

The background features a network diagram with white lines and circular nodes. The nodes contain icons: a flame, a storefront, three gears, and a server rack. The text is centered within a white-bordered box.

Emerging Tech Lightning Round

Ameren Illinois, Nicholas Crowder

Ameren Illinois Energy Efficiency Pilot Research



- Residential
 - Solar Powered Attic Fan Study
 - Efficient Choice Tool
- Market Development Initiative
 - Accessibility Pilot
 - Healthy Homes Pilot with Indoor Climate Research & Training Center
 - Southtown Construction Knob and Tube Remediation
 - SEDAC Workforce Development
 - Friends of Central Illinois
- Commercial
 - Geothermal Heat Pump Pilot
 - Enhanced Agricultural Audit
 - Virtual Commissioning
 - Energy as a Service
 - Illinois Capital Development
 - Network Lighting Controls
 - Process Energy Advisors
 - SBDI Program Ally Training
 - Small Business Building Envelope
 - Houses of Worship
 - Upstream Program Model Measures

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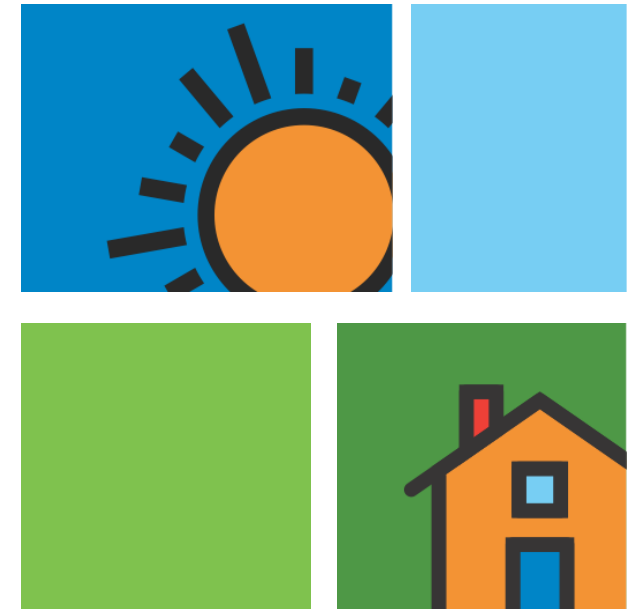
“One of my goals has been to ensure that all utility customers have an opportunity to receive real and meaningful savings from the Energy Efficiency Program they have been paying for.”

*- Richard Mark
Ameren Illinois Chairman & President*

Solar Powered Attic Fan Study



- **Purpose:** To assess the impact to homeowner's savings, comfort, and humidity reduction by installing a solar powered mechanical attic fan
- **Scope:** Identify 24 homes to receive a free solar powered attic fan. The study will require a data tracker be installed to assess attic temperature, humidity, fan run time, and fan speed to aid in modeling the energy saved during the summer months by way of the reduced cooling load achieved
- **Next Planned Steps:** Timeline of the execution of the data capturing product and the fan itself is in development



Efficient Choice Tool

- The Efficient Choice tool analyzes product data across major retailers to compare energy-efficient products by type, brand, and model
- The Enervee Score[®] shows how efficient a product is compared to all the other products currently for sale in the category - the closer to 100, the more efficient the product
- The CLEARCOST[®] shows what a product may cost to purchase and run over its lifetime
- The YOUSAVE[®] shows how much money can be saved by choosing one product over a less efficient product



***Empowering
customer choice***

Accessibility Pilot



- **Purpose:** Install smart home technology for homeowners with mobility challenges to improve quality of life
- **Scope:** Upgrades to 11 homes throughout the service territory
- **Results/conclusion:** Pilot effort was to target 30 participants; 2020 efforts were stalled due to COVID
- **Next Planned Steps:** Extended Pilot to PY2021 and complete 30 homes once we are able to return to the field



Access to Independence

At no cost to the customer, the Accessibility Pilot Program provides a custom set of measures which include:

Healthy Homes Pilot



- **Purpose:** Provide air monitoring equipment for the Indoor Climate Research and Training Center (ICRTC) in order for them to test equipment in homes with individuals with pre-existing respiratory conditions; outcomes will be tracked via indoor air monitoring and logging equipment to quantify relevant indoor air quality metrics
- **Scope:** Targeting as many as 10 homes in the service territory
- **Results/conclusion:** Due to COVID, this effort was placed on hold and no projects were completed
- **Next Planned Steps:** Restart efforts once ICRTC staff has clearance to return to the field

*Saving energy
while also
providing a
healthier living
environment*

Geothermal Heat Pump Pilot 2020



- **Purpose:** To get geothermal energy savings based around a newly added measure to the statewide TRM. A calculator tool was created for the Pilot to handle the custom calculations involved and allow us to use the pilot to gauge interest and make adjustments to the Offering
- **Scope:** Both ground source or ground water source heat pump systems allowed
- **Results/conclusion:** Received interest in the Offering and completed the first project in 2020 for a school district
- **Next Planned Steps:** After the Pilot in 2020, geothermal is being offered as standard Program Offering in 2021

Instructions	
Fill out inputs in order from top to bottom. If you change one, make sure to re-verify all the inputs below the change	must enter input
	default value - use actual value if known
	deemed value

This tool does not yet calculate savings from DHW - some inputs not needed

Use Case	
Utility type	-Choose One-
Program Type	-Choose One-
Verify the project meets eligibility requirements to right- review carefully	-Choose One-
	STOP here - this tool does not calculate savings for ineligible projects
Existing Heating Fuel	-Choose One-
Use Case Chosen:	
Inputs Incomplete	

Site Information	
Building Type	-Choose One-
Climate Zone	-Climate Zone-

Enhanced Agricultural Audit Pilot



- **Purpose:** To get additional savings from the agricultural/farm sector beyond typical lighting projects
- **Scope:** Combination of additional new prescriptive measures and farm audit offering. Farm audits will look at all aspects of energy efficiency from grain dryer to specialized equipment. Initial audits are covered at full cost
- **Next planned Steps:** Initial applications are being received in January 2021. Several applications have been received so far. Audits planned to be started in February 2021





Questions?