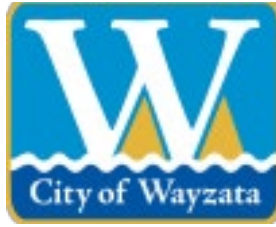


ENERGY AND ENVIRONMENT COMMITTEE

Tuesday, July 25, 2023 5:00 PM – 6:30 PM

**Wayzata City Hall
600 Rice Street East
Wayzata, MN 55391**

1. Roll Call
2. Approve Agenda
3. Approve June 27, 2023 Meeting Minutes
4. Municipal Solar Update
5. Sustainable Home Charette
6. 2023 Projects Discussion
7. 2022 Energy Data Review
8. Next Meeting – August 29
9. Adjournment



ENERGY AND ENVIRONMENT COMMITTEE

Meeting Minutes

Tuesday, June 27, 2023 5:00 PM – 6:30 PM

1. Roll Call

Committee Attendees: Polly Andersen, Dr. Edmund Chute, Lauren Lindelof, KC Chermak, Meaghan Yorro, David Ferri, and Ava McNanley.

Wayzata City Staff Member: Nick Kieser, Parks Planner

2. Approve Agenda

Motion to approve agenda, with the addition of a Sustainability Champion Award discussion, first by Ferri, and seconded by Chute. Motion passed 7-0.

3. Approve March 28, 2023 Minutes and May 17, 2023 Minutes

Motion to approve minutes, first by Dr. Chute and seconded by Lindelof. Motion passed 7-0.

4. Introduction of New E&E Committee Members

Committee Members McNanley and Ferri provided background on themselves and their interest in joining the E&E Committee.

5. Legislative Update

Staff reviewed the legislative summary that was provided in the agenda packet and highlighted specific opportunities that the Committee could pursue in the future when they become available.

Specifically, the Committee focused on the grants for local climate action planning and implementation which could provide funding to create a climate action plan. Additionally, there will be future electric vehicle infrastructure grants that could assist in developing more EV infrastructure in the city.

6. 2023 Projects Discussion

The Committee reviewed the list of potential ideas for water-related sustainability projects. From this discussion, the Committee noted that it would be helpful to create a diagram of a sustainable house that could have a number of ideas that homeowners could pursue. This diagram could be used for educational purposes and posted on the city's website. Staff will work to put together a house

diagram that the Committee can use as a type of charrette to brainstorm sustainable items to include like native plantings, rain barrels, solar panels, heat pumps, etc.

7. Municipal Solar Update

From the last City Council discussion, staff has been working with Blue Horizon on renderings of the potential solar panels on the Muni/Liquor Store building. The Council was concerned on the visual impact the panels could have on the building. The Conditional Use Permit (CUP) for the buildings located at the 600 Rice St E property was approved by Council at their last meeting, but the CUP for the Muni/Liquor Store was tabled to review the renderings. The Council will review the renderings and the CUP at the July 18 meeting.

8. Election of Officers

Chair Andersen nominated Lauren Lindelof as Chair and KC Chermak as Co-Chair.

Motion made by Dr Chute to accept the nomination and seconded by Ferri. Motion passed 7-0.

9. Added - Sustainability Award

Staff reviewed the Sustainability Champion Award to the Wayzata Community Church and the sustainable projects that the Church has done and is preparing for in the future.

The Committee discussed the future of the Sustainability Champion Award to keep create a successful campaign for the award. The general idea was to have this be an annual award and businesses/organizations could be nominated for the award. This would be promoted in city media outlets to receive nominations and the Committee could vote each year on who would receive the award.

10. Next Meeting – August 29

11. Adjournment

Motion to adjourn at 6:32. Motion passed 7-0.



Features of a net-zero home

Efficient Lighting

LEDs or CFLs for low energy, high quality lighting

Double Insulation

Reduces heating and cooling demand

Heat Pump

Efficient electric heating and cooling

Heat Recovery Ventilation

Distributes tempered fresh air throughout the home

Heat Pump Water Heater

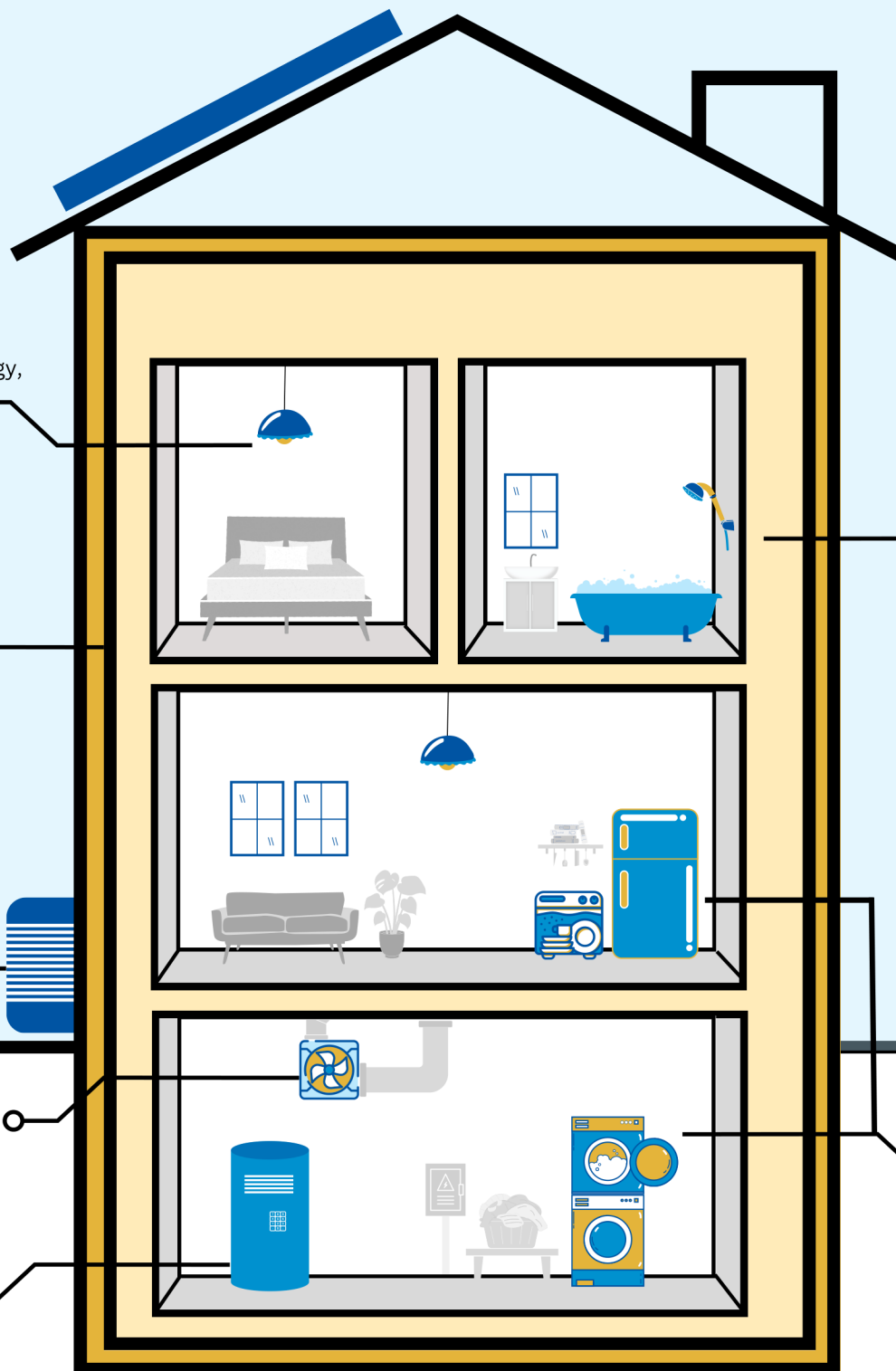
Efficient electric water heating

Low-Flow Water Fixtures

To reduce use of hot water

Tier 3 Appliances

Most efficient models for all major appliances



2023-2024 E&E Committee Ideas – Water Resources

Discounted Rain Barrels – 50% off. Usually around \$90-\$100.

Rain Garden Lottery – Provide funding to create rain gardens on properties. Could be 50% of the cost up to \$1,500 - \$2,000.

Gardening Classes – Hennepin County's Master Gardeners offer a series of free classes to help people learn more about gardening. <https://hennepinmastergardeners.org/>. We could also potentially partner with LMGC for something like this.

Webinars/Community Events – Educational events for native landscaping/general lawn care/pollinator friendly landscapes. Partner with Blue Thumb?

Compost – Provide resources on how to compost. Maybe a discounted compost container as well?

Pervious Pavement – Provide resources on how to build and maintain pervious pavement projects on your property.

Green Roof – Provide resources on how to build and maintain a green roof on your home/business.

Adopt-a-Storm Drain – Create a community volunteer opportunity to clear out storm drains.

Adopt-a-Garden – Bring back this volunteer opportunity.

Lawn Care/Fertilizer/Pesticide – The MCWD has a list of items you can do for lawn care. Rain gardens, rain barrels, low impact turf care, salt and snow removal, green roof, water pathogens, native plants, and porous pavement.

Grants – Try to find grant opportunities for folks to take advantage of.

Invasive Species – Put together resources of invasive species for residents to view and how to potentially handle the invasive species. <https://bwsr.state.mn.us/invasive-species-control-general-invasive-species-control-information> <https://www.hennepin.us/-/media/hennepinus/residents/conservation/landowner-guide/landowner-guide-final.pdf>

Pollinator Friendly Landscaping – Provide resources on how to plant pollinator friendly habitats.

Watering – Provide information on sprinkling restrictions or best practices for watering your lawn/plants.

Trees – Do some more educational resources on trees. Planting/maintenance/etc.

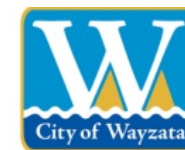
Water Conservation Options for Residents -

https://www.dnr.state.mn.us/waters/watermgmt_section/appropriations/water-conservation-residents.html

Native Plantings – Partner with a nursery to sell native plants. Maybe alongside an educational event.

2022 Community Data Dashboard

Xcel Energy Year-End Program Summary



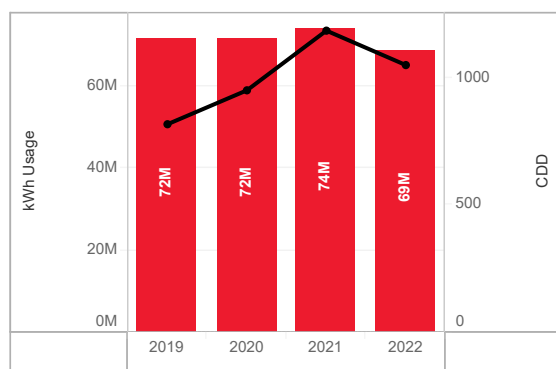
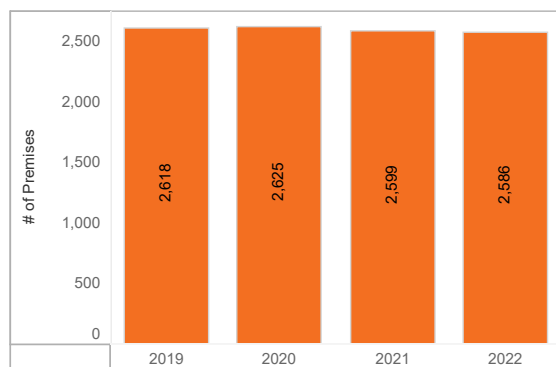
Wayzata strives to:

Baseline

2019

- Add 5 new commercial and industrial participants and 100 new residential participants in renewable energy by 2022
- Increase community-wide energy savings 30% by 2025
- Increase community-wide energy savings by 50% by 2025 if the 30% savings has been achieved before 2025
- Increase energy savings 30% by 2025, resulting in \$293,000 combined savings for residential, multi-family, and public and private buildings
- Increase energy savings by 50% by 2025 if 30% savings has been achieved before 2025, which would result in an estimated \$386,000 saved

Utility Consumption & Premise Trends

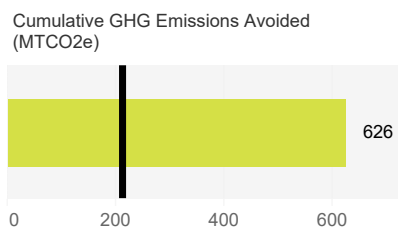
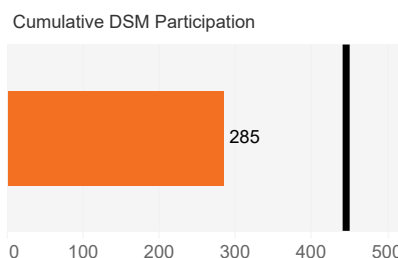
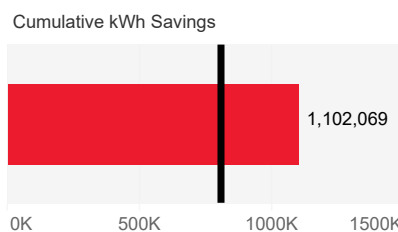


Cooling Degree Days (CDD) 817 950 1,184 1,049

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

Energy Action Plan Impact

Period: January 1, 2021 to December 31, 2022



Colored Bar: Progress Black Line: Goal

Annual Program Trends

	2019	2020	2021	2022
DSM kWh Savings	404,935	678,047	430,837	671,232
DSM Participation Count	295	164	147	135
Total Renewable Energy Participation	106	106	129	126
Total Renewable Energy kWh	1,044,167	1,074,552	1,181,232	1,093,768
Total DSM & RE GHG Savings	325	322	280	354

Annual % Change

	2020	2021	2022
% Change in Premise Count	0%	-1%	-1%
% Change in kWh Usage	0%	3%	-8%

Partners in Energy is a collaboration of the Community and Xcel Energy.

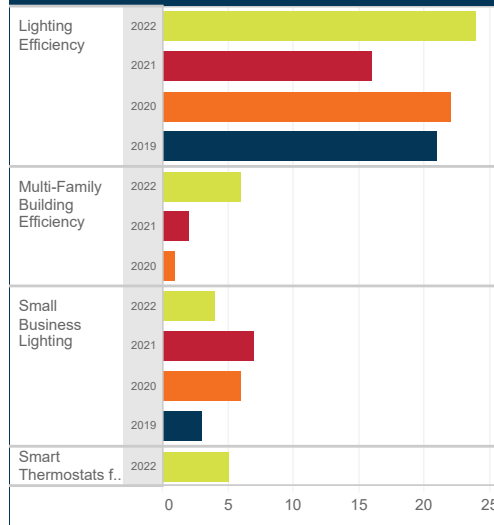
Participation counts for rebate programs reflect Xcel Energy offerings only.
Xcel Energy provides electricity to the community.



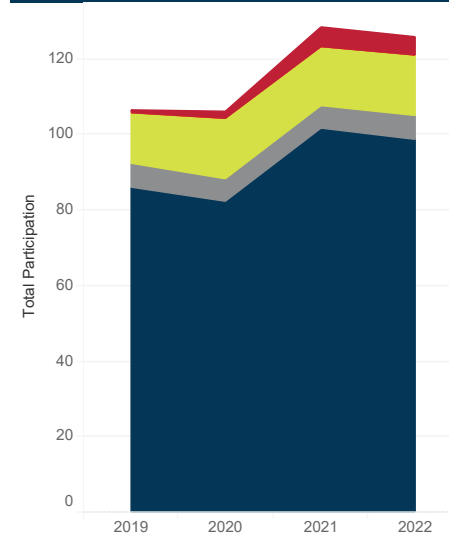
2022 Community Data Dashboard Xcel Energy Year-End Program Summary



Top Energy Efficiency Programs - C&I & Municipal Participation



Total Renewable Participation



Implementation Metrics

Energy Efficiency Program Participation

	2019	2020	2021	2022
Commercial & Industrial	30	37	32	38
Municipal	0	0	3	10
Residential	265	127	112	87

Renewable Program Participation

	2019	2020	2021	2022
Commercial & Industrial	0	0	2	2
Municipal	0	0	0	0
Residential	106	106	127	124

Total Renewable Program kWh

	2019	2020	2021	2022
Commercial & Industrial	0	0	21,862	32,774
Municipal	0	0	0	0
Residential	1,044,167	1,074,552	1,159,370	1,060,994

Total Renewable Program Participation

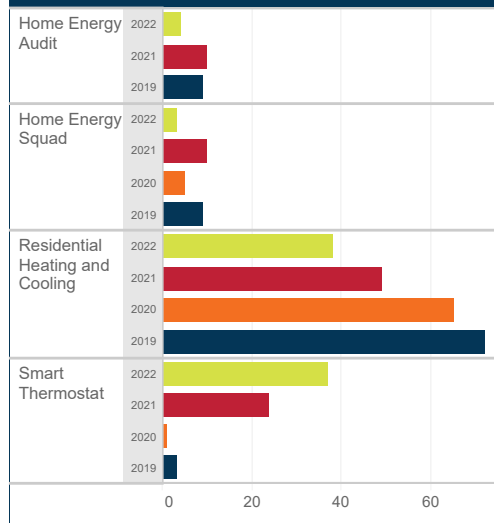
	2019	2020	2021	2022
Non-Solar*Rewards Net Metering Participation	0	0	0	0
Renewable*Connect Participation	6	6	6	6
Solar*Rewards Community Participation	13	16	16	16
Solar*Rewards Participation	1	2	5	5
Windsor Participation	86	82	102	99

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

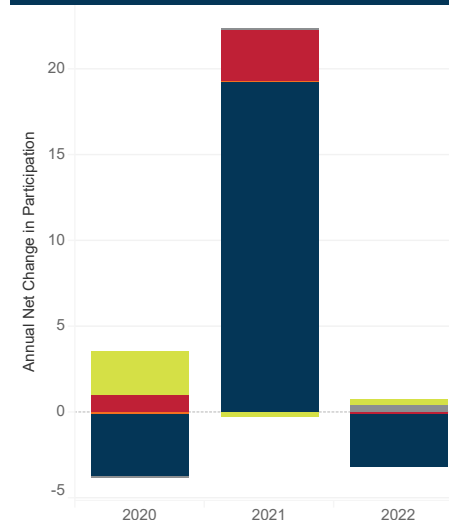
Program Name

- Solar*Rewards Participation
- Non-Solar*Rewards Net Metering Participation
- Solar*Rewards Community Participation
- Renewable*Connect Participation
- Windsor Participation

Top Energy Efficiency Programs - Residential Participation



Annual Net Change Renewables Participation



2022 Community Data Dashboard Xcel Energy Year-End Program Summary



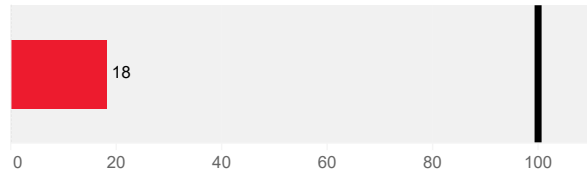
Energy Efficiency Program Participation

	2019	2020	2021	2022
Commercial & Industrial	Computer Efficiency	1		
	Custom Efficiency			1
	Efficiency Controls	1		
	Electric Rate Savings		1	
	Energy Design Assistance		2	
	Foodservice Equipment		1	
	HVAC +R Efficiency	3	3	6
	Lighting Efficiency	21	22	14
	Multi-Family Building Efficiency		1	2
	Recommissioning			1
	Saver's Switch for Business	1	2	
	Small Business Lighting	3	6	7
	Smart Thermostats for Business			5
	Turn Key Services			1
Municipal	Home Energy Audit		1	
	HVAC +R Efficiency			3
	Lighting Efficiency		2	4
	Turn Key Services			3
Residential	Efficient New Home Construction	3	6	
	Home Energy Audit	9		10
	Home Energy Squad	9	5	10
	Multi-Family Energy Savings Program	105		
	Refrigerator Recycling	4	6	5
	Residential Heating and Cooling	72	65	49
	Residential Saver's Switch	60	44	14
	Smart Thermostat	3	1	24

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

Implementation Progress

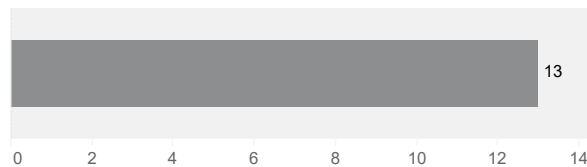
Add 100 new residential participants in renewable energy by the end of 2022



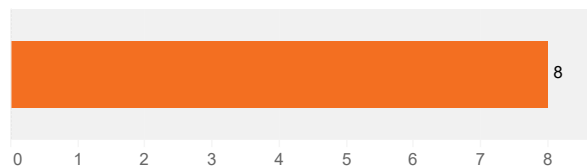
Add 5 new C&I participants in renewable energy by the end of 2022



Home Energy Squad Visits



Multi-Family Building Efficiency program sign-ups



Colored Bar: Progress Black Line: Goal

Implementation Highlights

- Continued a residential campaign asking homeowners to sign up for a Home Energy Squad visit via the city website, tabling at events, and a utility bill insert with a city buydown of visits.
- Conducted a business blitz with Minnesota Chamber of Commerce's Energy Smart program to provide free energy assessments to local businesses.
- Continued implementation with Partners in Energy through 2022.
- Created outreach materials for faith organizations.
- Underwent a municipal fleet study.
- Followed up on municipal building energy assessments with Windsourse subscriptions, rooftop solar proposals, and completing suggested projects.
- Hosted a renewable energy event for residents at City Hall.
- Sent an end-of-year post card promoting free Home Energy Squad visits for residents in 2023.



PARTNERS IN ENERGY
An Xcel Energy Community Collaboration