



Energy Efficiency
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Kilowatt Sponsor





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Steering the Journey

Energy Efficiency in Higher Education

Ameren Illinois Energy Efficiency Program Overview



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- Illinois Mandated: Energy Rate Relief Act in 2008.
- Program Goals:
 - Provide financial incentives to lower the cost of energy-saving equipment upgrades.
 - Save Ameren customers money on future utility bills.
- Must be an Ameren Illinois natural gas or electric customer.





Real Savings

- Financial incentives can help businesses:
 - Cut project costs
 - Decrease payback periods
 - Move energy efficiency projects forward!

Business customers have received an average of **\$34.4 million** in annual incentives over the past five years.

The Ameren Illinois Energy Efficiency Program has helped Illinois businesses save over **\$1.4 billion** in energy costs since 2008.





Incentives Overview



**Indoor and Outdoor
LED Lighting**



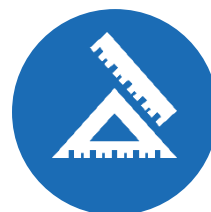
**Heating, Cooling
and Ventilation**



**Specialty
Equipment**



**New Construction
Projects***



**Retro
Commissioning***



**Custom
Projects***

**Pre-approval is required*

[**AmerenIllinoisSavings.com/Business**](http://AmerenIllinoisSavings.com/Business)

Territory Energy Advisors



Energy Advisors

- For Large Industrial and Small Business customers.
- Free site walk-throughs and project consultations.
- Assistance identifying energy efficiency needs.
- Assistance with application process.

Find an Energy Advisor:

AmerenIllinoisSavings.com/EnergyAdvisor



It's Time to Act!



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LED Lighting Incentives

- \$0.50 per watt reduced on interior and exterior LED replacements
- Must be DLC-approved lighting
- Eligible incentives include:
 - LED tube and fixture replacements through an approved distributor
 - Networked Lighting Controls (includes LLLC)
 - Seasonal lighting
 - Grow lighting
 - Cooler/freezer lighting and controls

AmerenIllinoisSavings.com/Lighting



Higher Education Savings





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Projects at Southwestern Illinois College

Michael Mance

Manager of Work Control
Southwestern Illinois College



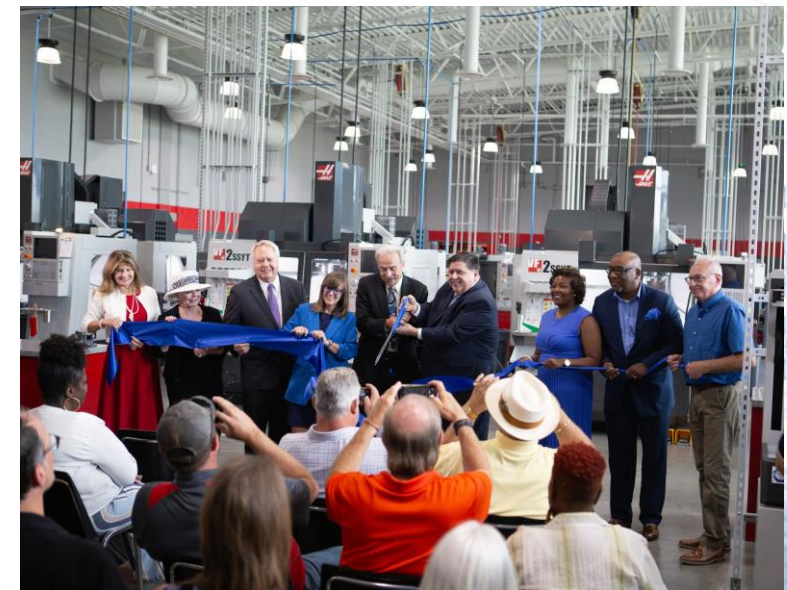
SWIC Ongoing Projects

- **Replaced seven air handling units (AHUs) and rooftop units (RTUs)** with high-efficiency models to improve performance and reduce energy use.
- **Installed solar-powered picnic tables** to promote renewable energy and provide outdoor learning spaces.
- **Upgraded the existing boiler to a high-efficiency unit** to enhance energy performance and lower emissions.
- **Converted standard electrical outlets to smart outlets** in select areas for improved energy monitoring and control.
- **Hired a Facilities Data Analyst** to track utility usage and support carbon-reduction initiatives.
- **Acquired electric and battery-powered lawn care equipment** to decrease both carbon emissions and noise pollution across campus.



SWIC Previous Projects

- Converted gymnasium lighting with **56 high-efficiency LED fixtures**, cutting energy use and maintenance.
- Upgraded lighting in 80+ classrooms, offices and hallways, replacing **1,000+ fixtures with LEDs and occupancy sensors** for improved savings and quality.
- Replaced eight AHUs with **high-efficiency models tied into a four-pipe HVAC system** to support future expansion.
- Renovated former auto collision shop into a state-of-the-art Computer Numerical Control (CNC) lab, with new **RTU and LED lighting**.
- Installed **eight dual-port EV charging stations** districtwide, open for public use.



SWIC Future Projects

- Integrate **Luminaire Level Lighting Controls (LLLC)** across the district, connected to the existing Building Automation System (BAS).
- Expand **solar field capacity** districtwide to increase renewable energy generation.
- Install **additional EV charging stations** to support growing demand.
- Convert **quad-area lighting to LED** for improved efficiency and reduced maintenance.
- Implement **geothermal heating and cooling systems** to lower long-term operating costs and carbon footprint.



SWIC and Ameren Illinois Energy Efficiency Program Partnership



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- 2019 – 2025
- Completed 26 energy conservation measures with Ameren Illinois incentives.
 - Generating annual savings of **1,050,217 kWh** and **1,600 Therms**.
 - Secured **over \$150,000** in incentives to date.
- 2025 – Established recurring strategic meetings with Ameren Illinois Energy Advisors.
 - Attended Ameren Illinois LLLC University.
 - Strengthening collaboration and building a foundation for future ECM savings while maximizing incentives for SWIC.

GET STARTED

IDENTIFY PROJECT
PLAN TO SAVE
CONSULT AN ADVISOR
MEET WITH ADVISOR
REVIEW AND APPROVE
PROJECT PLAN

CONTACT US

1.866.800.0747
IllinoisBusinessEE@ameren.com
AmerenIllinoisSavings.com/Business

WAYS TO SAVE AT HOME

Residential Incentives Available

In addition to providing incentives for your business, the Ameren Illinois Energy Efficiency Program offers ways to save for your home, including:

- Home Efficiency Upgrades
- Heating and Cooling (HVAC)
- Appliance Rebates
- Smart Thermostats
- Online Marketplace
- Ameren Illinois Efficient Choice Tool

The Ameren Illinois Energy Efficiency Program

Start saving on energy costs with financial incentives for your facility!

Ameren ILLINOIS

STEP ONE TO SAVING
WITH ENERGY EFFICIENCY

Sign up for LLLC University!

Luminaire Level Lighting Controls Workshops

- November 6** - Millikin University, Decatur
- November 7** - Southern Illinois University, Carbondale
- November 12** - Bradley University, Peoria
- November 13** - Southern Illinois University, Edwardsville

Register at AmerenIllinoisSavings.com/LLC-University.



Michael Mance

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IGEN and Green Infrastructure at Community Colleges



David Husemoller
Executive Director
Illinois Green Economy Network

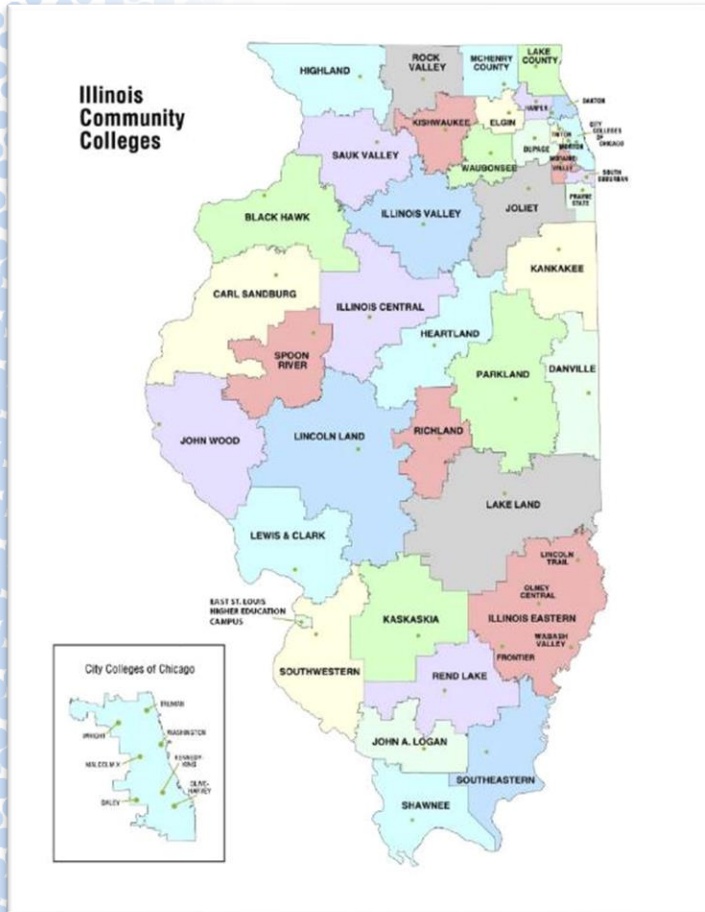
Illinois Green Economy Network (IGEN)



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- Formed in 2008-09 by community college presidents and boards of trustees to:
 - Foster collaboration among community colleges and partners
 - Accelerate green workforce training
 - Drive the clean energy economy
- 39 Community College districts



Sharing resources among community colleges across Illinois:

- Financial support
 - Energy efficiency projects
 - Renewable energy
 - Curriculum development
- Technical assistance through EnergySense (U of I)
 - Specific building or mechanical systems
 - Whole building comprehensive assessment





Financial assistance – annual Notice of Funding Opportunity (NOFO)

- >\$1 million annual allocation
- ~15 projects at colleges across Illinois
- Energy, utility budget and GHG emissions savings
- Student impacts



Technical assistance – EnergySense

Example:

“It is a best practice where feasible to install three boilers, sized for half of the expected load instead of full-sized boilers. This provides for additional redundancy as well as better control and efficiency...”



Image 2: 4 Pass 1960s firetube steam boiler

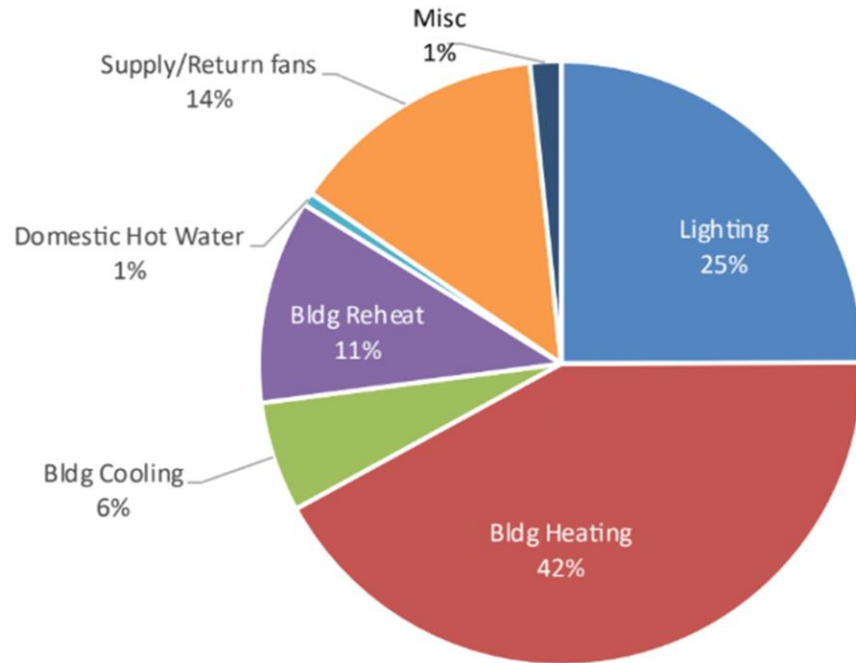


Figure 4: Energy Use Breakdown (Energy in kBtu)

Whole Building Comprehensive Assessment

Example:

- General Building Conditions
- Site Conditions
- Building Envelope
- HVAC Systems
- Lighting and Internal Loads
- Domestic Hot Water
- Multiple Recommendations

- Bringing together resources for this college
 - Identified **over \$350,000** in incentives
 - Grant sub-award for **\$110,000** for improvements
- Developing resources for colleges to use more incentives



Opportunities and Stacking Funding:

Paying for Energy Efficiency and Renewable Energy Projects in Illinois Colleges



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Energy Benchmarking and Efficiency at Community Colleges (EBECC)

- New program starting this fall for six community colleges
- Benchmark energy usage data
- Submeter buildings
- Make long-range plans for improvements





David Husemoller

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Questions?