

University of Colorado Denver

Sustainability



University of Colorado
Board of Regents Capital
Subcommittee
November 6, 2008

University of Colorado Denver

Sustainability

University of Colorado Denver Goals

- Implement American College and University President's Climate Commitment (ACUPCC)
 - Implement Executive Order D0012 07: Greening of State Government
 - University Strategic Priority 7: Secure the resources to achieve our vision, while being responsible stewards of those resources
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Sustainability Strategy

Progress on ACUPCC

- Formation of Campus Council on Sustainability
- Chose initial actionable items
 - LEED Building Policy for New Construction (SB 57)
 - Public Transportation Subsidy (RTD)
 - Energy Star Purchasing Preference
- Completed Greenhouse Gas Inventory
- Developing Carbon Neutrality Plan due September 15, 2009

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Sustainability Strategy

Progress on Exec Order D012 07

- CCOS and Sustainability Officer to track progress and report to Greening of Government Program Director
- Work with Governor's Energy Office on Energy and Water Reduction Goals
- Begun Technical Energy Audit of worst performers
- Expanded paper, plastic, glass and cardboard recycling
- Reduction in fleet vehicles

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Resource Savings from Efficiency Measures

- Replace heat pumps: save 200,000 gallons of water per year
- Water treatment at AMC central utility plant: save 9 million gallons of water per year
- Building 500 Re-commissioning: \$55k per year with 0.2 year payback
- RC2 Evaporative Cooling: \$133k per year with 1.2 year payback
- RC2 Energy Recovery System: \$437k per year with 2.7 year payback

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Sustainability Strategy

Campus Council on Sustainability

- Charged with guiding development of plan to meet requirements of ACUPCC and the Greening of Government Executive Order
 - Representatives include faculty, administrative staff, graduate and undergraduate students
 - Chaired by Asst. Vice Chancellor of Facilities Projects and Asst. Vice Chancellor of Facilities Operations
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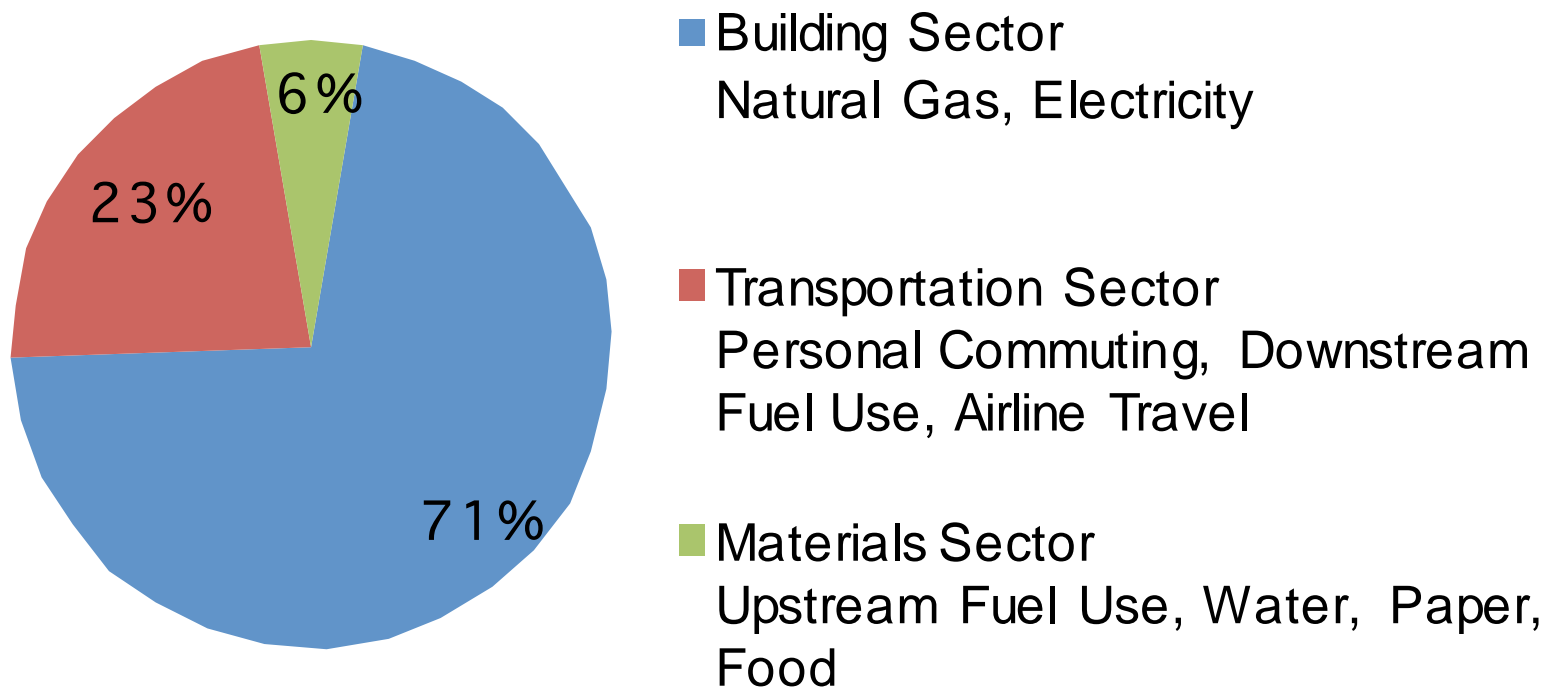
Sustainability Strategy

Campus Council on Sustainability

- Organized to create comprehensive plan for campus sustainability commitments
 - Policies Working Group
 - Buildings Energy and Efficiency Working Group
 - Sustainability Culture Working Group
 - Funding Mechanisms Working Group
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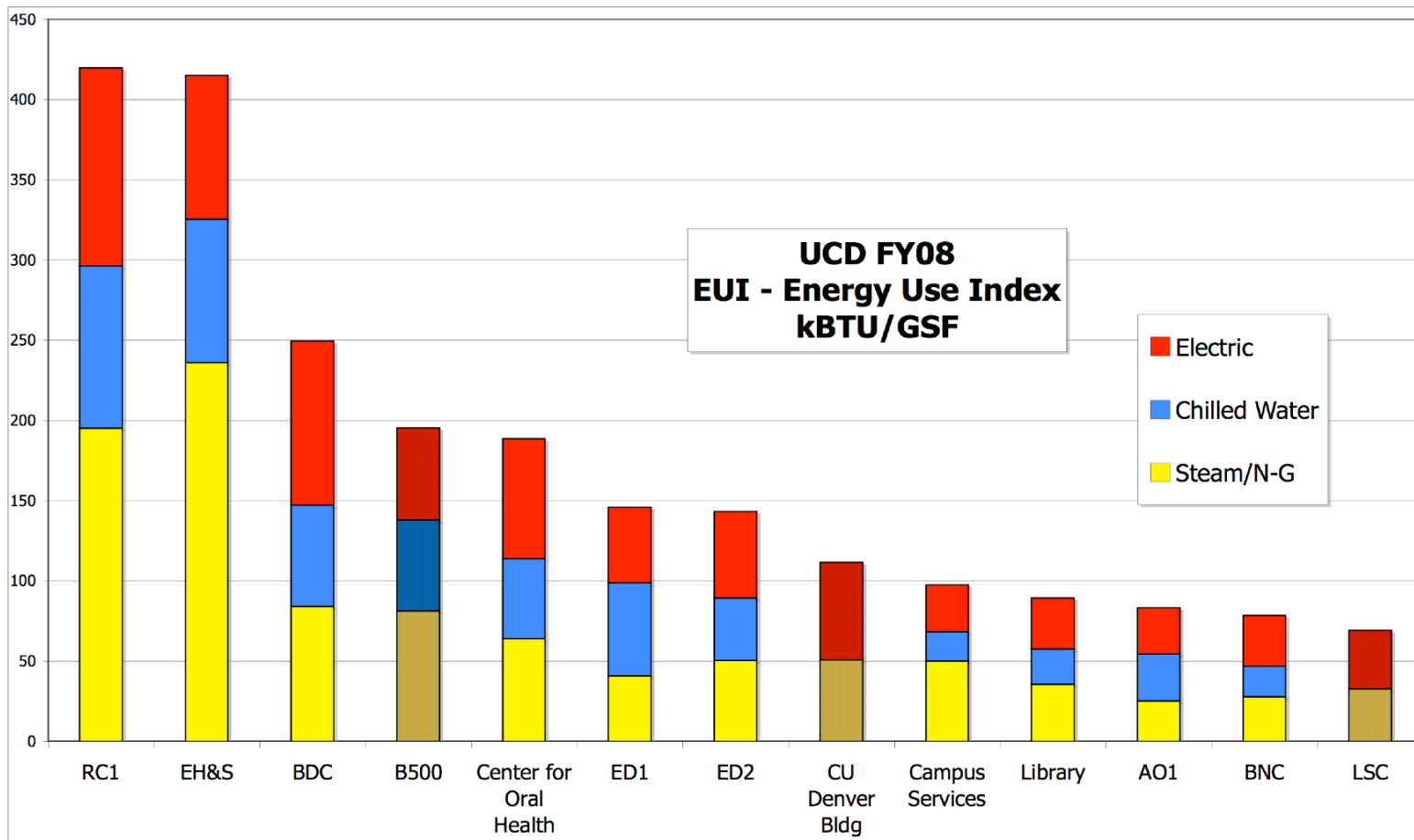
UCD Greenhouse Gas Emissions by Sector



UCD Total GHG Emissions: 164,408 mt/CO₂e

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UC Denver Building Energy Use



Current Initiatives in the Building Sector

- Governor's Energy Office provides initial consultation, protocol and a list of pre-approved energy service companies
- Working with Ennovate Corporation on Technical Energy Audit for R1 and Building 500
- Establishing baselines and options for energy improvement
- Identifying efficiency measures and renewable energy options for our worst performing buildings (*occupancy sensor technology, monitoring for excessive energy consumption, SLIMclient, evaporative cooling, run-around coils*)

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Initiatives in Other Sectors

- Expanded Single-Stream Recycling Program (Materials)
- Participation in Transportation Management Association and expanded transit options (Transportation)
- Inter-campus travel (Transportation)
- School of Pharmacy - LEED Silver (Buildings and Materials)
- Collaboration with AHEC on GHG Inventory and Recycling Program (Buildings and Materials)
- Comprehensive UC Denver Sustainability Website (All)



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Sustainability Strategy

Academic and Student Efforts

- Integrative Graduate Education and Research Traineeship (IGERT) Sustainable Urban Infrastructure Program
- Sustainability minor in College of Liberal Arts and Sciences
- Green Building Design Program in College of Architecture & Planning
- Sustainability Track in MBA Program
- Student groups active and involved student groups at Anschutz and Downtown Campuses

