

Community Energy Savings: Smart Thermostat Program City of Hudson

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Who is American Municipal Power, Inc. (AMP)?

- Ohio public power systems formed AMP-Ohio in 1971 to strengthen wholesale market buying power, gain access to transmission and enhance advocacy efforts; became AMP in 2009
- Today, AMP provides wholesale power and services to more than 130 municipal electric systems in nine states (DE, IN, KY, MD, MI, OH, PA, VA and WV)
- Members serve approximately 665,000 meters; an approximate 3,500-megawatt peak
- Diverse generation portfolio, including hydro, coal, natural gas, solar, wind and diesel
- Approximately 210 Employees; \$5.5 billion in assets*; \$1.1 billion in annual revenue*
- Operates in PJM Interconnection, LLC (PJM) and Midcontinent Independent Systems Operator (MISO) and non-regional transmission organization (RTO) areas
- 22-member Board of Trustees made up of Member officials meets monthly
- AMP Transmission (AMPT) a wholly owned subsidiary

*Estimated Total Assets (net depreciation) and Revenue as of year ending 12/31/24

AMP Mission, Vision and Values

Mission

To serve Members through public power joint action, innovative solutions, robust advocacy and cost-effective management of power supply and energy services

Vision

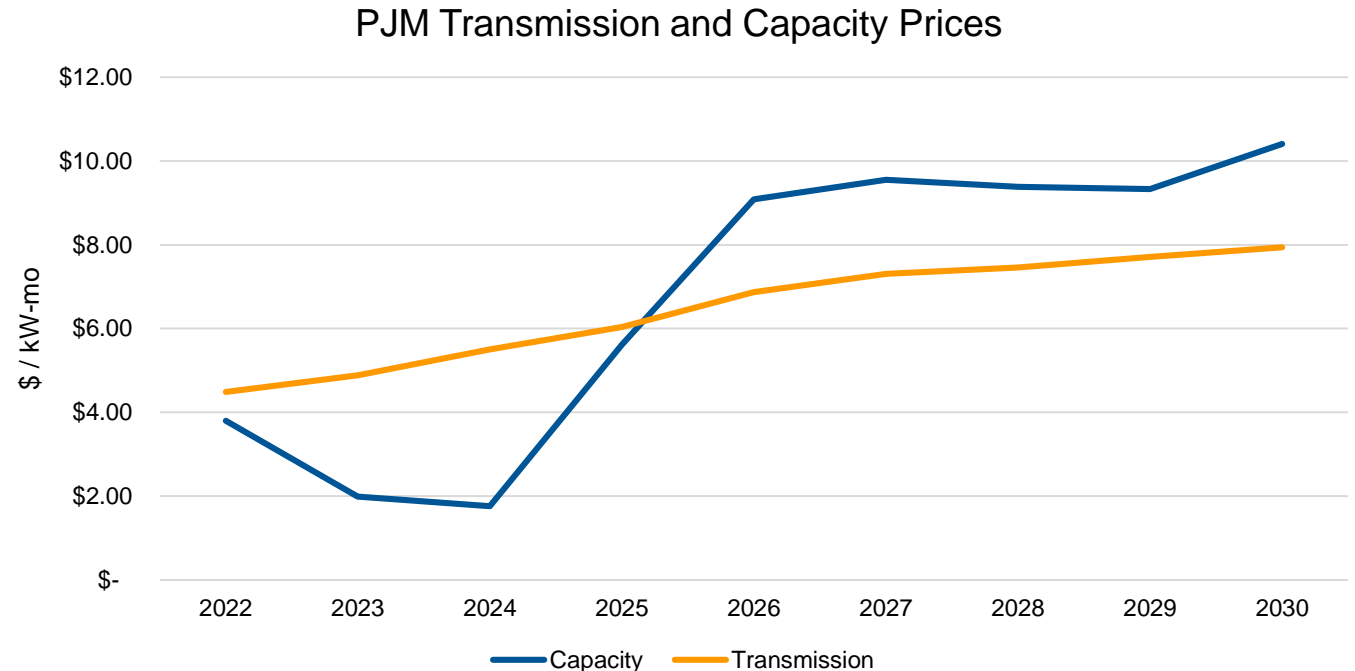
To be public power's trusted leader in providing Members and their customers the highest-quality, forward-looking services and solutions

Values

- **Integrity** - Be honest, fair, reliable, trustworthy and ethical
- **Member Focus** - Provide dedicated and professional support to all Members in the AMP footprint
- **Partnership** - Collaborate to achieve common goals
- **Employee Engagement** - Commit to a diverse, inclusive, safe and supportive work environment
- **Stewardship** - Manage resources wisely and sustainably while striving for operational, financial and administrative excellence
- **Innovation** - Energize and inspire new and creative approaches that increase value to Members and Employees
- **Accountability** - Be responsive and communicate transparently and effectively

The challenge – PJM Interconnection

On average, capacity charges will increase 85 percent, and transmission will increase 31 percent between 2025 and 2030 for all AMP Member zones



The opportunity is peak shaving

AMP Members can avoid transmission and capacity (T&C) costs by reducing retail customer load through management of connected technologies, focused initially on connected or smart thermostats.

This program has the potential to connect batteries, electric vehicles, water heaters, pool pumps, and more down the line on a single platform.



Sample Event: baseline is the gray line; event duration gray block shows one-hour precool, two-hour event; green line illustrates the AC load. The load shed was 1.23 kilowatts (KW)/thermostat during the CP hour (the blue box HE 18), achieved 115.4 kW total load shed for CP hour. The load spike before the event is due to precooling; the load spike after the event is from the AC load coming back online.

Community Energy Savings Program overview

- Combats transmission and capacity (T&C) charges by reducing Member system peak demand through the management of WiFi connected thermostats.
 - Initial five-year program (January 2023-January 2028) is a thermostat program that adjusts thermostat load during peak days, no more than 80 hours/year
 - Reduces equipment load at peak times by >1 kW per thermostat enrolled.
 - Over \$280,000 in T&C savings realized by Members to-date.
- Easy for Members to participate. Members only need to help market the program to customers and provide AMP (via secure file transfer) customer list for participant verification. Members only pay for the thermostats enrolled (no minimum).
- Enrollment growth is steady. From 2023 to 2024, there was an 115% increase in thermostats enrolled and a 47% increase from 2024 to 2025.
- Customers are satisfied. Customer surveys showed they are highly satisfied with the temperature adjustment process. One customer said, “*The program helps lower costs for my public power utility, which lowers costs for me and my neighbors.*”

Estimates for Hudson

- Anticipate 1.5 percent to 2 percent of residential meters to enroll in the program.
- Estimated annual savings, per thermostat enrolled is \$181, net savings of \$101, a 126 percent return on investment.

	1.5%	2%
Residential Meters: 6,148	93	123
Total estimated cost to Hudson/year	\$7,440	\$9,840
Total estimated T&C savings/year for Hudson	\$16,833	\$22,263
Total estimated net savings/year for Hudson	\$9,393	\$12,423

- Customers will receive a one-time \$55 incentive payment when they enroll and a chance to receive \$250 if they stay enrolled (after each peaking season).

Easy for Members to participate

- AMP will verify enrollees and approve incentive payments from your customer list
- EnergyHub provides the demand-response platform and thermostat vendor partnerships, sends notifications and e-gift cards to participating customers, and responds to program inquiries
- AMP provides Member-branded marketing materials for you to distribute to your customers
- AMP dispatches the thermostats during appropriate events using its existing peak shaving system (orange, red, black)
- AMP bills \$80 per thermostat enrolled during the prior quarter on your power supply bill, no minimum enrollment required
- AMP provides end-of-season results

"In Clyde, we're seeing strong momentum with the Community Energy Savings: Smart Thermostat Program. Recruitment is going well, and residents are recognizing the value—not just in the immediate financial incentives, but in how their participation helps lower energy costs for the entire community."

— Justin LaBenne, City Manager
City of Clyde

2025 Program Results

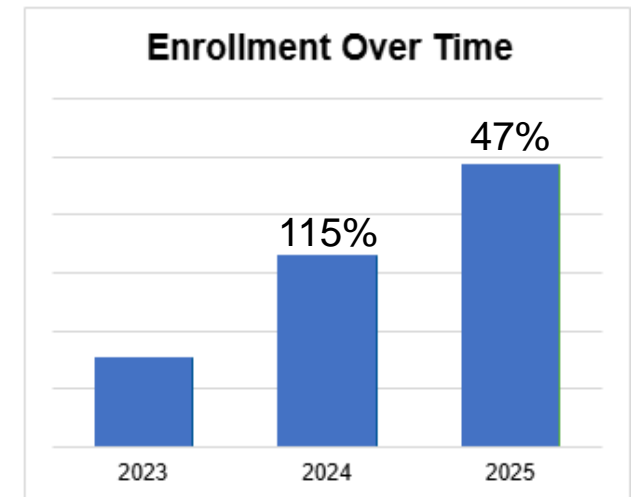
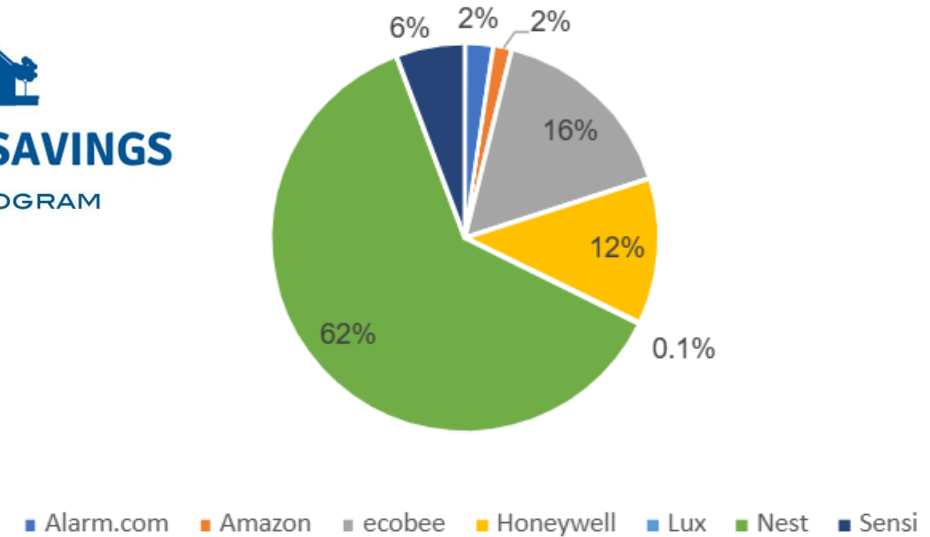
Participating communities: 16

Event statistics:

- Total peak shaving event days: 24
- Average load shed per thermostat:
 - 1.23 kilowatts (kW)
- Full participation: 59.8 percent
- Opt-out rate: 25.1 percent
- Average percentage of residential customers enrolled: 1 percent
- Prominent OEM: Nest, ecobee, Honeywell



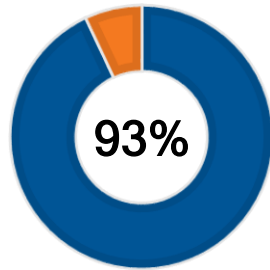
Thermostats Enrolled



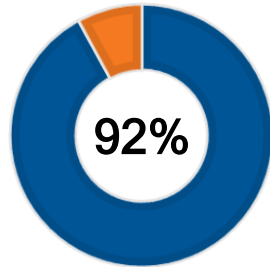
2025 customer survey responses

Percent Satisfied or Neutral

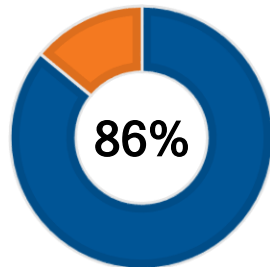
Sense of contribution to the community & program participation incentive



Ability to opt-out of temperature adjustments



Impact to comfort



Customers are highly satisfied with the program design and temperature adjustment process

2025 customer survey responses

Customers want to stay in the program because of savings

83 percent expect to participate for as long as the program is offered

“I’m happy to support energy reduction and it is very easy to be involved with the program.”

AMP provides marketing materials to Members



COMMUNITY ENERGY SAVINGS SMART THERMOSTAT PROGRAM

Take control of your energy bills with the Village of Grafton's **Community Energy Savings Program**. Enroll your smart thermostat today and get a **\$55 prepaid VISA**. Stay enrolled for a chance to win a \$250 prepaid VISA at the end of each summer season. Learn more at the website below or scan the QR code:
greatergrid.com/AMP



The Village of
GRAFTON



GRAFTON: SAVE \$55!

The Village of Grafton has its own municipal electric utility, providing unique benefits to our residents. Now, we're inviting you to join the **Community Energy Savings: Smart Thermostat Program**, which will help our community manage energy use and keep costs down for everyone.

Individual Efforts, Big Impact for Our Community

During times of peak energy usage, such as hot summer days, each enrolled thermostat can save more than 1 kilowatt of electricity during each peak event. The amount of energy saved is what it would take to power a television for 10 hours. That energy savings helps to lower energy costs for Grafton and support our community's energy efficiency efforts. While participation is voluntary, we hope you'll join us in helping make Grafton a great place to live!

Joining is Easy

Already have an eligible Smart Thermostat? Enroll at greatergrid.com/AMP and get \$55 after you've been accepted! Need one? Purchase and install an eligible smart thermostat, then enroll and be accepted into the program to receive your \$55.



To learn more or to sign up for the program, scan the QR code or visit greatergrid.com/AMP

The Village of
GRAFTON

**SAVE ENERGY
SAVE MONEY
ENROLL NOW**

COMMUNITY ENERGY SAVINGS
SMART THERMOSTAT PROGRAM

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SMART THERMOSTAT PROGRAM

Get rewarded for
saving energy

ENROLL TODAY!

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COMMUNITY ENERGY SAVINGS
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72°

**Sign up today
and get \$55!**

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GRAFTON

AMP provides customer enrollment microsite and FAQs



FAQ Contact Us

GET STARTED

Get a \$55 Virtual Visa® Prepaid Card by enrolling your smart thermostat

Enroll in the Community Energy Savings program to receive a \$55 Virtual Visa® Prepaid Card. Plus, if you stay enrolled, you will be entered for a chance to win a \$250 Virtual Visa® Prepaid Card at the end of each summer season.

[Learn more about the program](#)

GET STARTED



How it works



Sign up

If you own a smart thermostat you may be eligible to participate! If you don't own one yet, your community may offer a rebate. Check your public power utility's website for more information.



Earn \$55

Your public power utility will reward you for using less energy by allowing small, temporary adjustments to your thermostat during peak (high) electric demand.



Stay in control

You can opt out of thermostat adjustments at any time from your thermostat, mobile device, or Web browser.

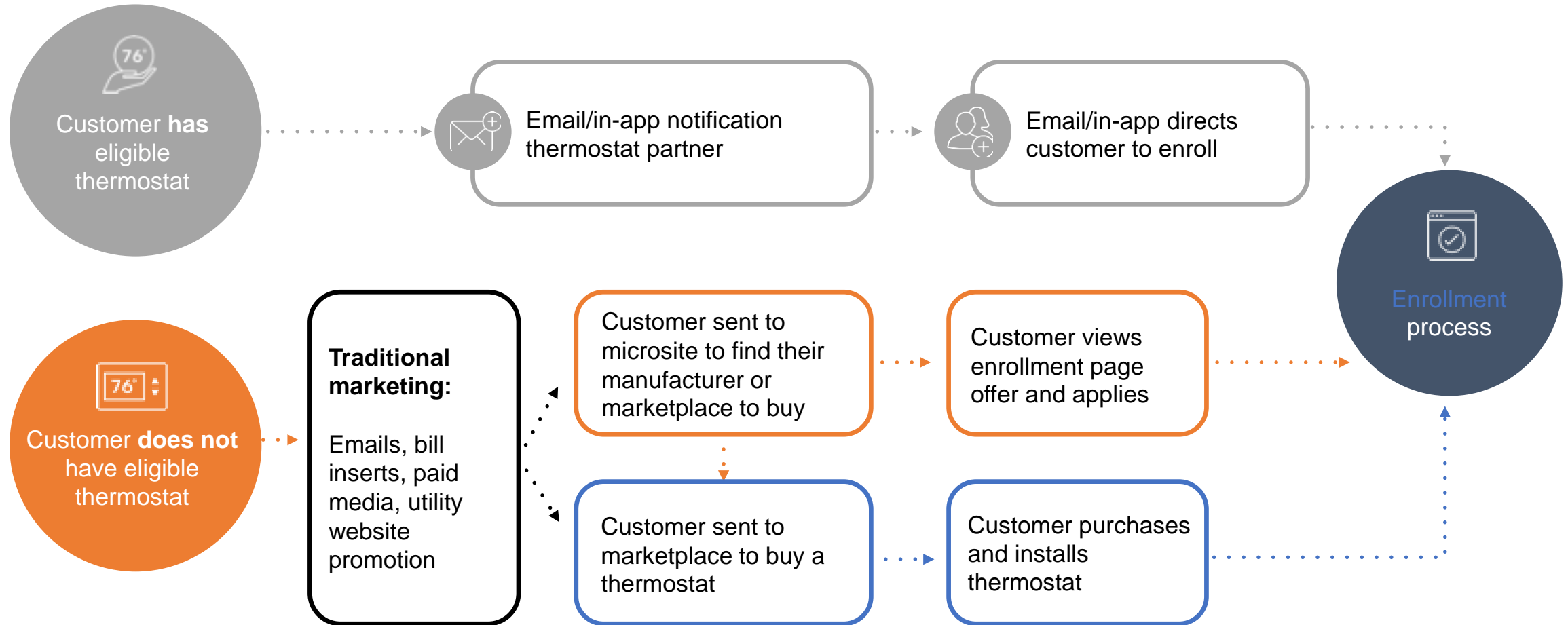
Choose your thermostat to get started

Don't have a smart thermostat yet? [Browse thermostats →](#)

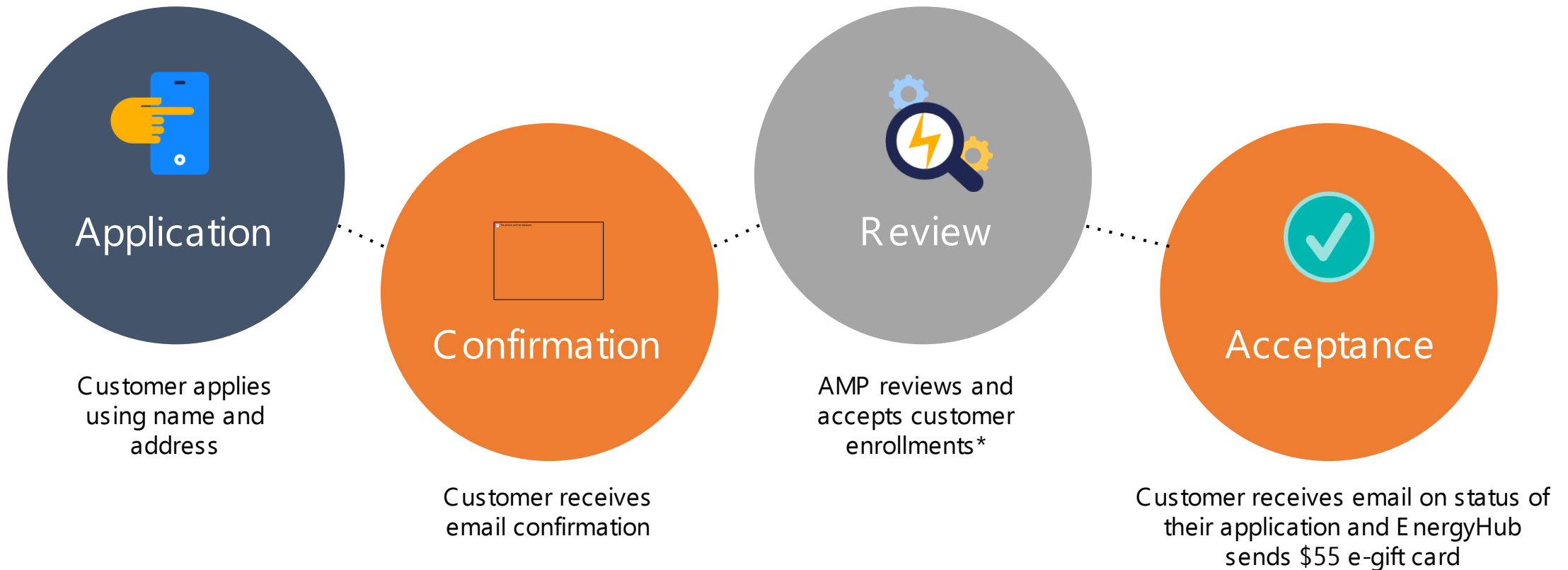
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<https://www.greatergrid.com/AMP>

Two customer enrollment pathways



Easy and seamless customer enrollment process



Customer experience

- Once a customer enrolls, they will receive a one-time \$55 virtual prepaid Visa[®]; if they stay enrolled, they will be entered for a chance to win \$250 at the end of each summer
- Customers who have an eligible thermostat* will be notified when an event is about to start, via phone app and thermostat display
- Customers will have ability to opt out of any event, at any point
- Typical event:
 - Pre-Cool: Prior to the event, thermostat adjusts 2 to 3 degrees down to pre-cool the home
 - Event: Thermostat adjusts 3 to 4 degrees above the normal temperature setpoint for 3-4 hours
 - Post event: Thermostat returns to normal setpoint



Customer will see the "Gold Gear" when a event starts and their temperature will be adjusted.



If a customer adjusts the temperature during an event they will be opted out of the event.

*Eligible thermostats include:



Next steps

- If you would like to subscribe and offer the program to your customers, review Ordinance/Resolution and Member Schedule.
- Submit the executed documents to Marty Engelman (mengelman@amppartners.org).
- Let Corey Hawkey or Erin Miller know your point-of-contact; AMP will grant access to the secure ShareFile site so you can upload your customer list (name, address, customer id (optional)).
- Begin advertising the program to your customers; thermostat vendors will also advertise to their customers in your ZIP code(s) (AMP will provide marketing materials).
- May to September: Peaking season — enrolled thermostats will be dispatched (up to 80 hours) to shave load during appropriate peak alerts. Winter peaking is also available upon request.
- Pay \$80/thermostat/year enrolled via your power supply invoice and benefit from reduced transmission and capacity costs.



For additional information, contact:

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Stronger Together: Serving Members Through Joint Action