

# Energy Conservation Initiative (ECI) Project Summary

## Mann LED Elevator Lighting, Facility 1027

**What We Did:** The Energy Management staff collaborated with the student group Energy Corps at Cornell University (ECCU) that identified elevator lighting as an opportunity. The Energy Corps students inventoried the elevators, determined an LED replacement lamp for the existing halogen lamps, calculated a cost benefit, and received approval from the College of Agriculture and Life Sciences to replace all lamps in all elevators. Energy Management provided the lamps and students replaced them in all four elevators in the building saving a total of ~1,700 watts on a continuous basis.

**What It Cost:** \$830

**How Long It Took:** 6 months. Completed March 2013.

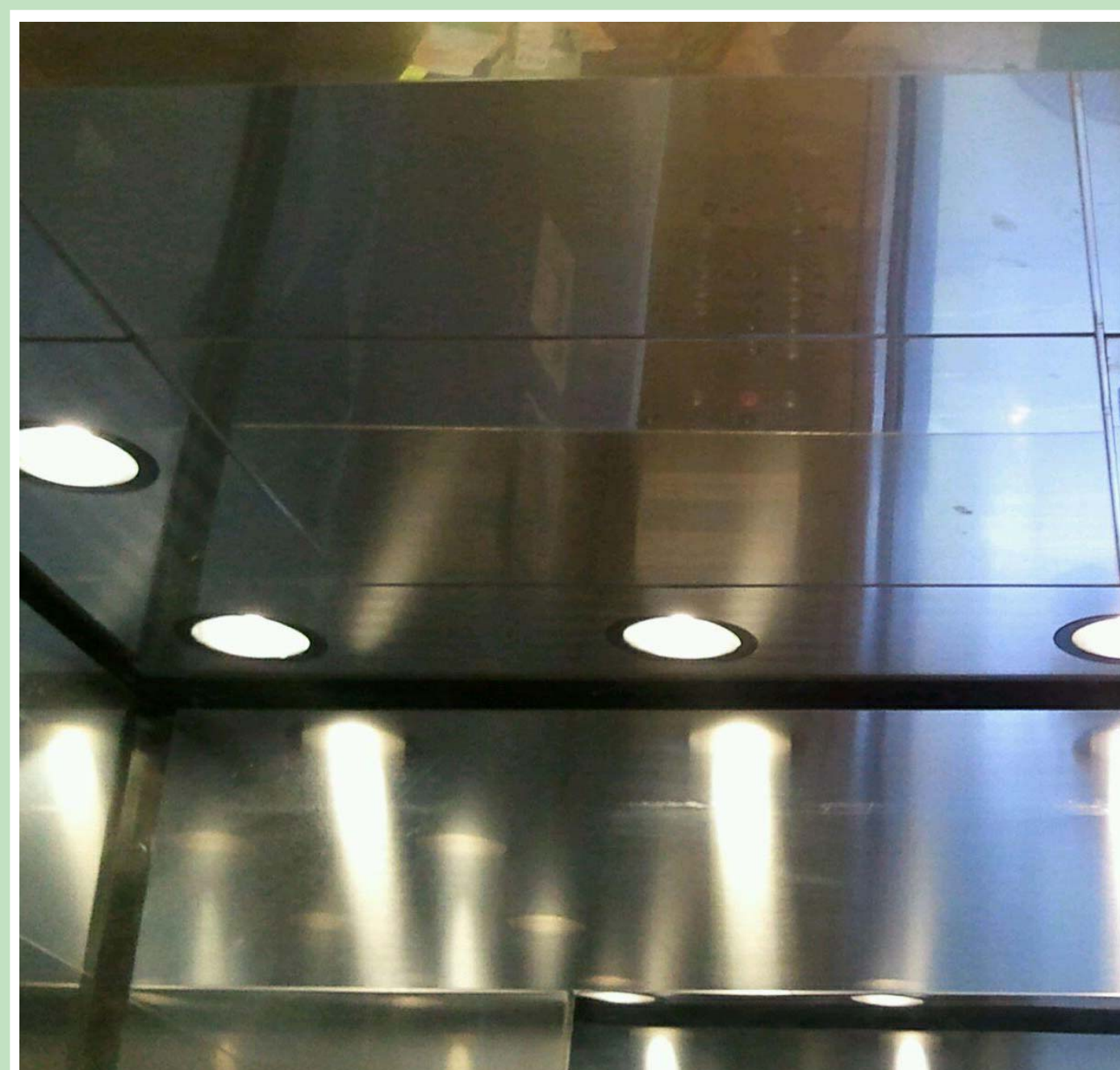
**What We Saved:** \$1,000 and 7 tons/per year carbon equivalent annually.

**Benefits:** The new lamps are much cooler, lower energy usage, and will last up to 5 years versus the old lamps that required changing many times per year. The elevator temperatures are lower and rider comfort is improved.

*The project decreased energy usage and unwanted heat while improving the elevator aesthetics. This project, like other projects assisted by Energy Corps, incentivizes cost-effective, energy-saving behaviors such as lighting upgrades. We plan to help retrofit elevators all across campus.*

**Ashley Kossakowski '15,**  
Energy Corps Member,  
Energy Conservation Intern

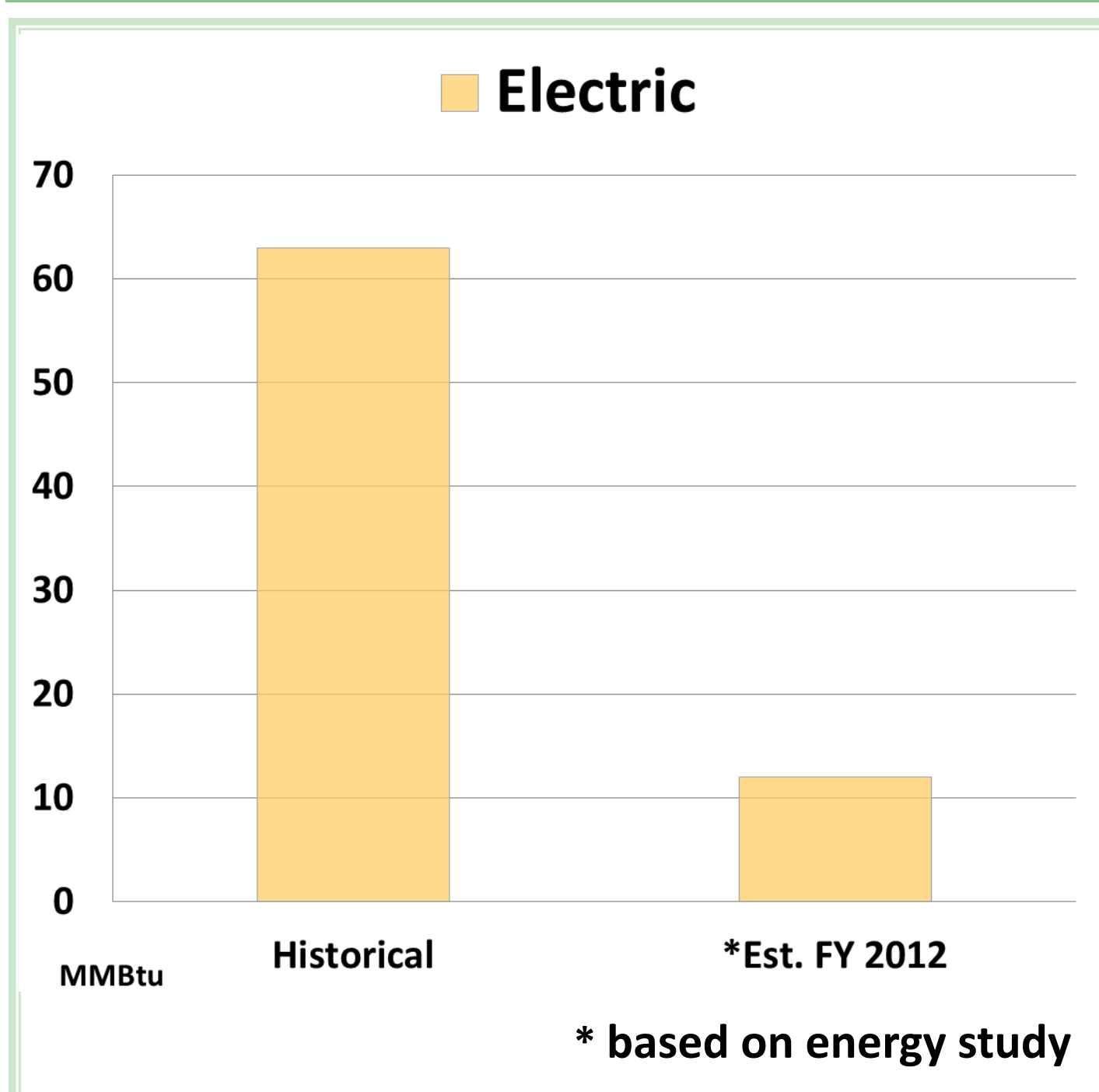
### Mann LED Elevator Lighting



[Map](#)

[Utilities Costs and Use](#)

Mann LED Elevator Lighting:  
Total Energy Use  
Pre & Post ECI



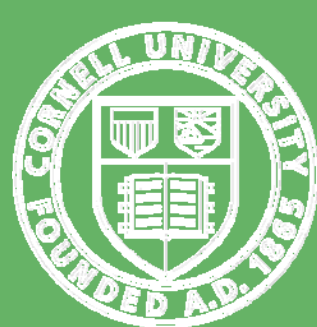
### Mann LED Elevator Lighting: ECI Savings Table

Utility	Historical Energy Use (MMBtu)	Est. FY 2012 Energy Use (MMBtu)	Energy Savings (MMBtu)	% REDUCTION	Historical Cost (billed rates)	*Est. FY 2012 Cost (billed)	Annual Savings \$	Equivalent # Homes
Electric	63	12	51	81%	1,300	200	1,000	2
Steam								N/A
Chilled Water								N/A
<b>Totals</b>	<b>63</b>	<b>12</b>	<b>51</b>	<b>81%</b>	<b>1,300</b>	<b>200</b>	<b>1,000</b>	<b>2</b>



Energy use based on project scope

Equivalent # Homes Savings based on average home use: 40 MMBtu Electric ■ 90 MMBtu Heat ■ 50 MMBtu Cooling



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