

A photograph of an electrician wearing a bright yellow-green hard hat with the Ameren logo, safety glasses, a high-visibility yellow-green vest over a grey long-sleeved shirt, and work gloves. He is holding a pair of pliers and looking off to the side. The background shows a utility site with power lines and a worker on a bucket.

PY2023 Morning Brief Series:  
**Electrification 101**  
July

- Program Updates: Scott Marner
- Electrification: Brook Cranford and Caryn DeSignor
  - What is an electrification project?
  - Why are electrification projects being offered?
  - Who is eligible for electrification projects?
  - When will electrification projects start?
  - How are electrification projects executed?
- Questions and Answers

# Program Updates: HEIQ Workbook

- Added indemnification and waiver language to Section 5.

SECTION 5: RESERVATION REQUEST - CUSTOMER AUTHORIZATION OF PROJECT			
<p><b>Indemnification and Waiver:</b> Customer agrees to release, indemnify, defend and hold harmless Ameren Illinois, the Prime Implementer (Leidos, Inc.), and their respective affiliates, subsidiaries, parent companies, officers, directors, agents, subcontractors, and employees (collectively the "Indemnities"), against all claims, losses, damages, expenses, fees, costs and liability of any nature whatsoever arising from any program, design, consulting, measures, product, system, equipment, appliance, or the installation thereof. Customer agrees that such obligations under this section shall survive any expiration or termination of this Agreement and shall not be limited to any remunerations herein of required insurance coverage. To the maximum extent permitted by law, the Customer agrees to limit Indemnities' liability to the Customer for any reason to the total amount of payments identified in this Agreement. This limitation shall apply regardless of the cause of action or legal theory pled or asserted. Customer hereby expressly waives the right to specifically enforce this Agreement.</p>			
<p>I, the undersigned, agree that the information above is representative of what has been discussed and proposed by the participating program ally (contractor). I understand that Ameren Illinois program incentives and financing are subject to qualifications and not guaranteed.</p>			
Customer Signature		Date	
Program Ally Signature		Date	

- Knee wall pricing and requirement.
- Tier 2 "90%" calculations.

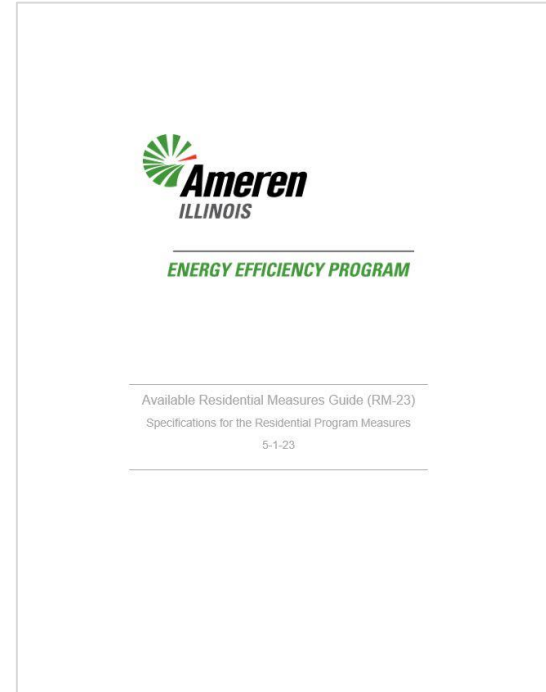
- Form entry required to display incentive for Tier 2 customers.
  - HVAC measures:
    - Select appropriate measure.
    - Select quantity.
    - Enter input BTUH.
  - HPWH measure:
    - Select HPWH product.
    - Select quantity.
    - Enter rated capacity.

# Program Updates: Available Residential Measure Guide



Updated for recent changes in 2023

- Inflation Reduction Act Income Tax Credit Eligibility entry.
- New knee wall measure description.
- Home Efficiency and HEIQ measures separated.
- Infiltration testing pressure requirement.



## Electrifiwhat?

- Electrification:
  - *Electrification is the process of powering by electricity and, in many contexts, the introduction of such power by changing over from an earlier power source (e.g. Fossil fuel).*
- Electrification projects:
  - No cost project to residential, income qualified (IQ) customers – Tier 1 Low Income
  - Switch heating source from propane to electric.
  - Electrification projects will be pursued only when it is expected to reduce IQ customers' total energy bill and the customer agrees to the electrification measure installations.
  - Opportunity for additional electric appliance upgrades .
  - Projects may include only mechanical measures, but building envelope measures will create most energy savings for these customers.

- Decarbonization is a key focus of energy legislation both in Illinois and around the country.
  - *Decarbonization: the reduction of carbon dioxide emissions through the use of low carbon power sources.*
- A commitment in Ameren Illinois Commission approved four-year energy efficiency plan negotiated with stakeholder groups.
- Switching to heat supplied through electricity instead of propane will not only save the customer money on heating costs but will also give the convenience of using Ameren electric already supplied to the home.
- Replacement of combustion sources in the home with electric powered equipment can positively benefit indoor air quality.

# Electrification: The Who

## Who's Eligible? Who Delivers? Who Designed This?

- Residential IQ customers (Tier 1) who use propane gas to heat their homes with no access to natural gas.
- Available to customers living in:
  - Single-family homes.
  - Rental properties with landlord agreement.
  - Mobile homes.
- Reaching customers will be the focus of a concerted marketing effort to the areas where these customers live.
  - Program Allies are encouraged to engage their income qualified propane customers.
- Any Program Ally and their approved subcontractor partner are eligible to serve these customers.
  - Field Energy Specialists will follow up after today's call for your participation in electrification projects.

- As electrification measures are new to the Program and to the statewide utilities, work has just been completed on savings calculations and project documentation.
- Marketing to this customer group has begun in selected areas where no gas expansion opportunities exist.
- Electrification project leads will be distributed following the documentation training:
  - **Work Scope and Bill Impact Analysis Tool Training - July 25 @ 8:30am.**
  - Lead distribution – referred by Program Ally or rotation of Program Allies conducting electrification projects.



# Electrification: The How

## Delivering The Electrification Part

- Focus on displacing propane gas furnaces for air source heat pumps.
  - Primary measure that defines an electrification project is an air source heat pump.
    - Ducted and ductless systems qualify.
- Additional electrification measures include heat pump water heater, induction stove, heat pump clothes dryer and upgrades to electrical panel as necessary.
- Building envelope (BE) measures are not required for a viable electrification project. However, when BE opportunities exist more energy savings will be passed onto the customer.
- Each project will be evaluated for savings to ensure the customer benefits from the electrification project.

SECTION 1: PROJECT INFORMATION					
Name:		Address:		City:	IL ZIP:
Existing Primary Conditioning Equipment					
Heating Equipment			Cooling Equipment		
Type	Capacity	Input (kBtu/h)	Type	Capacity	(kBtu/h)
Rated AFUE	Year of Manufacture		Rated SEER	Year of Manufacture	
Proposed Primary Conditioning Equipment - Electrification					
Type	SEER	HSPF	EER	Cooling Capacity (kBtu/h)	Heating Capacity @ AFUE (kBtu/h)
Proposed High Efficiency Equipment - No Electrification					
Type	AFUE	Heating Capacity			
SECTION 2: ENERGY EFFICIENCY MEASURE INFORMATION					
2A: Building Envelope Measures					
Air Sealing	QTY:	0	Pre-Inst CM50	Post-Inst CM50	
Attic Insulation (1)	SQ FT:		Pre-Inst R-value:	Post-Inst R-value:	
Attic Insulation (2)	SQ FT:		Pre-Inst R-value:	Post-Inst R-value:	
Kneewall Insulation	SQ FT:		Pre-Inst R-value:	Post-Inst R-value:	
Wall Insulation	SQ FT:		Pre-Inst R-value:	Post-Inst R-value:	
Rim Joist Insulation	LN FT:		Pre-Inst R-value:	Post-Inst R-value:	
Crawlspace Wall Insulation	LN FT:		Pre-Inst R-value:	Post-Inst R-value:	
2B: Appliances/AVAC Measures					
Existing			Proposed		
Cooktop	Existing Fuel:				
Clothes Dryer	Existing Fuel:				
Water Heater	Existing Fuel:				
Furnace	Existing Fuel:				
SECTION 3: CUSTOMER SUMMARY - Annual Customer Energy Bill Impacts					
3A: Replace fossil fuel heating with electric and weatherization		3B: Leave existing heat source and complete weatherization		3C: Install high efficiency furnace and weatherization*	
Fossil Fuel Bill Savings	\$0.00	Fossil Fuel Bill Savings	\$0.00	Fossil Fuel Bill Savings	\$0.00
Electric Bill Savings	\$0.00	Electric Bill Savings	\$0.00	Electric Bill Savings	\$0.00
Estimated Bill Savings	\$0.00	Estimated Bill Savings	\$0.00	Estimated Bill Savings	\$0.00
<small>*Scenario 3C is for estimated savings comparison only and not an option available through the Ameren IL Energy Efficiency Program</small>					
SECTION 4: CUSTOMER ACKNOWLEDGEMENT					
<small>These are projected savings based upon modeling and are not guaranteed. The bill savings may not be an accurate representation of the actual savings due to variation in equipment, occupant or home performance, cost of energy, or other energy use. Ameren Illinois, its parent, affiliates and subsidiaries, and their directors, officers, employees, contractors or agents shall not be liable to the customer for the failure to achieve energy savings or amount or rate listed above.</small>					
<small>I, the undersigned, agree that the information above is representative of what has been discussed and proposed by the contractor/energy services provider.</small>					
Customer Signature:				Date:	
Program Ally Signature:				Date:	

- You are encouraged to identify customers who are eligible to participate.
  - **[AmerenIllinoisSavings.com/Electrification](https://AmerenIllinoisSavings.com/Electrification)**
- If you have an electrical contractor partner, make sure they are referred to your Field Energy Specialist for necessary training and documentation.
- Field Energy Specialist will follow up for confirmation of your participation.
- Upon confirmation, you will receive an invite for the July 25 training.
  - Work Scope additions and Bill Impact Analysis Tool.

# Q & A