

Utility Savings Initiative Overview

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

December 17, 2008

Chuck Sathrum

**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

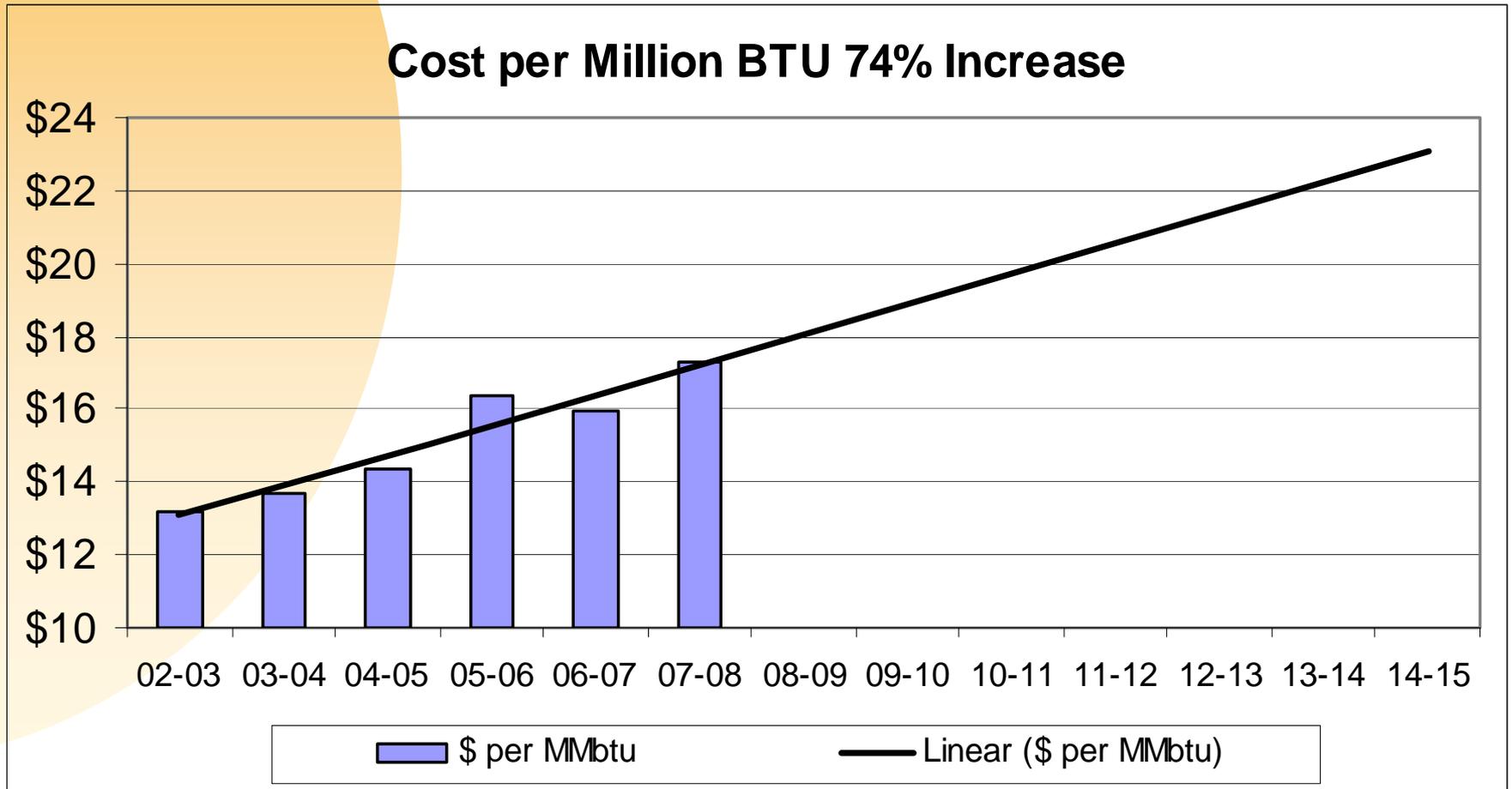
Session Law 2007-546: Existing Buildings

- 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

Utility Savings Initiative Trends

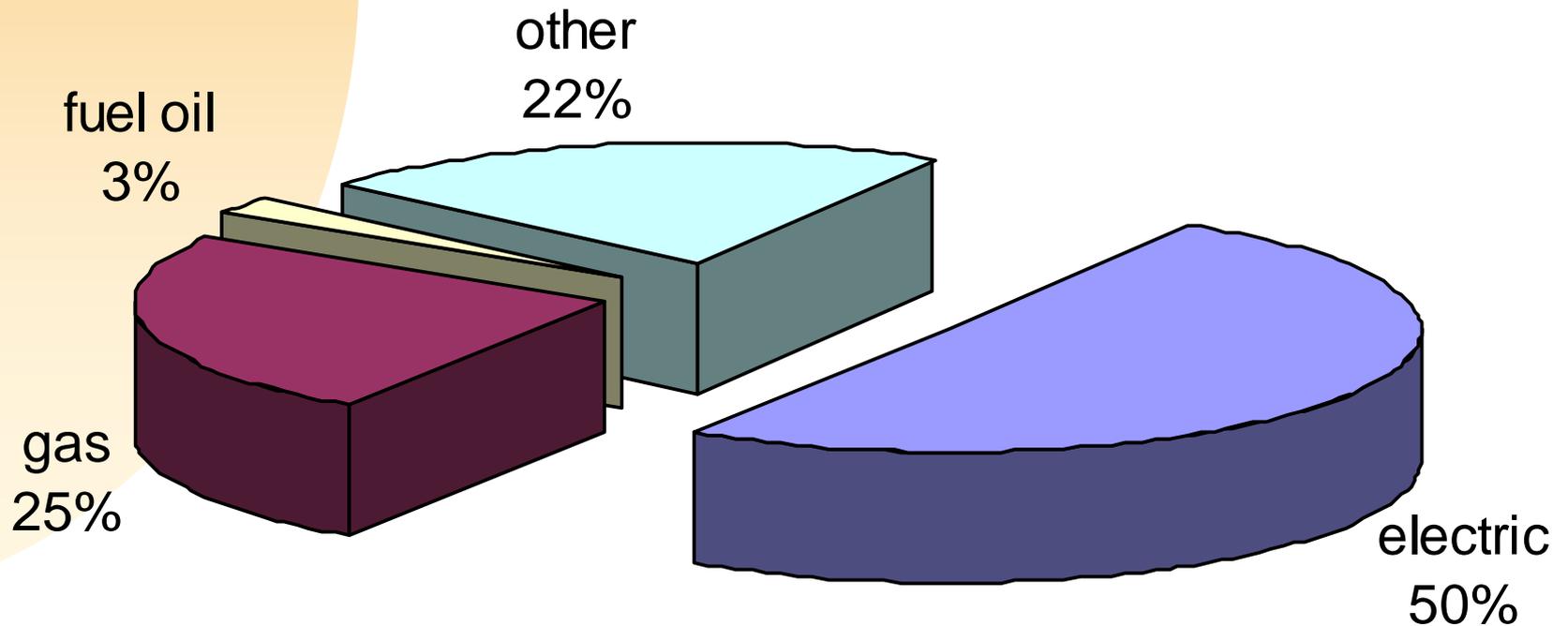


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Utility Savings Initiative Trends

Cost Distribution for Energy Sources

Reported Dollars 2007-08



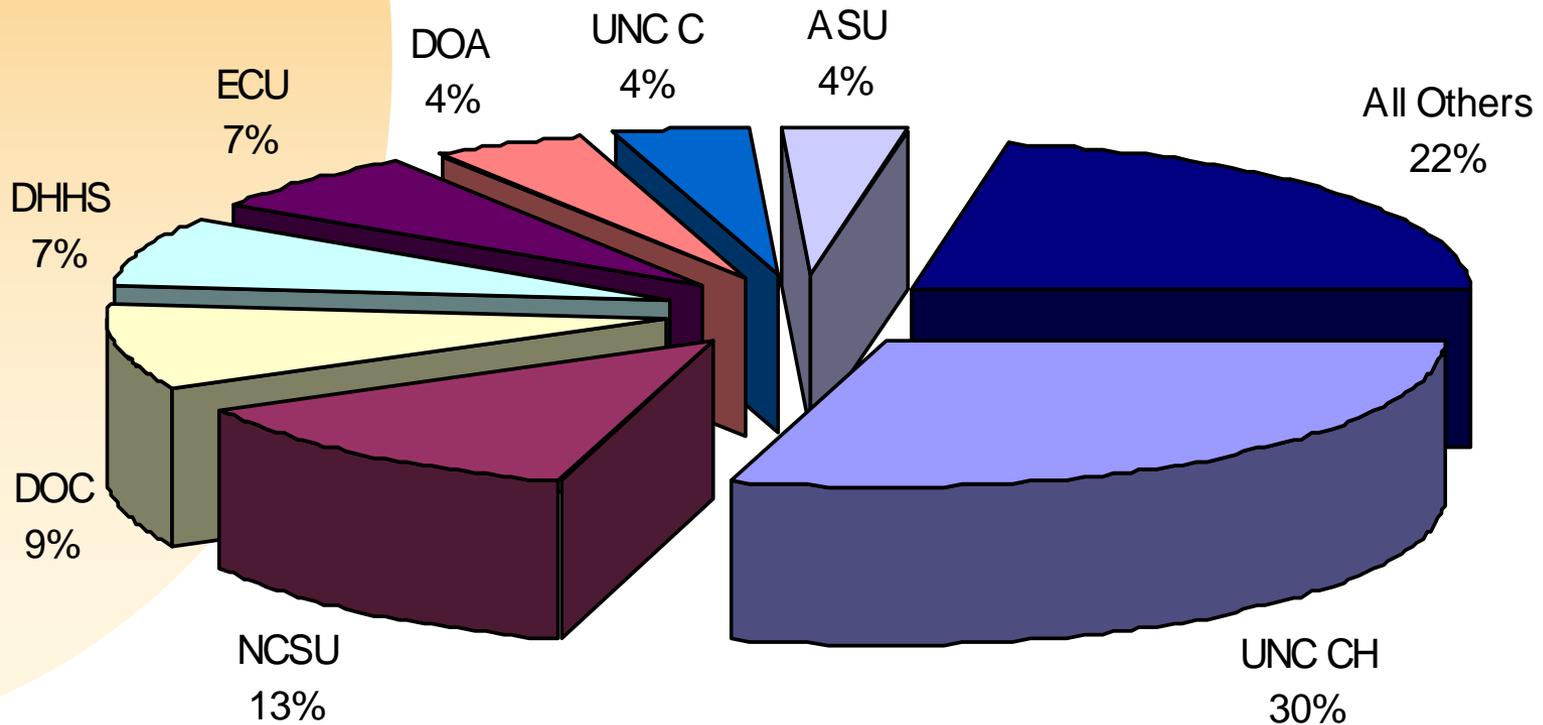
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Utility Savings Initiative Trends

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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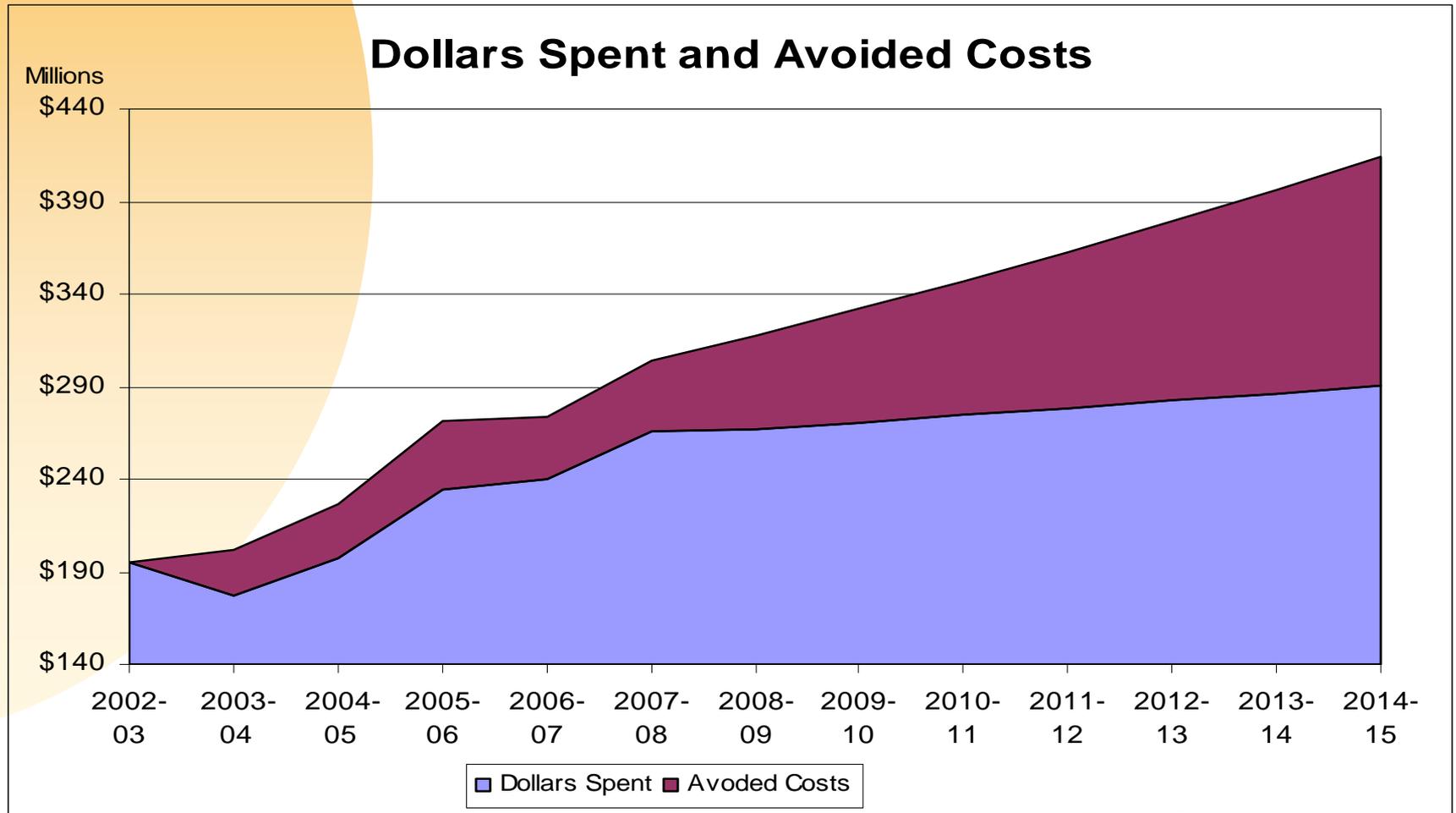
The Utility Savings Initiative

- 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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USI Contacts...

- Len Hoey
919 733 1891
len.hoey@doa.nc.gov
- Chuck Sathrum
919 715 1158
charles.sathrum@doa.nc.gov
- Reid Conway
828 670 3389
reid.conway@doa.nc.gov