

Climate Change & Energy

**A review of findings from the
*College Sustainability Report Card 2010***

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Overview

Category is comprised of eight indicators:

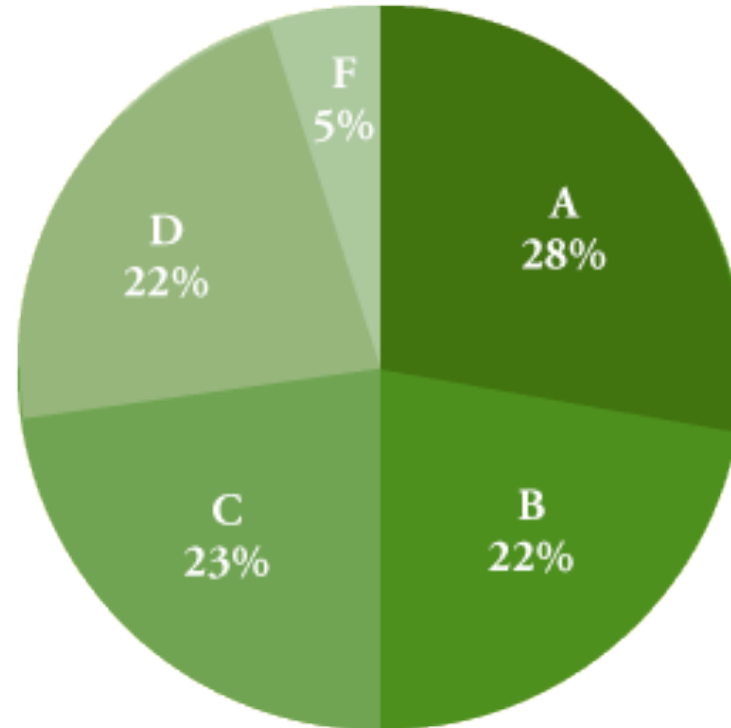
- Greenhouse Gas Emissions Inventory
- Commitment to Greenhouse Gas Emissions Reduction
- Realized Greenhouse Gas Emissions Reduction
- Energy Efficiency
- Energy Conservation
- Renewable Energy Generation
- Renewable Energy Purchase
- On-Site Combustion

To learn more about each of the indicators and their weighting, visit:

<http://www.greenreportcard.org/report-card-2010/indicators>



Grade Distribution



Climate Change & Energy, *College Sustainability Report Card 2010*



Significant Trends

Comparison of data from *Report Card 2008* to *Report Card 2010*:

Percent Increase

- Completed GHG inventories **27** to **47**
- Commitment to GHG reduction..... **45** to **58**
- Purchase renewable energy (e.g., RECs)..... **37** to **40**
- Produce renewable energy on campus... **34** to **45**



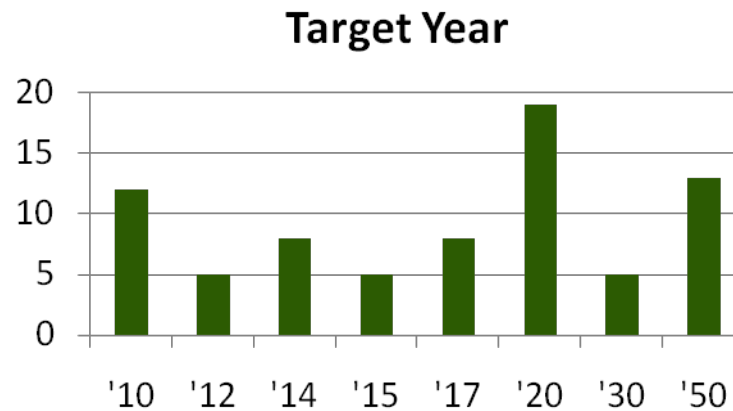
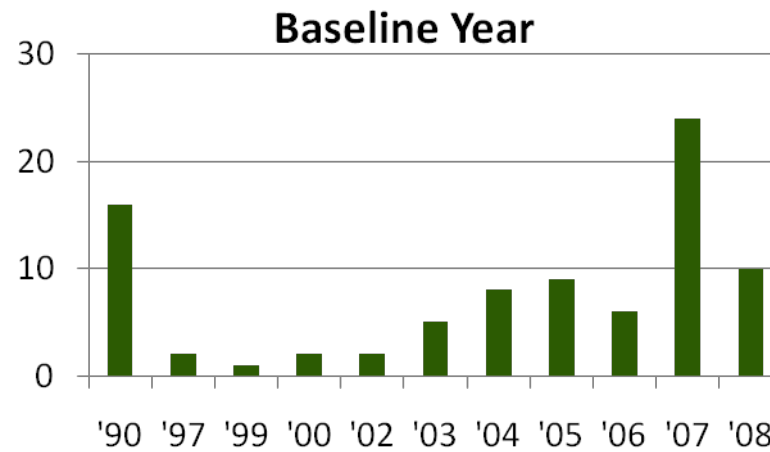
Greenhouse Gas Emissions Inventory

- Completed at least one GHG inventory..... **69%**
- Currently working to complete first GHG inventory..... **13%**
- Average number of inventories completed..... **2.4**
- Schools that have completed four or more inventories..... **55**
- Average GHG emissions per 1,000 sq. ft. of conditioned space in 2008 (metric tons of CO₂e)..... **15.9**
- Average GHG emissions per student in 2008 (metric tons of CO₂e)..... **9.4**



Commitment to Greenhouse Gas Emissions Reduction

- Has made commitment to GHG reductions: **58%**
- Average annual GHG emissions reduction target: **3.5%**



Realized Greenhouse Gas Emissions Reduction

- Schools that have realized GHG reductions: **29%**
- Average annual reduction in GHG emissions: **4.4%**
- Sixty-two schools that tracked per student emissions from 2006 to 2008 saw an average reduction of: **9.5 to 8.9** (metric tons of CO₂e)



Energy Efficiency

- Schools that have implemented energy efficiency measures: **95%**

Examples of energy efficiency measures taken by schools include:

- Retro-commission of HVAC systems
- Temperature setbacks
- Lighting retrofits
- Steam trap system upgrades



Energy Conservation

- Schools that provide incentives to reduce energy use: **82%**



Renewable Energy Generation

- Produce renewable energy on campus..... **45%**

Most Common Sources:

Photovoltaics (Solar)	35%
Solar hot water	16%
Geothermal.....	7%
Wind.....	6%



Renewable Energy Purchase

- Purchase renewable energy (e.g., RECs)..... **40%**
- Portion of energy purchased from renewables (average)..... **23%**



On-Site Combustion

Fuel Source

- Natural gas..... **58%**
- Oil..... **25%**
- Coal..... **11%**
- Renewable Sources..... **11%**

Examples of Renewable Sources

- Colgate University, 70% (wood chips)
- University of Montana Western, 62% (wood chips)
- University of New Brunswick, 53% (wood waste)

