



Environmental Quality and Energy Commission Meeting

November 12, 2024

7:00 PM

Fridley Civic Campus, 7071 University Ave N.E.

Agenda

Call to Order

Approval of Agenda

Approval of Meeting Minutes

1. Approve the Minutes from the Environmental Quality and Energy Commission meeting of October 8, 2024

New Business

2. Solar on City-Owned Buildings Update
3. Community Resilience Grant Application

Old Business

4. Energy Action Plan Updates
5. Grant Updates
6. Outreach and Events Updates

Other Items

7. Informal Status Reports

Adjournment

Accessibility Notice:

- If you need free interpretation or translation assistance, please contact City staff.
- Si necesita ayuda de interpretación o traducción gratis, comuníquese con el personal de la ciudad.
- Yog tias koj xav tau kev pab txhais lus los sis txhais ntaub ntauw dawb, ces thov tiv tauj rau Lub Nroog cov neeg ua hauj lwm.
- Haddii aad u baahan tahay tarjumaad bilaash ah ama kaalmo tarjumaad, fadlan la xiriir shaqaalaha Magaalada.

Upon request, accommodation will be provided to allow individuals with disabilities to participate in any City of Fridley services, programs or activities. Hearing impaired persons who need an interpreter or other persons who require auxiliary aids should contact CityClerk@FridleyMN.gov or (763) 572-3450.



AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Approve the Minutes from the Environmental Quality and Energy Commission meeting of October 8, 2024

Background

Approve the minutes from the Environmental Quality and Energy Commission meeting of October 8, 2024.

Recommendation

Approve the minutes from the Environmental Quality and Energy Commission meeting of October 8, 2024.

Attachments and Other Resources

- Environmental Quality and Energy Commission Minutes- October 8, 2024

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.



ENVIRONMENTAL QUALITY & ENERGY COMMISSION MEETING

October 8, 2024

7:00 PM

Fridley Civic Campus, 7071 University Ave N.E.

MINUTES

Call to Order

Chair Klemz called the Environmental Quality and Energy Commission to order at 7:12 p.m.

Roll Call

Present: Aaron Klemz

Sam Stoxen

Amy Dritz

Mark Hansen

Absent: Heidi Ferris

Avonna Starck

Justin Foell

Others Present: Rachel Workin, Environmental Planner

Approval of Agenda

Motion by Commissioner Hansen to approve the meeting agenda. Seconded by Commissioner Dritz. The motion carried unanimously.

Approval of Meeting Minutes

1. Approval of September 10, 2024 Environmental Quality and Energy Commission Meeting Minutes

Motion by Commissioner Dritz to approve the September 10, 2024 meeting minutes. Seconded by Commissioner Stoxen. The motion carried unanimously.

New Business

2. Floodplain Ordinance Update

Ms. Workin shared proposed revisions to the Floodplain ordinance occurring as part of the recodification process. Commission members asked why the optional provision of requiring nonconforming structures experiencing repetitive losses to be built to the Regulatory Floodplain Elevation (RFPE) wasn't recommended. Ms. Workin shared that it is difficult to track repetitive losses and it may cause a significant impact to the homeowner in proportion to two losses of 25% of the structure

value. Ms. Workin shared that there was required regulation that nonconforming structures experiencing a one-time loss of 50% of the structure value must be rebuilt to the RFPE. Commissioner Hansen recommended changing the RFPE for new construction to be equal to the base flood elevation (BFE) plus two feet instead of one. The commission discussed the advantages of this approach being additional protection of property in the face of increasing storm intensity; however, there are disadvantages of increased floodplain fill, cost, as well as potential difficulty in achieving the standard on small lots. Motion by Commissioner Hansen to approve the proposed floodplain ordinance with additional staff review on the feasibility of changing the RFPE to be the BFE plus two feet instead of one. Seconded by Commissioner Stoxen. The motion passed unanimously.

3. Critical Area Ordinance Update

Ms. Workin shared proposed revisions to the Critical Area ordinance. Motion by Commissioner Stoxen to approve the proposed Critical Area ordinance. Seconded by Commissioner Hansen. The motion passed unanimously.

4. Shoreland Ordinance Update

Ms. Workin shared proposed updates to the City's shoreland ordinance for discussion. Motion by Commissioner Dritz to approve the proposed Shoreland Ordinance Update. Seconded by Commissioner Stoxen. The motion passed unanimously.

Old Business

5. Energy Action Plan updates

Ms. Workin shared that the City submitted its grant application for a solar array on the Moore Lake building. She will be providing an update at the next meeting on potential applications for Round 2.

6. Grant Updates

Ms. Workin shared that the Anoka Conservation District had received funding for its Pollinator Pathways grant application. The City will have an AmeriCorps intern starting on October 21 to assist with trees and native plant projects. The City also received support from Coon Creek Watershed District for dog waste stations in Craig Park, Riverview Heights Park, and along Riverview Terrace.

7. Outreach and Event updates

Ms. Workin shared that the City is collecting baby gear items in October.

Other Items

8. Informal Status Reports

No informal status reports were shared.

Adjournment

Motion by Commissioner Stoxen to adjourn the meeting. Seconded by Commissioner Hansen. The Motion carried unanimously. The meeting was adjourned at 8:17 p.m.

Respectfully submitted,

Rachel Workin Digitally signed by Rachel Workin
Date: 2024.11.04 15:18:35 -06'00'

Rachel Workin

Environmental Planner



AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Solar on City-Owned Buildings Update

Background

The City's Energy Action Plan states that the City "lead through example by investments in energy efficiency and renewable energy in City facilities". The ability for the City to receive 30% in costs on renewable energy projects back through the direct pay provision of the Inflation Reduction Act as well as the new Solar on Public Buildings grant makes solar projects more financially feasible. Staff will share the potential for solar projects on different City facilities.

Recommendation

None

Attachments and Other Resources

- None

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.



AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Community Resilience Grant Application

Background

The MPCA has \$5,000,000 in grant funding to distribute to communities for non-stormwater and non-wastewater projects that increase community resilience to the impacts of climate change including extreme heat mitigation, renovations and upgrades to resilience hubs. Staff will share plans for a proposed grant application at Commons Park to depave a parking lot to decrease heat, add shade structures, and add solar-powered charging tables,

Recommendation

None

Attachments and Other Resources

- <https://www.pca.state.mn.us/grants-and-loans/implementation-grants-for-community-resilience>

Vision Statement

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AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Energy Action Plan Updates

Background

At the November 9, 2021 meeting, the EQEC recommended adoption of Phase 2 of the Energy Action Plan. The following activities were completed since the previous EQEC Meeting:

- Round 2 of Tabling at Fridley Terrace with CERTS and CEE
 - 98 Xcel lighting kits and 101 CenterPoint kits distributed
- Begin planning for solar at Commons Park building and Public Works Building

Xcel Energy also provided an executive summary for 2023 as well as Q1-Q2 of 2024 which is attached. Of note, regarding the Q1-Q2 data:

- The 2024 Renewable*Connect and Renewable*Connect Flex data is under review and unavailable on this mid-year dashboard. These data points are not included in the renewable energy participation, kWh savings, and total GHG throughout the dashboard.
- Some of the program participation may be underestimated because of some delays in when the data is uploaded to Xcel Energy systems.

The following activities are projected:

- ICF to begin performing HES visits
- Electric Landscaping Equipment campaign.

Recommendation

None

Attachments and Other Resources

- Fridley 2023 Executive Summary
- Fridley 2024 Q1-Q2 Implementation Dashboard

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.

Fridley Partners in Energy Community Dashboard

Executive Summary

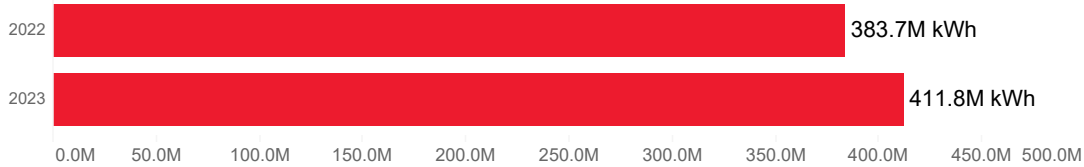
2022 & 2023



Item 4.

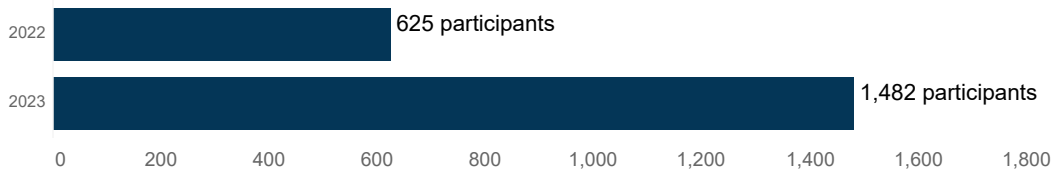
Annual Community Trends Compared to Previous Year

Electricity Use (kWh)



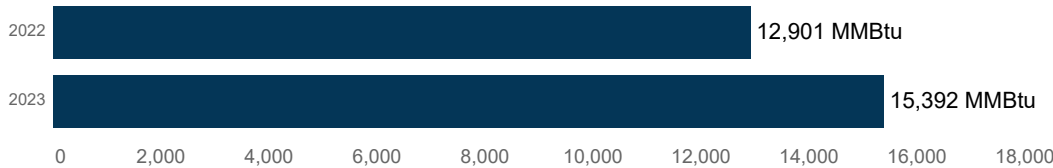
▲ 7%

Energy Efficiency Program Participation



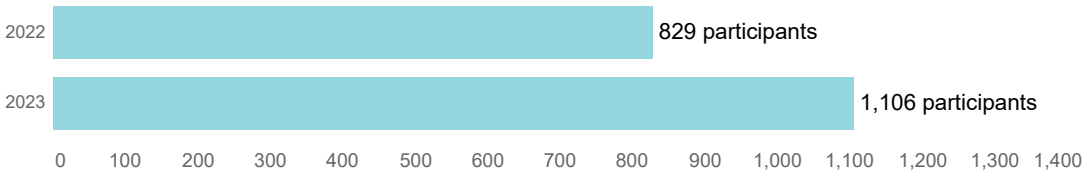
▲ 137%

Energy Efficiency Energy Savings (MMBtu)



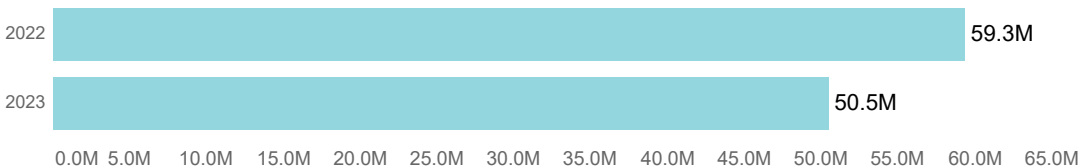
▲ 19%

Renewable Energy Program Participation



▲ 33%

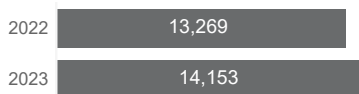
Renewable Energy Program Electricity Subscribed Amount (kWh)



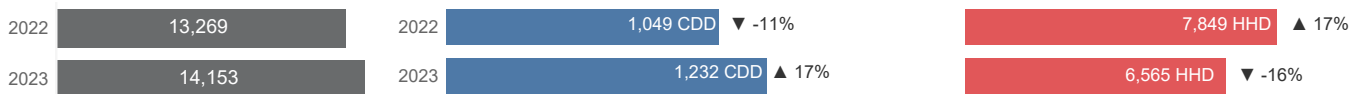
▼ 15%

Potential External Contributing Factors

Community Premise Count



Cooling and Heating Need



More cooling degree days (CDD) can lead to more electricity use

More heating degree days (HDD) can lead to more gas use

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

Partners in Energy is a collaboration of the Community and Xcel Energy.
GHG emission estimates may change slightly based upon third-party verification of utility emissions factors.
Subscribed amount (kwh) does not include any generation for on-site solar systems.



2024 Community Data Dashboard
Xcel Energy Mid-Year Program Summary



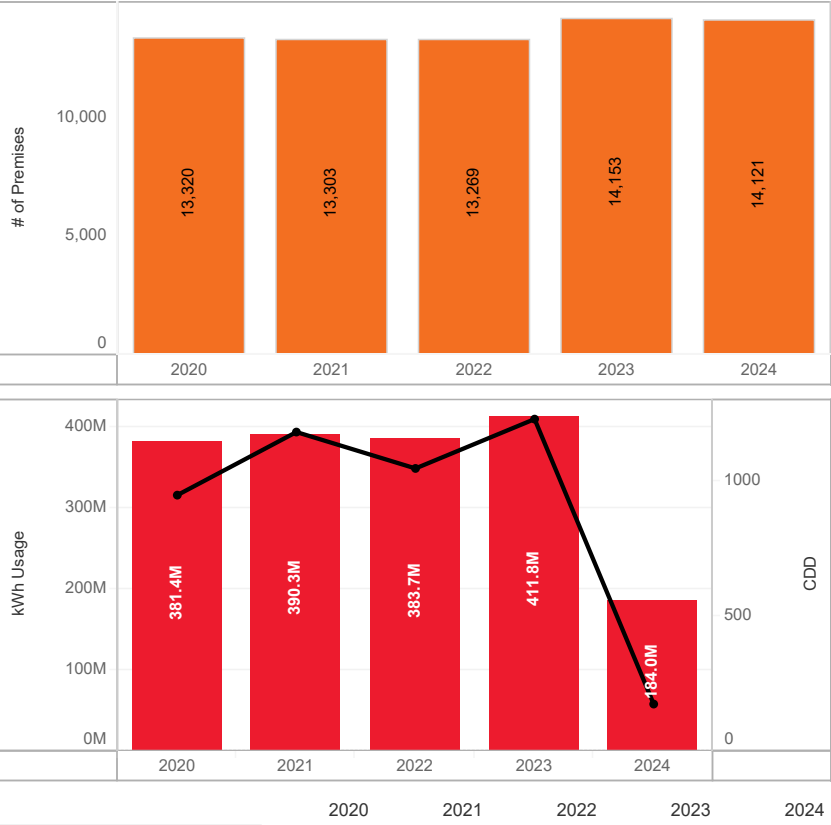
Item 4.

2024 data covers January - June

Fridley strives to: Baseline

-Reduce energy consumption 20% by 2030 2017

Utility Consumption & Premise Trends



Annual Program Trends

	2020	2021	2022	2023	2024
DSM kWh Savings	4,858,872	7,158,717	3,657,516	4,511,144	1,539,119
DSM Participation Count	1,109	1,163	628	1,489	273
Total Renewable Energy Participation*	779	841	853	1,130	485
Total Renewable Energy kWh Savings*	54,639,658	58,030,179	59,326,123	50,481,657	19,624,539
Total DSM & RE GHG Savings, MT CO2e*	9,687	10,806	8,977	5,999	354

Annual % Change

	2021	2022	2023	2024
% Change in Premise Count	0%	0%	7%	0%
% Change in kWh Usage	2%	-2%	7%	-55%

*2024 Renewable*Connect and Renewable*Connect Flex data is under review and unavailable for the mid-year dashboard. These data points are not included in the renewable energy participation, savings, and total GHG savings on this page.

Data through 6/30/2024

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 to the community.



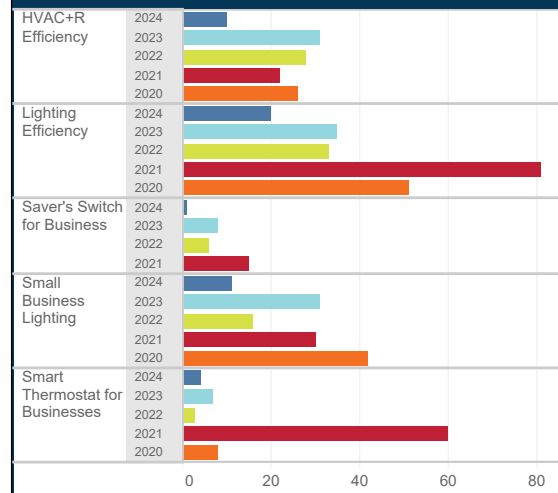
Line: CDD/HDD totals; Colored Bar: Total Consumption & Premises
Balance Temp: 65F; Source: www.weatherdatadepot.com and NOAA.gov

2024 Community Data Dashboard Xcel Energy Mid-Year Program Summary

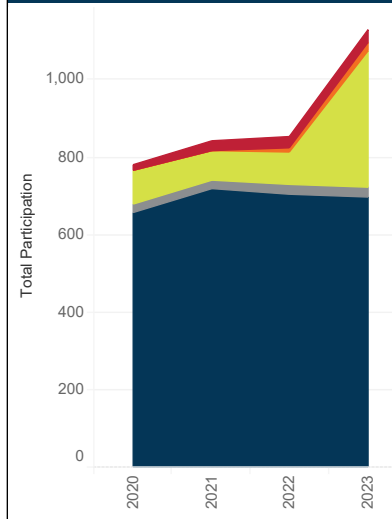


2024 data covers January - June

Top Energy Efficiency Programs - C&I & Municipal Participation



Total Renewable Participation



Implementation Metrics

Energy Efficiency Program Participation

	2020	2021	2022	2023	2024
Commercial & Industrial	164	236	92	133	55
Municipal	2	4	2	2	0
Residential	943	923	534	1,354	218

Renewable Program Participation*

	2020	2021	2022	2023	2024
Commercial & Industrial	18	22	34	41	35
Municipal	0	0	0	0	0
Residential	761	819	819	1,089	450

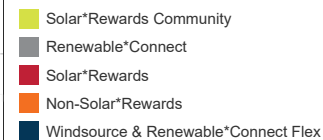
Total Renewable Program kWh*

	2020	2021	2022	2023	2024
Commercial & Industrial	52,609,828	55,631,852	56,840,343	47,343,683	18,914,476
Municipal	0	0	0	0	0
Residential	2,029,831	2,398,328	2,485,780	3,137,974	710,064

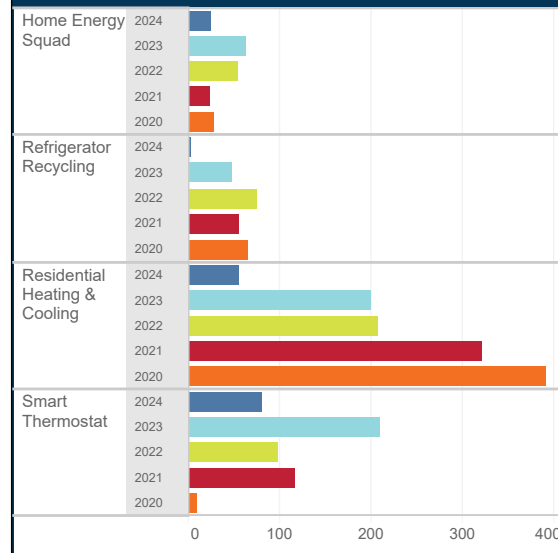
Total Renewable Program Participation*

	2020	2021	2022	2023	2024
Solar*Rewards Participation	14	23	30	34	40
Non-Solar*Rewards Net Metering Participation	1	1	12	23	29
Solar*Rewards Community Participation	86	77	83	351	416
Windsource & Renewable*Connect Flex Participation	655	717	704	696	
Renewable*Connect Participation	23	23	24	26	
Total Renewable Energy Participation*	779	841	853	1,130	485

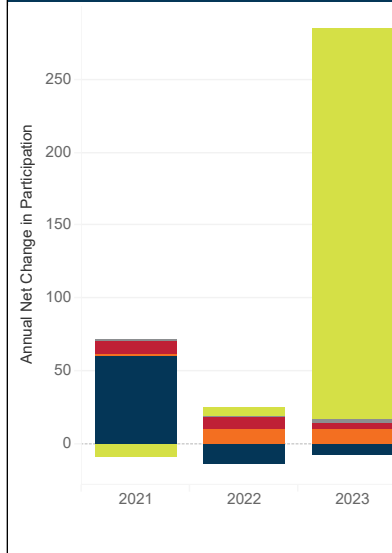
*2024 Renewable*Connect and Renewable*Connect Flex data is under review and unavailable for the mid-year dashboard. These data points are not included in renewable energy participation and renewable energy kWh on this page.



Top Energy Efficiency Programs - Residential Participation



Annual Net Change Renewables Participation



2024 Community Data Dashboard Xcel Energy Mid-Year Program Summary



Energy Efficiency Program Participation						
		2020	2021	2022	2023	2024
Commercial & Industrial & Municipal	Business Energy Assessments				1	1
	Commercial Refrigeration Efficiency	8				
	Cooling	12				
	Custom Efficiency	1			1	1
	Efficiency Controls		2			
	Electric Rate Savings	11	13		5	
	Energy Design Assistance		1			
	Energy Efficient Buildings	3	2			
	Fluid System Optimization	5	9	3	4	1
	Foodservice Equipment	1				
	HVAC+R Efficiency		21	28	31	10
	Heating Efficiency	1				
	InfoWise				2	
	Lighting Efficiency	51	81	33	35	20
	Motor Efficiency	5	1			
	Multi-Family Building Efficiency	18	2		2	5
	Peak Partner Rewards				2	
	Process & Commercial Efficiency					1
	Process Efficiency		1	3	5	
	Recommissioning			1		
	Saver's Switch for Business		15	6	8	1
	Small Business Lighting	42	30	16	31	11
	Smart Thermostat for Businesses	8	60	3	7	4
	Turn Key Services		2	1	1	
Residential	Home Energy Audit		16	57	80	35
	Home Energy Squad	27	23	53	63	24
	HomeSmart			16	10	1
	Insulation Rebate	1	2	4	7	1
	Low-Income Home Energy Squad	6	7	11	15	7
	Multi-Family Energy Savings Program		2			
	Outdoor Equipment					11
	Refrigerator Recycling	65	55	75	47	3
	Residential Cooling	199				
	Residential HVAC		321	207	200	56
	Residential Heating	191				
	Residential Saver's Switch	445	381	13	723	
	Smart Thermostat	9	116	98	209	80
	Grand Total		1,109	1,163	628	1,489

Energy Efficiency Program Savings (kWh)						
		2020	2021	2022	2023	2024
Business Energy Assessments					0	0
Commercial Refrigeration Efficiency		23,850				
Cooling		416,964				
Custom Efficiency		89,214			1,789,461	527,241
Efficiency Controls			109,876			
Electric Rate Savings		-39,966	-17,205		6,442	
Energy Design Assistance			72,074			
Energy Efficient Buildings		256,664	701,921			
Fluid System Optimization		188,709	370,939	87,115	187,179	152,121
Foodservice Equipment		11,863				
HVAC+R Efficiency			959,267	2,454,649	989,905	692,534
Heating Efficiency		6,258				
InfoWise					0	
Lighting Efficiency		2,421,354	3,897,128	720,665	968,784	47,410
Motor Efficiency		550,198	6,327			
Multi-Family Building Efficiency		18,978	3,779		7,500	4,337
Peak Partner Rewards					0	
Process & Commercial Efficiency						0
Process Efficiency			0	0	0	
Recommissioning				0		
Saver's Switch for Business			40	27	14	6
Small Business Lighting		658,992	836,349	230,117	398,600	88,642
Smart Thermostat for Businesses		1,933	28,832	42	1,902	43
Turn Key Services			0	0	0	
Home Energy Audit			0	0	0	0
Home Energy Squad		22,678	13,323	28,232	38,173	6,565
HomeSmart				0	0	0
Insulation Rebate		151	163	347	744	68
Low-Income Home Energy Squad		6,190	4,838	5,380	10,398	2,829
Multi-Family Energy Savings Program			20,812			
Outdoor Equipment						0
Refrigerator Recycling		45,691	40,840	78,539	37,555	1,447
Residential Cooling		49,202				
Residential HVAC			103,661	50,857	70,331	14,900
Residential Heating		128,245				
Residential Saver's Switch		900	397	22	728	
Smart Thermostat		804	5,356	1,524	3,428	976
Grand Total		4,858,872	7,158,717	3,657,516	4,511,144	1,539,119

Data through 6/30/2024

Xcel Energy filed a new DSM plan in 2024 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

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 & 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 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.

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>



PARTNERS IN ENERGY
 An Xcel Energy Community Collaboration



AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Grant Updates

Background

The purpose of this item is to provide Commissioners updates on sustainability grants held by the City.

Grants in the Pre-Application Stage

- Solar for Public Buildings Grant for Commons Park
- Solar for Public Buildings Grant for Public Works
- MPCA- Sewer Overflow and Stormwater Reuse Grants for Moore Lake Stormwater Retrofit Analysis Update
- MPCA Climate Resilience Implementation Grant for Commons Park

Grants Under Review

- Solar for Public Buildings Grant for Moore Lake (conditionally awarded)
- Regional Solicitation Grant- Safe Routes to School (awarded awaiting signature)
- MPCA Resiliency Grant for Electric Lawn Mower (awarded awaiting signature)
- BWSR Pollinator Pathways Grant with ACD (awarded awaiting signature)

Active Grants

- Recycling grant (ongoing)
- Met Council Regional Solicitation Grant for 44th Avenue Bridge w/ Anoka County
- BWSR/RCWD grant for Moore Lake IESF project
- University Avenue Lighting Project
- RCWD grant for sumps in Farr Lake neighborhood
- MnDOT Active Transportation grant for University Avenue Trails
- DNR Preparing for Emerald Ash Borer Grant Pt. 3
- DNR ReLeaf Grant
- Safe Streets and Roads for All Planning Grant to create a Safety Action Plan
- DNR Shade Tree Grant

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.

- CCWD grant for improved street sweeping equipment
- RCWD grant for hydrodynamic separator in 2024 Street Project
- MWMO Grants in 2024 Street Project
- Sylvan Hills Park stormwater system
- 2024 Street Project Rain Gardens
- Met Council Water Efficiency Grant pt 4
- MPCA Electric Landscaping Equipment Campaign

Grants Closed (1/1/2024+)

- CCWD Water Quality Grant for Apex Pond
- Met Council Water Efficiency Grant pt 3
- MDH Well Sealing Grant pt 3
- Dog Waste Stations in Moore Lake Park
- CDBG Grant for 61st Avenue Parcel
- SHIP grant for Bike Fix-It Station at Edgewater Gardens

Recommendation

None

Attachments and Other Resources

- None

Vision Statement

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AGENDA REPORT

Meeting Date: Nov 12, 2024

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Title

Outreach and Events Updates

Background

Outreach at community events is an important strategy to build environmental awareness and increase engagement. Events that have been completed since the last meeting as well as upcoming outreach events are listed below.

Completed events (10/8-11/12)

- Baby Gear Swap at ECFE Fall Festival (11/9)

Confirmed events and topics

-

Potential Upcoming Events

-

Recommendation

- None

Attachments and Other Resources

- None

Vision Statement

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AGENDA REPORT

Meeting Date: November 12, 2024 **Meeting Type:** Environmental Quality and Energy Commission

Submitted By: Rachel Workin, Environmental Planner

Title

Informal Status Reports

Background

Staff and Commissioners will share informal status reports on programs happening in the City.

Recommendation

None

Attachments and Other Resources

- None

Vision Statement

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