

# Energy Conservation Initiative (ECI) Project Summary

## Snee Hall, Facility 2049

**What We Did:** The project converted building air handlers serving laboratory ventilation systems to full digital control. Variable speed drives and air flow stations were added to the air handlers to optimize ventilation entering the facility. The laboratory spaces were upgraded from pneumatic controls to full digital controls. Pneumatic reheat valves were replaced with electric control valves. All spaces throughout the building were re-commissioned to new airflows designated from Cornell EH&S (Environmental Health and Safety).

**What It Cost:** \$370,000

**How Long It Took:** 7 months. Completed November 2014.

**What We Saved:** \$76,000 and 177 tons/per year carbon equivalent annually.

**Benefits:** The project upgraded space controls in a majority of the spaces throughout the building. The existing pneumatic controls were well past their useful life and a major deferred maintenance item.

The project upgraded controls throughout many spaces in Snee Hall. Increasing comfort while saving energy.

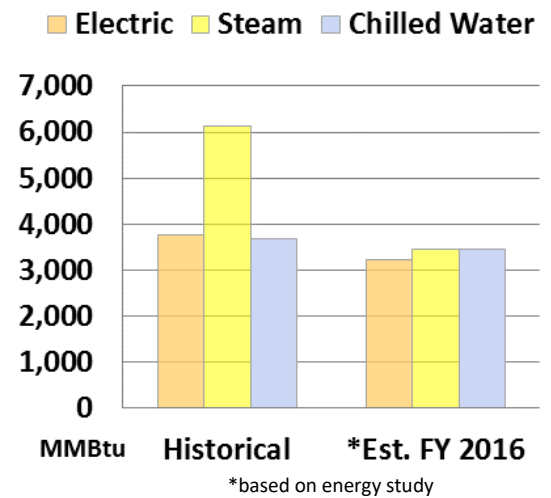
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### Snee Hall



[Map](#)  
[Utilities Costs and Use](#)

Snee Hall  
Total Energy Use - Pre & Post ECI



### Snee Hall: ECI Savings Table

Utility	Historical Energy Use (MMBtu)	*Est. FY 2016 Energy Use (MMBtu)	Energy Savings (MMBtu)	% REDUCTION	Historical (billed rates)	*Est. FY 2016 Cost (billed)	Annual Savings \$	Equivalent # Homes
Electric	3,800	3,200	600	16%	77,000	66,000	11,000	15
Steam	6,100	3,500	2,600	43%	139,000	78,000	61,000	30
Chilled Water	3,700	3,500	200	5%	67,000	63,000	4,000	4
<b>Totals</b>	<b>13,600</b>	<b>10,200</b>	<b>3,400</b>	<b>25%</b>	<b>283,000</b>	<b>207,000</b>	<b>76,000</b>	<b>49</b>



Energy use based on project scope

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

