# Energy Conservation Initiative (ECI) Project Summary
## Malott Hall, Facility 2081

**What We Did**: We replaced and upgraded controls on both the central air handling systems and the occupied spaces throughout the building. Fan coil units in the building were modified to eliminate a previous piping arrangement that resulted in simultaneous heating and cooling.

**What It Cost:** $175,000

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

**What We Saved:** $30,000 and 60 tons per year carbon equivalent annually.

**Benefits:** The old controls in the building were a mixture of older digital and pneumatic technology that resulted in higher than necessary energy usage, maintenance issues, and maintenance costs.

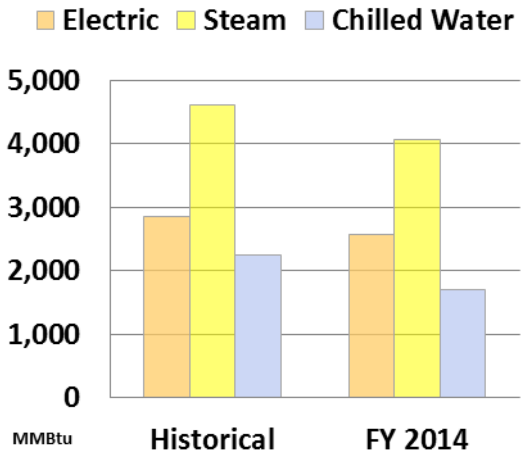
The new controls allow energy savings strategies, full web access for operations and maintenance, and much higher reliability. Air flow measurement allows accurate control of ventilation air with changes in occupancy, along with proper tracking of supply and return air flows.

The new controls provided by the energy conservation project reduced building energy use and increased occupant comfort. The control system allows me to easily monitor the building heating and cooling system to quickly address occupant comfort issues.
Joy Jones
Malott Hall building Coordinator

### Malott Hall

Map
Utilities Costs and Use

**Malott Hall:**
Total Energy Use - Pre & Post ECI




### Malott Hall: ECI Savings Table

| Utility | Historical Energy Use (MMBtu) | FY 2014 Energy Use (MMBtu) | Energy Savings (MMBtu) | % REDUCTION | Historical Cost (billed rates) | FY 2014 Cost (billed) | Annual Savings $ | Equivalent # Homes |
|---|---|---|---|---|---|---|---|---|
| **Electric** | 2,900 | 2,600 | 300 | 10% | $66,900 | $60,300 | $7,000 | 8 |
| **Steam** | 4,600 | 4,100 | 500 | 11% | $104,100 | $92,100 | $12,000 | 6 |
| **Chilled Water** | 2,200 | 1,700 | 500 | 0% | $41,100 | $31,300 | $10,000 | 10 |
| **Totals** | 9,700 | 8,400 | 1,300 | **13%** | $212,100 | $183,700 | $28,000 | **24** |

Energy use based on project scope

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