THE CASE FOR
ENERGY CONSERVATION
NOVEMBER 2014

... an opportunity for building Proctors
Why am I here today?

- I need your help

- Did you know about our commitments at CSU
  - CSU signed the Talloires Declaration in 2001
  - American College and University Presidents Climate Commitment (ACUPCC)
    - Signed June 2008
    - Comprehensive GHG inventories each year
    - Climate Action Plan completed Sept 2010
    - CAP Update completed February 2013
    - Next CAP update due February 2015
  - Mandatory GHG reporting to EPA began Jan 2010
What Makes up CSU’s GHG Footprint?

- Airline Travel
- Agriculture
- Electricity
- Natural Gas
- Refrigerants
- Solid Waste
- Transportation – Commuter
- Transportation – Fleet
GHG Footprint – FY14

- Electricity: 55%
- Natural Gas & Propane: 25%
- Transportation - Fleet: 1%
- Agriculture: 2%
- Solid Waste: <1%
- Refrigerants: <1%
- Airline Travel: 9%
- Commuting: 9%
- Transportation - Fleet: 1%
Where CSU’s electricity comes from
3 numbers:

- 164,179,073 kWh consumed by CSU in FY14
- 351,267 kWh consumed by Johnson Hall in FY14
- 11,268,000 $ spent by CSU for electricity in FY14
Efficiency / Conservation

energy efficiency

- what my building can do for me

energy conservation

- what I can do for my building
How YOU can make a difference

• Turn off lights
  • In empty rooms, bathrooms, offices
• At the end of the day, turn off:
  • Your computer
  • Your monitor
  • Your speakers, radio, and lava lamps
• Eliminate phantom loads
• “If it’s not in use – turn off the juice”
• It’s OK! – give permission to help!
How to recognize “phantom loads”
What about *an energy conservation smack-down*?
How is Johnson Hall doing?

Johnson Hall - electricity usage - month-by-month

<table>
<thead>
<tr>
<th></th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>3-year monthly average</th>
<th>FY15</th>
<th>Are we saving?</th>
<th>% change</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>27,288</td>
<td>29,880</td>
<td>28,859</td>
<td>28,676</td>
<td>26,755</td>
<td>YES!</td>
<td>7% down</td>
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<tr>
<td>August</td>
<td>27,928</td>
<td>31,005</td>
<td>28,739</td>
<td>29,224</td>
<td>27,635</td>
<td>YES!</td>
<td>5% down</td>
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<tr>
<td>September</td>
<td>30,721</td>
<td>32,410</td>
<td>29,263</td>
<td>30,798</td>
<td>30,267</td>
<td>YES!</td>
<td>2% down</td>
</tr>
<tr>
<td>October</td>
<td>29,926</td>
<td>32,537</td>
<td>30,506</td>
<td>30,990</td>
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<tr>
<td>November</td>
<td>29,656</td>
<td>30,836</td>
<td>31,431</td>
<td>30,641</td>
<td></td>
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<tr>
<td>December</td>
<td>28,811</td>
<td>29,787</td>
<td>28,665</td>
<td>29,088</td>
<td></td>
<td></td>
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<tr>
<td>January</td>
<td>29,113</td>
<td>29,522</td>
<td>27,964</td>
<td>28,866</td>
<td></td>
<td></td>
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<tr>
<td>February</td>
<td>32,200</td>
<td>33,241</td>
<td>38,989</td>
<td>34,810</td>
<td></td>
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<tr>
<td>March</td>
<td>28,085</td>
<td>33,458</td>
<td>23,596</td>
<td>28,380</td>
<td></td>
<td></td>
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<tr>
<td>April</td>
<td>32,085</td>
<td>31,633</td>
<td>29,287</td>
<td>31,002</td>
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<tr>
<td>May</td>
<td>26,956</td>
<td>30,312</td>
<td>27,270</td>
<td>28,179</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>June</td>
<td>31,720</td>
<td>27,652</td>
<td>26,699</td>
<td>28,690</td>
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</table>

**FY total kWh used**: 354,488 372,273 351,267

Over the years, use is ↑ and ↓

4,040 kWh saved

YES! Ave. ↓ = 5%/mo
What will you do?

“Nobody ever made a greater mistake than he who did nothing because he could only do a little”

— Edmund Burke
Why do I do this work?

- Do you know Wangari Maathai?
- [http://www.youtube.com/watch?v=IGMW6YWjMxw](http://www.youtube.com/watch?v=IGMW6YWjMxw)

Will you be a hummingbird?
Thank you for your time … and conservation efforts

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