



**Sustainability Board
May 28, 2024 – 6:00 PM**

Please join in-person or from computer, tablet, smart phone.

<https://meet.goto.com/405842165>

You can also dial in using your phone: +1 (872) 240-3311 Access Code/Meeting ID: 405-842-165

Meeting location: Edgewater Civic Center, 1800 Harlan St.
City Council Chambers

| | | | |
|---|---------|---------------------------------------|--|
| 1. Meeting Called to Order | | | |
| 2. Roll Call | | | |
| Board Members: | Present | Absent | |
| | | | Xerxes Steirer (Chair) |
| | | | Courtney LaBrie (Vice Chair and Energy Lead) |
| | | | Scott Meyers (Secretary) |
| | | | Jeanette Pap (Waste & Materials Lead) |
| | | | Andy Vieth (Land & Water Lead) |
| | | Jaclyn Poliseo (Social Vibrancy Lead) | |
| City Council Liaison: | | | Lilly Steirer |
| City Staff Liaison: | | | Shaima Shahbaz |
| 3. Approval of Agenda | | | |
| 4. Land Acknowledgement | | | |
| 5. Staff Comments and Updates | | | |
| <ul style="list-style-type: none"> a. Vote on Urban Forest Master Plan recommendation to City Council <ul style="list-style-type: none"> i. Final version and standalone Executive Summary now available b. Sustainability Board participation at the Grand Opening on June 15th at Citizen’s Park <ul style="list-style-type: none"> i. Tree Planting at 10:00am <ul style="list-style-type: none"> 1. 2 trees will be pre-planted (1 as a memorial, 1 for Bill Cassel’s retirement) 2. 3 Speakers: 1 from employee’s family, 1 city staff person for the retirement, 1 sustainability board member commemorating Arbor Day ii. Tabling and LED Kit giveaway at 11:00am <ul style="list-style-type: none"> 1. Promote Sustainability programs, collect emails, etc. c. Sustainability Plan Update <ul style="list-style-type: none"> i. Discussion on the process d. Sustainability Board August Retreat <ul style="list-style-type: none"> i. Doodle sent to board members – please respond if you haven’t already e. Seminar Series Scheduling Update <ul style="list-style-type: none"> i. 9 participants in May’s Basics of Organic Gardening by Denver Urban Gardens ii. Facilitators still needed for July, September, November, December f. Update on Solar United Neighbors contract and challenges with Nelnet g. Partners in Energy | | | |

| |
|--|
| <ul style="list-style-type: none"> i. Home Energy Squad <ul style="list-style-type: none"> 1. Review of 2023 outcomes 2. Contract renewal ii. Main takeaways from the Year End Dashboard <ul style="list-style-type: none"> 1. See summary in packet, below |
| <p>6. Upcoming Meetings & Events</p> <ul style="list-style-type: none"> a. Saturday, June 1st – Edgewater Pride Parade, starts at Edgewater Elementary, 10:30am b. Wednesday, June 12th – Concert in the Park at Citizen’s Park, 6:00pm-8:00pm c. Saturday, June 15th – “Grand Opening” at Citizen’s Park, 9:00am-1:00pm d. Thursday, June 20th - Seminar: Healthy Garden Pests & Disease Management (with Denver Urban Gardens) at the Civic Center, 5:30-7:00pm e. Wednesday, June 26th – Bike to Work Day f. Saturday, June 29th – “Return of the Block” Grand Opening of 25th Ave. from Sheridan to Benton , 11:30am-9:00pm |
| 7. City Council Updates |
| 8. Category Updates |
| <ul style="list-style-type: none"> a. Clean Energy |
| <ul style="list-style-type: none"> b. Social Vibrancy |
| <ul style="list-style-type: none"> c. Land & Water |
| <ul style="list-style-type: none"> d. Waste & Materials |
| 9. CC4CA Update |
| 10. Agenda Setting – May 28, 2024 |
| <ul style="list-style-type: none"> a. |
| 11. Public Comment |
| 12. Final Board Comments |
| 13. Adjournment |

2024 Seminar Schedule

| Date/Time | Class Title | Facilitator |
|--------------------|---|--------------------------|
| Feb 29, 5:30-7PM | Home Tree Care 101 | CSU Extension |
| March 7, 5:30-7PM | Indoor Seed Starting | Denver Urban Gardens |
| April 11, 5:30-7PM | Heat Pumps: Home Heating and Air Conditioning | COE Sustainability Board |
| April 18, 5:30-7PM | Powerful Pollinators - <i>Family Activity Class</i> | CSU Extension |
| May 16, 5:30-7PM | Basics of Organic Gardening | Denver Urban Gardens |
| June 20, 5:30-7PM | Healthy Garden Pests and Disease Management | Denver Urban Gardens |
| July | TBD** | |
| August | TBD** (probably Rain Barrels) | (Groundwork Denver) |
| September | Composting | Scraps |
| October | Home Energy | Attainable Home |
| November | TBD** | |

Month: TBD, Facilitator: – Jessica Swindon, Organization: Groundwork (Rain Barrels)

Other Seminar Ideas for 2024

- Sustainability 101 (Bilingual Program w/ Latinas Community Connection Services and/or Collective)
- Intro to Xeriscaping
- Gardening for Kids
- Patio Planting Class
- SustainAbility Hard to Recycle Drop Off Event and Class

Specifics on the above ideas for 2024

| Class or Event Topic | Contact(s) | Notes |
|--|---|---|
| Sustainability 101 (Bilingual Program w/ Latinas Community Connection Services and/or Collective) | Maybe contact Green Latinos for ideas on facilitators who could facilitate a class? | Consider intro to Sustainability class that goes through common behaviors that can improve sustainability. Teach class in Spanish w/ English option in a neutral location (church?) |
| Intro to Xeriscaping | Caroline Sprague (caroline@dug.org) | Popular last year – could pair nicely w/ new landscape codes outreach, if needed |
| Gardening for Kids | Caroline Sprague (caroline@dug.org) or Slow Food Denver/Lilly Steirer (lilly@slowfooddenver.org) info@gothamgreens.com | Gotham Greens will often donate seedlings (basil, lettuce) and extra peat pots in the basement if wanting to do a gardening activity or class for an event. |
| Residential EV Readiness | Sarah Kaye (skaye@brendlegroup.com) and Drive Clean Colorado (gabriella@drivecleanco.org or julia@drivecleanco.org) | Educate residents on what owning an EV entails; where they can find purchase rebates; pro's and con's of ownership; dispelling myths |
| Patio Planting Class | Caroline Sprague (caroline@dug.org) | Not currently a class taught by DUG but one that they're working on developing hopefully in 2024. Could have it in Spanish and English and at a neutral location (closer to apartments) |
| SustainAbility Hard to Recycle Drop Off Event and Class | Rachel Nathan (info@sustainability-recycling.com) | Drop off event for hard to recycle items? |

Sustainability Board Meeting Dates & Times for the next 6 months

Meetings are held on the fourth Tuesday of the month from 6:00-8:00pm:

- June 25th
- July 23rd
- August 27th
- September 24th
- October 22nd
- November 26th

2023 Community Data Dashboard

Xcel Energy Year-End Program Summary



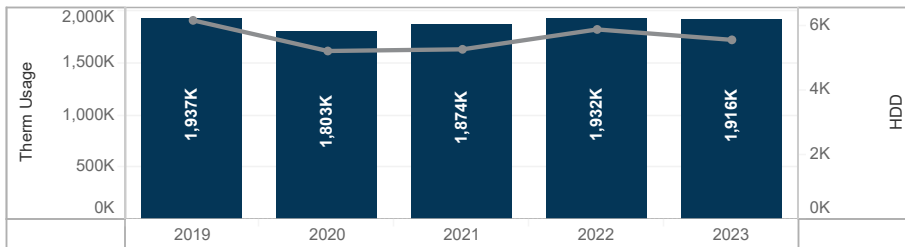
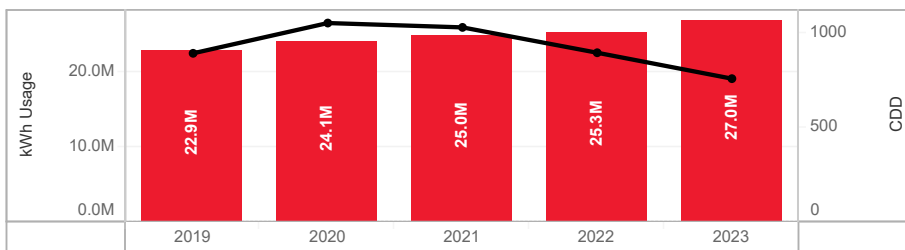
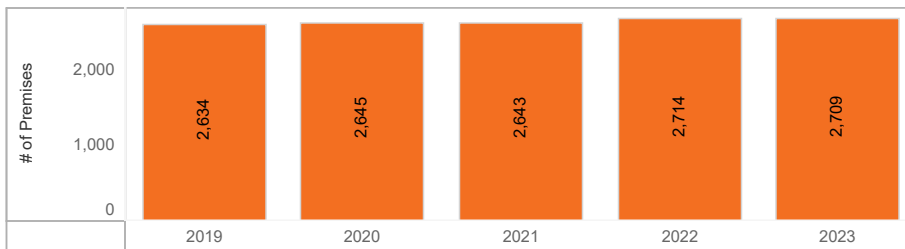
Edgewater strives to:

- Achieve annual energy savings equivalent to 3% or greater of its annual energy use
- Increase residential & commercial participation in energy efficiency and renewable energy programs
- Increase use of renewable energy from 28% to 40% by 2025, 70% by 2030, and 100% by 2035
- Reduce energy-related greenhouse gas emissions by 700 MT CO2e by 2022
- Save residents and businesses more than \$54,000 in energy costs by 2022

Baseline

2019

Utility Consumption & Premise Trends



| | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|-------|-------|-------|-------|-------|
| Cooling Degree Days (CDD) | 893 | 1,053 | 1,030 | 896 | 759 |
| Heating Degree Days (HDD) | 6,199 | 5,247 | 5,299 | 5,917 | 5,593 |

Annual Program Trends

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------------------|---------|---------|-----------|---------|---------|
| DSM kWh Savings | 166,469 | 240,243 | 1,676,313 | 175,806 | 28,043 |
| DSM Therm Savings | 26,107 | 5,308 | 12,158 | 3,908 | 4,011 |
| DSM Participation Count | 97 | 83 | 111 | 131 | 128 |
| Total Renewable Energy Participation | 119 | 151 | 178 | 205 | 207 |
| Total Renewable Energy kWh Savings | 276,212 | 336,074 | 386,079 | 491,969 | 538,891 |
| Total DSM & RE GHG Savings | 358 | 298 | 1,029 | 272 | 176 |

Annual % Change

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|------|------|------|------|------|
| % Change in Premise Count | | 0% | 0% | 3% | 0% |
| % Change in kWh Usage | | 5% | 4% | 1% | 7% |
| % Change in Therm Usage | | -7% | 4% | 3% | -1% |

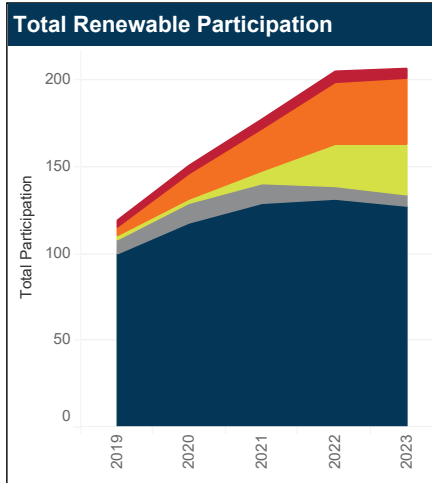
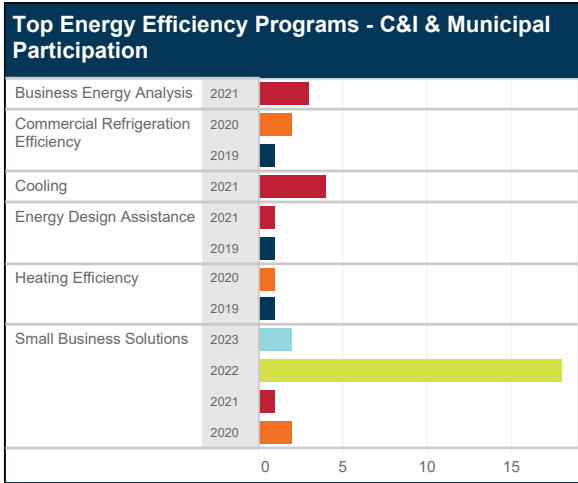
Partners in Energy is a collaboration of the Community and Xcel Energy. GHG emission estimates reflect the most accurate and current information available, but the data may change slightly after third-party verification.

Participation counts for rebate programs reflect Xcel Energy offerings only. The community's geographic boundary has been updated, impacting 2022 and future year data. Xcel Energy provides electricity & natural gas to the community.



Line: CDD/HDD totals; Colored Bar: Total Consumption & Premises
Balance Temp: 65F; Source: www.weatherdatadepot.com and NOAA.gov

2023 Community Data Dashboard Xcel Energy Year-End Program Summary



Implementation Metrics

Energy Efficiency Program Participation

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Commercial & Industrial | 3 | 7 | 12 | 24 | 2 |
| Municipal | 1 | 0 | 0 | 0 | 0 |
| Residential | 93 | 76 | 99 | 107 | 126 |

Renewable Program Participation

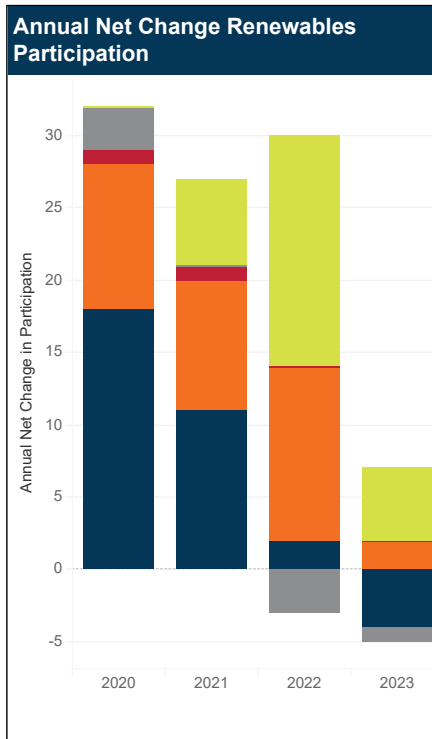
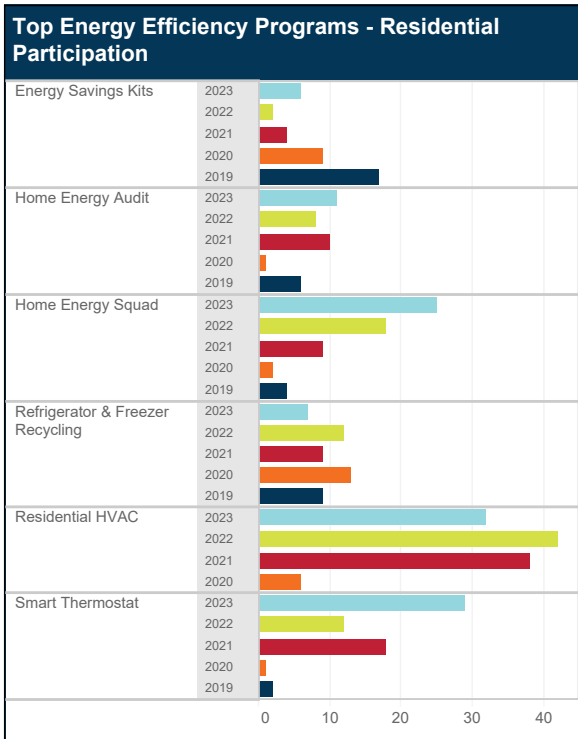
| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Commercial & Industrial | 2 | 2 | 3 | 3 | 3 |
| Municipal | 0 | 0 | 0 | 0 | 0 |
| Residential | 117 | 149 | 175 | 202 | 204 |

Total Renewable Program kWh

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|--------|---------|---------|---------|---------|
| Commercial & Industrial | 0 | 37,492 | 38,939 | 39,477 | 22,717 |
| Municipal | 0 | 0 | 0 | 0 | 0 |
| Residential | 10,654 | 298,582 | 347,140 | 452,492 | 516,175 |

Total Renewable Program Participation

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------------|------|------|------|------|------|
| Solar*Rewards | 4 | 5 | 6 | 6 | 6 |
| Non-Solar*Rewards Net Metering | 5 | 15 | 24 | 36 | 38 |
| Solar*Rewards Community | 2 | 2 | 8 | 24 | 29 |
| Windsor & Renewable*Connect Flex | 100 | 118 | 129 | 131 | 127 |
| Renewable*Connect | 8 | 11 | 11 | 8 | 7 |



Historical Windsor program data based on Community Energy Reports for 2016-2019.
Historical Renewable Connect program data based on Community Energy Reports for 2019.

- Solar*Rewards Community
- Renewable*Connect
- Solar*Rewards
- Non-Solar*Rewards
- Windsource & Renewable*Connect Flex



2023 Community Data Dashboard

Xcel Energy Year-End Program Summary



Energy Efficiency Programs Participation and Savings

| | | DSM Participation Count | | | | | DSM Therm Savings | | | | | DSM kWh Savings | | | | |
|-----------------------------------|---|-------------------------|-----------|------------|------------|------------|-------------------|--------------|---------------|--------------|--------------|-----------------|----------------|------------------|----------------|---------------|
| | | 2019 | 2020 | 2021 | 2022 | 2023 | 2019 | 2020 | 2021 | 2022 | 2023 | 2019 | 2020 | 2021 | 2022 | 2023 |
| Commercial | Lighting Efficiency | 1 | 2 | 2 | 3 | | 0 | 0 | 0 | 0 | | 616 | 22,584 | 184,005 | 115,853 | |
| | Heating Efficiency | 1 | 1 | | | | 19,683 | 807 | | | | 0 | 0 | | | |
| | Energy Design Assistance | 1 | | 1 | | | 2,934 | | 8,600 | | | 108,053 | | 1,444,878 | | |
| | Commercial Refrigeration Efficiency | 1 | 2 | | | | 0 | 0 | | | | 11,865 | 154,032 | | | |
| | Small Commercial Building Controls | | | | 1 | | | | | 0 | | | | | 30 | |
| | Small Business Solutions | | 2 | 1 | 18 | 2 | | 0 | 0 | 108 | 0 | | 1,487 | 630 | 27,537 | 3,686 |
| | HVAC+R | | | 1 | 2 | | | | 0 | 0 | | | | 2,028 | 3,772 | |
| | Cooling | | | 4 | | | | | 0 | | | | | 1,970 | | |
| | Business Energy Analysis | | | 3 | | | | | 0 | | | | | 0 | | |
| Residential | Thermostat Optimization | 24 | 5 | | | | 1,128 | 240 | | | | 3,923 | 835 | | | |
| | Energy Savings Kits | 17 | 9 | 4 | 2 | 6 | 238 | 56 | 49 | 49 | 101 | 6,473 | 1,264 | 1,195 | 607 | 2,465 |
| | Evaporative Cooling | 10 | 11 | | | | 0 | 0 | | | | 16,030 | 17,237 | | | |
| | Refrigerator & Freezer Recycling | 9 | 13 | 9 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 8,178 | 11,570 | 6,983 | 12,008 | 6,238 |
| | High Efficiency Air Conditioning | 7 | | | | | 241 | | | | | 3,009 | | | | |
| | Home Energy Audit | 6 | 1 | 10 | 8 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Residential Heating | 5 | 8 | | | | 497 | 1,091 | | | | 3,936 | 2,185 | | | |
| | Saver's Switch | 4 | 3 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 16 | 12 | 24 | 20 | 35 |
| | Home Energy Squad | 4 | 2 | 9 | 18 | 25 | 314 | 30 | 315 | 268 | 482 | 3,725 | 737 | 3,905 | 7,318 | 7,287 |
| | Water Heating | 2 | 2 | | | | 201 | 171 | | | | 0 | 0 | | | |
| | Smart Thermostat | 2 | 1 | 18 | 12 | 29 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 76 | 52 | 116 |
| | Single-Family Weatherization | 2 | 5 | | 2 | 3 | 400 | 253 | | 399 | 308 | 637 | 645 | | 369 | 1,427 |
| | Insulation & Air Sealing | 1 | 7 | 5 | 5 | 2 | 471 | 2,045 | 1,300 | 869 | 428 | 0 | 1,482 | 1,167 | 868 | 147 |
| | Residential HVAC | | 6 | 38 | 42 | 32 | | 391 | 1,894 | 2,215 | 2,692 | | 3,657 | 29,452 | 7,372 | 6,642 |
| | Multifamily Weatherization | | 1 | | | | | 0 | | | | | 22,512 | | | |
| | Multifamily Buildings | | | | | 1 | | | | | 0 | | | | | 0 |
| | Income Qualified EV Charger and Wiring Rebate | | | | | 1 | | | | | 0 | | | | | 0 |
| | HomeSmart | | | | 1 | | | | | 0 | | | | | 0 | |
| Home Wiring Rebate | | | | | 3 | | | | | 0 | | | | | 0 | |
| Home Performance with ENERGY STAR | | 2 | | | | | 224 | | | | | 0 | | | | |
| EV Purchase and Lease Rebate | | | | | 1 | | | | | 0 | | | | | 0 | |
| Grand Total | | 97 | 83 | 111 | 131 | 128 | 26,107 | 5,308 | 12,158 | 3,908 | 4,011 | 166,469 | 240,243 | 1,676,313 | 175,806 | 28,043 |

Xcel Energy filed a new DSM plan in 2021 resulting in some programs being reorganized and renamed.



ENERGY DATA GLOSSARY



Definitions

Demand Side Management (DSM): Demand side management aims to encourage consumers to decrease energy consumption. Xcel Energy offers DSM programs, like efficiency rebates and energy assessments, to help consumers reduce and shift their energy consumption.

Premise: A unique identifier for the location of electricity or natural gas service. In most cases it is a facility location. There can be multiple premises per building, and multiple premises per individual customer.

Heating Degree Days (HDD): Heating degree days (HDDs) are a measure of how cold the temperature was on a given day or during a period of days and correlates to heating demand. For example, the more HDDs there are, the higher furnace use is likely to be. This is often seen through an increase in natural gas consumption.

Cooling Degree Days (CDD): Cooling degree days (CDDs) are a measure of how hot the temperature was on a given day or during a period of days and correlates to cooling demand. For example, the more CDDs there are, the higher air conditioner use is likely to be. This is often seen through an increase in electricity consumption.

Units of Measure

Greenhouse Gases (GHG): Gases in the atmosphere that absorb and emit radiation and significantly contribute to climate change. The primary greenhouse gases in the earth's atmosphere are water vapor, carbon dioxide, methane, nitrous oxide, and ozone.

Kilowatt-hour (kWh): A unit of electricity consumption.

Therm (thm): A unit of natural gas consumption.

Metric Tons of Carbon Dioxide Equivalent (MTCO_{2e}): A unit of measure for greenhouse gas emissions. The unit "CO_{2e}" represents an amount of a greenhouse gas whose atmospheric impact has been standardized to that of one unit mass of carbon dioxide (CO₂), based on the global warming potential (GWP) of the gas.

Data Privacy

15/15 Rule: Xcel Energy applies the "15/15 rule" as an aggregation standard to the energy consumption data within this report. So long as a given aggregated value contains 15 or more customers and no single customer makes up 15 percent or more of the aggregated value, the value can be publicized in this report. If these conditions are not met, customer(s) will be removed from energy consumption data.

Data Notes

The renewable energy subscription program participation metric changed in 2023 from a monthly average to a distinct annual customer participant count.

Renewable Energy Programs

Renewable*Connect Flex (Formerly Windsource): An Xcel Energy subscription program enabling customers to source their electricity from wind for an additional monthly cost. Annual participation is calculated as a count of unique customers in both programs.

Solar*Rewards Community: A community solar garden subscription program where customers subscribe to a nearby, third-party community solar garden. Customers receive a credit for the energy produced by the portion of the solar garden represented by their subscription. Annual participation is calculated as a count of unique customers in the program.

Renewable*Connect: An Xcel Energy subscription program enabling customers to source their electricity from solar and wind for an additional monthly cost. Annual participation is calculated as a count of unique customers in the program.

Solar*Rewards: An incentivized Xcel Energy program for on-site solar installations. Excess energy generation is sold back to Xcel Energy.

Net-Metering: A non-incentivized Xcel Energy program for on-site solar installations. Excess energy generation is sold back to Xcel Energy.

Popular Energy Efficiency Programs

Home Energy Squad: A residential energy assessment program from Xcel Energy that includes a home energy audit and installation of energy efficient materials.

Residential HVAC: A rebate program for residential customers who purchase high-efficiency heating and cooling equipment, including heat pumps, water heaters and more.

HVAC+R: A rebate program where businesses can earn rebates from Xcel Energy on high-efficiency heating, ventilation, air-conditioning, refrigeration, and more.

Small Business Energy Solutions: A free lighting and HVAC assessment program for small and medium-sized business customers.

Lighting Efficiency: Business customers can earn rebates from Xcel Energy for purchasing and installing LED lighting fixtures, bulbs, and control systems.