Combined Heat and Power (CHP) with Incentive</i>	<i>SmartWay Heavy Truck Efficiency Loan Program</i>
<i>Tightened Residential Appliance Standards with Incentive</i>	<i>Tightened Office Equipment Standards with Efficient Use Incentives</i>		<i>Speed Limit Enforcement</i>



ARC Macroeconomic Impacts: >77,000 Net New Jobs in 2030

Macroeconomic Impacts	2010	2020	2030
Jobs (Actual)	16,200	37,300	77,300
Wages (Million \$2006)	\$517	\$1,169	\$3018
GRP (Million \$2006)	\$763	\$1,197	\$3056



Southern Potential Study - Portfolio of Energy Efficiency Policies

Residential Buildings	Commercial Buildings	Industry
Building Codes with Third-Party Verification	Tighter Commercial Appliance Standards	Industrial Assessments for Plant Utility Upgrades
Appliance Incentives and Standards	Commercial Retrofit Incentives	Industrial Process Improvement Policy
Expanded Weatherization Assistance Program		Combined Heat and Power Incentives
Residential Retrofit and Equipment Standards		



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