

# Energy Conservation Initiative (ECI) Project Summary

## Athletics and High Bay Lighting Upgrade, 9 Buildings

**What We Did:** We replaced high bay lighting with LED in Lynah Rink, Bartels Hall Newman Arena and Ramin Multipurpose room, the Friedman Wrestling Center, Oxley Equestrian Center, Teagle Hall pool and gym, Grumman squash courts, Helen Newman pool and gym, Barton Hall and Stocking Hall. The new fixtures last 5-7 times longer and use 1/2 the electricity of the old fixtures with much higher light levels.

**What It Cost:** \$1,000,000.

**How Long It Took:** 4 months.

Completed March 2015.

**What We Saved:** \$161,000 and 806 tons/per year carbon equivalent annually.

**Benefits:** The project addressed severe ongoing and deferred maintenance issues and low light levels associated with the old outdated light fixtures, while dramatically minimizing energy usage.

Every student-athlete wants to play in the best environment possible, and the new LED lighting enables that. Photographs look more crisp, and the video is more colorful. The ability to light the Newman Arena court is on par with major college facilities across the country.

Bill Courtney  
Robert E. Gallagher '44 Head Coach of Men's Basketball

### Athletics Lighting Upgrade

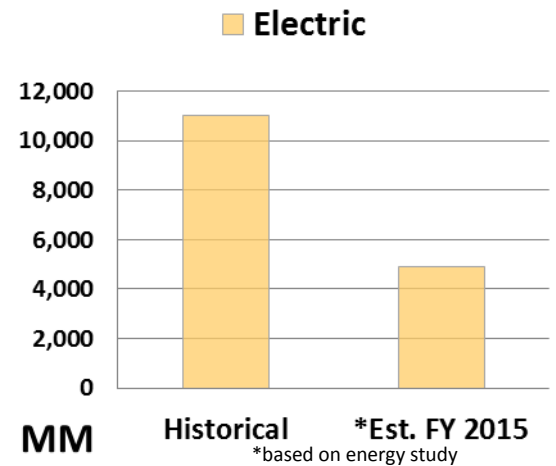


Patrick Shanahan/Cornell Athletics

The future looks bright: In a winning effort, the Big Red men's hockey team scores against Harvard Jan. 23, under the new LED lights at Lynah Rink

### Utilities Costs and Use

Athletics Lighting Upgrade  
Total Energy Use - Pre & Post ECI



### Athletics Lighting Upgrade: ECI Savings Table

Utility	Historical Energy Use (MMBtu)	*FY 2015 Energy Use (MMBtu)	Energy Savings (MMBtu)	% REDUCTION	Historical Cost (billed rates)	*FY 2015 Cost (billed)	Annual Savings \$	Equivalent #Homes
Electric	11,000	4,900	6,100	55%	\$290,300	\$129,200	\$161,000	153
Steam								
Chilled Water								
<b>Totals</b>	11,000	4,900	6,100	55%	290,300	\$129,200	\$161,000	<b>153</b>

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

