



**AMEREN ILLINOIS - UPDATE
SAG MARKET TRANSFORMATION
SAVINGS WORKING GROUP**

APRIL 21, 2022

AmerenIllinoisSavings.com

Luminaire Level Lighting Controls (LLLCs) – Market Transformation Pilot

A recent study¹ showed significant 50 – 74% annual energy savings from 1:1 replacement of luminaire level lighting controls (LLLCs) compared to 59% savings of a full redesign, and at about one-third to half of the cost.

Yet, LLLC adoption is low, with connected lighting comprising less than 1% of all luminaires in the US².

Ameren Illinois' LLLC market transformation initiative seeks to remove barriers to increase LLLC adoption and bring about lasting change to the market:

Barriers	Tactics
Market actors' lack of awareness and familiarity	Case studies from pilots; engagement with business owners, lighting designers, distributors, program allies and internal AIC staff
Lack of skilled program allies	Design and offer training on fundamentals and commissioning of LLLC
Upfront costs	Incentives for pilot installations for 2022 to 2025

¹<https://neea.org/resources/lllc-replacement-vs-redesign-comparison-study>

²[Trends In Lighting Controls: Luminaire Level Lighting Controls \(facilityexecutive.com\)](https://www.facilityexecutive.com/trends-in-lighting-controls-luminaire-level-lighting-controls)



Completed Activities and Future Plans

Completed Activities:

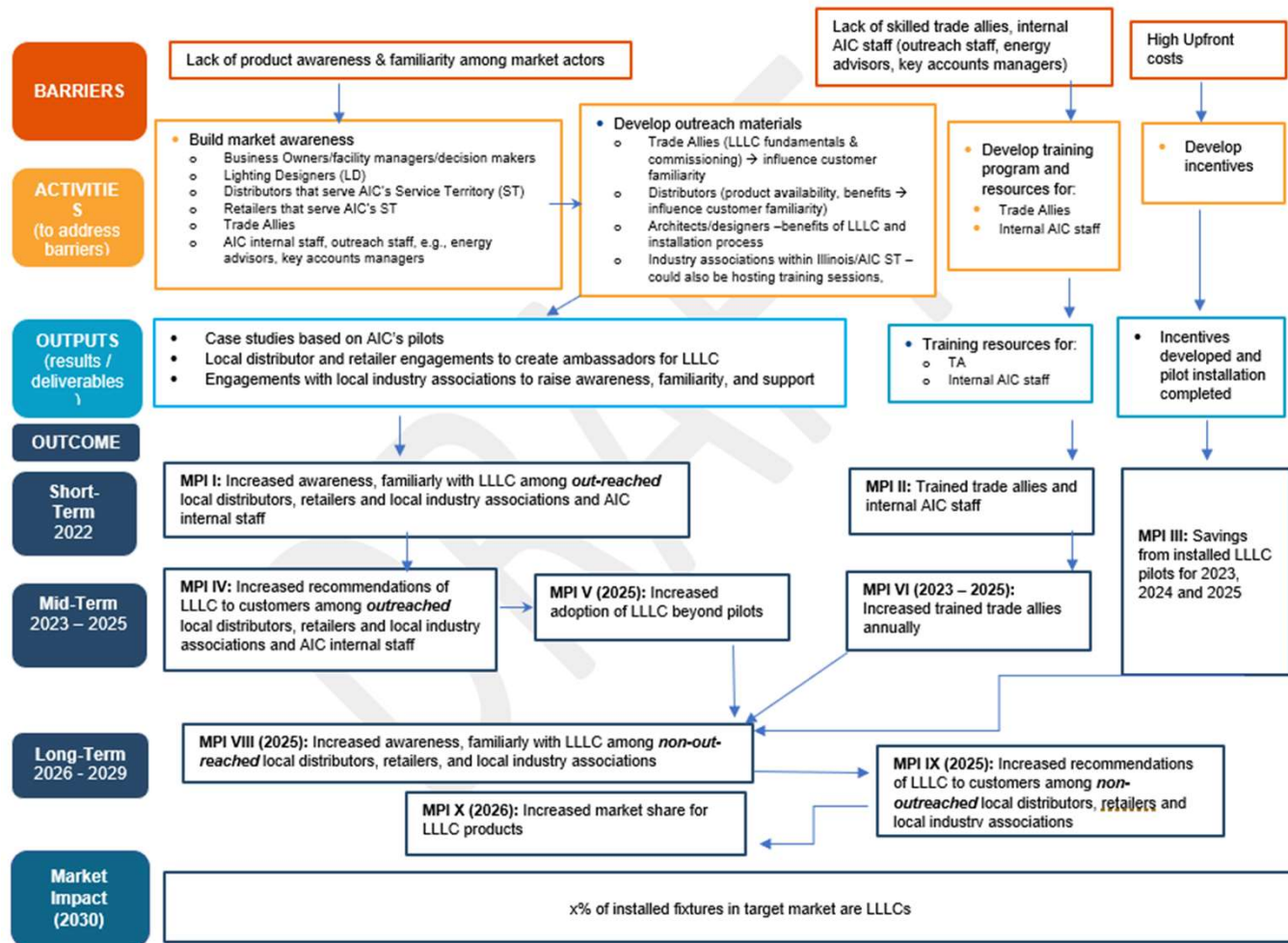
- Soft launch of the pilot installation in November 2021, resulting in an approved installation in 2022 for a warehouse, with savings estimated to be 171,000 kWh annually.
- Course content for Program Ally training on fundamentals and commissioning of LLLCs
- Two-day Program Ally training in April in Springfield, IL (April 26-27, 2022)

Future Plans:

2022	<ul style="list-style-type: none"> • Webinars to raise awareness and familiarity among industry associations • Continue to recruit for pilot installations • Build case studies from pilot installations • Establish baselines via surveys to track adoption progress • Conduct customer analytics for a deeper understanding of Ameren Illinois' small business customers to identify market size as well as primarily and secondary target markets to enhance outreach efforts • Establish initial natural market baseline • Establish market effects savings protocol
2023 – 2025	<ul style="list-style-type: none"> • Continue to build a base of trained Program Allies • Continue outreach to industry groups • Continue with pilot installations • Evaluation to track adoption • Continue to refine strategy with learnings from the previous year



AIC LLLC Logic Model



Two-Day Program Ally Training – Build Awareness, Familiarity and Skillsets → Increased Ability to Convert LLLC Sales

Training Objectives: Day 1 — Fundamentals of LLLC

- Understand the differences between room-based, non-LLLC (Luminaire Level Lighting Controls) and LLLC lighting control systems and pros and cons of each.
- Identify new types of advanced lighting controls that can reduce complexity and cost of installation and setup.
- Use a new publicly available tool to understand, evaluate, and compare available networked lighting control systems.
- Install and setup a wireless LLLC lighting control system.

April
Springfield IL

July
Peoria IL

Training Objectives: Day 2 — Commissioning of LLLC

- Understand the differences between protocols and topologies for various LLLC lighting control systems.
- Identify different types of lighting fixtures and controls that provide color-changing and tunable-white functionality.
- Distinguish between controls that provide different levels of integration in terms of IoT (Internet of Things) and identify COVID mitigation strategies.
- Install and setup a wireless Bluetooth LLLC lighting control system.

October
Collinsville IL



Advanced Windows (TTW)

- Ameren Illinois partnered with Nicor Gas and ComEd in 2021 to conduct a qualitative market characterization study via in-depth interviews with market actors, to understand market dynamics, barriers and opportunities
- In 2022, Ameren Illinois will participate in the Partnership for Advanced Windows (PAWs) and will explore partnering with Nicor Gas and ComEd to conduct quantitative market research, to confirm the key findings of the market characterization study, and revise market size and market potential



Questions?

Thank you.





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