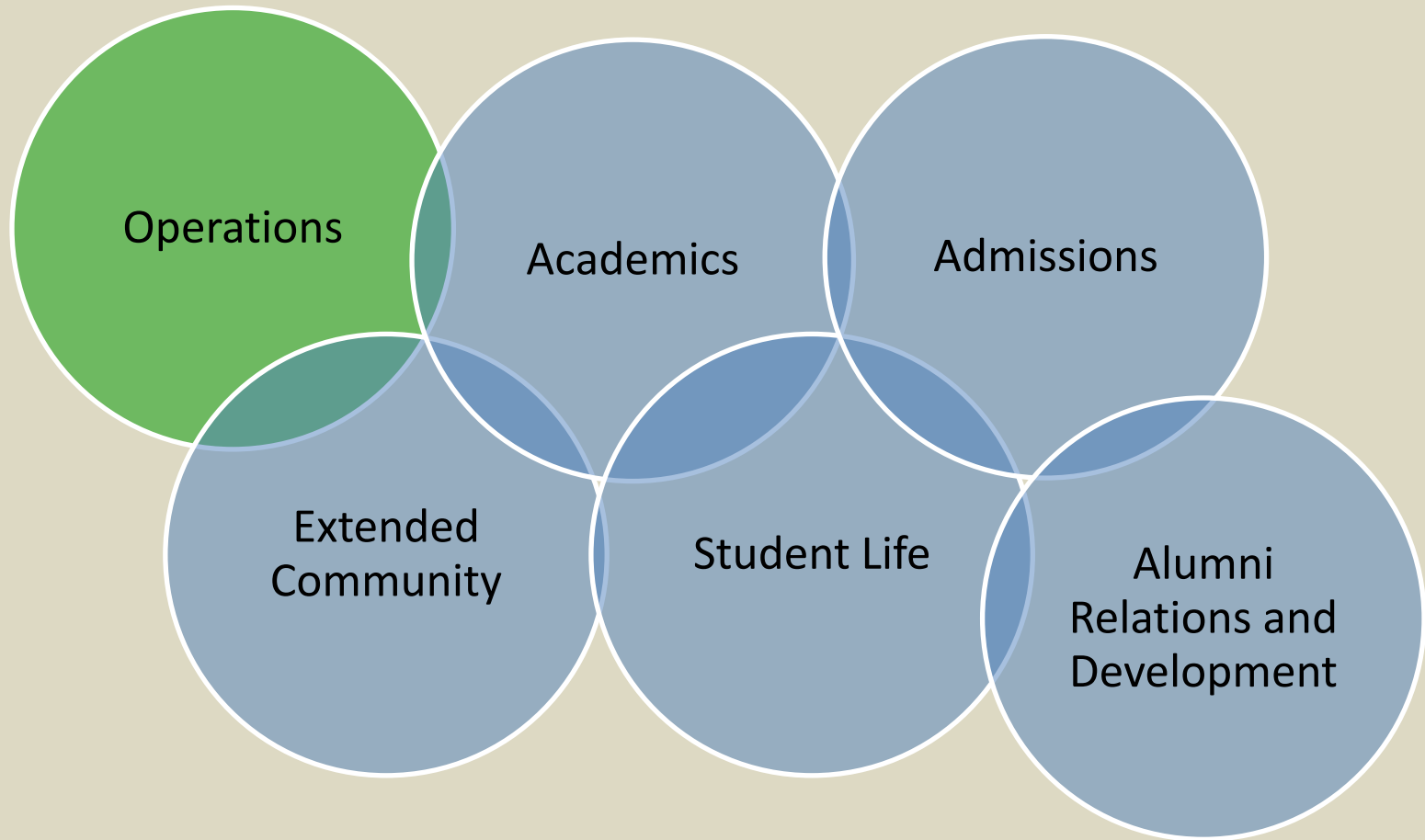


Dickinson

A photograph of a large, historic stone building, likely Dickinson College, featuring a central arched entrance, a cupola on the roof, and a well-manicured lawn with people walking.

SUSTAINABILITY
In Ops

Sustainability Interconnectedness



Dickinson



Dickinson



The image shows a top-down view of twelve rectangular cardboard boxes arranged in a 3x4 grid. Each box is filled with cherry tomatoes. Most of the tomatoes are a vibrant red-orange color, but some boxes, particularly in the top-right and bottom-right, contain a mix of red and yellow-orange tomatoes. The tomatoes are glossy and appear fresh. The cardboard boxes are a light grey or off-white color. In the center of the grid, the word "Dickinson" is printed in a white serif font on a dark red rectangular background.

Dickinson

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Dickinson



Dickinson





Dickinson

CSE

Making Sustainability a Defining
Characteristic of a Dickinson
Education!
(and experience!)

Enhances and connects
opportunities for learning about
sustainability **in and out of the
classroom...**

Campus = Living Lab

Dickinson

Campus = Living Lab

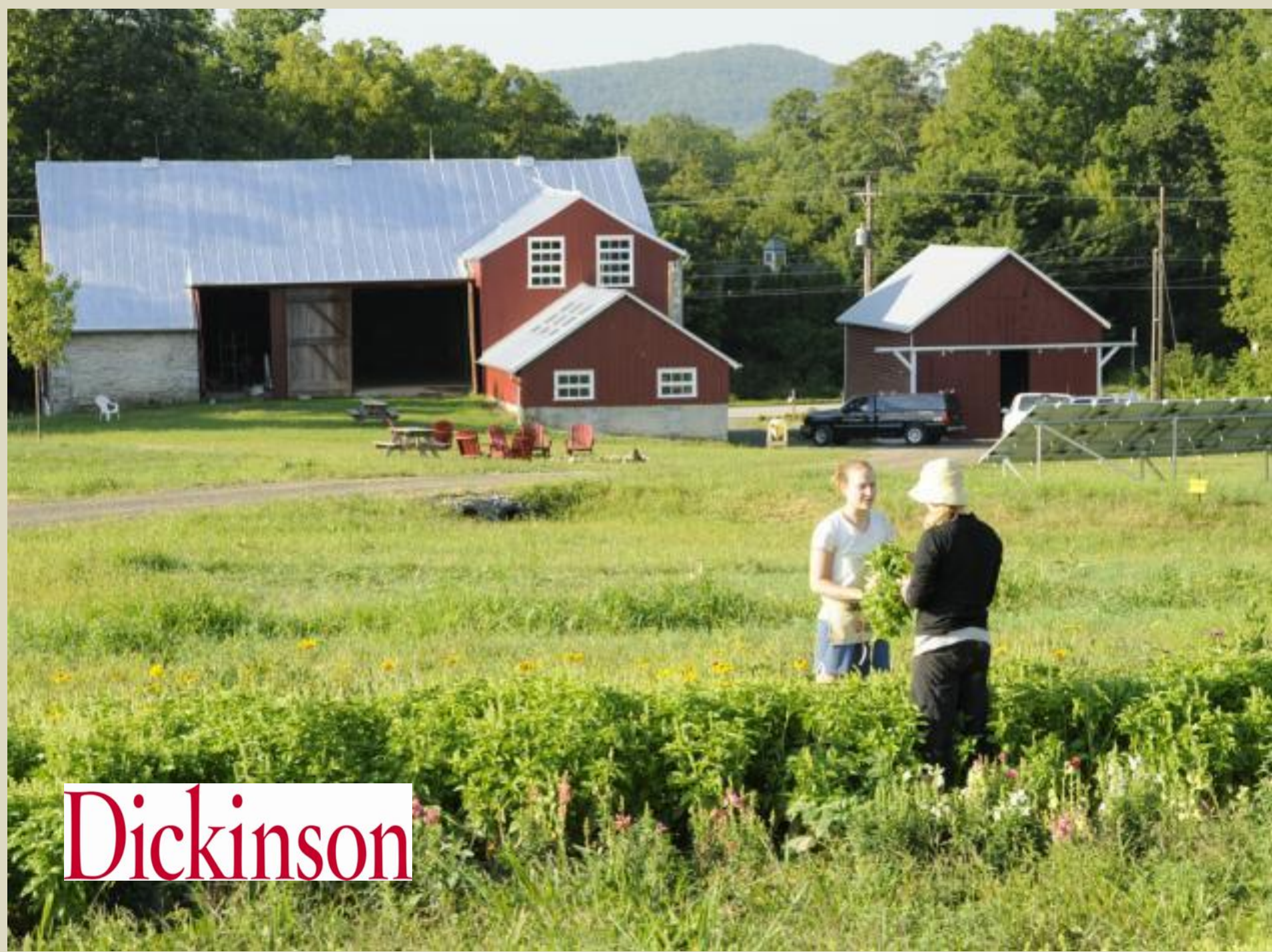




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College Farm





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Sustainable Living – The Treehouse



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Treehouse – continued



A woman with blonde hair and glasses, wearing a dark red shirt, is standing in a white-framed window of a red brick house. She is holding a clothespin and hanging a green jacket on a clothesline. To her left, a patterned curtain and a blue shirt are already hanging on the line. A yellow shirt is also visible further along the line. A green vine plant is hanging from the bottom of the window frame. A silver downspout is visible on the left side of the brick wall. In the bottom right corner, a small portion of a brown paper bag with some text is visible.

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The Worm Factory

upland Magazine Composting from the System

BASIC BIN MANAGEMENT

GETTING STARTED:

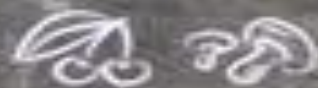
- Place several moist folded sections of newspaper (soaked in water) directly under the plastic cover in the top feeding tray
- Add food mixture (50% kitchen scraps and 50% fiber) underneath the moist newspaper

FEEDING:

- 1 pound of worms need 1/2 pound of food per day
- Use food list at right
- Avoid overfeeding!
- Never put meat or dairy products in your worm bin system

CARE:

- Worms require moist bedding: see instruction manual
- Worms require "Squeeze Test"
- Worms require moisture: recycle collection tray liquid or
- Worms require moisture: add dry fiber



Remember: Healthy Worms are Happy Worms!

FIBER:

- Shredded paper
- Magazines
- Cardboard

- Dryer lint
- Grease

FOOD LIST:

Worms like their food chopped as small as possible!

All vegetables (table and preparation scraps, peels, and woppers that are past their prime)

All fruits (table scraps, peels, cores, and fruit that's too ripe)

Others: Pancakes, pasta, doughnuts, etc.

All cereals, cereal, crackers, stale bread

Edible snacks: coffee grounds, etc.

Play shells, tea bags (without string)

Flowers and plants from

- Egg cartons
- Bird mail
- Napkins



Dickinson

LEED



6

A row of silver metal water bottles, each with a black cap and a silver carabiner. The bottles are decorated with a pattern of green circles, some of which contain a small black 'Z' logo. The word 'pcai' is visible in green on the side of one bottle.

Dickinson

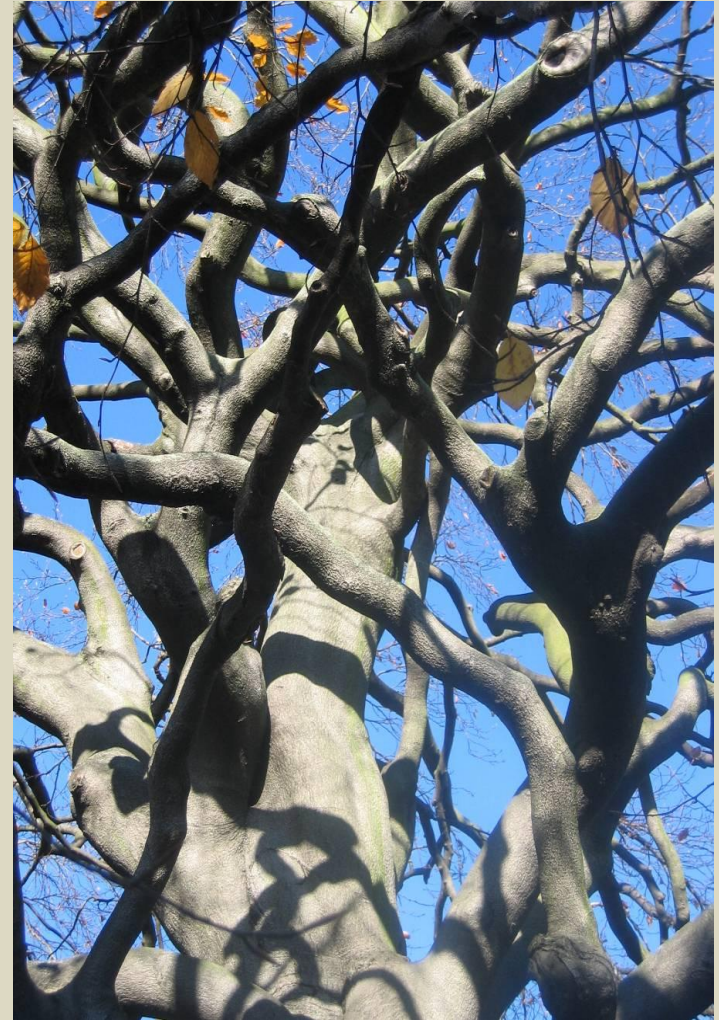
What about Water?

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Fire The Grounds Crew ???

TREES

- Carbon Off-setting Organisms
- Tree Walk
- Arboretum
- Plant More than 40 each year
- Staff arborist



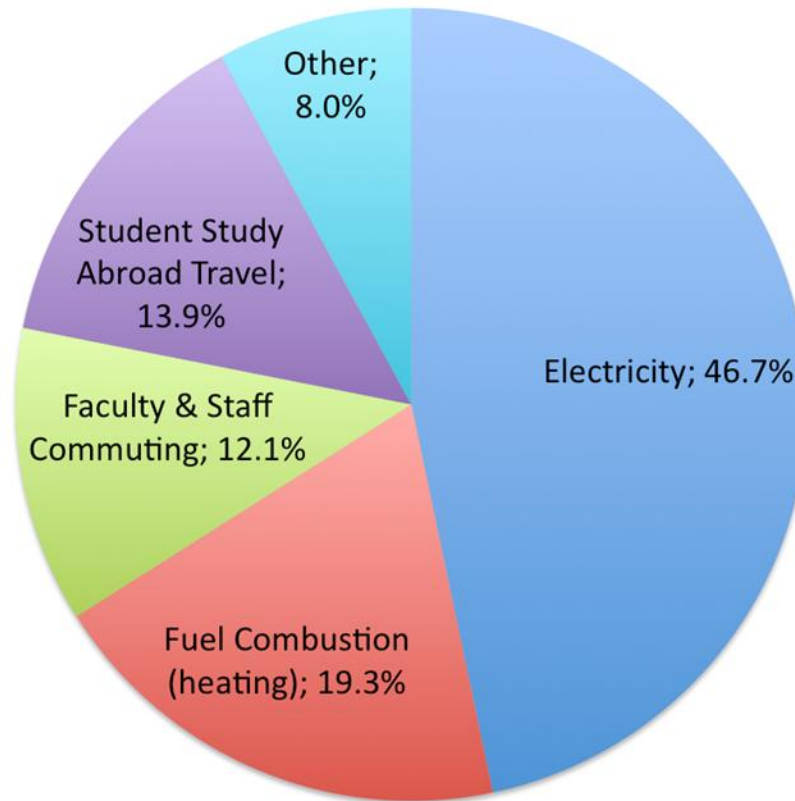
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Redefining Waste



Transportation

Sources of GHG Emissions, 2012



Dickinson

Transportation



+



General Conservation

- **Energy Reduction Contests**
- **Quotas – laundry, paper**
- **Copy Machines – Duplex, Print Accountability**
- **Going Tray-less**
- **Temperature Policy**
- **Energy Curtailment Programs**



New traffic-pattern study approved by Carlisle Borough Council on Oct. 9, 2008 and sent to PennDOT for approval.

Community Connections



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A L L A R M

Climate Action Plan



Dickinson College
Climate Neutral by
2020

Reducing
Emissions:
25% by 2020
50% by 2025
75% by 2030

Dickinson's Carbon Commitment Timeline

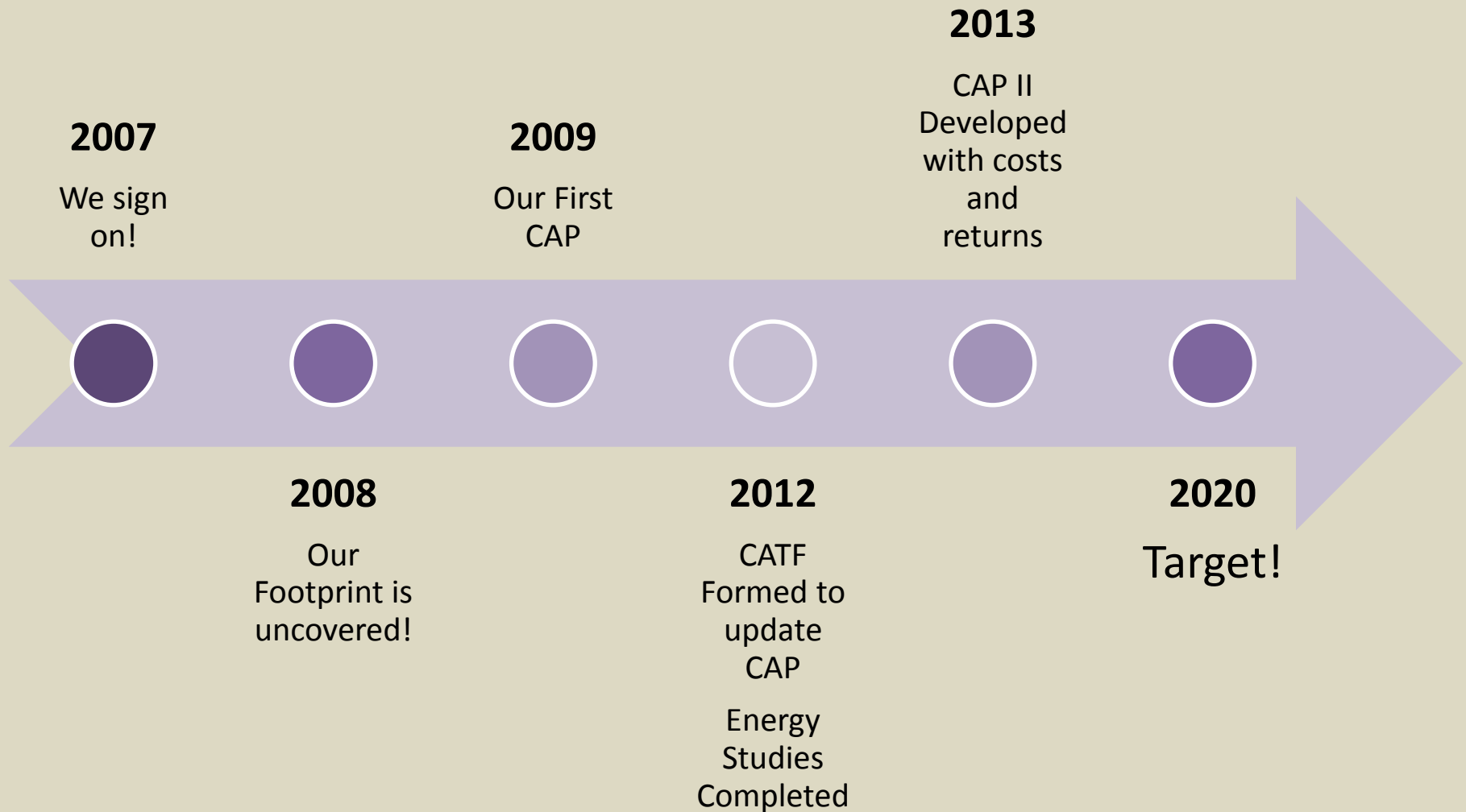
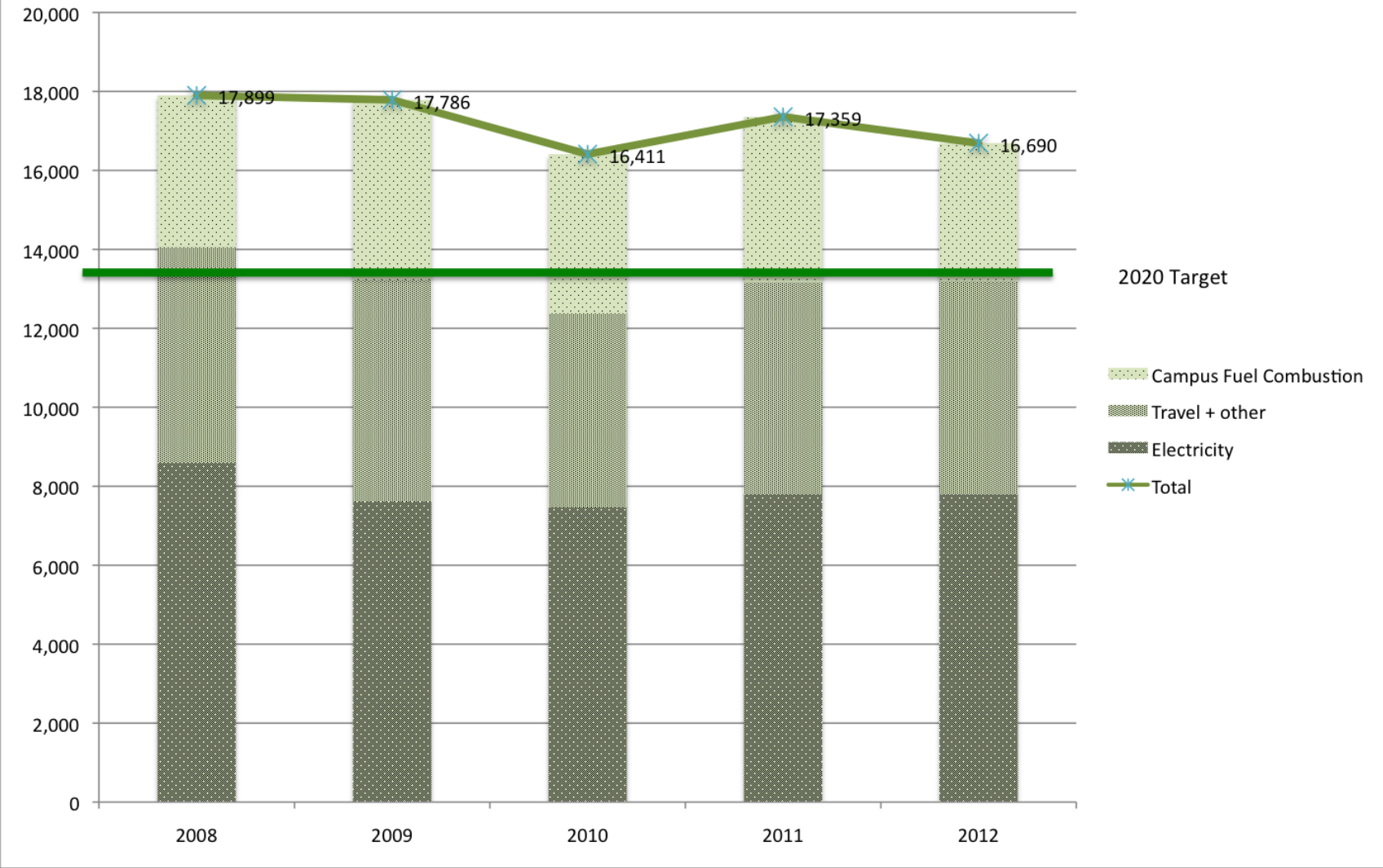
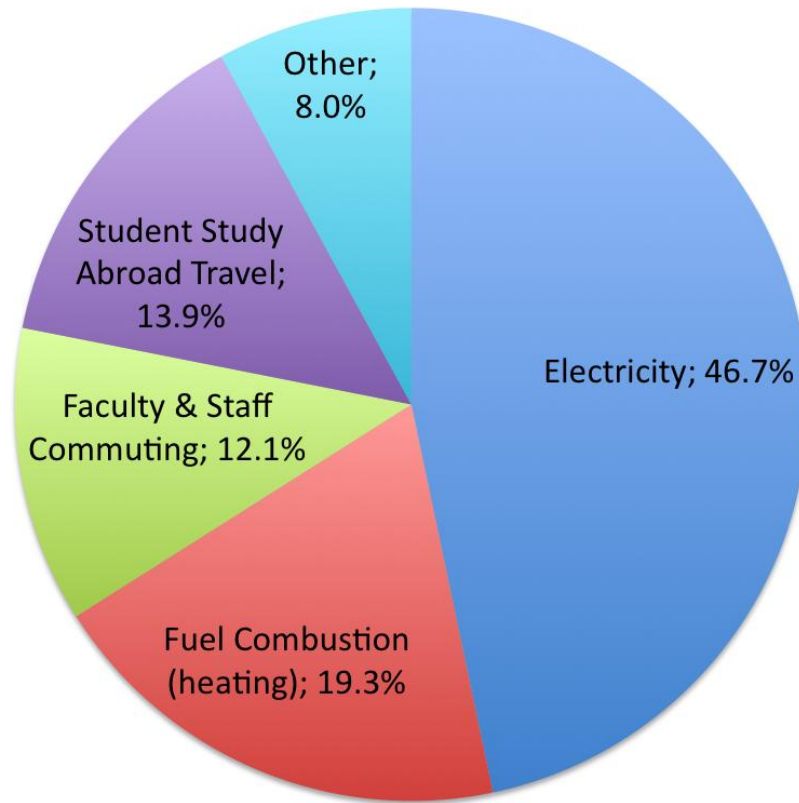


Figure 1: GHG Emissions, Gross (metric tons CO₂e)

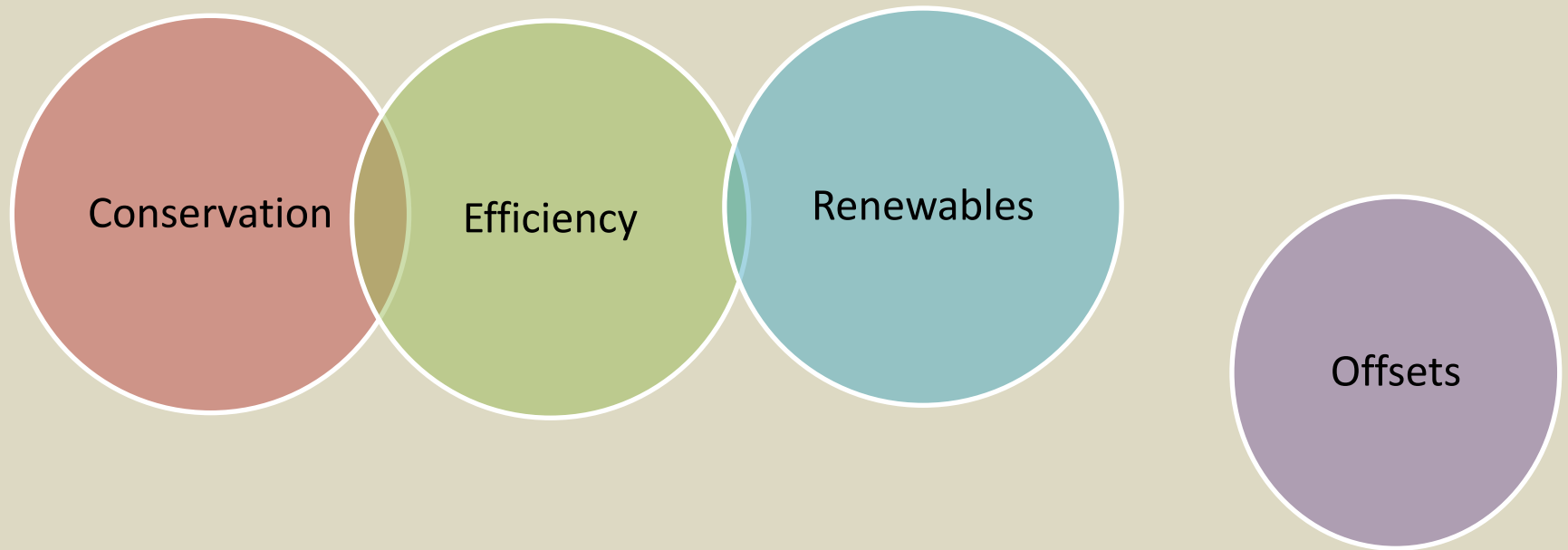


Sources of GHG Emissions, 2012



Strategies

How do we reduce
Greenhouse Gas
Emissions?



Strategies

- ***Conservation***

- LUCID
- Promote a culture of turning off appliances and fixtures when not in use
- Strategic scheduling of equipment and fixtures
- Encourage alternative transportation including car pooling, walking and biking
- Curtailment programs
- Space temperature policies

- ***Efficiency***

- Lighting upgrades including LED
- Combined heat and power
- Install variable speed motors
- Use Energy Star Appliances
- Install motion sensors on lights/fans/motors
- Hybrid vehicles
- Improve building envelope insulation, including windows

- ***Renewables***

Solar

Geothermal

Biomass

Wind

Efficiency

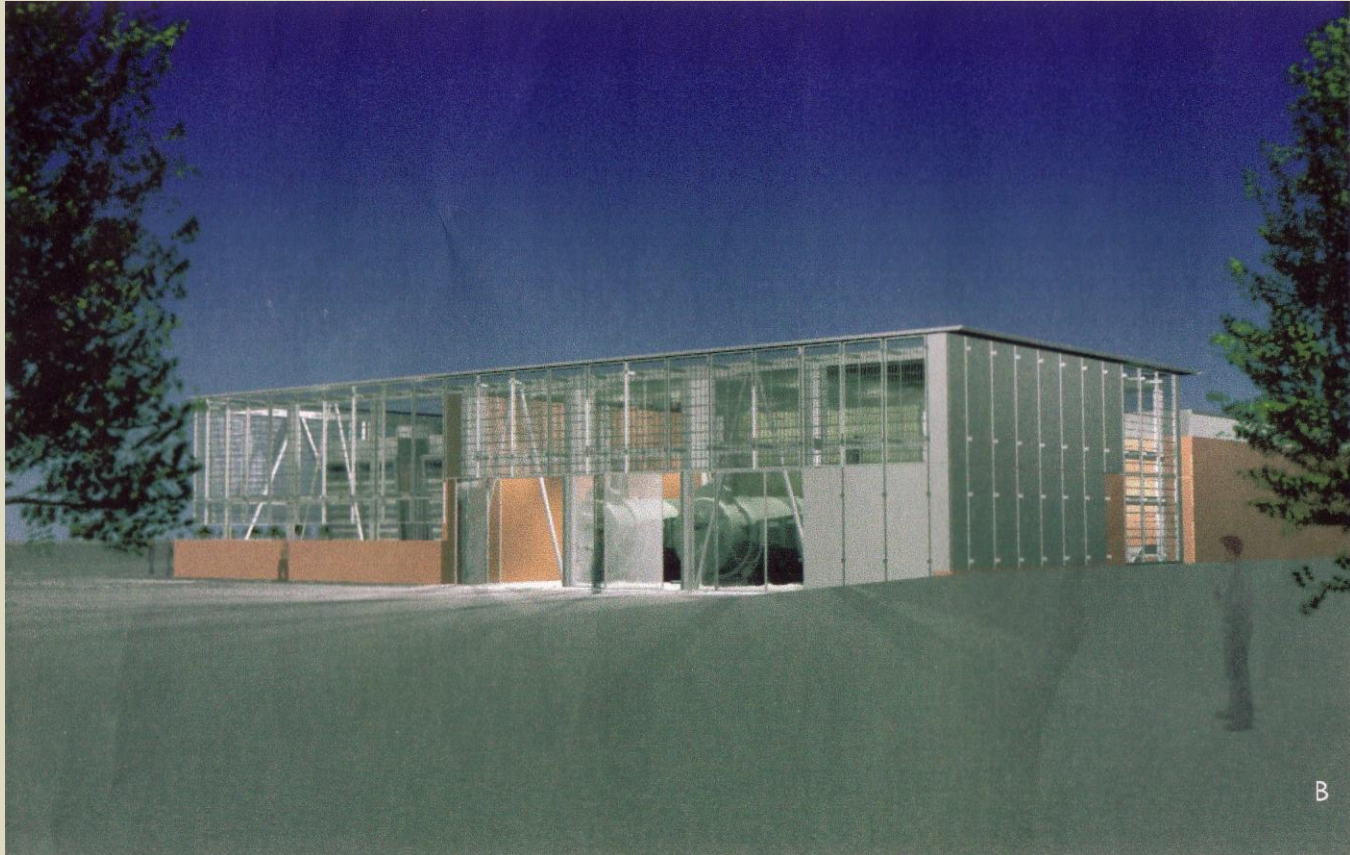
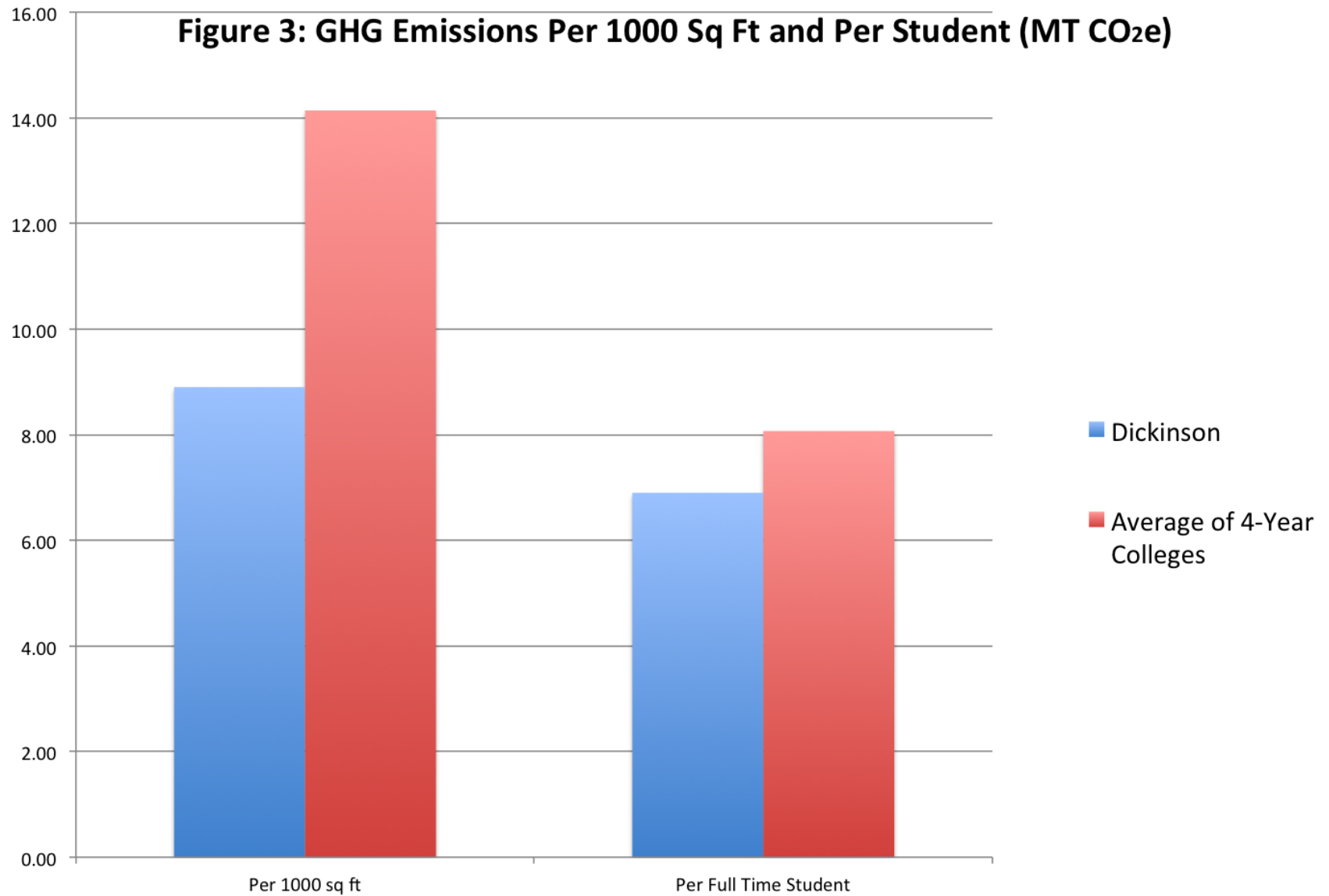
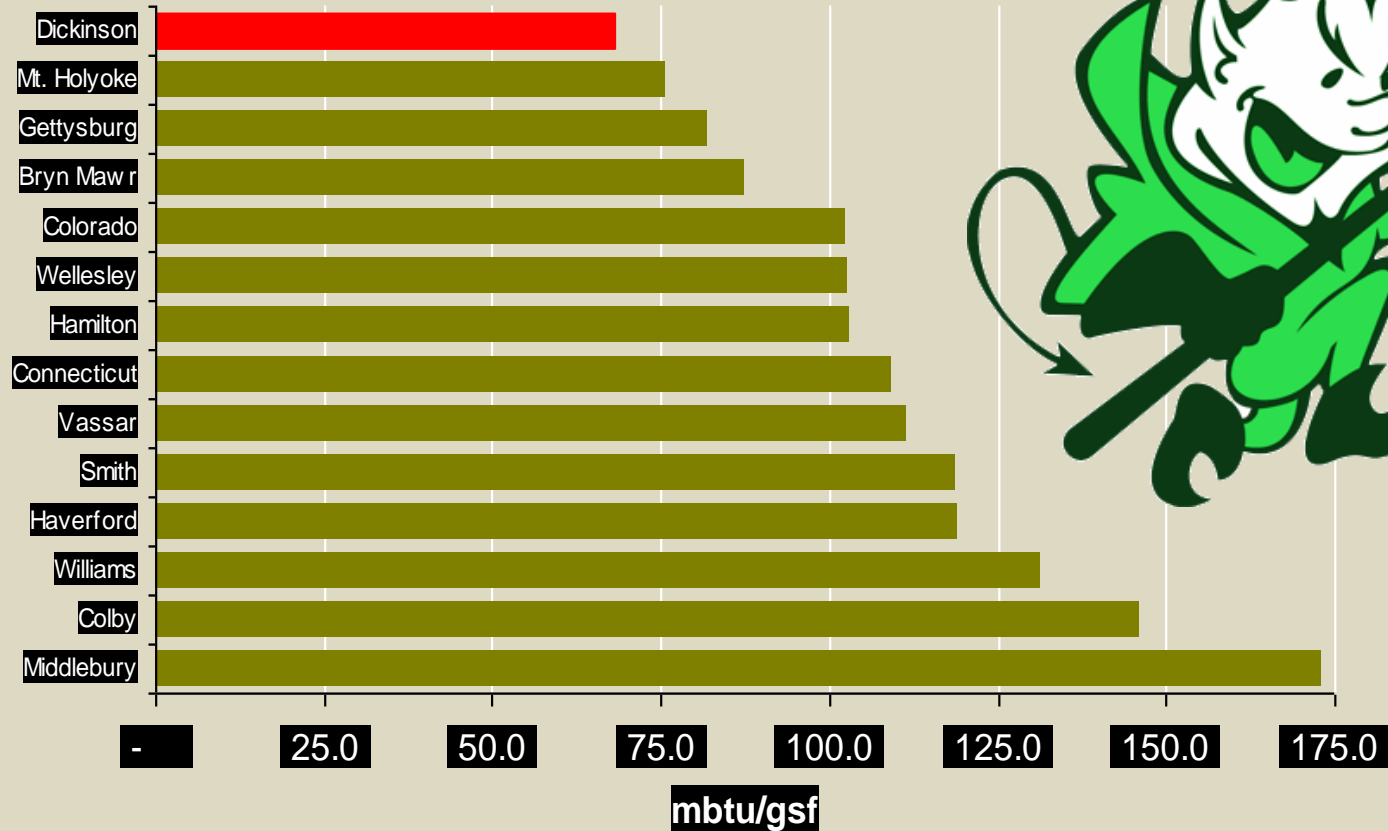


Figure 3: GHG Emissions Per 1000 Sq Ft and Per Student (MT CO₂e)



Beyond Recycling

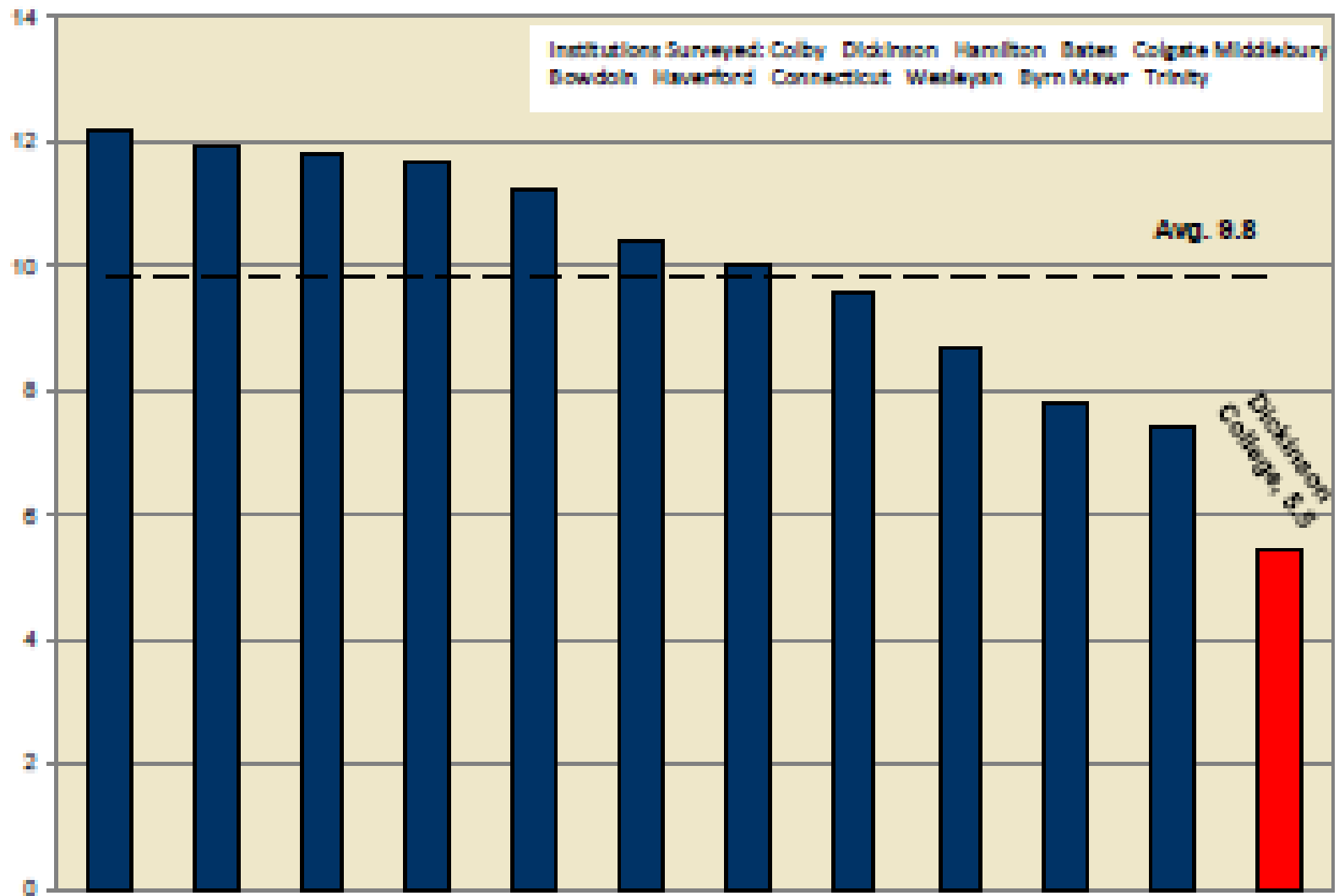
Green Devil Bragging Rights!



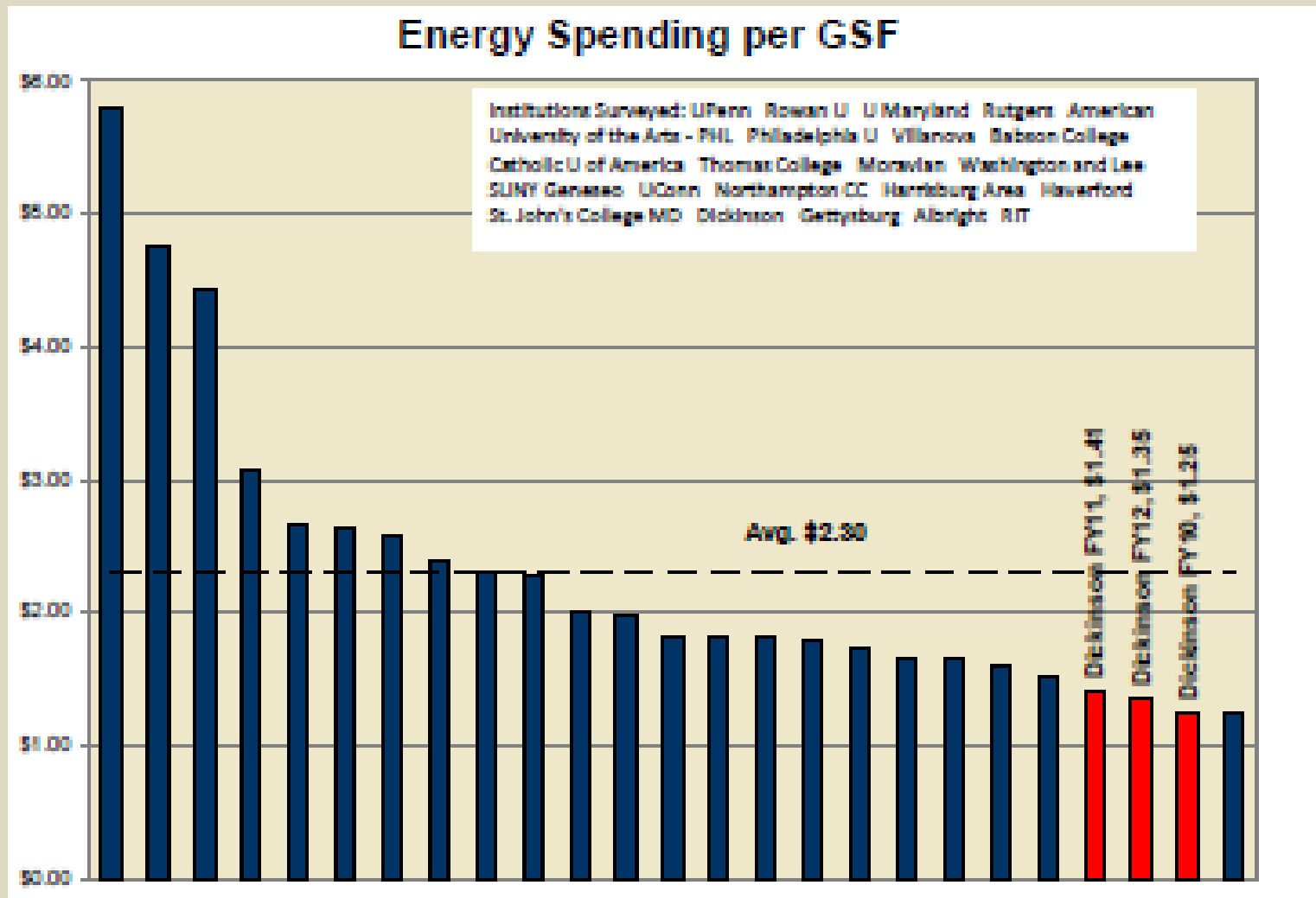
Dickinson consumes less energy than peer schools; far less than national averages

Energy Benchmark -- Carbon

CO2 emissions (MT) per GSF



Energy Benchmarks: Cost



Culture Shift



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Culture Shift

