

# *Utility Savings Initiative Overview*

## **DOE TAP Webcast 17: State Policies to Encourage Green Building Principles**

**December 17, 2008**

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**State Energy Office  
NC Department of Administration**

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# Utility Savings Initiative History

- Created in 2002 by Governor Michael F. Easley
- Commission to Promote Government Efficiency and Savings on State Spending
- Memorandum to Council of State
- State Energy Office tapped to guide agencies and administer the program

# Session Law 2007-546: Existing Buildings

- Applies to state agencies and universities
  - 20% reduction in energy consumption by 2010
  - 30% reduction in energy consumption by 2015
  - Implement conservation measures for water and energy
  - Management plan and consumption/cost data for water and energy submitted annually
  - Baseline of 2002-2003 fiscal year
- Applies to community colleges
  - Implement conservation measures for water and energy
  - Submit annual consumption/cost data

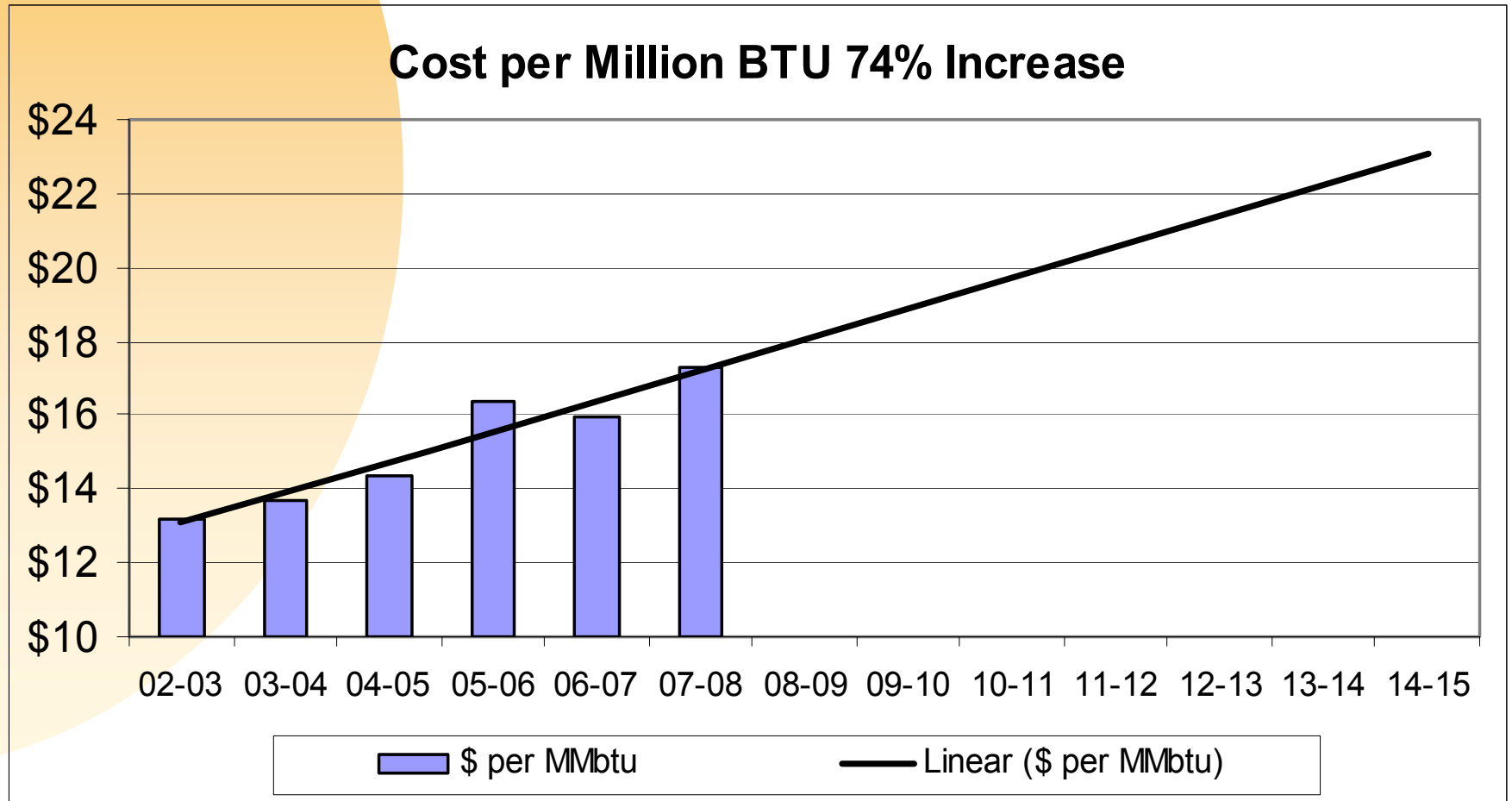
# Session Law 2008-203: New Construction

- Applies to state agencies, universities, and community colleges
- 30% greater energy efficiency than ASHRAE 90.1-2004
- 20% greater energy efficiency than ASHRAE 90.1-2004 for major renovations
- 20% less indoor potable water than 2006 NC Plumbing Code
- 50% less outdoor potable water for landscaping use
- Life cycle cost analysis and commissioning required
- Meter each utility in each building

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# Utility Savings Initiative Trends

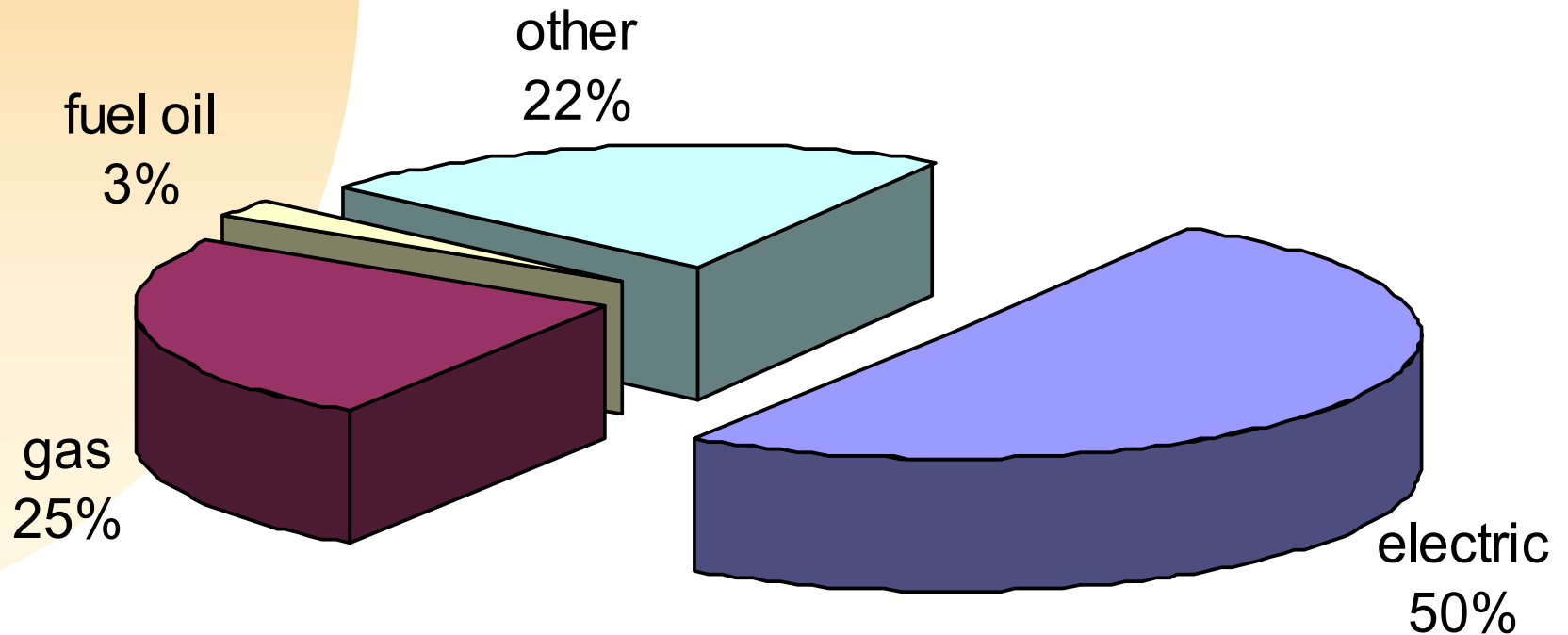


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# Utility Savings Initiative Trends

## Cost Distribution for Energy Sources

Reported Dollars 2007-08



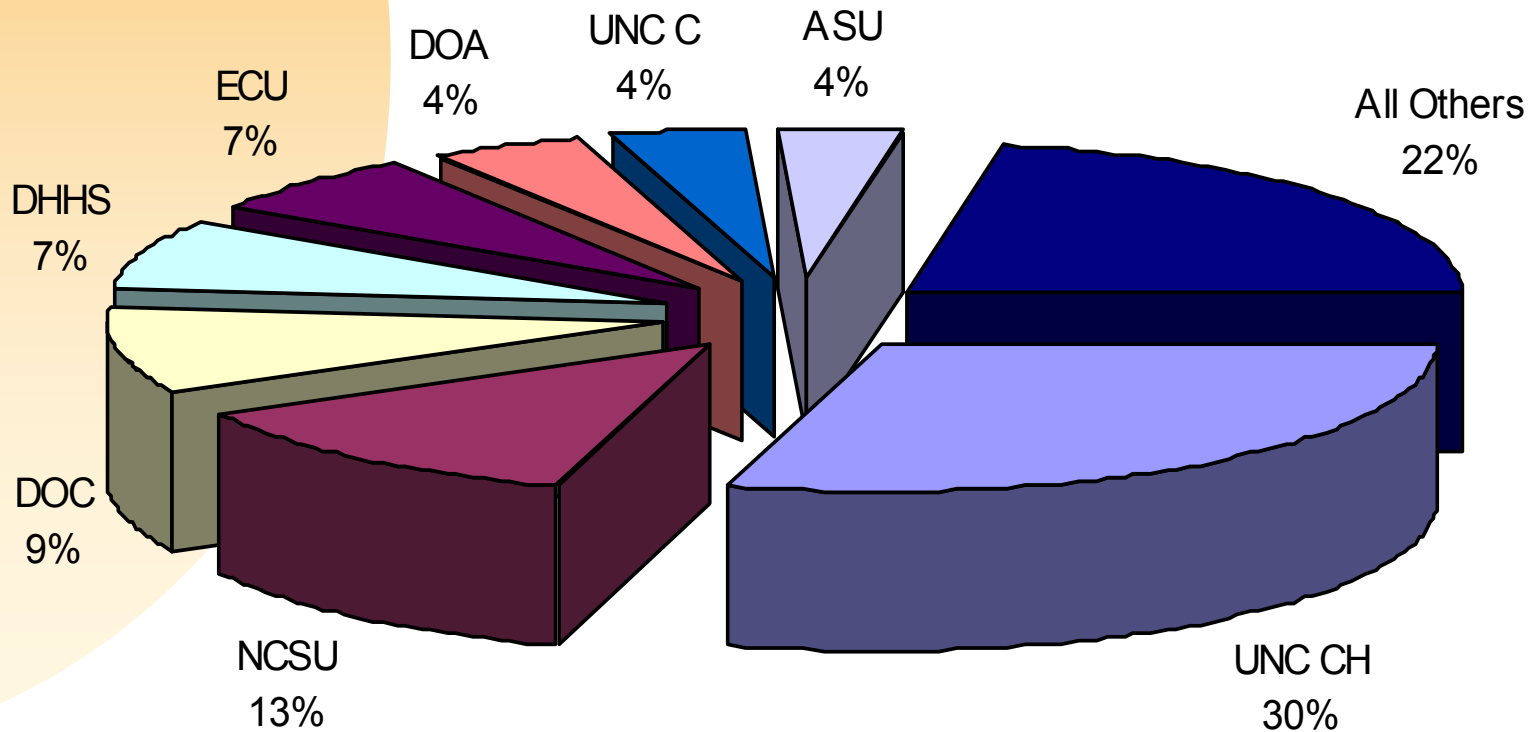
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# Utility Savings Initiative Trends

## Cost Distribution Universities and Agencies



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# The Utility Savings Initiative

- Lead-by-example program for state agencies and universities
- Encompassing
  - Facilities staff
  - Operations staff
  - Employees
  - Faculty and students
- Comprehensive
  - Utility Accounting
  - Operations & Maintenance
  - Awareness and Training
  - Performance Contracting

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# The Utility Savings Initiative

## ➤ Utility Accounting

- reviewing and tracking monthly utility bills
- resolving billing errors
- negotiating and optimizing rates
- \$8.2 million since the program's inception

## ➤ Status

- Annual consumption and cost report to SEO

# The Utility Savings Initiative

- Operations and Maintenance
  - facility audits
  - identifying possible projects
  - incentive/assistance programs
- Status
  - 30% of state gross square footage audited
  - Energy Efficiency Reserve Fund

# The Utility Savings Initiative

- Awareness and Training
  - Training for Facilities Staff
    - EMD courses
    - Boiler Technical courses
    - HVAC Technical training
  - Training for Operations Staff
    - SEP workshops
  - Training for employees
    - CAT Teams
- Status
  - All programs still active

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# The Utility Savings Initiative

## ➤ Performance Contracting

- Large Capital projects, inadequate R&R monies
- State pre-qualified ESCOs
- Templates for RFP, IGA, ESA
- \$42 million in approved projects \$53 million pending contracts

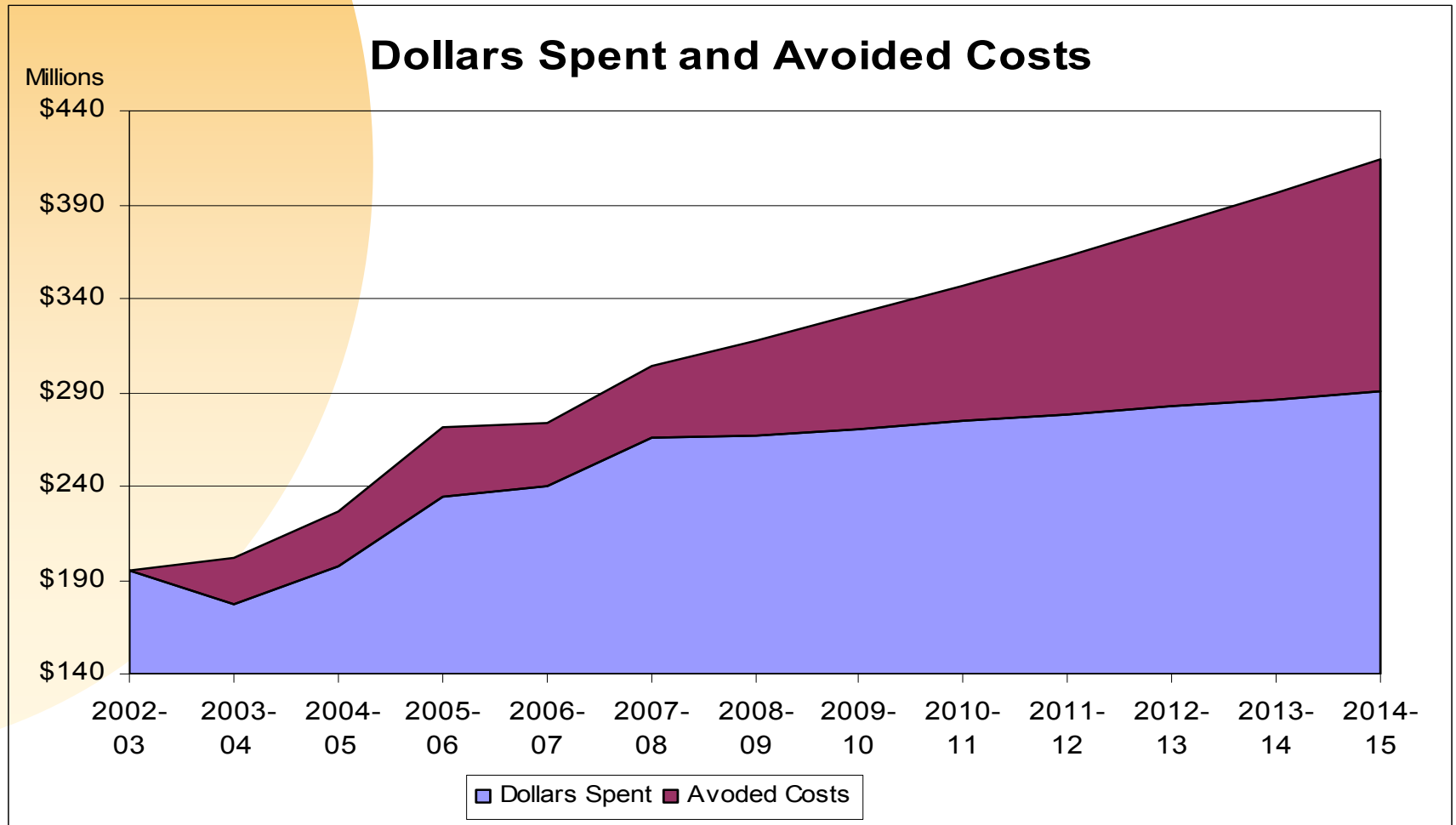
## ➤ Status

- N.C. Museum of Art 60% savings
- 15 universities and 2 departments in queue for PC

# Build on Success

- Energy managers to be hired by each agency
- Strategic plan to reach 30% by 2015
- FCAP USI collaboration on building evaluations
- Expansion of program to community colleges, public schools and local governments
- \$5 million Energy Efficiency Reserve Fund

# It Is Working



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