



HEAT SAVERS STUDY

Program Terms for Residential Customers

Xcel Energy is excited to offer residential gas and combo rate customers in residential single-family homes and townhomes, residing in Summit County or Grand County Colorado with central heating¹ and Wi-Fi, the **Heat Savers study**. By participating in The Heat Savers study participants allow Xcel Energy to decrease customer thermostat set points during high gas demand periods, which correlate to times of low outdoor temperature ("Events"). Xcel Energy will offer study participants a one-time incentive to join the study. In exchange for customers' participation during events, Xcel Energy will issue customers a study participation reward ("Participation Reward") in the summer of 2024 in the form of a bill credit. This study will run from January 2024 until March 2024.

The study will include a variety of events during the heating season. Majority of the events will occur between 6 a.m. and 9 a.m. with a maximum number of events capped at 20 and a minimum of 10.

As part of the study, Xcel Energy will work with a variety of smart thermostat manufacturers listed at <https://my.xcelenergy.com/s/residential/heating-cooling/heat-savers> ("Manufacturers"), and a Demand Response Management Software (DRMS) provider who will manage the temperature setbacks for Xcel Energy.

Initial Sign-On Incentives by Enrollment Channel

Enrollment Channel	Description	Initial Incentive (paid after Enrollment Date)
Bring Your Own Thermostat ("BYOT")	Enroll previously-owned and installed eligible smart thermostat and may receive a Copper Labs energy monitoring device	\$100 enrollment incentive
Direct Install	Receive channel-eligible smart thermostat and installation at no cost from Xcel Energy and may receive Copper Labs energy monitoring device	No-cost smart thermostat(s) Select qualifying participants may receive a Copper Labs energy monitoring device while supplies last

In order to enroll in the study, please review these terms and indicate your understanding and agreement below by selecting the appropriate check box on the study enrollment page at <https://my.xcelenergy.com/s/residential/heating-cooling/heat-savers>. Xcel Energy will notify the customer (a) that customer's eligible smart thermostat has been installed or that the current smart thermostat meets eligibility requirements, and (b) that Xcel Energy and the manufacturer have confirmed that it is operational, by email (the date of the email will be the "Enrollment Date").

1. STUDY CONTROL DAYS AND EVENT LEVELS

- 1.1 Events will be called by Xcel Energy and reflected in participant's thermostat settings. Study participants may choose to opt out of temperature setback events by overriding their temperature setting after the setback has occurred. Raising the temperature of the thermostat by just one degree will be considered an opt-out of an event. Customers participating in the Heat Savers study will be notified of a planned event through the thermostat application.
- 1.2 Events will be prioritized during the 6 a.m. to 9 a.m. period, but can occur at any time during the control days between January 1 and March 31 ("Event Season"). Events can last up to a maximum of six hours, with majority lasting 3-4 hours. The study will cap the maximum temperature setback to four degrees below setpoint.

End-of-Season Study Rewards by Enrollment Channel

Enrollment Channel	Annual Participation Reward (paid in Summer after Event Season)
Bring Your Own Thermostat ("BYOT")	\$250
Direct Install	\$250

- 1.2.1. Temperature Offset – the smart thermostat will decrease the temperature set point by up to four degrees F.

- 1.2.1.1. For example: for a three-degree offset event, a participant's smart thermostat with a chosen set point of 70 degrees would be decreased to 67 degrees.

¹ Please note that some furnaces, heating units or equipment may not be eligible for this program, including, but not limited to, space heaters, passive heating systems and ground-source heat pump systems.

2. XCEL ENERGY PARTICIPANT INFORMATION WILL BE EXCHANGED WITH MANUFACTURERS

Xcel Energy will provide manufacturers with a list of service territory ZIP codes for those Xcel Energy customers eligible to participate in the study. In turn, manufacturers may share participants' enrollment data and anonymized usage data from participants' smart thermostat(s) with Xcel Energy and Xcel Energy's suppliers and consultants. This exchange of participant information is covered by confidentiality terms existing between manufacturers and Xcel Energy and between Xcel Energy and its suppliers and consultants.

3. HEAT SAVERS EVENT PARTICIPATION DETAILS

- 3.1. The study offers participants the option to opt-out of events. Participants may opt-out of events at any time during the event by changing their thermostat setting during the setback period. Xcel Energy will communicate these changes via the participant's thermostat, email or within their thermostat app to participants as they occur.

4. STUDY TERM AND WITHDRAWAL

- 4.1. Participation in the study shall continue for a period of not less than three months from the time Xcel Energy confirms installation of participant's eligible smart thermostat.
- 4.2. This agreement shall remain in effect, unless terminated pursuant to other provisions of this agreement, Xcel Energy's tariffs or until the study is discontinued by Xcel Energy. Xcel Energy will give this study discontinuation notice to participants at least thirty (30) days prior to such early termination date.
- 4.3. Participation in the study is contingent on the participant's device remaining connected to an available Wi-Fi network and in communication with the company's Demand Response Management System (DRMS). If a device is not responsive, the participant will be notified and asked to reconnect their device. Notifications will also be sent to the participant if a device is determined to be offline. The company will track offline devices through its DRMS.
- 4.4. If a Copper Labs device is provided, the device must remain plugged in and connected to Wi-Fi for a participant to qualify for their participation reward.
 - 4.4.1. Copper Labs device must be connected to the gas meter. And if the customer is also an Xcel Energy electric customer, the Copper Labs device must also be connected to the electric meter.
- 4.5. The study participant will notify Xcel Energy when replacing or removing a smart thermostat enrolled in the study. Removal of an enrolled smart thermostat will be deemed by Xcel Energy as a customer-initiated termination of this agreement. Participants replacing a previously enrolled smart thermostat with an eligible smart thermostat must re-enroll the new smart thermostat to confirm installation and will be rewarded based on their level of participation. See details at: <https://my.xcelenergy.com/s/residential/heating-cooling/heat-savers>.
- 4.6. For participants receiving no cost smart thermostat(s) and installation via the direct install enrollment channel:
 - 4.6.1. Xcel Energy will own the installed smart thermostat(s) for a period of two (2) years after the enrollment date. Once the two-year period has expired, ownership of the smart thermostat equipment will be transferred to the customer.
 - 4.6.2. For direct install enrollment channel participants who either are terminated from the study by Xcel Energy for failure to

follow these study terms or who terminate for convenience within three months of the enrollment date, Xcel Energy shall have the right either (a) to remove the smart thermostat and/or monitoring equipment from the customer's premises and customer agrees to pay for the cost of such removal, or (b) to leave the smart thermostat and/or monitoring equipment in place and to charge customer for the smart thermostat and/or monitoring equipment and the initial installation charges. In the event the customer requests removal of the smart thermostat/monitoring equipment immediately following termination of this agreement by either party, then Xcel Energy will remove the smart thermostat and customer agrees to pay the cost of such removal (which may be waived at Xcel Energy's sole discretion).

5. LIMITATIONS

- 5.1. Study terms are subject to change any time. Please visit us at <https://my.xcelenergy.com/s/residential/heating-cooling/heat-savers> or call us at 800-895-4999 to determine whether any study changes have occurred. To be eligible for the study, eligible smart thermostats must be installed in a qualifying residential dwelling with central heating and Xcel Energy residential rate gas or combo service(s).
- 5.2. Initial enrollment incentives available to study participants shall be provided, subject to the provisions herein. Installation incentives are only available to study participants who have purchased eligible smart thermostats from the Xcel Energy Store. Study participants enrolling in the study via the Bring Your Own Thermostat (BYOT) enrollment channel with previously purchased and installed eligible smart thermostats can receive one (1) enrollment incentive per premise. Xcel Energy will pay for the cost of smart thermostats and installation for customers eligible for the direct install channel.
- 5.3. Xcel Energy reserves the right to modify any and all study incentives based on future performance, study modifications, technology upgrades, and changes to Xcel Energy's gas distribution system. Any such changes will be communicated to customer by e-mail at least thirty (30) days prior to deployment of such changes.
- 5.4. Customer agrees not to tamper with smart thermostat and to reasonably attempt to restrict access by others to the smart thermostat. If Xcel Energy determines that its load management equipment on the customer's premises has been rendered ineffective due to tampering by use of mechanical, electrical, or other devices or actions, then Xcel Energy may discontinue the customer's participation in the study. The customer would be billed for all expenses involved with the removal of the load management equipment and any charges resulting from the investigation of the device tampering. Xcel Energy may rebill all prior load management credits received by the customer to the date the tampering appears to have first occurred or the previous twelve months, whichever is longer. The customer will be removed from the study and will not be eligible to participate again for 12 months. Xcel Energy will verify installation has been corrected before the customer will be permitted to participate in the study.
- 5.5. Xcel Energy will not make any roof penetrations or other roof alterations on the customer's premises.
- 5.6. The customer will notify Xcel Energy when adding or removing any furnace or heating equipment that could affect participation in this study.
- 5.7. If the customer fails an electrical inspection due to the improper installation of a smart thermostat via the direct install enrollment

option, Xcel Energy will correct the code violation at no charge. If a customer fails an inspection due to the customer's improper wiring or any other reason other than the improper installation of the smart thermostat, the customer will be ineligible for the study, and this agreement shall become null and void.

- 5.8. If the customer experiences issues with their thermostat or heating equipment after an installation, they can call the customer service center at **800-895-4999**. The customer can request that a contractor approved by the company complete an inspection to identify the problem. If repairs are necessary as a result of an improper installation, the company will fully cover the cost. However, if repairs are required that are determined not to be a direct result of the thermostat installation, the customer will be billed accordingly. If

repairs are made by a third party and the customer believes that these repairs were necessary as a result of the thermostat installation, they can request reimbursement from the company at **800-895-4999**.

6. STUDY COMMUNICATIONS

Customer consents to receive communications from Xcel Energy relating to the study in electronic form sent to customer's email address.

7. QUESTIONS

If you have questions regarding these study terms, please call **800-895-4999**.

Xcel Energy AC RewardsSM

Program Terms for Colorado & Minnesota Residential and Commercial Customers

Xcel Energy is excited to offer the **AC Rewards** program ("Program") to its Colorado and Minnesota residential and commercial electric and combo rate customers in residential single family homes, townhomes, and eligible commercial facilities with central air conditioning¹ and WIFI.

As part of the Program, participating Customers (individually, "Customer" or, collectively, "Customers") will receive an incentive ("Initial Incentive") to join the Program after their Enrollment Date, as described in the following chart.

Also, as part of the Program, Xcel Energy will work with a variety of smart thermostat manufacturers listed at xcelenergy.com/ACRewards ("Manufacturers"), and a Demand Response Management Software provider, Xcel Energy's demand response management system software provider, to increase customer thermostat set point during high electricity demand periods ("Events"). In exchange for Customers' participation during these Events, Xcel Energy will issue Customers an annual reward ("Annual Participation Reward") each October in the form of a bill credit.

INITIAL INCENTIVES BY ENROLLMENT CHANNEL

Enrollment Channel	Description	Initial Incentive (paid after Enrollment Date)	Annual Participation Reward (paid in October after Event)
Bring Your Own Thermostat ("BYOT")	Enroll previously owned and installed eligible smart thermostat	\$75 enrollment incentive	\$25
Direct Install	Receive channel-eligible smart thermostat and installation at no cost from Xcel Energy	No cost smart thermostat(s) and installation incentive	\$25

In order to enroll in the Program, please review these terms and indicate your understanding and agreement below by selecting the appropriate check box on the Program enrollment page at xcelenergy.com/ACRewards or complete and sign this form. Xcel Energy will notify the Customer (a) that Customer's eligible smart thermostat has been installed, and (b) that Xcel Energy and the Manufacturer have confirmed that it is operational, by e-mail (the date of the e-mail will be the "Enrollment Date").

1. XCEL ENERGY CUSTOMER INFORMATION WILL BE EXCHANGED WITH MANUFACTURERS

Xcel Energy will provide Manufacturers with a list of Colorado and Minnesota service territory zip codes for those Xcel Energy customers eligible to participate in the Program. In turn, Manufacturers may share Customers' enrollment data and anonymized usage data from Customers' smart thermostat(s) with Xcel Energy and Xcel Energy's suppliers and consultants. This exchange of Customer information is covered by confidentiality terms existing between Manufacturers and Xcel Energy and between Xcel Energy and its suppliers and consultants.

2. PROGRAM CONTROL DAY AND CYCLING INFORMATION

- 2.1. In Colorado or Minnesota, air-conditioner cycling Events will typically occur between 3 p.m. and 7 p.m. on control days between June 1 and August 31 ("Event Season"). Please note that control days may occasionally take place in other months.
- 2.2. The air-conditioning cycling is controlled by the eligible smart thermostat(s) received by Customers who comply with all Program terms. The Program may use one of the following control strategies during Events:
 - 2.2.1. Duty-Cycling – the smart thermostat will cycle a Customer's air-conditioning off and on during the Event
 - 2.2.1.1. For example: the compressor will be turned off for 15 minutes, and then turned on for the following 15 minutes, as necessary.

¹ Please note that some air conditioning units or equipment may not be eligible for this Program, including, but not limited to, evaporative "swamp" coolers, window/wall air conditioning units, ductless air conditioning units (e.g. mini-split systems), and ground-source heat pump cooling systems.

- 2.2.2. Temperature Offset – the smart thermostat will increase the temperature set point in a Customer's home by a pre-determined amount during the Event.
 - 2.2.2.1. For example: for a 2 degree offset event, a Customer's smart thermostat with a chosen set point of 71 degrees would be increased to 73 degrees.
- 2.2.3. Personalized Temperature Offset - the smart thermostat will increase the temperature set point in a Customer's home based on the thermodynamic modeling of the home and the Customer's selected comfort preferences during the Event.

3. AC REWARDS EVENT PARTICIPATION DETAILS

- 3.1. The Program offers Customers the option to opt-out of most Events. Xcel Energy may call as many of these opt-out eligible Events ("Voluntary Events") as needed each year, but historically has not called more than ten Voluntary Events during an Event Season. Accordingly, Customers may opt-out of Voluntary Events at any time during the Event. Xcel Energy will review Customers' opt-out rates during Voluntary Events annually and for Customers deemed to display high opt-out rates, Xcel Energy reserves the right to modify these Customers' participation terms or to remove them from the Program. Xcel Energy will communicate these changes by e-mail to Customers as they occur.
- 3.2. Xcel Energy may need to dispatch certain control events that do not offer Customers the ability to opt-out of the Event ("Mandatory Events"). Xcel Energy will only dispatch a Mandatory Event if the North American Electric Reliability Corporation ("NERC") declares Level 2 Alerts for Xcel Energy's service territory, as defined by NERC's Reliability Standard EOP-002-2 (found at <http://www.nerc.com/pa/rrm/ea/Documents/EOP-002-2.pdf>; specifically, Level 2 Alerts are defined starting on Page 7, section B.2, Attachment 1-EOP-002-0). NERC Level 2 Alerts are issued by NERC reliability coordinators when the "Balancing Authority, Reserve Sharing Group, or Load Serving Entity is no longer able to provide its customers' expected energy requirements." When NERC Level 2 Alerts are declared, Xcel Energy must take specific actions to meet the system's projected energy demand, which includes the dispatch of Program resources. In the event that Mandatory Events are dispatched, Xcel Energy will notify Customers by e-mail.

4. PROGRAM TERM AND WITHDRAWAL

- 4.1. Participation in the Program shall continue for a period of not less than one year (12 months) from the time Xcel Energy confirms installation of Customer's eligible smart thermostat.
- 4.2. This Agreement shall remain in effect, unless terminated pursuant to other provisions of this Agreement, Xcel Energy's tariffs or until the Program is discontinued by Xcel Energy. Xcel Energy will give this Program discontinuation notice to Customers at least thirty (30) days prior to such early termination date.
- 4.3. Participation in the Program is contingent on the Customer's device remaining connected to an available WiFi network and in communication with the Company's Demand Response Management System (DRMS). If a device is not responsive for 60 consecutive days outside of control season (June 1 through August 31) or 20 consecutive days during control season the Customer will be notified and asked to reconnect their device. Notifications will also be sent to the Customer

if a device is determined to be offline for 3 consecutive events. If the device is not brought back online or the Customer is not responsive within 2 weeks of the notification that device will be removed from the Program and the Customer will no longer receive the applicable bill credits. Additional penalties may apply. The Company will track offline devices through its DRMS.

- 4.3.1. Program Participants with eco+ enabled devices must maintain an eco+ setting of 2 or above. Any device with an eco+ setting of 1 will be treated as an offline device and subjected to the notification rules described above.
- 4.4. The Customer will notify Xcel Energy when replacing or removing a smart thermostat enrolled in the Program. Removal of an enrolled smart thermostat without an eligible smart thermostat replacement will be deemed by Xcel Energy as a Customer-initiated termination of this Agreement. Customers replacing a previously enrolled smart thermostat with an eligible smart thermostat must re-enroll the new smart thermostat to confirm installation. See details at: xcelenergy.com/ACRewards.
- 4.5. If the Customer terminates this Agreement prior to one year after Enrollment Date of eligible thermostat(s), or if Xcel Energy terminates this Agreement because of Customer's failure to honor the terms of this Agreement at any time, or upon discovery of any tampering with smart thermostat equipment, then Xcel Energy shall have the right to terminate this Agreement immediately and/or immediately discontinue dispatching of Customer's equipment and payment of the Annual Participation Reward. Any Customer terminating an Program Agreement prior to one (1) year from the Enrollment Date will not be eligible to participate in the Program again for twelve months from the date of early termination.
- 4.6. Except for direct install Customers, if the Customer terminates this Agreement one year or more after Enrollment Date of eligible smart thermostat(s), Customer may withdraw from the Program without penalty.
- 4.7. For Customers receiving no cost smart thermostats(s) and installation via the direct install enrollment channel:
 - 4.7.1. Xcel Energy will own and operate the installed smart thermostat(s) for a period of two (2) years after the Enrollment Date. Once the two year period has expired, ownership of the smart thermostat equipment will be transferred to the Customer.
 - 4.7.2. For direct install enrollment channel Customers who either are terminated from the Program by Xcel Energy for failure to follow these Program terms or who terminate for convenience within two (2) years of the Enrollment Date, Xcel Energy shall have the right either (a) to remove the smart thermostat and/or monitoring equipment from the Customer's premises and Customer agrees to pay for the cost of such removal, or (b) to leave the smart thermostat and/or monitoring equipment in place and to charge Customer for the smart thermostat and/or monitoring equipment and the initial installation charges. In the event the Customer requests removal of the smart thermostat/ monitoring equipment immediately following termination of this Agreement by either party, then Xcel Energy will remove the smart thermostat and Customer agrees to pay the cost of such removal.

1. LIMITATIONS

- 1.1. Program terms are subject to change any time. Please visit us at xcelenergy.com/ACRewards or call us at 1-800-895-4999 to determine whether any Program changes have occurred. To be eligible for the Program, eligible smart thermostats must be installed in a qualifying residential dwelling with central air conditioning or a commercial building with direct control of a central or rooftop air conditioning system and Xcel Energy Colorado or Minnesota residential rate electric or combo service(s).
- 1.2. Initial incentives available to Customers shall be paid one time after Enrollment Date, residential Customers purchasing eligible smart thermostats from the Xcel Energy Store can receive up to two (2) instant rebates applied to purchases per premise every three (3) years; after three (3) years have passed, Customers will be eligible to receive new instant rebates. Additionally, Customers can receive only one (1) installation incentive per premise for three years after the Enrollment Date. Installation incentives are only available to Customers who have purchased eligible smart thermostats from the Xcel Energy Store. Customers enrolling in the Program via the BYOT enrollment channel with previously purchased and installed eligible smart thermostats can receive one (1) enrollment incentive per premise every three (3) years. Three years after their first Enrollment Date, customers will be eligible to receive a new enrollment incentive. Customers choosing to receive the no cost smart thermostat(s) and installation via the Direct Install channel can receive up to two (2) eligible smart thermostats per residential premise every three (3) years; after three (3) years have passed, customers will be eligible to receive new smart thermostat equipment and installation. Xcel Energy will pay for the cost of smart thermostats and installation for customers choosing the Direct Install channel.
- 1.3. Commercial customers can enroll thermostats exclusively through a direct installation from an approved partner. All thermostats must have direct control of a central air conditioner or a rooftop air conditioning unit. Thermostats cannot be installed as a part of a larger Building Automation System (BAS). If a customer installs and enrolls thermostats and implements a BAS at a later date, that customer is expected to notify the Company and will be removed from the Program. Commercial customers can receive (1) installation incentive per premise for three years after the Enrollment Date. However a Customer is eligible to receive additional thermostat installations at a premise at a later date if they are requested for air conditioning equipment that was not previously serviced. There is no limit to the number of thermostats a customer can have installed however each thermostat must control a separate air conditioning unit. All thermostats must be able to connect to the premise's WiFi network in order to qualify for the program.
- 1.4. Xcel Energy reserves the right modify any and all Program incentives based on future performance, Program modifications, technology upgrades, and changes to Xcel Energy's electrical distribution system. Any such changes will be communicated to Customer by e-mail at least thirty (30) days prior to deployment of such changes.
- 1.5. Customer agrees not to tamper with smart thermostat and to reasonably attempt to restrict access by others to the smart thermostat. If Xcel Energy determines that its load management equipment on the Customer's premises has been rendered ineffective due to tampering by use of mechanical, electrical, or other devices or actions, then Xcel Energy may discontinue the Customer's participation in the Program. The Customer would be billed for all expenses involved with the removal of the load management equipment and any charges resulting from the investigation of the device tampering. Xcel Energy may rebill all prior load management credits received by the Customer to the date the tampering appears to have first occurred or the previous twelve months, whichever is longer. The Customer will be removed from the Program and will not be eligible to participate again for twelve months. Xcel Energy will verify installation has been corrected before the Customer will be permitted to participate in the Program.
- 1.6. Xcel Energy will not make any roof penetrations or other roof alterations on the Customer's premises.
- 1.7. The Customer will notify Xcel Energy when adding or removing any air conditioning units/equipment that could affect participation in this Program.
- 1.8. If the Customer fails an electrical inspection due to the improper installation of a smart thermostat via the Direct Install enrollment option, Xcel Energy will correct the code violation at no charge. If a Customer fails an inspection due to the Customer's improper wiring or any other reason other than the improper installation of the smart thermostat, the Customer will be ineligible for the Program, and this Agreement shall become null and void.
- 1.9. If the Customer experiences issues with their thermostat or air conditioning equipment after an installation, they can call the Customer Service Center at 1-(800)-895-4999. Business customers can contact the Business Solutions Center at 1-(800)-481-4700. The Customer can request that a contractor approved by the Company complete an inspection to identify the problem. If repairs are necessary as a result of an improper installation, the Company will fully cover the cost. However, if repairs are required that are determined not to be a direct result of the thermostat installation the customer will be billed accordingly. If repairs are made by a third party and the Customer believes that these repairs were necessary as a result of the thermostat installation, they can request reimbursement from the company by calling the Customer Service or Business Solutions Center.

2. SAVER'S SWITCH® CUSTOMERS

A current residential or commercial Saver's Switch customer is eligible to enroll in the Program. By joining the Program, the Customer will forfeit the annual bill credit associated with the Saver's Switch program in favor of the Annual Participation Reward. If a current Saver's Switch customer joins the Program during the calendar year after receiving an annual Saver's Switch credit, Xcel Energy will not pay the Customer an Annual Participation Reward until the following calendar year. Xcel Energy will remotely de-activate Customer's Saver's Switch and Saver's Switches will remain installed on Customer's air-conditioning unit unless Customer requests removal.

3. PROGRAM COMMUNICATIONS

Customer consents to receive communications from Xcel Energy relating to the Program in electronic form sent to Customer's email address.

4. QUESTIONS**4.1. Customer Information**

Xcel Energy Account Number where unit was installed _____

Account Holder Name _____ Daytime Phone _____
(As shown on your utility bill.)

Installation Address _____ City _____ State _____ ZIP _____

Mailing Address _____ City _____ State _____ ZIP _____
(If different from installation address.)

Account holder hereby certifies that 1. the account holder is solely responsible for the accuracy of the application information; 2. all installation is complete and operational prior to submitting this application; 3. all rules of this Xcel Energy program have been followed.

4.1. Device Information**4.2.1. Residential Customers**

Installation Date _____

Manufacturer _____ Model # (FULL-AS LISTED ON [ENERGYSTAR.GOV](https://www.energystar.gov)) _____

Serial Number _____

4.2.2. Commercial Customers

Thermostats Requested _____

Controlled AC Unit Tonnage _____

If you have questions regarding these Program terms, please call 800-895-4999.

Customer signature _____

Customer name _____ Date _____