



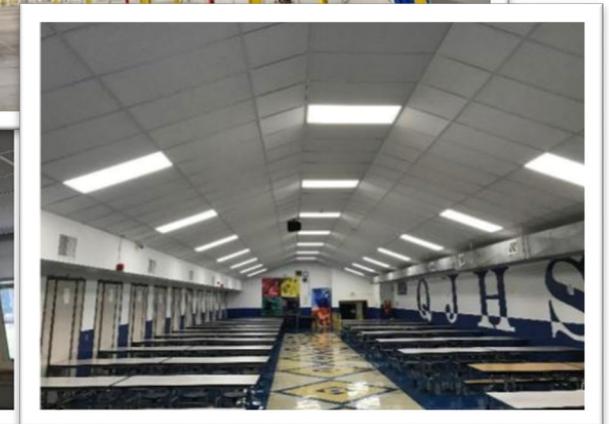
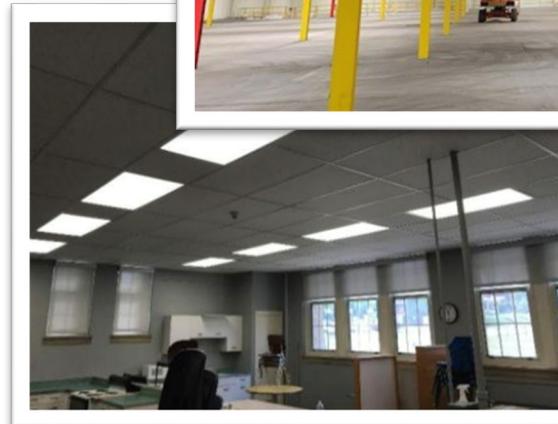
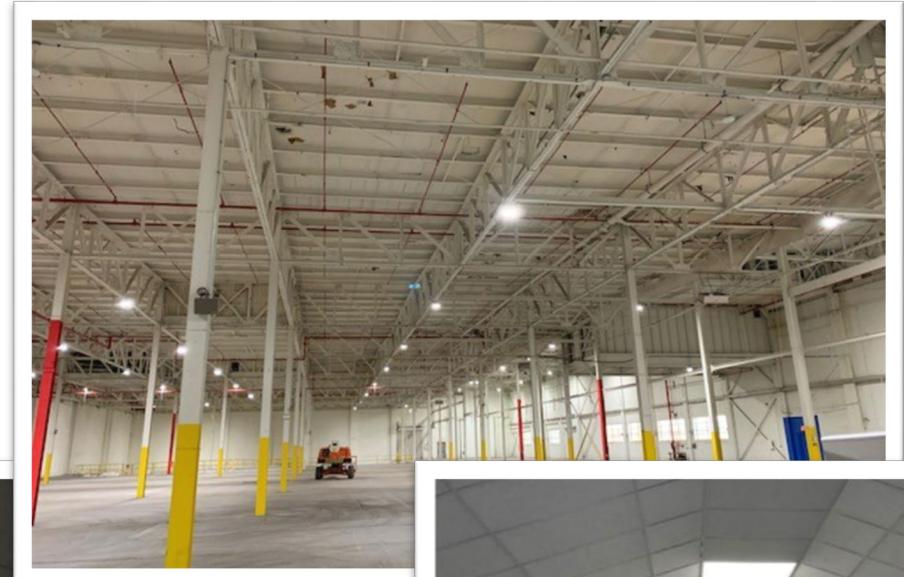
NETWORK LIGHTING CONTROLS UPDATE SAG SUBCOMMITTEE MEETING

MARCH 07, 2023

AmerenIllinoisSavings.com

Agenda

- Historical Networked Lighting Controls Projects
 - 2018 – 2022
- 2022 Offering
 - Participation Pathways
 - Incentives
 - Marketing
 - Training & Education
- 2023 Offering
 - Participation Pathways
 - Incentives
 - Marketing
 - Training & Education
- Considerations for 2023 & Beyond



Historical Networked Lighting Controls Projects

Year	Number of Projects	Gross kWh
2018	1	152,000
2019	1	27,000
2020	0	0
2021	9	204,000
2022*	15	439,800

* 177,600 of 2022 savings is attributed to projects that participated in the Program Ally LLLC Pilot

2023 Pipeline is forecasted to increase savings above 2022



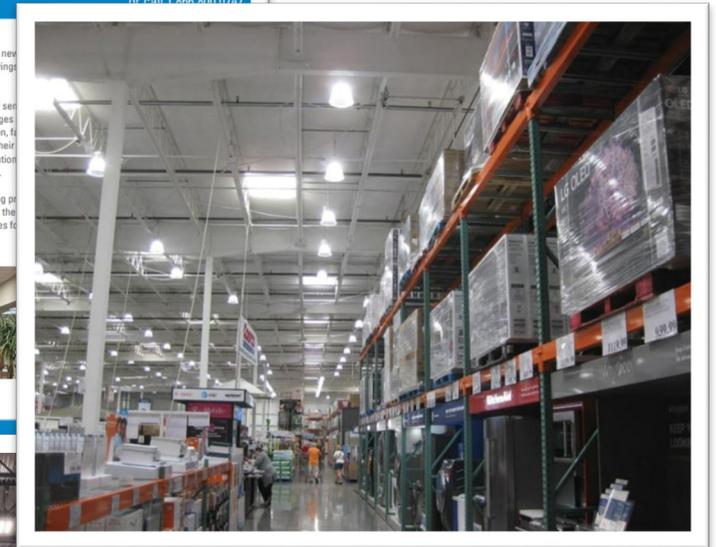
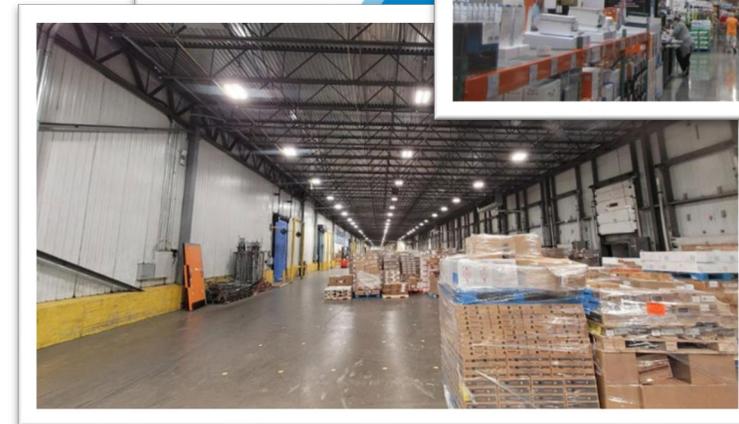
2022 Offering

Participation Pathways:

- Standard Lighting
- Program Ally LLLC Pilot

Control Technologies Incentives:

- Standard Lighting: NLC
 - \$0.75 per watt controlled – no existing controls
 - \$0.40 per watt controlled – existing occupancy or daylight only controls
- Program Ally LLLC Pilot
 - up to \$0.50 per watt controlled



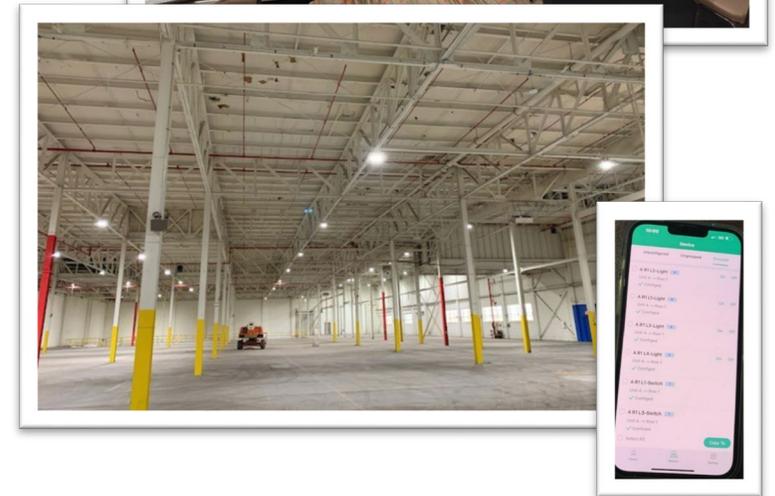
2022 Offering

Marketing Energy and Non-Energy Benefits:

- Included NLC as topic for both the Customer and Program Ally monthly newsletter throughout the year
- Sent NLC email promotion to Customers and Program Allies
- Power Lunch Webinar on NLC incentives and benefits offered to Customers and Program Allies
- NLC session included at AIC annual Business Symposium and at ISPE seminar

Training & Education:

- Offered 3 Free 2-day Program Ally training for LLLC
- Emergency Lighting Webinar: Focused on how LLLCs help with meeting Emergency Lighting Egress requirements



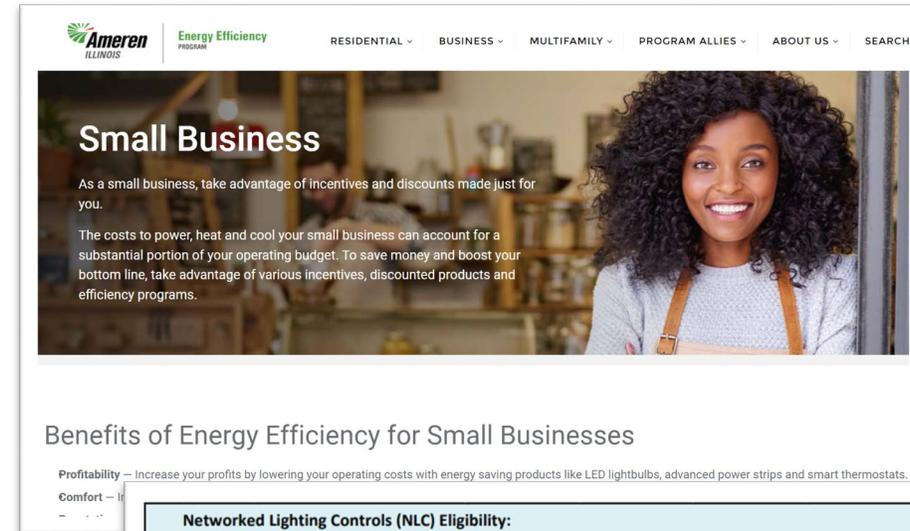
2023 Offering

Participation Pathways:

- Standard Lighting
- Small Business Direct Install

Control Technologies Incentives:

- NLC standard lighting incentives:
 - \$0.50 per watt controlled – NLC
 - \$1.50 per watt controlled – LLLC
- SBDI:
 - NLC (includes LLLC) – \$1.25 per watt controlled



Networked Lighting Controls (NLC) Eligibility:

- New installations only; not to replace existing networked lighting controls
- Interior spaces only; exterior spaces may apply using the Custom application
- Total Watts Controlled is the wattage of all LED light fixtures connected to the NLC system
- System must enable three or more control strategies
- System must be listed on the DLC Networked Lighting Controls Qualified Products List: www.designlights.org/lighting-controls/

Description	System Type	Control Strategies (Minimum 3)	Total Watts Controlled (A)	Measure	Incentive per Unit (B)	Total Incentive (A) X (B)
Networked Lighting Controls (Interior Only)	Non-LLLC installation (Single controller/sensor controls multiple luminaires)	<input type="checkbox"/> Occupancy/Vacancy <input type="checkbox"/> Daylighting <input type="checkbox"/> High-end trim <input type="checkbox"/> Dimming <input type="checkbox"/> Scheduling		BPL32	\$0.50/watt controlled	\$
	LLLC installation (Each luminaire has its own controller/sensors; DLC listing indicates LLLC)			BPL32	\$1.50/watt controlled	\$



2023 Offering

Marketing Energy and Non-Energy Benefits:

- Promote NLC benefits in Monthly newsletters for both Customers and Program Allies
- Power Lunch Webinar for Customers and Program Allies on NLC benefits
- NLC session included in Spring EBMI Event, AIC Business Symposium, and other events
- Develop NLC Benefits Marketing Collateral for Installation Contractors, Distributors, and Customers

Training & Education:

- Revising Program Ally training for Q2 and Q3
- Revising Webinar Education for Q2 and Q3

The image displays two pieces of marketing collateral for the Ameren Illinois Energy Efficiency Program. The top flyer is for an "Emergency Lighting and Luminaire Level Controls (LLCs) Webinar". It features a photo of a person adjusting a ceiling light fixture and the Ameren Illinois logo. The text describes the webinar's focus on reviewing requirements for emergency lighting systems and the benefits of LLCs. The bottom flyer is for "Networked Lighting Controls". It features a photo of a modern office interior with a ceiling light fixture. The text highlights the benefits of networked lighting controls, such as energy savings and improved operational efficiency. Both flyers include contact information for the Ameren Illinois Energy Efficiency Program, including the website AmerenIllinoisSavings.com/Lighting and the phone number 1.866.800.0747. The bottom flyer also includes a table of incentives for replacing manual on/off or no controls and occupancy-only controls.

Emergency Lighting and Luminaire Level Controls (LLCs) Webinar

Join us for a webinar on Emergency Lighting and Luminaire Level Controls (LLCs)

Emergency lighting – more appropriately called emergency egress lighting – is required on every commercial, industrial and institutional project. Recent changes to codes, including NFPA 101, have had an impact on techniques and methodology for providing emergency lighting in spaces. In this 1-hour webinar, we will review requirements for providing emergency egress lighting and equipment that allows you to satisfy those requirements. We will specifically review techniques for providing emergency lighting when you use a networked lighting control system, including LLC systems. Many of these new LLC systems make it much easier to comply with the need to provide emergency lighting, while at the same time providing tons of flexibility and energy savings while normal power is available.

Networked Lighting Controls

Just as LED bulbs forever changed the lighting industry, a new revolution in lighting controls promises to take energy savings to the next level.

Networked Lighting Control systems use a combination of sensors, network interfaces, and controllers to make lighting changes in luminaires, retrofit kits, or lamps. From a single workstation, facility operators can fine tune, measure, monitor, and maintain their lighting system while generating data that will help improve operational efficiency along with the occupant experience and safety.

By adding Networked Lighting Controls to your LED lighting projects, you can boost energy savings by nearly 50%*. Even more, the Ameren Illinois Energy Efficiency Program offers incentives for Networked Lighting Controls to help you save money!

Incentives

Replacing Manual On/Off or No Controls: \$0.75/watt controlled

Replacing Occupancy-only, vacancy-only, or daylight-only controls: \$0.40/watt controlled

LEDs: A Bright Idea

Lighting upgrades are often the easiest and most affordable way to save energy in a business. ENERGY STAR® LED lighting uses up to 90% less energy and lasts 25-50 times longer than incandescent lighting.** The Ameren Illinois Energy Efficiency Program offers cash incentives on a variety of LED lighting upgrades and projects.

Visit AmerenIllinoisSavings.com/Lighting or call 1.866.800.0747.

*According to the Design Lights Consortium (DLC)
**According to energystar.gov



Considerations for 2023 and Beyond

Participation Pathways:

- Continue inclusion in Standard and SBDI to ensure access across customer segments
- Collect Program Ally feedback for incentive levels

Marketing Energy and Non-Energy Benefits:

- Develop Sales training support
- Develop Marketing Collateral that identifies:
 - Choosing NLC vs. LLLC
 - NEBs

Training & Education:

- Develop unique trainings for Installation Contractors & Distributors to expand

AIC NONRESIDENTIAL NEIs CASE STUDY RESULTS

MANUFACTURING/ INDUSTRIAL

LED LIGHTING
Customers said upgrading to LEDs increased overall lighting quality and brightness, resulting in improved facility safety, product quality, and worker happiness, as well as decreased administration, waste disposal, and maintenance costs associated with replacing burned-out bulbs.

OPERATIONS AND MAINTENANCE

- Participants commonly reported decreased administration costs associated with ordering new bulbs and changing out old ones. Cost savings ranged between \$200 and \$2,145 annually.
- One process manufacturer said they went from a dozen bulb replacements per week in office settings to none.

WORKSPACE COMFORT

- Participants frequently noted increased positivity in the workspace and said the LED lighting was brighter and more natural. One

REDUCED DOWNTIME

- A truck body manufacturer reported saving \$500,000 in avoided annual facility downtime costs. Before their upgrade a bump in power meant they had to wait for the metal halides to cool before re-lighting, causing a halt in production.
- A construction aggregate producer said the LEDs do not require the 30 minutes of warm-up that their old fixtures required, resulting in approximately \$3,400 in annual labor savings.

SAFETY

- Participants said the lighting upgrade improved exterior facility safety due to increased brightness and bulbs burning out less frequently.

"Good lighting means you can see what you're working with much better. So, if you want to assess quality out on the floor, if you've got good lighting, you now can assess the quality of the product that you're producing more easily."

"Eliminating the glass lenses in the fixtures or the light tubes saved the plant safety from a food safety standpoint by standpoint, because no one's going to get hurt by..."

Non-energy benefits of LLLC systems

- Asset Tracking
- Space Utilization
- Indoor Positioning
- Diagnose and Report
- Conference Room Scheduling
- Security
- Energy Tracking
- Integrate with BMS/HVAC





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