

Energy Conservation Initiative (ECI) Project Summary

Blue Light Service

What We Did: We replaced Blue Light security lights all across the campus in 120 locations with LED fixtures that use 13 watts, one tenth the energy usage of the metal halide lamps they replaced. The existing fixtures were a wide variety of ages and types, making maintenance difficult.

The new fixtures utilize blue LED's with blue lenses to maximize efficiency.

What It Cost: \$31,000

How Long It Took: 1 month. Completed June 2013.

What We Saved: \$6,200 and 40 tons/per year carbon equivalent annually.

Benefits: The new lamps are expected to last 3 to 5 times longer than the existing fixtures. The decrease in maintenance and energy costs quickly repay the project, and the campus now has uniform performance in this critical security application.

We were extremely happy that Energy and Sustainability was able to cost effectively upgrade the Blue Lights to provide higher reliability in this critical need for campus. Our Facilities Services partners work hard to increase energy efficiencies without compromising the safety of our campus.

Kathy Zoner
Chief, Cornell Police

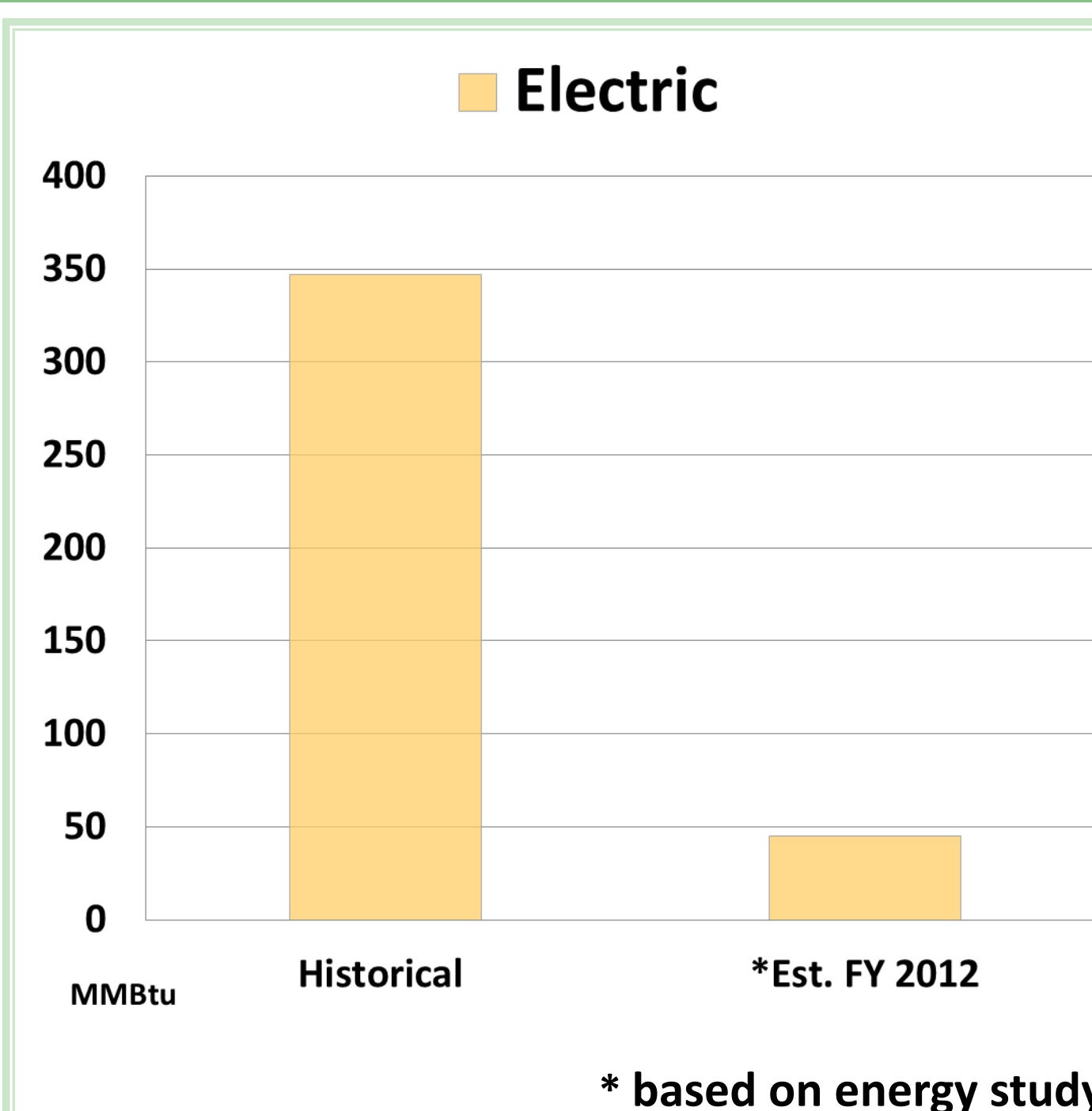
Blue Light Service



Cornell electricians Jon Ryan, left, and Dave Pawelczyk assemble a new-style LED blue light prior to installing in a fixture. (Blaine Friedlander/Cornell Chronicle)

[Utilities Costs and Use](#)

Blue Light Service
Total Energy Use
Pre & Post ECI



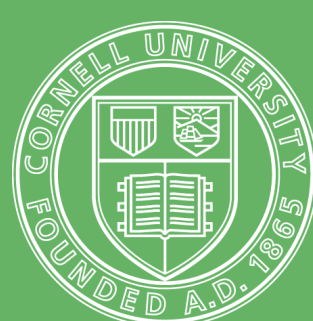
Blue Light Service: ECI Savings Table

Utility	Historical Energy Use (MMBtu)	2012 Energy Use (MMBtu)	Energy Savings (MMBtu)	% REDUCTION	Historical Cost (billed rates)	Est. FY 2012 Cost (billed)	Annual Savings \$	Equivalent # Homes
Electric	350	45	305	90%	\$7,100	\$900	\$6,200	8
Steam								N/A
Chilled Water								N/A
Totals	350	45	305	90%	\$7,100	\$900	\$6,200	8



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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11/2013

