

# project profile



## Taking Climate Commitment to a Higher Level

Honeywell helped Coe College conduct a thorough inventory of its energy footprint and infrastructure needs to pursue the next steps in the college's climate commitment. The selected upgrades to its building equipment, lighting and infrastructure are expected to pay for themselves in utility and operational savings.

**Honeywell**

# An efficient path to conservation

## The Customer

### Coe College – Cedar Rapids, Iowa

- Founded in 1851, Coe College is a nationally recognized liberal arts institution; the school's more than 1,400 students are from 33 states and 15 foreign countries.
- The college's campus has doubled in size in recent years with new residential facilities and buildings to support key departments.
- Coe's president signed the American College and University's Presidents Climate Commitment (ACUPCC) in 2008, and set forth initiatives to reduce greenhouse gas emissions.

## The Problem

- Like many of its higher-ed peers, Coe College is faced with significant aging infrastructure and increasing energy and operational costs. As a private institution, Coe relies heavily on tuition and endowed funds for making facility improvements, which means investments have to be heavily scrutinized and prioritized.
- Coe College implemented conservation efforts such as waste minimization and a high-efficiency-appliances-only purchasing policy as steps toward its ACUPCC goals, but the school needed to evaluate the entire campus and commit to a larger investment in efficiency.

## Honeywell Solution

- A thorough evaluation of the campus facilities uncovered more than \$18 million in potential improvements to mechanical systems, lighting and other energy-intensive systems.
- Honeywell redesigned and reconfigured the air-distribution systems in eight buildings to improve both comfort and energy efficiency.
- Extensive lighting upgrades will improve lighting quality and efficiency by integrating with occupancy and daylight-harvesting sensors.
- Other upgrades include new steam and chilled water piping, heat exchangers, domestic water heaters and plumbing fixtures.
- Honeywell helped the college coordinate with the Iowa Economic Development Authority (IEDA), a resource available to public and non-profit entities to finance energy-efficiency improvements and renewable energy projects, to secure a loan with an interest rate that's almost half the industry standard.

## Key Technologies

- High-efficiency bulbs and fixtures to improve light quality while reducing consumption.
- Centralized building controls and monitoring to optimize heating, cooling and ventilation only when buildings and zones are occupied.
- Building envelope improvements to reduce the loss of conditioned air.
- New plumbing fixtures that will save an estimated 3-million gallons of water annually.

*"We are excited to be taking our campus commitment to the next level. We reviewed building-by-building energy efficiency opportunities and selected measures that will reduce our campus utility usage by over 20%." - Michael White, Executive Vice President at Coe College.*

## Guaranteed Impact

Funded through a performance contract, Honeywell guarantees the resulting energy and operational savings will pay for the upgrades. Specifically, the college is expected to:

Save more than \$220,000 or 23% in utility and operational costs.



Trim electricity use by over 2 million kWh, enough energy to power more than 150 homes on average.



Reduce its carbon footprint by over 2,300 metric tons or the equivalent of the annual emissions from 450 cars.



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