

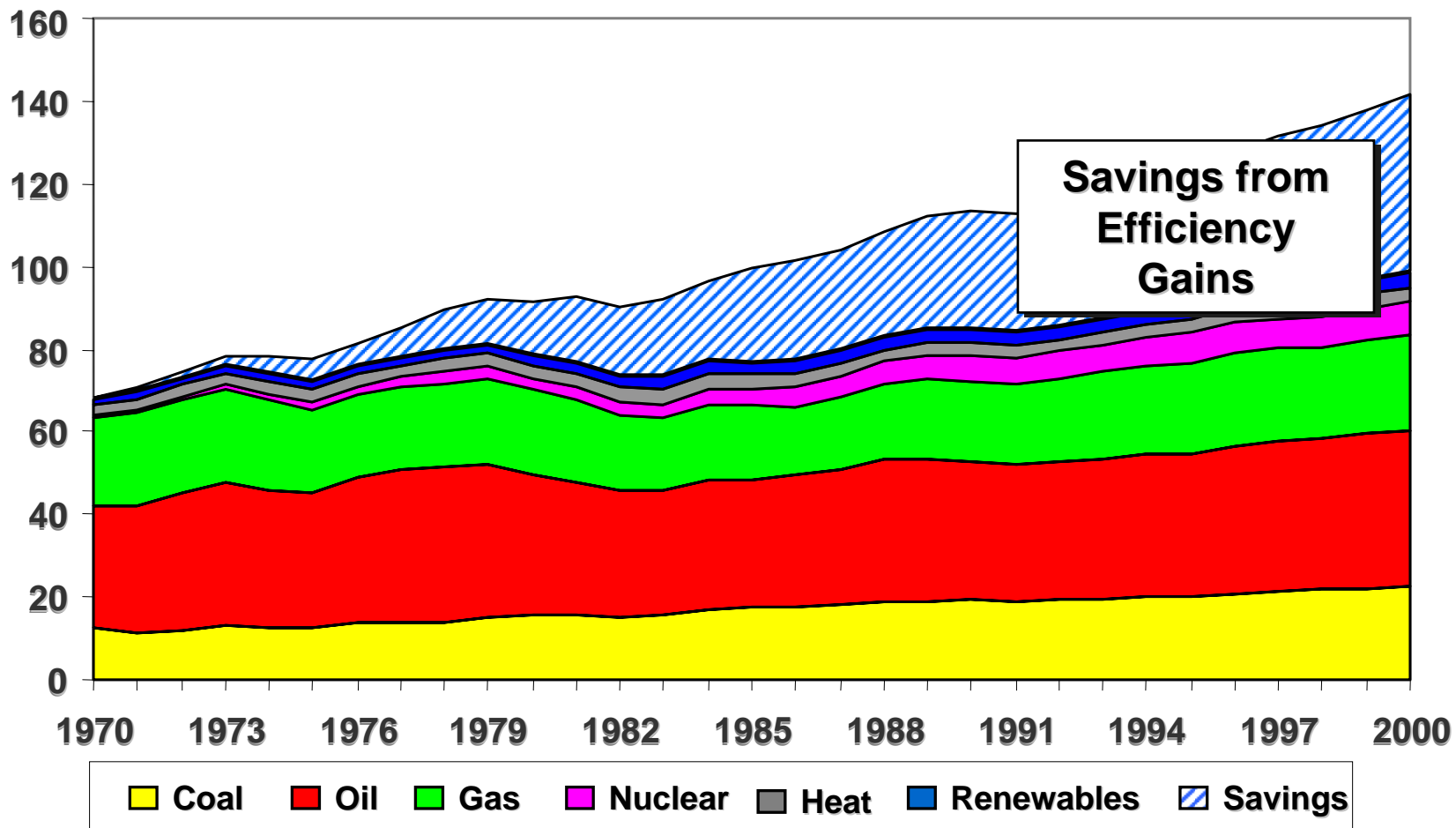
SEU Task Force – November 28th Meeting

State Energy Efficiency & Renewable Energy Services Best Practices



Center for Energy and Environmental Policy

U.S. Energy Supply by Fuel (Quadrillion Btu) 1970-2000

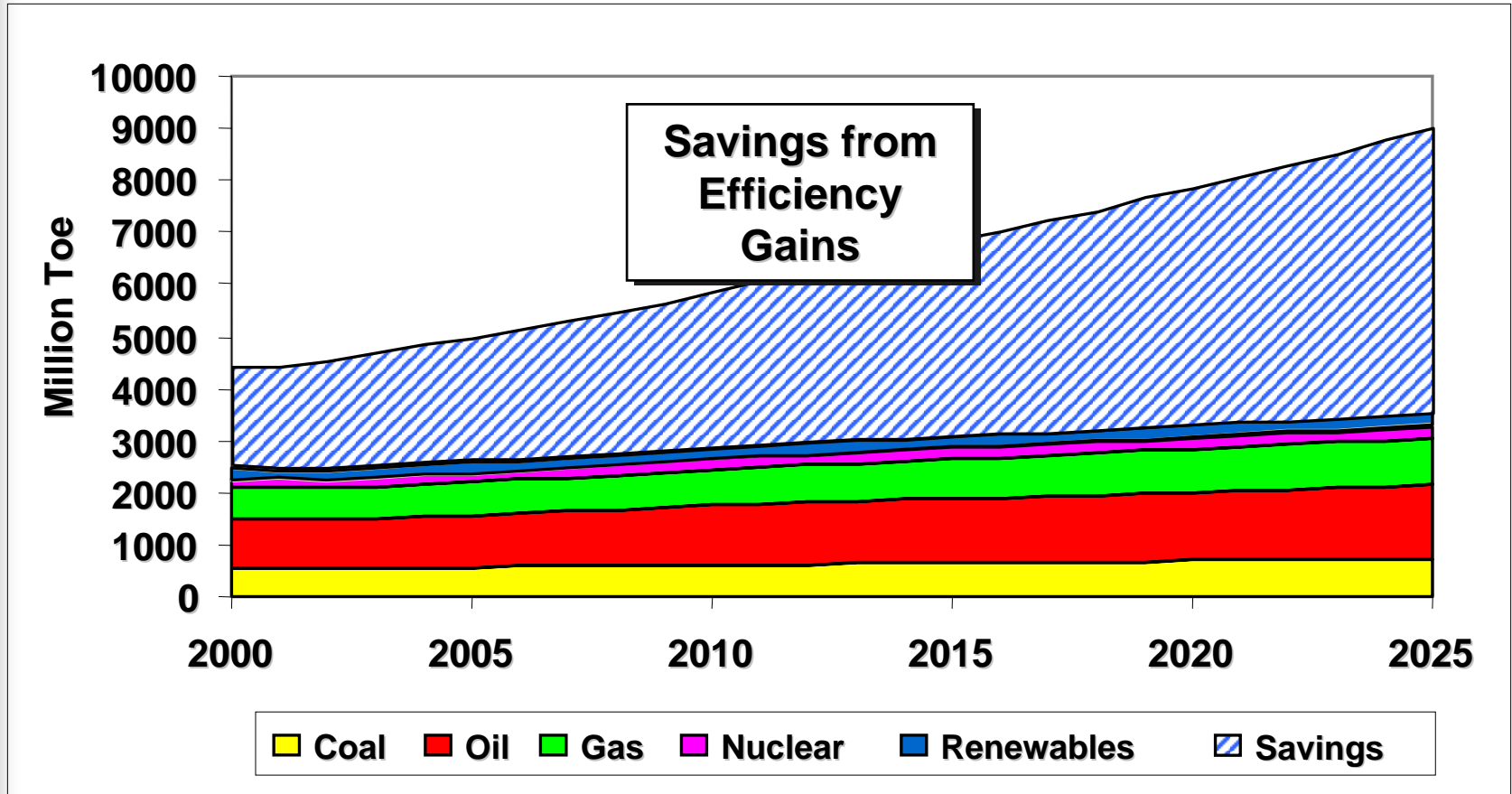


Note: Data from U.S. EIA, *Annual Energy Outlook* (2003)



Center for Energy and Environmental Policy

Projected U.S. Energy Mix by Source (Mtoe)



Note: Data from U.S. EIA, *Annual Energy Outlook* (2003)



Center for Energy and Environmental Policy

Energy Efficiency

Common Services

- Appliance rebates
- Home energy audits
- Low-interest loans
- Green building certification
- Appliance and building standards
- Technical assistance specific to end-user

Targeted Markets

- Residential buildings
- Commercial buildings
- New construction
- Low-Income residential
- Agriculture/industry
- Public facilities



Energy Efficiency – Policy Tools

Incentives

- Leverage private investment
- Create technology shift
- Improve private EE investment payback
- Increase old appliance turnover rate

Standards

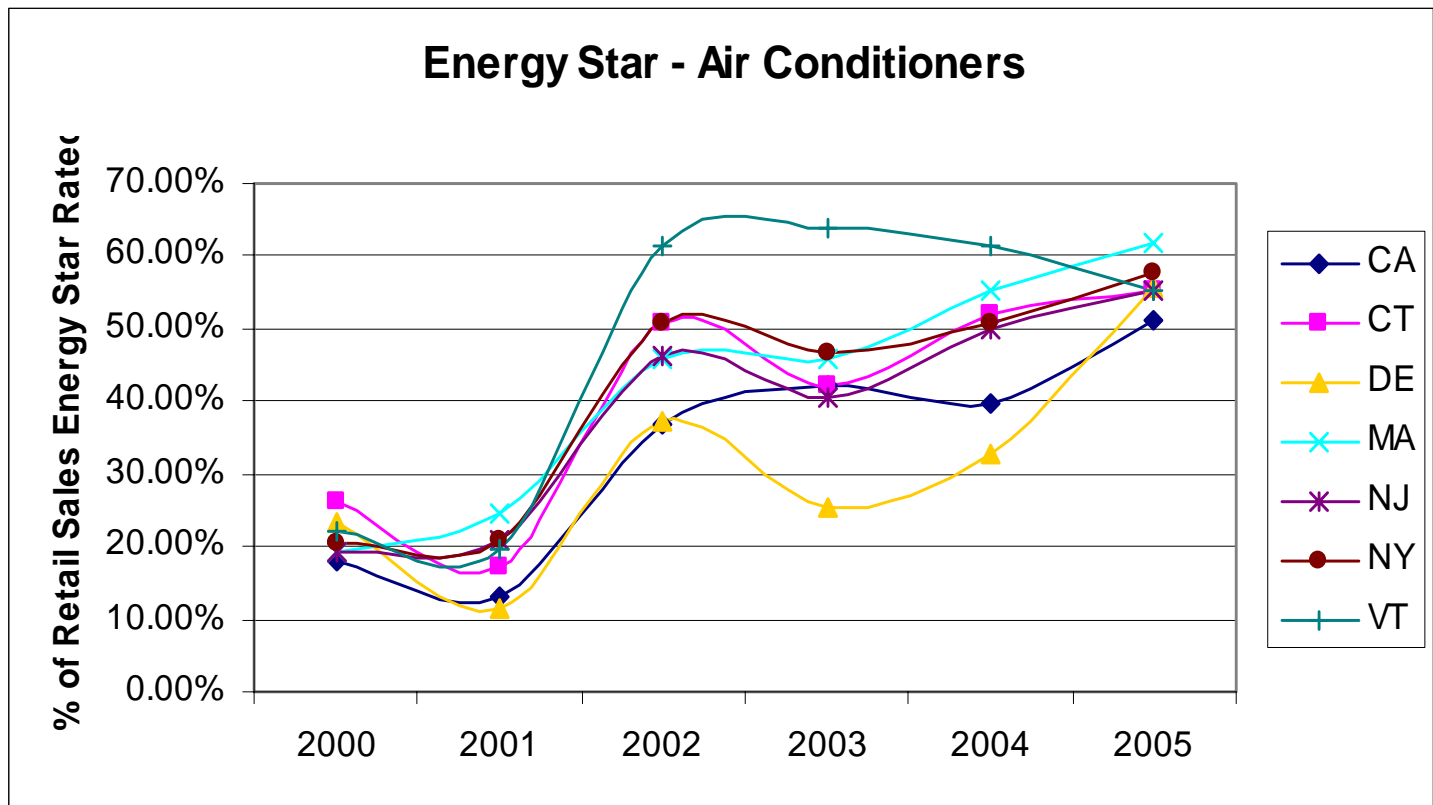
- Create technology shift
- Improve effectiveness of incentives
- Capture ‘lost-opportunity’ markets – e.g., new construction
- No direct cost to State



Energy Efficiency – Results

Results of EE Incentive Programs

- Increased appliance turnover rate
- Increased Energy Star Purchases



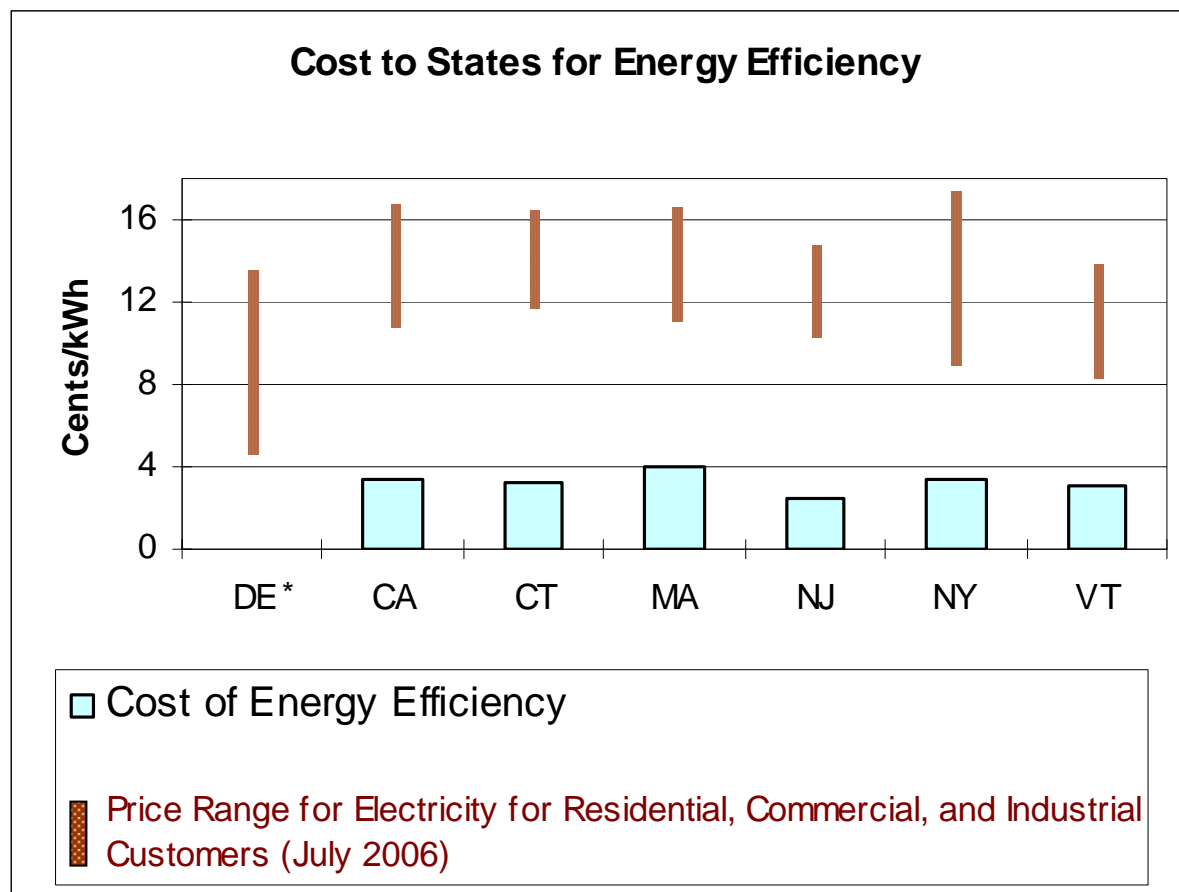
Source: energystar.gov



Center for Energy and Environmental Policy

Energy Efficiency - Results

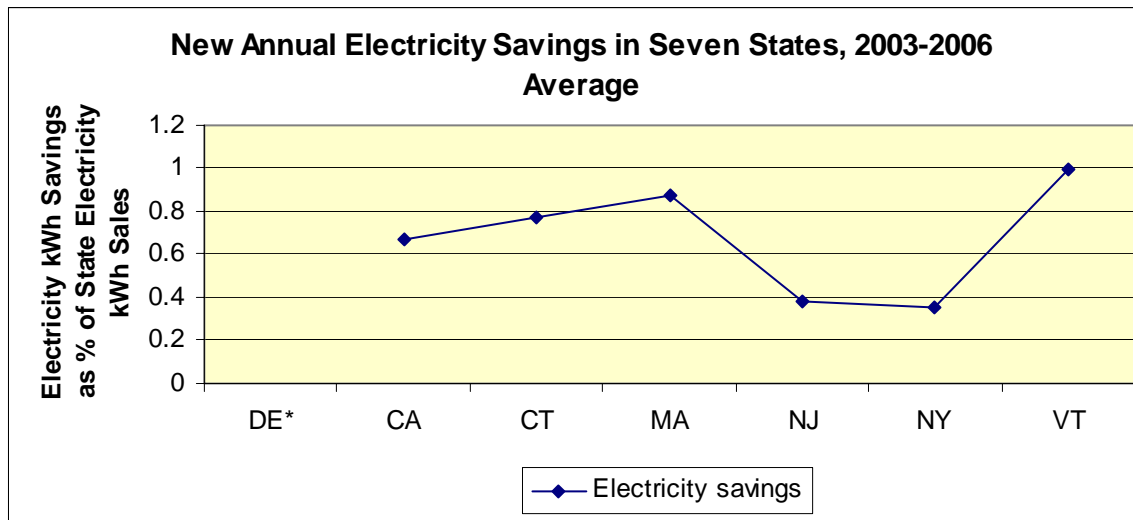
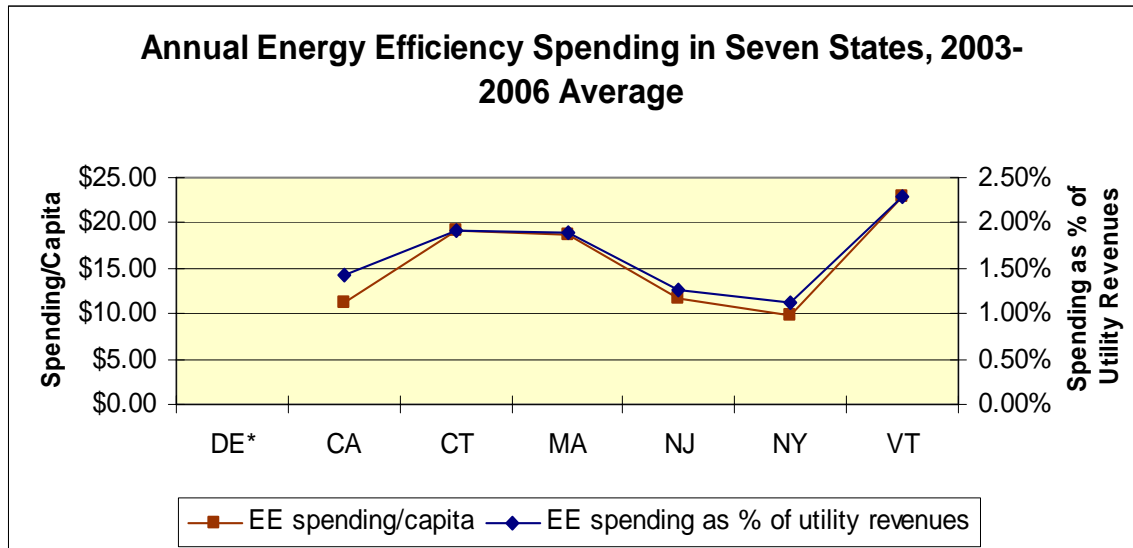
Cost of Energy Efficiency vs. Price of Electricity



* No data available. Delaware did not fund energy efficiency until July 1, 2006.



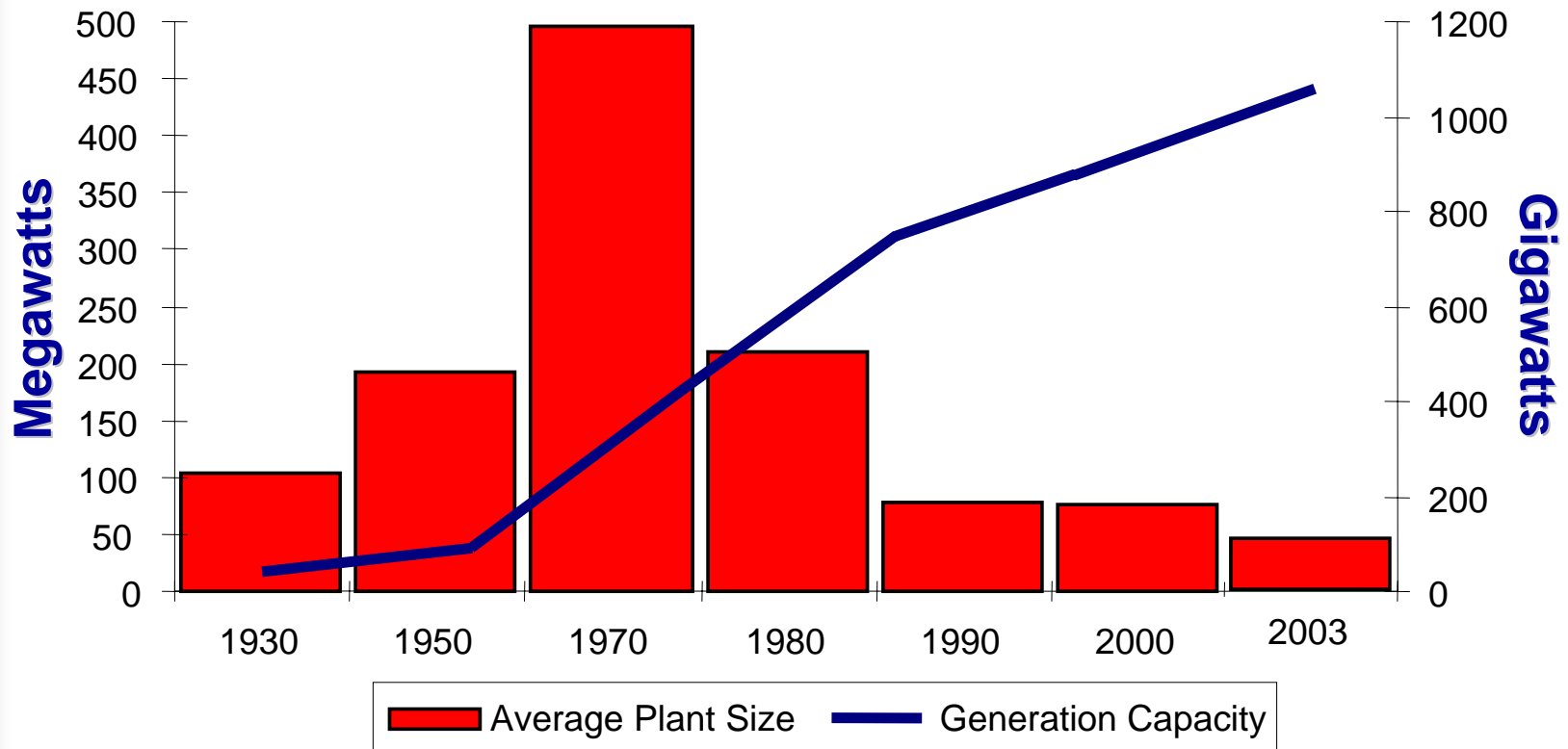
Energy Efficiency Spending and Savings



* No data available. Delaware did not fund energy efficiency until July 1, 2006.



U.S. Power Plant Capacity

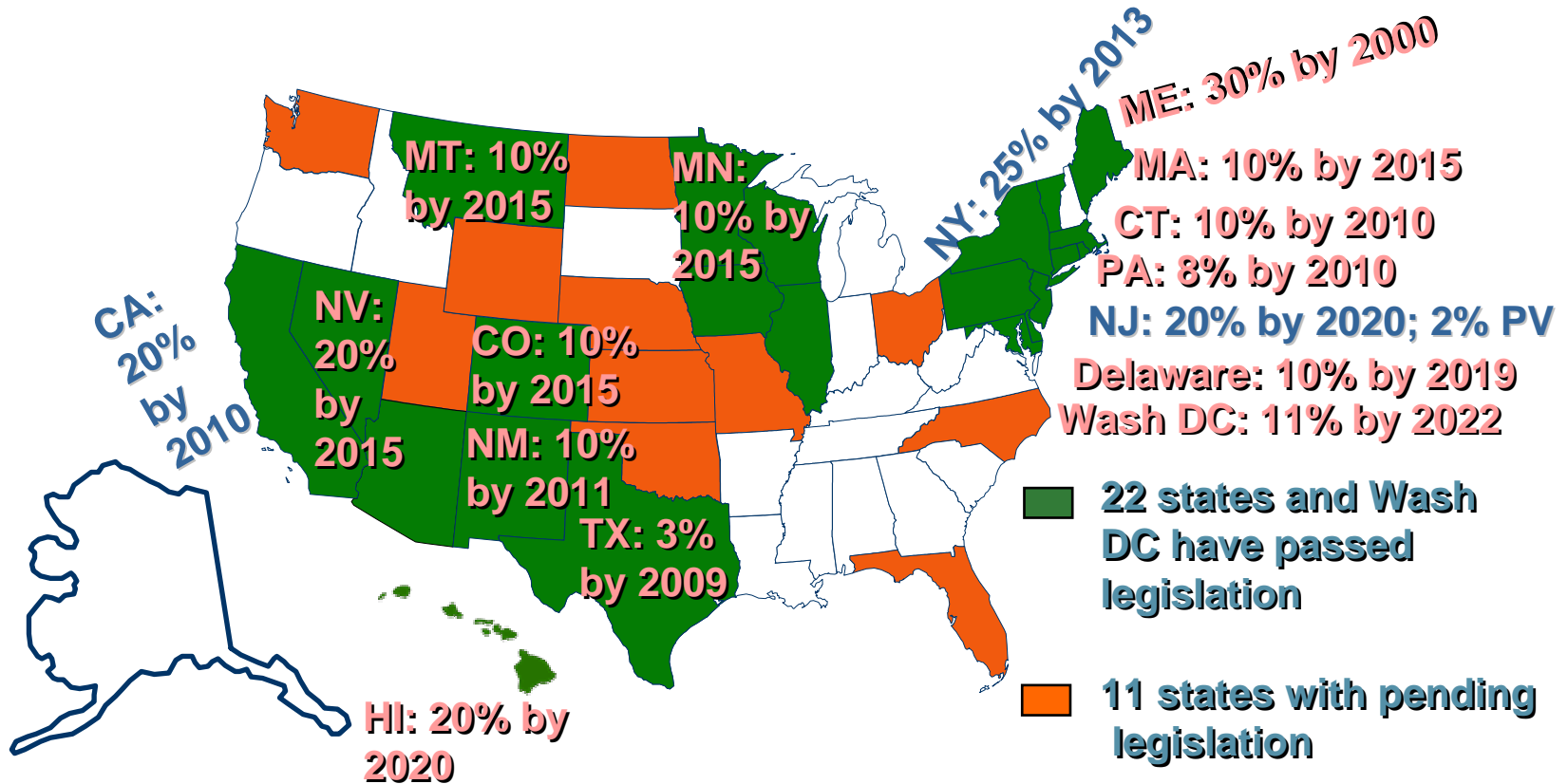


Sources: T. R. Casten (1995) *The Energy Daily* (September 7), Hirsh. 1999: 274; and *EIA Electric Power Annual* (1981, 1990, 2000, 2003)



Center for Energy and Environmental Policy

State Renewable Portfolio Standards in the U.S.



Sources: CEEP Survey, 2006; UCS, 2005; DSIRE, 2006

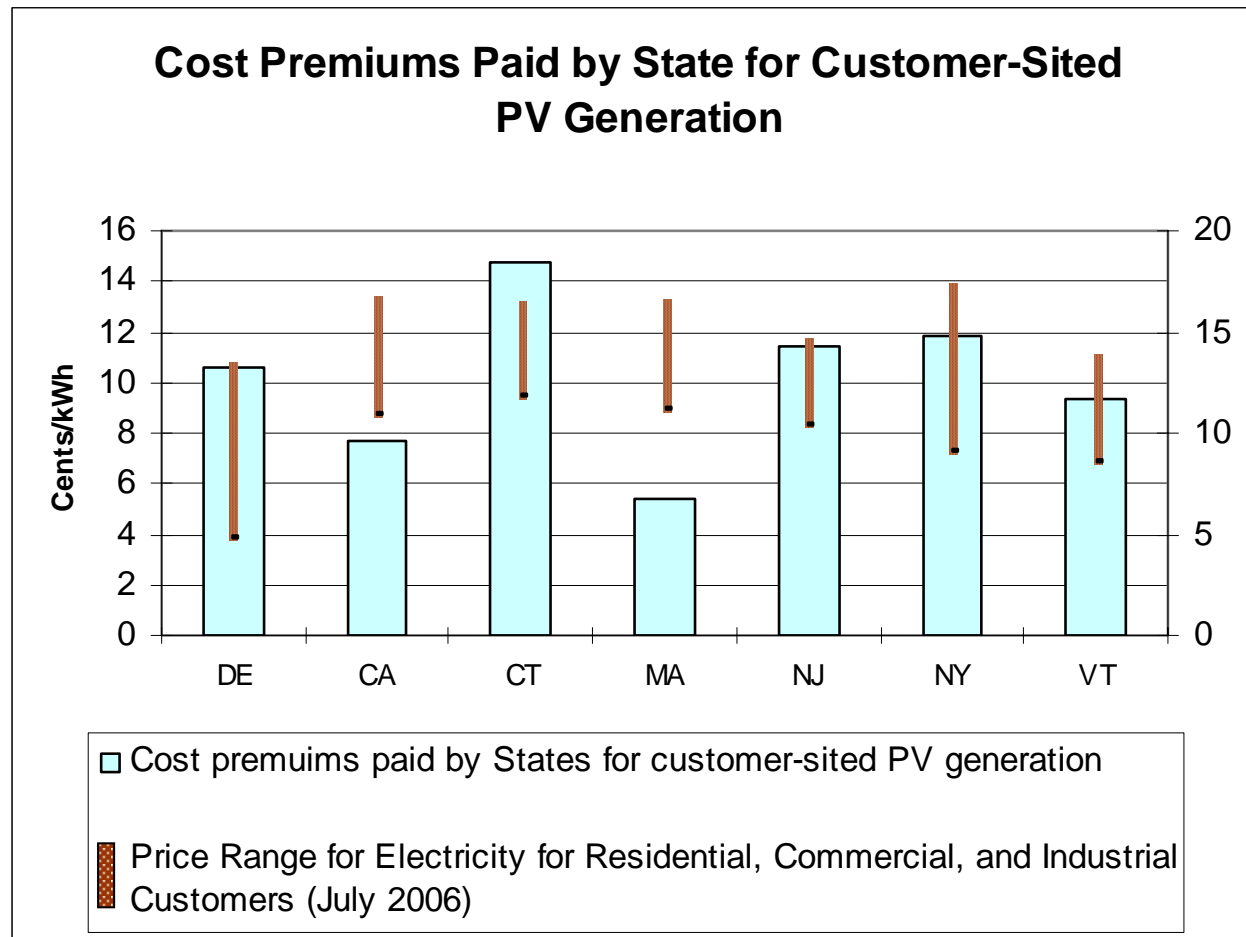
29 states have completed Climate Change Action Plans (US EPA, 2006)



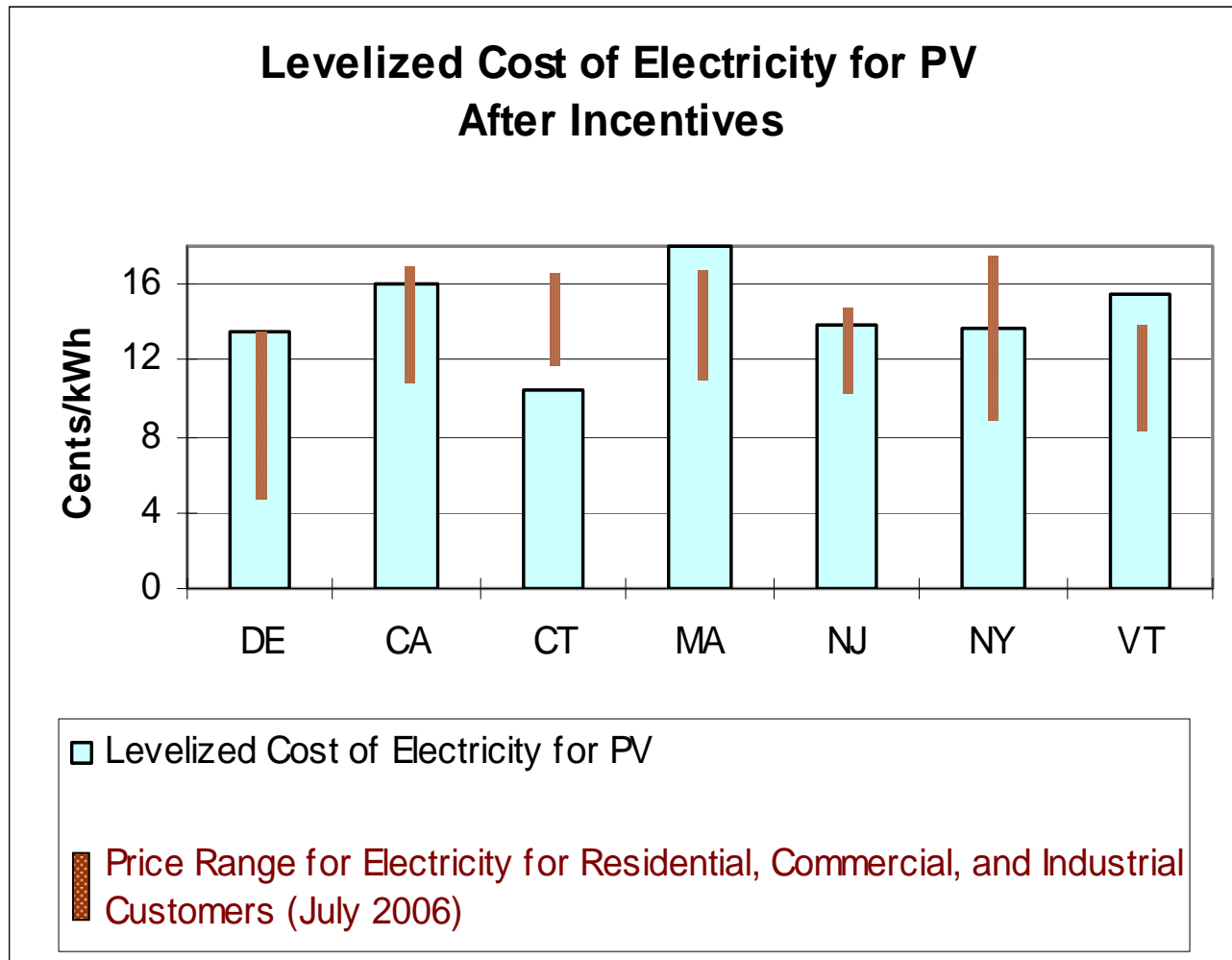
Center for Energy and Environmental Policy

Renewable Energy

Cost to State for Incentivizing Customer-Sited PV Generation



Renewable Energy – Effect of Incentives



Renewable Energy

Incentive Types

- Rebates
- Performance incentives

State PV Incentives	
State	Rebate Levels (Nov. 2006) (\$ /Watt)
CA	\$2.60
NJ	\$2.00 - \$4.40
DE	~\$3.50-\$4.00 (50% of System Cost)

