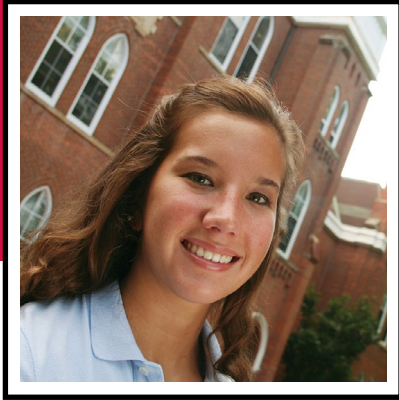


THE POWER OF ENERGY EFFICIENCY IN HIGHER EDUCATION



Sixty-two percent of college applicants said having information about a college's commitment to the environment would positively impact their decision to apply to or attend that school.¹

¹The Princeton Review 2013 "College Hopes & Worries" Survey

ENERGY MANAGEMENT IN HIGHER EDUCATION

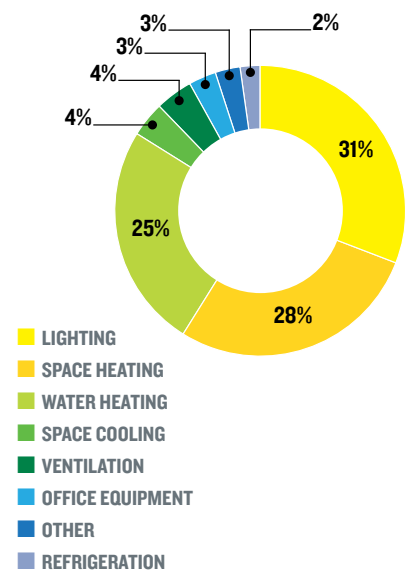
In the competitive world of higher education, maximizing enrollment is key to success. One factor important to prospective students is a demonstrated commitment to the environment. Increasing the energy efficiency of campus buildings and operations distinguishes a school as an environmental leader, provides opportunities to educate students about greenhouse gas emissions and resource stewardship, and helps achieve sustainability goals.

Higher education facilities have many opportunities to reduce energy use and costs through improved efficiency. ComEd's *Smart Ideas for Your Business*® program offers cash incentives and free technical assistance to help you get started.

SMART IDEAS® FOR REDUCING ENERGY USE

Higher education facilities are comprised of a wide range of building types—including office, classroom, housing, laboratory, health care and large assembly—that are typically owned, operated and maintained for decades. Increasing the energy efficiency of these buildings can reduce energy and maintenance costs, improve occupant comfort and help modernize the buildings to meet the needs of today's students and educators. Below are *Smart Ideas* cash incentives, technical services and whole-building solutions created to help improve the efficiency of these buildings.

ENERGY CONSUMPTION BY END USE—COLLEGE AND UNIVERSITY EDUCATION BUILDINGS



Source: U.S. Energy Information Administration

INDOOR AND OUTDOOR LIGHTING INCENTIVES

- » T8 and T5 fluorescent lamps and fixtures
- » LED lamps, fixtures and signage
- » CFL lamps and fixtures
- » Bi-level stairwell/hall/garage fixtures
- » Sensor-controlled wall pack fixtures
- » Refrigerated display case lighting and controls
- » Occupancy sensors
- » Daylighting controls
- » Photocells
- » Time clocks
- » Lighting control systems

COMMERCIAL KITCHEN INCENTIVES

- » Kitchen demand ventilation controls
- » Electronically commutated motors
- » ENERGY STAR® refrigerators, freezers and ice makers
- » ENERGY STAR hot food holding cabinet
- » Beverage and snack machine controls
- » Anti-sweat heater controls for glass door cooler/refrigerator

FUME HOOD INCENTIVES

- » High-performance, low-flow fume hood
- » VAV fume hood
- » Fume hood occupancy control
- » Automatic fume hood sash closer
- » Sash stops
- » Low pressure drop air filters

HVAC INCENTIVES

- » Building energy management system
- » Guest room energy management system
- » Demand controlled ventilation (interior and parking garage)
- » Demand controlled ventilation (kitchen exhaust hoods)
- » Air-side economizer
- » ECM on fan-powered box
- » Restroom exhaust fan occupancy sensors
- » Wireless DDC thermostat
- » Water- and air-cooled chillers
- » VSD on HVAC chiller, fan or pump
- » Chilled water reset controls
- » High efficiency water pumps and retrofits

RETRO-COMMISSIONING INCENTIVES

- » Expert analysis of building systems that identifies no-cost and low-cost operational improvements to optimize electricity and gas usage

NEW CONSTRUCTION INCENTIVES

- » Cash incentives and technical assistance, such as energy modeling, to support architects and engineers in designing high-performance buildings

DATA CENTER INCENTIVES

- » Technical assistance and cash incentives for installing energy-efficient equipment and systems in new or existing data centers

SMART IDEAS OPPORTUNITY ASSESSMENT

- » A free, on-site facility assessment conducted by a ComEd engineer to identify energy-efficient opportunities eligible for *Smart Ideas* incentives

FOR MORE INFORMATION

For more information about *Smart Ideas* incentives, visit ComEd.com/BizIncentives, call **855-433-2700** during normal business hours to speak with a *Smart Ideas* service representative or email us at SmartIdeasBiz@ComEd.com. Public sector institutions should contact the Illinois Department of Commerce & Economic Opportunity at www.ilenergynow.org for information about available incentives.



PROJECT SNAPSHOT → NORTHWESTERN UNIVERSITY

MEASURES IMPLEMENTED

→ Data Center

TOTAL PROJECT COST

→ \$203,200

ESTIMATED ANNUAL ENERGY SAVINGS

→ 823,903 kWh

ESTIMATED ANNUAL COST SAVINGS

→ \$61,793

SMART IDEAS INCENTIVE RECEIVED

→ \$57,673

ESTIMATED PAYBACK PERIOD WITHOUT SMART IDEAS INCENTIVE

→ 3.3 years

ESTIMATED PAYBACK PERIOD WITH SMART IDEAS INCENTIVE

→ 2.4 years



PROJECT SNAPSHOT → ILLINOIS INSTITUTE OF TECHNOLOGY

MEASURES IMPLEMENTED

→ Retro-commissioning

RETRO-COMMISSIONING STUDY COST

→ \$60,400 (Incentive)

IMPLEMENTATION COST - PAID BY IIT

→ \$14,000

VERIFIED ANNUAL ENERGY SAVINGS

→ 307,845 kWh

ESTIMATED ANNUAL COST SAVINGS

→ \$27,706

ESTIMATED PAYBACK PERIOD WITHOUT SMART IDEAS INCENTIVE

→ 2.7 years

ESTIMATED PAYBACK PERIOD WITH SMART IDEAS INCENTIVE

→ 6 months