

WORK SESSION RICHFIELD MUNICIPAL CENTER, BARTHOLOMEW ROOM NOVEMBER 22, 2022 5:45 PM

Call to order

1. One year reflections on the City's organized collection program and the City's Partners in Energy progress

Adjournment

Auxiliary aids for individuals with disabilities are available upon request. Requests must be made at least 96 hours in advance to the City Clerk at 612-861-9739.

AGENDA SECTION: AGENDA ITEM # Work Session Items

1.



STAFF REPORT NO. 30 WORK SESSION 11/22/2022

REPORT PREPARED BY: Rachel Lindholm, Sustainability Specialist

DEPARTMENT DIRECTOR REVIEW: Amy Markle, Recreation Services Director 11/15/2022

OTHER DEPARTMENT REVIEW:

CITY MANAGER REVIEW:

Katie Rodriguez, City Manager 11/16/2022

ITEM FOR WORK SESSION:

One year reflections on the City's organized collection program and the City's Partners in Energy progress

EXECUTIVE SUMMARY:

DIRECTION NEEDED: None

BACKGROUND INFORMATION:

A. HISTORICAL CONTEXT

- B. **POLICIES (resolutions, ordinances, regulations, statutes, etc):** Organized collection is covered under Section 601 of city code.
- C. CRITICAL TIMING ISSUES:

None

D. FINANCIAL IMPACT:

None

E. LEGAL CONSIDERATION: None

ALTERNATIVE(S): N/A

PRINCIPAL PARTIES EXPECTED AT MEETING:

ATTACHMENTS:

Description

D PiE presentation

Type Presentation

D PiE data sheet

Organized Collection Update

Backup Material Cover Memo

ENERGY ACTION PLAN ACTIVITIES AND DATA

JULY 2021 THROUGH TODAY





Richfield Energy Action Plan

A Community-led Plan

The City of Richfield invited community leaders, business owners, and residents to usher this plan creation as a part of an Energy Action Team. This team set the plan's ambition level, contents and grounded the plan in the needs of the Richfield community.





Vision

"The City of Richfield is leading equitable action to mitigate climate change by reducing our greenhouse gas emissions. Our Energy Action Plan gives structure and measure to our goals for energy efficiency and clean energy. Our collaborative effort will serve our residents, businesses and organizations with access to opportunities to adopt sustainable energy practices."

Community Goal

Richfield will reduce community-wide greenhouse gas emissions from electricity and natural gas by 15 percent (below a 2019 baseline) by 2032.

ENERGY BURDEN OUTREACH



Inquilinos: Dejen de tirar el dinero en el uso innecesario de energía

Los residentes de Richfield son una parte importante de nuestro Plan de Acción de Energía y nuestro objetivo de ahorrarle dinero ahorrando energ

Así es cómo:



Cambie las bombillas incandescentes por LED. Las bombillas LED reducir el uso de energía hasta en un 75 % y duran 25 veces más. A energía y viajes a la tienda. Obtenga su kit LED GRATIS en la entrad principal del ayuntamiento de Richfield o póngase en contacto con Linholm en rlindholm@richfieldmn.gov para solicitar una.

Visite xcelenergy.com/bulbfinder para obtener más información.



Comuníquese con el administrador de su edificio para animarlos participaren un programa gratuito con Xcel Energy y CenterPoint Este programa ofrece un análisis de vivienda gratuito para ayudar a oportunidades para ahorrar energía y dinero y proporcionará equipo ahorro de energía gratis para cada unidad. Su edificio debe tener 5 unidades y una entrada común para calificar.

Visite multifamilyenergysolutions.com para obtener más informacid



¿Necesita ayuda con las facturas de energía? Solicite el Programa Asistencia de Energía para obtener ayuda para cubrir sus facturas d electricidad y calefacción. Inquilinos y los propietarios de viviendas cumplan con los requisitos de ingresos pueden ser elegibles para a con la factura de energía y reparaciones

Llame a la Asociación de Acción Comunitaria del Condado de Henn presentar su solicitud: 952-930-3541.

Regístrese para recibir noticias de sostenibilidad de Richfield a través del boletín Ric Recape y manténgase informado sobre todo lo relacionado con la sostenibilidad en ciudad y en su vecindario. Busque consejos sobre energía, eventos y otras noticias sostenibilidad: Richfieldmn.gov/subscribe.











Xcel Energy* PARTNERS IN ENERGY

solicitud: 612-870-4255

Si está inscrito en asistencia energética, puede solicitar un auditor de energía para determinar las mejoras del hogar que pueden reducir los costos de energía. También coordinarán contratistas con licencia para realizar esas mejoras por usted. Llame a Sustainable Resources Center, Inc. para hacer su

de climatización

Hennepin para hacer su solicitud: 952-930-3541 Selle su hogar con el Programa de asistencia

reparaciones de emergencia de hornos. Llame a Community Action Partnership del condado de

Solicite ayuda para cubrir sus facturas de electricidad y calefacción. Los inquilinos y propietarios de viviendas que cumplan con los requisitos de ingresos pueden ser elegibles para recibir asistencia con las facturas de energía y

Solicite el Programa de asistencia energética

su factura de energía. ¡Llame al **651-328-6220** para programar su visita hoy!

Home Energy Squad® puede arreglar estas cosas de manera rápida, eficiente, asequible y mucho más en una sola visita. Los técnicos expertos se ocupan de todas las pequeñas cosas por usted, lo que puede significar grandes ahorros en

incandescentes poco eficientes?

requisitos de ingresos! ¿Puertas que no sellan bien? ¿Termostato antiguo? ¿Bombillas

¡Visitas de asesoramiento sobre energía gratuitas para residentes que cumplan con los

Queremos brindarle cosas que le ahorrarán dinero. Realmente.

Las visitas de Home Energy Squad® son GRATUITAS si vive en un edificio de una a cuatro unidades y el tamaño de su hogar cumple con los límites de ingresos anuales enumerados. Límite Máximo Tamaño anual de tres del grupo meses familiar \$8,809 \$35,237 \$11,520 \$46,080 2 \$14,230 \$56,992 \$16,941 \$67,765 4 \$19,651 \$78,670 \$22,362 \$89,450 \$22,870 \$91,483 6 \$23,378 \$93,515

4

.

	¿Cómo usa la energía su hogar?*	
5%	Dispositivos electrónicos	Γ
10 /0	numinación	
15%	Sistemas de calentamiento de agua	
15%	Electrodomésticos	
55%	Calefacción y aire acondicionado	*División de Recursos Energéticos del Departamento de Comercio de Minnesota, Guía
Porcentaje de su factura de energía		de Energía para el Hogar, 2018

MULTI-FAMILY BUILDING OUTREACH



News for rental housing owners & managers ~ April 21, 2022

The Richfield Apartment Manager's Association (RAMA) is a collaborative effort between the City of Richfield and rental housing management and owners to create and maintain quality apartment communities. The RAMA Reporter is published quarterly to provide information and resources for furthering this mission





contact who will help you create a streamlined path to

Xcel Energy*

PARTNERS IN ENERGY

The City of Richfield is here to help. To learn more about increasing your building's energy efficiency, visit multifamilyenergysolutions.com

energy efficiency.

BUSINESS BLITZ









ello there,

<u>One-Stop Efficiency Shop</u>, sponsored by Xcel Energy, is teaming up with the of Richfield to perform FREE lighting assessments for businesses.

EET THE ONE-STOP TEAM

-Stop consultant will visit your business between October 25 and 29 to offer site assessment. You'll receive a customized savings plan including nended upgrades, estimated savings, rebates, and payback periods.

n't be available next week, you can request an assessment for a different

f Richfield is also offering grants to One-Stop participants covering up to **jects costs**, and bonus rebates are available for up to **60% of project rn more**.

goal to be an energy efficient city can help your business save energy Sign-up for your lighting assessment today and thank you for all you do for our community!" -Mayor Gonzalez

To learn more about the One-Stop program, <u>visit our website</u> or call us at **612-244-2427**. We look forward to meeting you next week.

Center for Energy and Environment's One-Stop Efficiency Shop® serves eligible commercial customers

Dear Richfield Busi	ness Owners and Managers,
The City of Richfiel savings to our busi	d has created an Energy Action Plan that aims to bring energy and dollar nesses and residents.
One of the easiest partnered with Cen experts are stoppin sign you up for a tir	ways to save is with a lighting upgrade. To help you get started, we've fer for Energy and Environment's One-Stop Efficiency Shop®. Their light ig by your business to either provide you with an assessment on the spot me that works for you.
Once you've comp city grants that cou the One-Stop prog	leted this free assessment, ask your One-Stop lighting consultant about o Id cover up to \$2,500 of your lighting project costs, in addition to the rebat ram provides.
lf you'd like to look top unit (RTU) ass	for savings beyond lighting, you can also sign up today to receive a free n essment and smart thermostats from the One-Shon to a to be to be
When our busines: for signing up for y	s community is able to thrive, our whole community is better for it The second
Learn more about RichfieldMN.gov	our Energy Action Plan and more resources for business
Thank you for all y	100 do for Di
Maria Ro	Gan Company
Thank you for all y Maria Ro	ou do for Richfield

EXCELENERGY* PARTNERS IN EN-

PARTNERS IN ENERGY An Xcel Energy Community Collaboration

Xcel Energy



Reduce your energy use and help the earth!



Can you complete actions in all the boxes for Earth Week? Don't just call it one and done—keep up the action for the whole year!

Wash laundry with cold water only.	Program your thermostat back by 5–10 degrees when you're sleeping or out of the house.	Turn up your refrigerator temperature to medium.	Unplug any unused electronics and chargers from the wall.
Turn off lights behind you	Replace lights in your home with LED bulbs_LED	Use lids on pots	Cut down on



GET PLUGGED IN DISCOVER HOW EASY IT IS TO CHARGE YOUR VEHICLE

EV CHARGING OPTIONS TO SUIT YOUR LIFESTYLE

When you become an EV driver, you may pay more attention to electric prices — and your energy usage — to get that extra savings over gasoline. Choose from Xcel Energy's growing charging and pricing plans to suit your lifestyle and charging needs. Visit ev.xcelenergy.com and click on Charging to learn how to simplify getting set up with an electric pricing plan that's best for you.

GETTING CHARGED UP

Level 1 Charger

Basic, slower home charging

· Included with every new plug-in EV

· Has a cord that plugs into a standard,

For charging at home, Level 1 and 2 chargers are common household options that offer various charging speeds to accommodate your charging needs. Level 3 fast charging stations are typically used for public charging, which are commonly available along freeway corridors and near retail or city center locations.



Level 2 Charger • Convenient, faster home charging • Needs a dedicated 240-volt circuit

(like an electric clothes dryer)



- Level 3 DC Fast Charger
- Fast charging on the road
- Used for public charging
- Typically requires 480-volt service



Night to Unite:

Let's Save Energy Together!

Find your energy bills to discover your monthly energy use and utility provider.

As a Richfield resident, your electric provider is Xcel Energy, and your natural gas provider is CenterPoint Energy.

Learn How to Increase Your Home's Energy Efficiency Year-Round with a Home Energy Squad® Visit.

All Richfield residents receive reduced cost vists through the City and **FREE** visits for income qualifying households.

Save Money and Energy with Rebates and Programs.

You can save on lighting, heating, and cooling costs when you purchase energy-efficient appliances or participate in conservation programs.

Find your utility's programs at xcelenergy.com/HomeRebates or CenterPointEnergy.com/SaveEnergy

Keep Saving



Manage your thermostat, but dialing back the temp 10 degrees when you are away. Unplug unused electronics. Do your laundry in cold water. Find more tips and resources at: **RichfieldMN.gov/Energy**



RICHERED AND XCEL ENERGY ARE PLEASED TO WORK TOGETHER TO ACHIEVE OUR COMMUNITY ENERGY GOALS.





WINDSOURCE® OUTREACH

MAKE A PINWHEEL TO CELEBRATE WIND ENERGY!

Make an informational pinwheel.

- You will need: scissors, a pushpin, and a wooden pencil
- Decorate the pinwheel template below.
- Cut out the pinwheel. Then cut along the diagonal, dashed lines.
- 3. Use the pushpin to poke holes in the center of the pinwheel and in the four corners.
- 4. Stick the pushpin through each of the corner holes, through the center hole, then into the pencil eraser.
- 5. Take a picture with your pinwheel and post it on the City's Facebook page







PARTNERS IN ENERGY



September 24, from 8am to 12pm, Richfield's farmer's market will be powered by Xcel Energy's Windsource[®]!

Using Minnesota's local wind energy, we will fuel the weekly coming together of residents for fresh produce, family activities, music and community.

Stop by the City's booth to get a **FREE** Home Energy Squad® visit for your home and learn more about Richfield resident's energy saving, and renewable energy options.

Veterans Memorial Park, 6335 Portland Ave.



Xcel Energy*

PARTNERS IN ENERGY An Xcel Energy Community Collaboration

C

GG



"Being part of Windsource is really easy, and we feel good about the small but meaningfu impact that it

> -Logan Thein Richfield Sustainability Commissio



"Windsource is a way to use my money to start telling energy companies that I want nothing to do with their fossil fuel plants anymore."

> - Ben Whalen Richfield City Council Ward 3







UTILITY BILL INSERTS

The Home Energy Squad[®] can help seal up your energy losses. Get a discounted visit today!

An in-person visit from the

- Home Energy Squad includes: • installation of energy-saving materials such as LED lightbulbs, door and attic hatch weather stripping, programmable or smart thermostat, and energy efficient water fixtures
- blower door test to measure your home for air leaks
- insulation inspection of your attic and walls using an infrared camera
- support from energy experts to determine next steps

Contact Home Energy Squad at 651-328-6220 or sign-up online at xcelenergy.com/HomeEnergySquad.



The City of Richfield is offering a 50% discount!

The cost for a visit is \$50 (normally \$100) and visits are free for incomequalified residents. Ask about qualifications when scheduling your visit.



🕖 Xcel Energy" 😑 CenterPo Energy

Home Energy Squad is provided by CenterPoint Energy and Xcel Energy.

Support Renewable Energy

Richfield renters and homeowners can take advantage of Minnesota's wind power by subscribing to Xcel Energy's low-cost Windsource®. With no equipment needed, residents can receive their electricity from renewable sources and lower their carbon footprint.

What is Windsource?

Windsource is a voluntary subscription program from Xcel Energy enabling you to easily source your electricity from wind.

Who is eligible?

Customers of Xcel Energy can sign up for Windsource.

How much does it cost?

Subscribe for blocks of 100 kWh that equate to about \$1 a month—enough to power all the lights in your home – or sign up for 100% of your home's electricity for just a few more dollars depending on your home's electricity use.

Learn more at xcelenergy.com/windsource.



Richfield and Xcel Energy are pleased to work together to achieve our community energy goals.

Xcel Energy*

PARTNERS IN ENERGY

FREE^{*} Energy Resources

Are your energy bills difficult to manage? Looking for assistance on your energy bills?

The Energy Assistance Program helps income-qualified households maintain affordable and continuous home energy. Services include bill payment assistance and energy crisis intervention. You'll also receive a referral to the weatherization assistance program. Both renters and homeowners are eligible.

Call the Community Action Partnership of Hennepin County at **952-930-3541** or visit **caphennepin.org/what-we-do** to learn more.

Households must meet income qualifications set by program to be eligible. Contact service provider to see if you qualify.



Richfield and Xcel Energy are pleased to work together to achieve our community energy goals.







UPCOMING



FORM A GREEN TEAM

Green teams are a great way to promote stewardship in your worship facility and v community. The City of Richfield can help provide resources along the way.



SIGN UP FOR A FREE ASSESSM

EnerChange offers a free walk-through a nonprofits that includes a total building r recommendations for energy-saving imp worship facility. EnerChange also helps ic options. Call **952-562-8697** or visit **ener**

USE REBATES TO SAVE ON UP-I

Utilities offer a variety of rebates to help upgrade easier. From LED lighting to hea foodservice equipment, it's cost-effective facility more energy efficient. Visit **xceler** and **CenterPointEnergy.com/SaveEnerg**



POWER WITH RENEWABLES

It's easy to power your facility with renew



Consider purchasing an electric vehicle



Faith, Fellowship, and Stewardship Reducing our Impacts Together

Xcel Energy is pleased to work with your community to achieve its energy goals.





An Xcel Energy Community Collaboration





SAVE THE DATE! Richfield Eco Fair *Exhibitors, activities, resources, and more!*

Saturday, April 15, 2023 10 AM - 3 PM @ Richfield High School

UPCOMING



Energy Action Plan Impact

Period: July 1, 2021 to December 31, 2022

Cumulative kWh Savings



Cumulative DSM Participation



Cumulative GHG Emissions Avoided (MTCO2e)



ENERGY ACTION PLAN IMPACT

Top Energy Efficiency Programs - C&I & Municipal Participation



COMMERCIAL AND INDUSTRIAL PARTICIPATION

Top Energy Efficiency Programs - Residential Participation



RESIDENTIAL PARTICIPATION

Renewable Program Participation

2021	2022		2019	2020	2021	2022
1 48	3 47	Commercial & Industrial	4	6	6	8
232 31	216 35	Municipal	2	2	2	2
903	889	Residential	1,083	1,119	1,207	1,181

Total Renewable Program Participation

	2019	2020	2021	2022
Non-Solar*Rewards Net Metering Participation	0	1	1	3
Renewable*Connect Participation	47	50	48	47
Solar*Rewards Community Participation	182	208	232	216
Solar*Rewards Participation	10	18	31	35
Windsource Participation	850	850	903	889

RENEWABLE PROGRAM PARTICIPATION

Implementation Progress

Reach 1,325 homeowners and renters by 2026



Save residents, organizations and businesses \$2.5 million through energy efficiency by 2026



PROGRESS TOWARD GOALS



ELECTRIC VEHICLE PLANNING AND/OR IMPLEMENTATION OF STRATEGIES

CONTINUED IMPLEMENTATION SUPPORT OF PLAN – BUSINESS AS USUAL

CONTINUED IMPLEMENTATION OF SPECIFIC STRATEGIES – LESSER TIME COMMITMENT

OPEN TO SUPPORT OF OTHER ENERGY EFFORTS





QUESTIONS OR IDEAS?







(2022 data covers January - June 2022)

Richfield strives to:	Baseline
-Increase participation in renewable energy programs among residents, organizations, and businesses by 2026 -Prioritize work that reduces residences experiencing energy burden and increases connections to resources by reaching 1,325 homeowners and renters by 2026	2019

-Reduce community-wide greenhouse gas emissions from electricity and natural gas by 15 percent (below a 2019 baseline) by 2032 through all of the focus area goals

-Save residents, organizations and businesses \$2.5 million through energy efficiency projects by 2026





Energy Action Plan Impact





Cumulative GHG Emissions Avoided (MTCO2e)



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

Colored Bar: Progress Black Line: Goal

Annual Program Trends							
	2019	2020	2021	2022			
DSM kWh Savings	2,367,996	3,177,873	3,054,043	1,104,525			
DSM Participation Count	832	926	1,126	307			
Total Renewable Energy Participation	1,089	1,127	1,215	1,190			
Total Renewable Energy kWh	4,724,619	5,372,085	5,955,744	2,659,745			
Total DSM & RE GHG Savings	1,741	1,638	1,746	672			

Annual % Change	;		
	2020	2021	2022
% Change in Premise Count	0%	0%	0%
% Change in kWh Usage	-3%	3%	-53%

Data through 06/30/2022

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

50

1

256

5

(2022 data covers January - June 2022)



Top Energy Efficiency Programs - Residential Participation







2020 2021 2022

Energy Efficiency Program Participation						
	2019	2020	2021			
Commercial & Industrial	78	96	77			
Municipal	2	1	5			
Residential	752	829	1,044			

Renewable Program Participation

Implementation Metrics

	2019	2020	2021	2022
Commercial & Industrial	4	6	6	8
Municipal	2	2	2	2
Residential	1,083	1,119	1,207	1,181

Total Renewable Program kWh

	2019	2020	2021	2022
Commercial & Industrial	787,934	974,853	1,047,303	479,920
Municipal	0	0	0	0
Residential	3,936,684	4,335,266	4,908,442	2,179,826

Total Renewable Program Participation

	2019	2020	2021	2022
Non-Solar*Rewards Net Metering Participation	0	1	1	3
Renewable*Connect Participation	47	50	48	47
Solar*Rewards Community Participation	182	208	232	216
Solar*Rewards Participation	10	18	31	35
Windsource Participation	850	850	903	889

Windsource program 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

Windsource Participation





(2022 data covers January - June 2022)

Energy Efficiency Program Participation					Implementation Progress						Implementation Highlights					
		2019	2020	2021	2022	Reach 1,325 homeowners and renters by 2026						- Created a community "Energy Topic of				
Commercial & Industrial	Custom Efficiency		1			-						assess interest in event topics.				
	Electric Rate Savings	5	3	4								- Reached out to multi-family building				
	Energy Design Assistance		2									owners to ask them to participate in the				
	Energy Efficient Buildings		4	4								- Used social media and newsletter to				
	Foodservice Equipment	1	1	1		965				reach residents about various						
	HVAC +R Efficiency	10	14	5	9							- Distributed LED kits and renter resource				
	Lighting Efficiency	37	32	27	9							materials at City Hall.				
	Multi-Family Building Efficiency	2	14	6	19							 Participated in the Home Energy Squad Inner City Challenge Followed up with businesses from the business blitz with smart thermostat 				
	Recommissioning	3														
	Saver's Switch for Business	2	1	1	1	0 200	400 60	0 800	1,000	1,200	1,400					
	Small Business Lighting	17	20	23	12	Save residents, orga	inizations and busir	nesses \$2.5 millio	on through ener	gy efficiency	y by 2026	outreach.				
	Smart Thermostats for Business		4	6						_		community interest.				
	Turn Key Services	1									- Hosted an Energy Webinar focused on all things energy including efficiency and renewable energy.					
Municipal	Electric Rate Savings			1												
	Fluid System Optimization			2								- Began planning a Windsoure campaign.				
	HVAC +R Efficiency	2	1			\$219,624										
	Lighting Efficiency			2	1											
Residential	Efficient New Home Construction	6	4	1												
	Home Energy Audit	10		20	3											
	Home Energy Savings Program	28	31	43	50											
	Home Energy Squad	49	34	33	29	0 500,000	0 1,000,000	1,500,000	2,000,000	2,500,0	00					
	Insulation Rebate		4	7	1											
	Low-Income Home Energy Squad	10	5	5	9											
	Refrigerator Recycling	67	72	58	23											
	Residential Heating and Cooling	448	448	450	51											
	Residential Saver's Switch	102	219	260								Xcel Energy*				
	Smart Thermostat	32	12	167	84											
	Xcel Energy filed a new DSM plan in 2 in some programs being reorganized a	021 res and ren	sulting amed.									PAR I NEKS IN ENERGY An Xcel Energy Community Collaboration				

Colored Bar: Progress Black Line: Goal



ENERGY DATA GLOSSARY

Check out the Energy Terms 101 digital resource to learn more. https://xcelenergycommunities.com/document/energy-terms-101-0

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 debtor.

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 (MTCO2e): A unit of measure for greenhouse gas emissions. The unit "CO2e" 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.

Renewable Energy Programs

Windsource: An Xcel Energy subscription program enabling customers to source their electricity from wind for an additional monthly cost.

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.

Renewable*Connect: An Xcel Energy subscription program enabling customers to source their electricity from solar and wind for an additional monthly cost.

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.

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.





Organized Collection One Year Reflection

The Launch 10/4/21

• Worked to correct issues from the beginning



 Most things were worked out within the first month



Current Daily Program Tasks

- Emails/calls
 - Starting service, moving out, missed pick-ups walk-ups, exemption, yard waste, etc.
- Hauler relationships
 - -7 Republic contacts, 4 WM, 2 Aspen
- Long-term efforts
 - Sorts, guides, education, underlying improvements



Organics Audit

Contamination:

- Aspen: ~6.15 pounds (1.39%)
- Republic: ~28.4 pounds (4.18%)
- WM: ~10.9 pounds (2.48%)

Edible food:

- Aspen: ~25.9 pounds
- Republic: ~70.25 pounds
- WM: ~27.85 pounds



Contamination

- Non-BPI certified containers
- Take-out boxes (Chipotle trays)
- Recycling (plastic bottles, containers)
- Dunkin Donut boxes
- Tissue paper
- Paper plates
- Bakery wax paper
- Molded fiber products
- Food in plastic bags
- BPI bags with regular trash





Assessments

- \$129,455.76 outstanding as of 8/1/22
- \$80,384.97 outstanding as of 11/15/22
 - 250 accounts fully paid, several others have partially
- Education w/ sellers/buyers, title companies, haulers, residents, city staff
- Sent to the County on 11/18 for assessment





•

Recycling Composition Study

- One sample from each service day (2 Republic, 2 WM, 2 Aspen)
 - Common contaminants: plastic bags and film, bagged recycling







Overall lessons learned

- Current owner/resident names and addresses
- Coordinating 3 haulers
- Pivoting and dealing with many one-off situations or unexpected processes
- Structural changes (misses)
- Cities asking us for feedback/advice



Resident concerns/feedback

- Missed pick-ups
- Pricing
- Service options
- Like having city staff available
- No or fewer issues
- Like organics





Any questions?

