

State-Level Potential for Energy Efficiency in Florida and Texas

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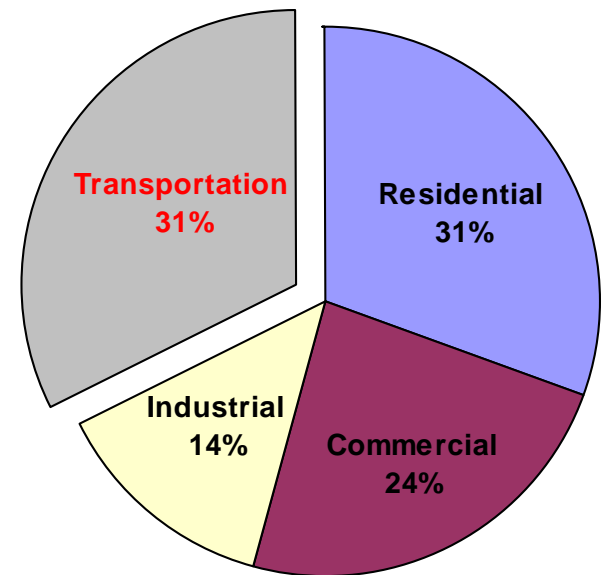
Project Overview and Goals

- Built analysis on past body of Energy Efficiency research – focus on impacts of a suite of policies
- Recently assembled teams of experts in Florida and Texas to supplement ACEEE skills
- Target legislative and gubernatorial actions

Scope of Studies

- Florida and Texas: Electricity efficiency only (not natural gas)
- Natural Gas: regionally specific
- Transportation – missing piece!

Florida Energy Consumption by Sector



Source: EIA 2003 State Energy Profiles

Efficiency and Renewable Energy Policies

Florida

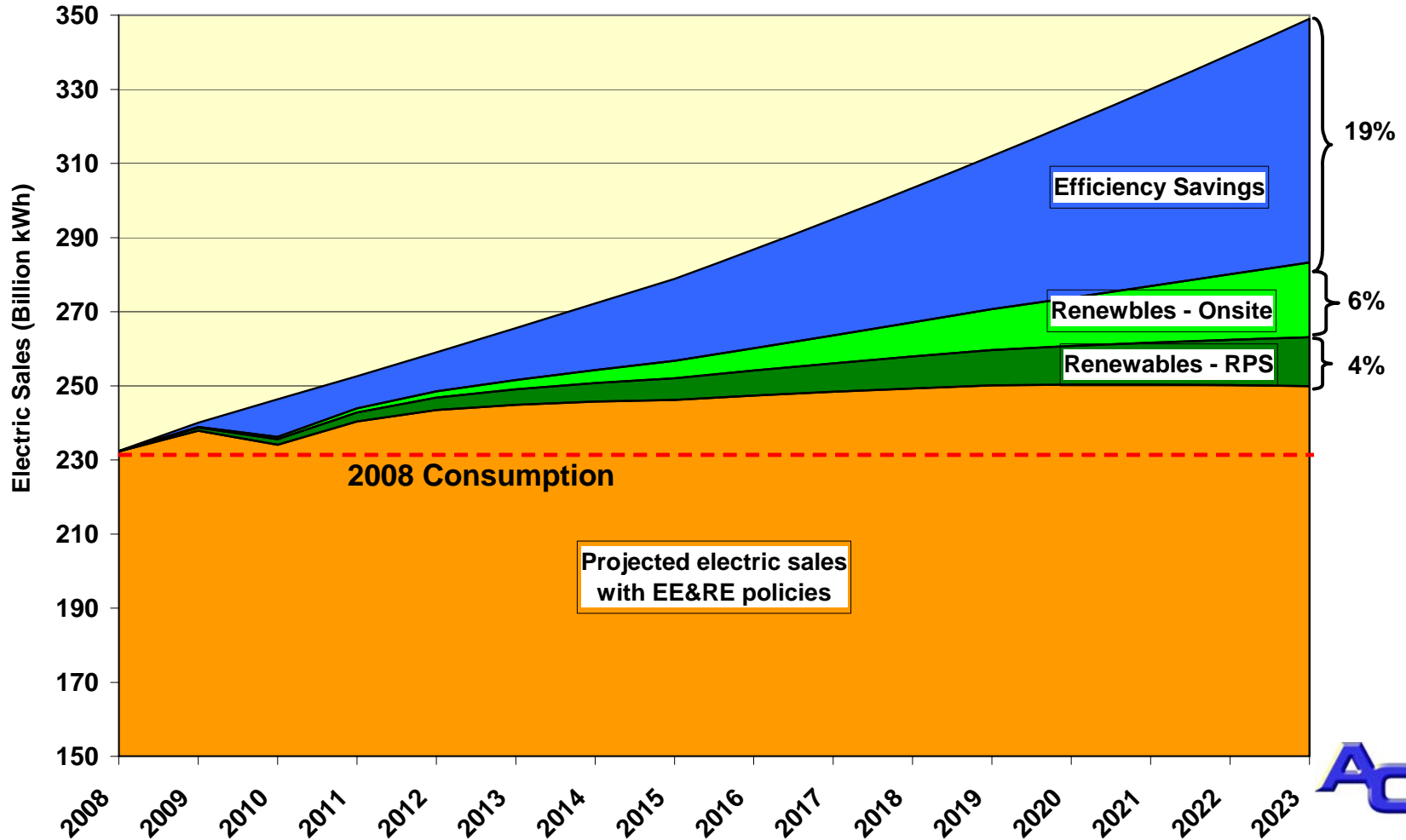
- Utility savings target
- Improved CHP policies
- More stringent building energy codes
- Advanced energy-efficient building program
- Public buildings program
- Appliance and Equipment Standards
- Industrial competitiveness initiative
- Expanded RD&D efforts
- Short-term public ed & rate incentives
- State RPS
- Onsite renewable energy incentives

Texas

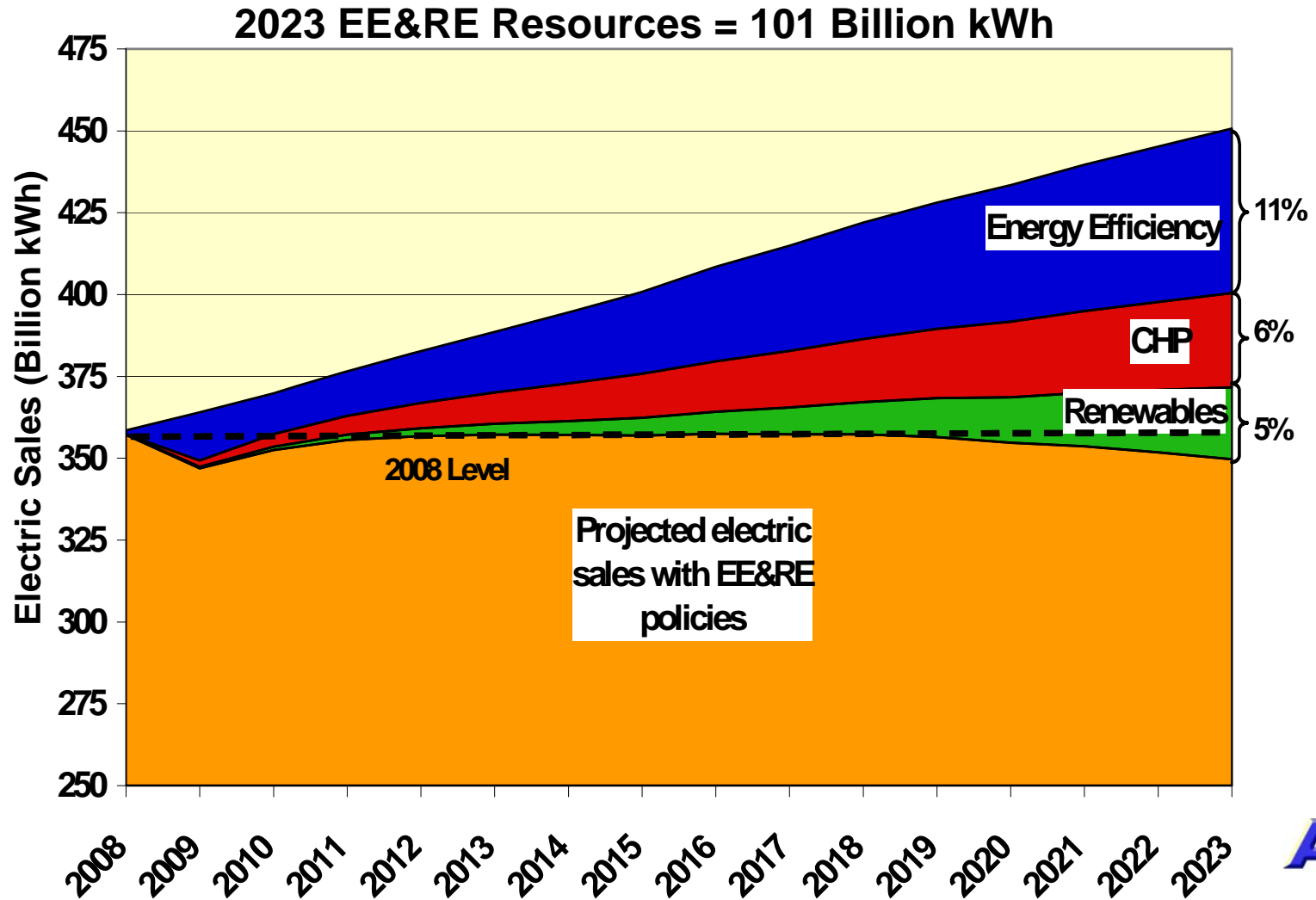
- Expanded Energy Efficiency Improvement Program (EEIP)
- CHP capacity target
- More stringent building energy codes
- Advanced energy-efficient building program
- Public buildings program
- Appliance and equipment standards
- Short-term public ed and rate incentives
- Onsite renewable energy incentives
- Increased demand response programs

Florida

2023 EE&RE Resources = 99 Billion kWh

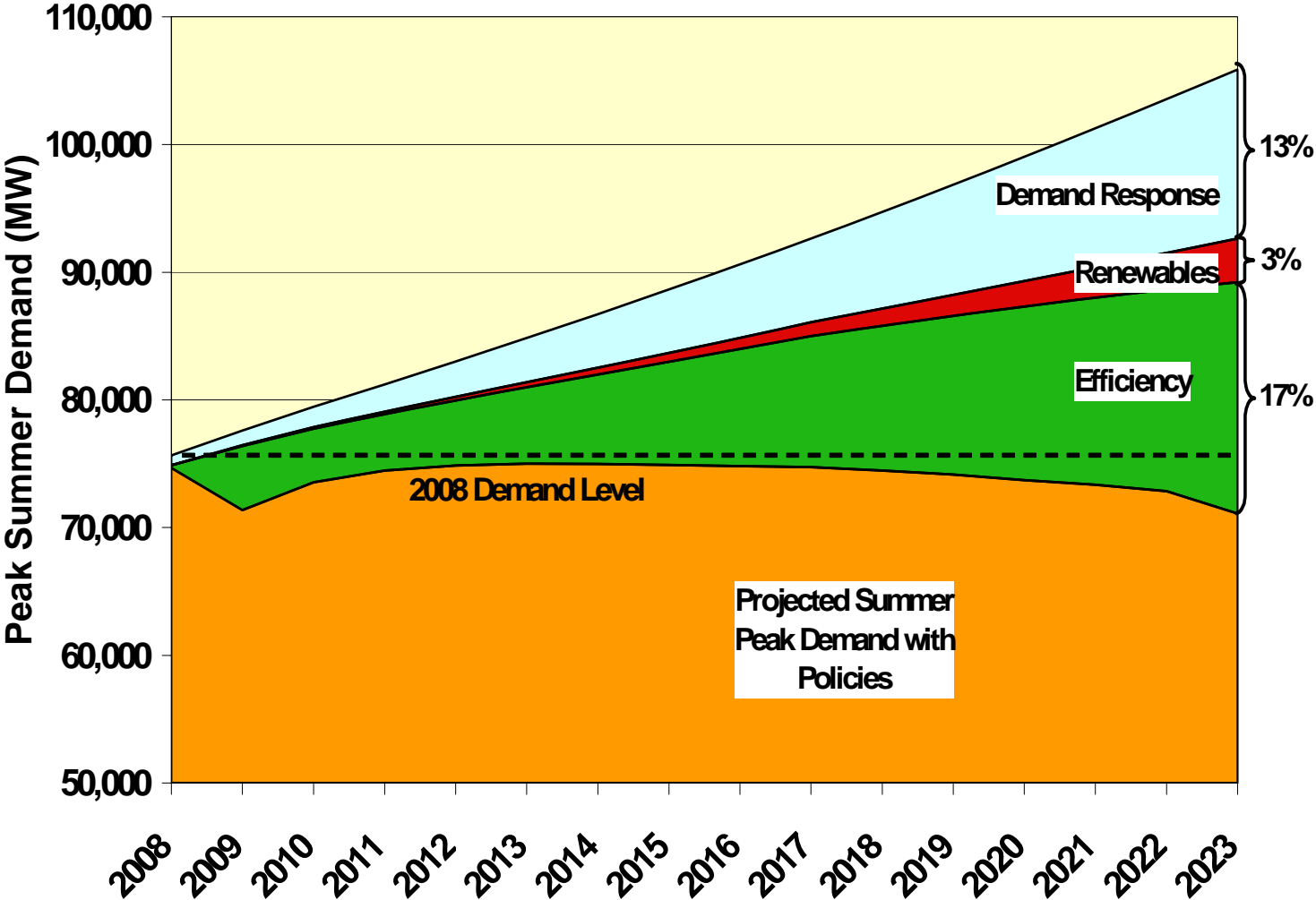


Texas



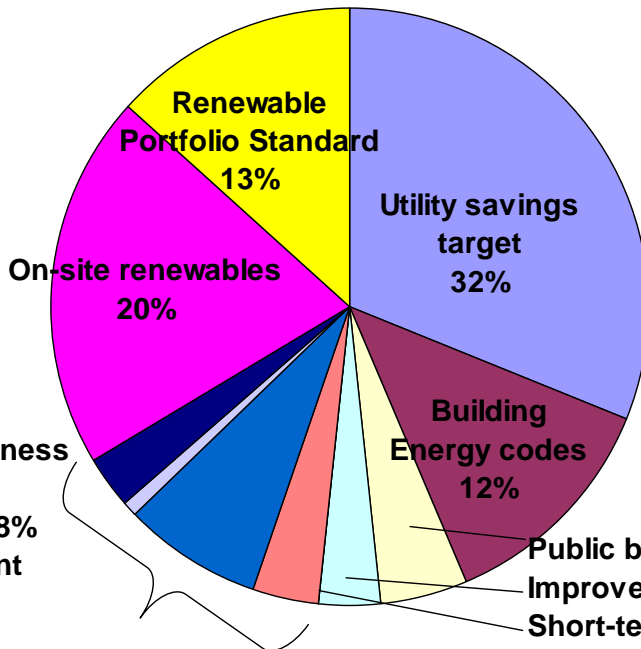
Texas Summer Peak Demand

2023 EE&RE Capacity ~ 35,000 MW



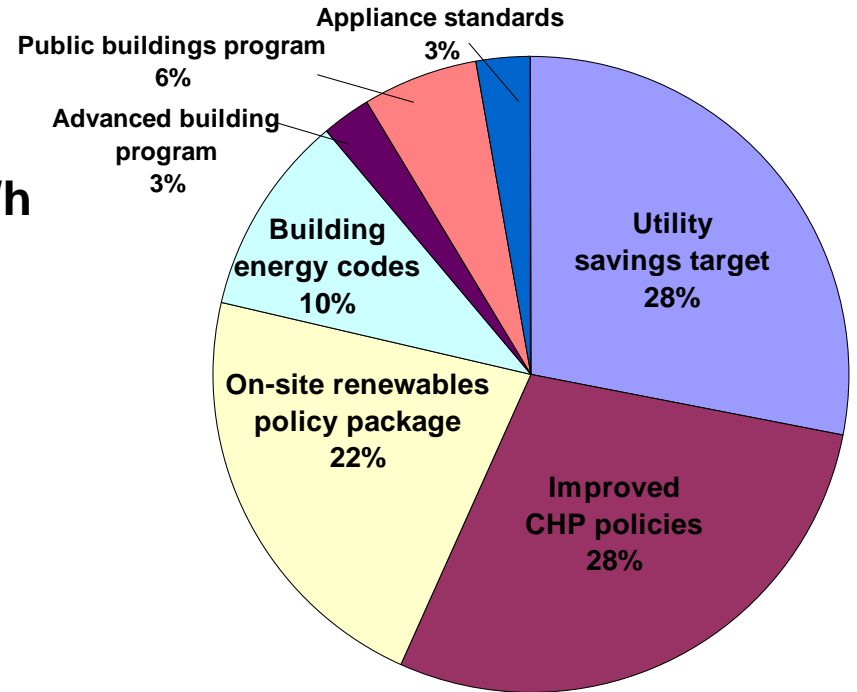
EE/RE Resources in 2023

Florida Resources = 99 Billion kWh



Expanded RD&D: 3%
 Industrial Competitiveness Initiative: 1%
 Advanced Buildings: 8%
 Appliance & Equipment Standards: 4%

Texas Resources = 101 Billion kWh



Impacts of Studies

Florida:

- Embraced by governor as part of climate response
- Governor vetoed legislative energy bill – not bold enough
- Some measures being implemented by executive order or PSC action
- Planning underway for 2008 legislative session

Texas:

- Some measures implemented in HB 3693
- Others under consideration for local implementation
- Planning underway for 2009 legislative session

What worked? What didn't?

- Advanced stakeholder engagement – develop policy suite, develop messages
- Professional media outreach in Florida – timing and focused delivery
- External funding in Florida allowed level of independence – provided access
- Focus on policies vs. max-achievable effective
- Economic potential confused many policy makers and press
- Link with enviro-groups in Texas compromised messaging

Key Stakeholder Engagement

- Environmental groups
- Large consumers
- Consumer groups
- Utility interest
- Government and regulators

Importance Economic Impacts

- Important message in outreach – it's about jobs:
 - Efficiency is labor-intensive; supply is capital-intensive
 - More work done locally
 - Need slow, steady ramp-up of efficiency policies

Florida EE Financial Impacts (Millions of \$2004)	2013	2018	2023
Net Consumer Savings	337	2,103	4,827
Net Cumulative Energy Savings	269	6,804	25,093
Employment Impacts	2013	2018	2023
Jobs (Actual)	(569)	7,336	12,641

Global Climate Change Context

- Carbon is hot!!
- Energy Efficiency and Renewable Energy are tangible responses to climate change

Florida EE Avoided Emissions *	2013	2018	2023
SO ₂ (thousand short tons)	3.7	8.9	14.7
NO _x (thousand short tons)	2.3	5.5	9.9
CO ₂ (million metric tons)	7.0	17.9	33.5

Where to go from here?

- Demand for much more state-level analysis
- ACEEE has identified 18 states
- Coordinated national effort that brings together a team of analysts and resource experts
- Develop consistent analysis format – focus on policies
- Identify state-level collaborators
- Need multi-year funding commitment

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