

# 2023 Community Data Dashboard

## Xcel Energy Year-End Program Summary



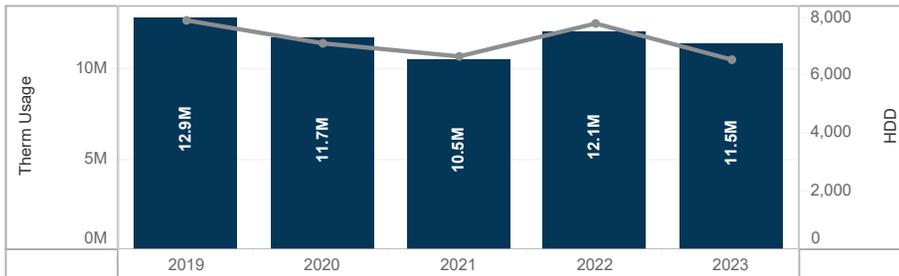
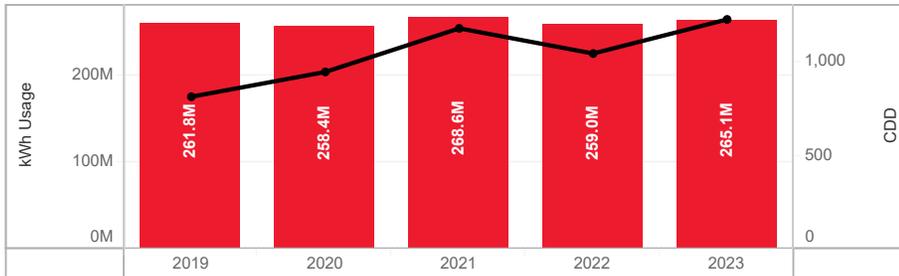
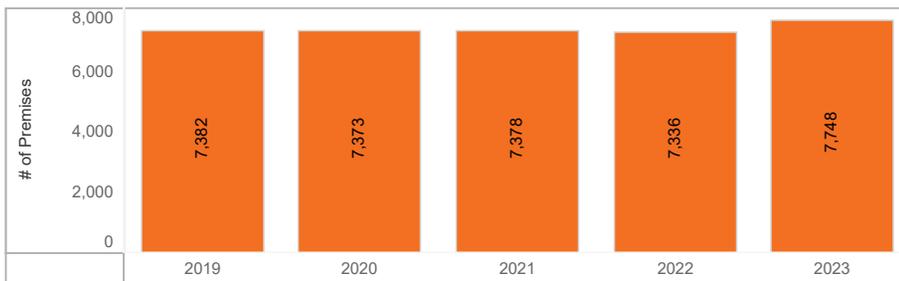
### Northfield strives to:

-Achieve 100% carbon-neutrality no later than 2050 for community-wide energy metered at the Northfield substation

### Baseline

2017

### Utility Consumption & Premise Trends



	2019	2020	2021	2022	2023
Cooling Degree Days (CDD)	817	950	1,184	1,049	1,232
Heating Degree Days (HDD)	7,921	7,128	6,678	7,812	6,565

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

### Annual Program Trends

	2019	2020	2021	2022	2023
DSM kWh Savings	3,068,654	3,132,519	4,483,883	2,467,777	3,328,605
DSM Therm Savings	54,901	198,706	216,207	79,535	145,164
DSM Participation Count	913	857	856	593	784
Total Renewable Energy Participation	967	1,181	1,292	1,404	1,410
Total Renewable Energy kWh Savings	51,628,289	45,992,959	53,617,599	52,523,312	56,451,055
Total DSM & RE GHG Savings	10,936	5,734	7,532	5,830	6,266

### Annual % Change

	2020	2021	2022	2023
% Change in Premise Count	0%	0%	-1%	6%
% Change in kWh Usage	-1%	4%	-4%	2%
% Change in Therm Usage	-9%	-10%	15%	-5%

\* Partners in Energy refreshed the community-wide premise list in 2023 which accounts for the increase in premise count.

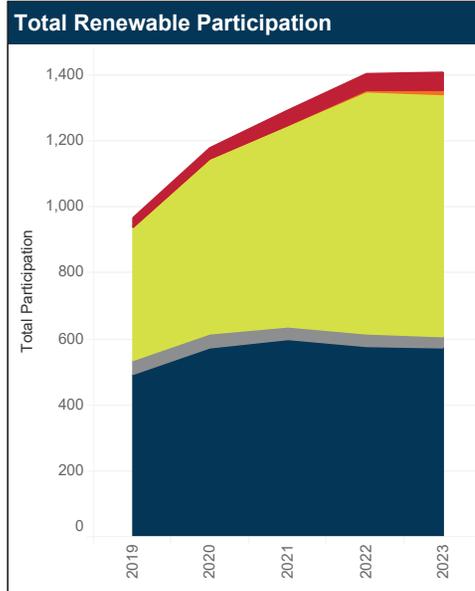
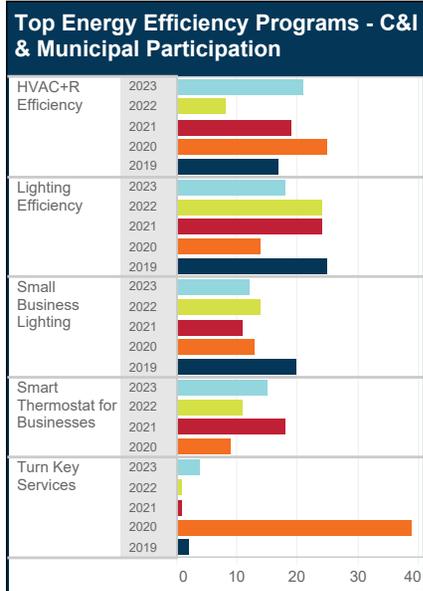
In the past, large energy users in Northfield signed a data waiver so that energy data that would have been excluded under Xcel Energy's privacy rules was included in past dashboards. When the data waivers expired at the end of 2023, they were not extended. As a result, their current and historical energy consumption data is no longer included here. See the glossary on page 4 for more details on data privacy.

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. Xcel Energy provides electricity and natural gas to the community.



# 2023 Community Data Dashboard Xcel Energy Year-End Program Summary



### Implementation Metrics

#### Energy Efficiency Program Participation

	2019	2020	2021	2022	2023
Commercial & Industrial	75	109	100	92	99
Municipal	3	1	3	0	0
Residential	835	747	753	501	685

#### Renewable Program Participation

	2019	2020	2021	2022	2023
Commercial & Industrial	38	54	61	69	74
Municipal	13	13	13	13	15
Residential	916	1,114	1,218	1,322	1,321

#### Total Renewable Program kWh

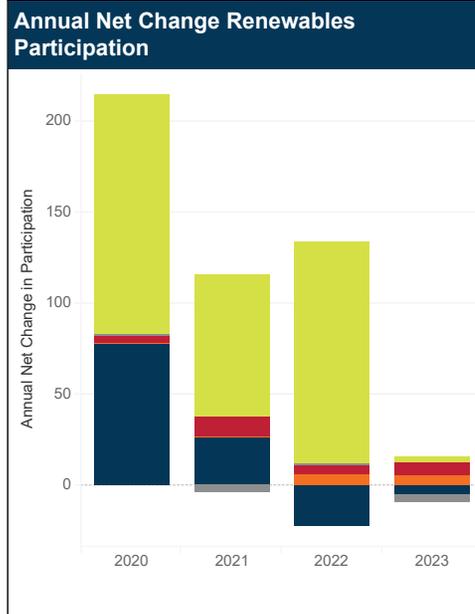
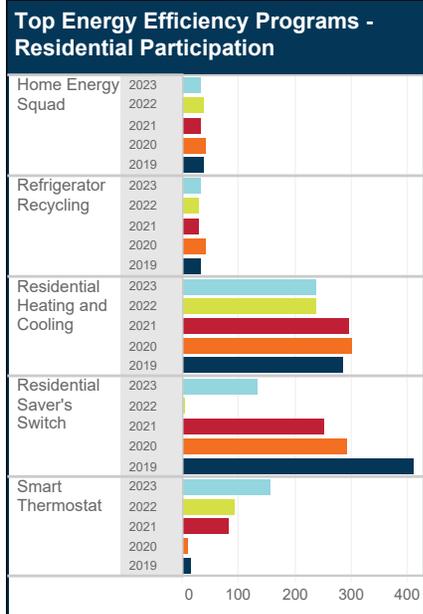
	2019	2020	2021	2022	2023
Commercial & Industrial	46,024,272	38,766,356	45,168,879	43,883,906	46,462,440
Municipal	1,692,256	1,843,084	1,972,595	1,714,822	1,834,646
Residential	3,911,762	5,383,520	6,476,126	6,924,584	8,153,970

#### Total Renewable Program Participation

	2019	2020	2021	2022	2023
Solar*Rewards Participation	29	34	45	50	57
Non-Solar*Rewards Net Metering Participation	0	0	0	6	11
Solar*Rewards Community Participation	403	534	611	733	736
Windsource & Renewable*Connect Flex Participation	493	571	598	576	571
Renewable*Connect Participation	42	42	38	39	35

Windsource program data available since 2016.  
Renewable\*Connect program data available since 2019.  
kWh not available for Solar\*Rewards program participation.

- 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
<b>Commercial</b>															
HVAC+R Efficiency	17	25	19	8	21	13,844	56,836	47,855	11,668	5,836	449,111	1,189,966	241,925	130,407	135,897
Lighting Efficiency	25	14	24	24	18	0	0	0	0	0	787,408	346,407	1,431,245	1,416,173	2,174,706
Smart Thermostat for Businesses		9	18	11	15		0	693	154	0		97	3,471	2,675	271
Small Business Lighting	20	13	11	14	12	1,000	0	517	1,812	177	317,945	383,966	140,881	294,610	469,806
Electric Rate Savings	4	2	1		9	0	0	0		0	-4,230	-708	1,682		295
Multi-Family Building Efficiency	1	2	5	26	8	908	0	2,455	2,501	269	40,047	0	33,193	99,245	9,869
Turn Key Services	2	39	1	1	4	0	0	0	0	0	0	0	0	0	0
Saver's Switch for Business	1		7		3	0		0		0	38		48		57
InfoWise				2	3				0	0				0	0
Fluid System Optimization	4				3	0				0	46,396				301,930
Energy Efficient Buildings			6		2			63		0			47,380		104,573
Custom Efficiency	4	2	2		1	15,432	83,242	0		97,299	1,228,865	625,461	1,041,967		0
Process Efficiency				2					0					0	
Foodservice Equipment		2	3				1,573	1,801				0	17,102		
Energy Design Assistance			4	2				112,930	20,240				1,319,923	382,722	
Efficiency Controls		2	2	2			24,404	1,992	2,032			342,011	23,053	10,041	
<b>Residential</b>															
Residential Heating and Cooling	286	299	296	239	238	20,217	22,230	38,361	32,684	32,544	122,293	148,065	90,176	67,460	72,882
Smart Thermostat	16	11	83	92	155	630	770	2,295	605	385	1,213	1,330	4,030	1,678	3,004
Residential Saver's Switch	408	293	250	5	133	0	0	0	0	0	832	588	260	5	137
Home Energy Audit	46	12		51	46	0	0		0	0	0	0		0	0
Refrigerator Recycling	32	42	30	29	31	0	0	0	0	0	23,238	29,595	20,609	23,848	22,229
Home Energy Squad	38	43	33	36	31	1,971	2,270	1,484	1,192	1,336	50,517	45,184	34,083	25,173	20,617
HomeSmart				18	22				0	0				0	0
Insulation Rebate	2	15	22	17	14	555	5,712	4,212	4,551	3,604	281	3,095	11,045	5,435	1,504
Low-Income Home Energy Squad	7	32	32	9	6	344	1,669	1,132	375	106	4,700	17,462	19,108	7,099	2,417
Efficient New Home Construction			1		6			417		1,398			1,614		7,809
Home Energy Savings Program			6	3	2			0	0	0			1,088	395	-317
Whole Home Efficiency				2	1				1,721	2,210				811	919
<b>Grand Total</b>	<b>913</b>	<b>857</b>	<b>856</b>	<b>593</b>	<b>784</b>	<b>54,901</b>	<b>198,706</b>	<b>216,207</b>	<b>79,535</b>	<b>145,164</b>	<b>3,068,654</b>	<b>3,132,519</b>	<b>4,483,883</b>	<b>2,467,777</b>	<b>3,328,605</b>

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



**PARTNERS IN ENERGY**  
An Xcel Energy Community Collaboration

# 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<sub>2e</sub>):** A unit of measure for greenhouse gas emissions. The unit "CO<sub>2e</sub>" represents an amount of a greenhouse gas whose atmospheric impact has been standardized to that of one unit mass of carbon dioxide (CO<sub>2</sub>), based on the global warming potential (GWP) of the gas.

## Data Privacy

**4/50 Rule:** Xcel Energy applies the "4/50 rule" as an aggregation standard to the energy consumption data within this report. So long as a given aggregated value contains 4 or more customers and no single customer makes up 50 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.

## 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 Heating and Cooling:** 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 Lighting:** 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.

Check out the [Energy Terms 101 digital resource](https://xcelenergycommunities.com/document/energy-terms-101-0) to learn more:  
<https://xcelenergycommunities.com/document/energy-terms-101-0>

