

**INVER GROVE HEIGHTS
ENVIRONMENTAL ADVISORY COMMISSION MEETING AGENDA
Thursday October 24, 2019
8150 Barbara Avenue
7:00 P.M.**

1. CALL TO ORDER

2. ROLL CALL

3. PRESENTATIONS – Items that do not require action.

- A. Brad Juffer, MAC (Metropolitan Airports Commission) - MSP Airport Update
- B. CEE (Center for Energy and the Environment) and Xcel Energy - Partners in Energy Program

4. ANNOUNCEMENTS

- A. Updated agenda format
- B. Next meeting - November 21, 2019 (third Wednesday due to holiday) Regular Meeting 7:00pm

5. CONSENT AGENDA – All items on the consent agenda are considered routine and have been made available to the City Council at least two days prior to the meeting; the items will be enacted in one motion. There will be no separate discussion of these items unless a Councilmember or citizen so requests, in which event the item will be removed from this agenda and considered in normal sequence.

- A. Minutes of June 27, 2019 Environmental Commission Meeting Minutes

6. PUBLIC COMMENT – Public comment provides an opportunity for the public to address the Council on items that are not on the Agenda. Comments will be limited to three (3) minutes per person.

7. REGULAR AGENDA – Items requiring an action.

8. ADMINISTRATIVE PRESENTATIONS – Items that need to be discussed without any actions.

9. COMMISSION COMMENTS – An opportunity for Commissions to raise additional questions or comments.

10. ADJOURN

**INVER GROVE HEIGHTS
ENVIRONMENTAL ADVISORY COMMISSION MEETING MINUTES
Thursday, June 27, 2019
8150 Barbara Avenue
7:00 P.M.**

1. CALL TO ORDER

The Environmental Advisory Commission of Inver Grove Heights met in regular session on June 27, 2019, in the City Council Chambers. Chair Trenzeluk called the meeting to order at 7:00 p.m.

2. ROLL CALL

Present: Chair Ted Trenzeluk. Commissioners: Aditya Jayam, Patricia Todd, Robert Heidenreich, Sarah Brass, Nichole Boehmke, Ken Johnson, and Lauren DiGidio. Environmental Specialist Ally Hillstrom.

Absent: NA

3. PRESENTATIONS

4. ANNOUNCEMENTS

A. April 2019 – Metro Environmental Commission Conference Update

Chair Trenzeluk provided the Commission an update on the April 2019 Metro Environmental Commission Conference. He attended the water and sustainable lawn sub-group but noted there were many choices of small group topics to join and recommended other Commissioners attend next year's event. Chair Trenzeluk stated he is interested in the city's street redevelopment rain garden program and recommended that the Commission continue to discuss the ways the Commission can help the city expand and market the program. He also noted that other cities in the metro area have implemented programs on pollinator-friendly gardens and student commissioners which the Commission may also want to consider.

5. CONSENT AGENDA

A. Minutes of April 11, 2019 Environmental Commission Meeting Minutes

Motion by Commissioner Boehmke, seconded by Commissioner Jayam to approve the minutes from April 11, 2019 as submitted.

Ayes: 8

Nays: 0 Motion carried.

6. PUBLIC COMMENT

7. ADMINISTRATIVE PRESENTATIONS

A. Review Environmental Advisory Commission Composition and Duties

Ms. Hillstrom reviewed the City Code 2-1: General Provisions and City Code 2-4: Environmental Advisory Commission to restate the duties and provisions of the Environmental Commission.

B. Minnesota GreenStep Cities Progress Report & Review of Next Steps

Ms. Hillstrom reviewed the background, description and the city's status in the GreenStep Cities program. As of June 2019, the City of Inver Grove Heights was recognized at the League of Minnesota Cities Annual Conference for reaching Step 3 of the program. Now the city will work to reach Step 4 by May 2019, which requires the city to collect data on 11 required metrics.

Chair Trenzeluk asked who will be working on this data collection going forward and Ms. Hillstrom responded she will be collaborating with other departments to collect and consolidate the data.

Commission Jayam asked about more information regarding the Xcel Energy fleet study report and if the report recommended the city replace any existing vehicles with an electric vehicle. Ms. Hillstrom responded that Xcel Energy's fleet assessment reported 14 vehicles could be replaced with an electric vehicle based on the data collected, however additional factors such as financial resources, vehicle size and replacement schedule need to be discussed internally prior to making any decisions.

Commissioner Brass asked when Step 4 would be reached. Ms. Hillstrom responded that the city would need to complete data collection by May 2020 move to Step 4 in 2020.

Commissioner Teiken asked how often the data would be updated. Ms. Hillstrom responded that annually the city would expect to update at least the 11 required metrics.

Commission Mills asked if we need to wait a full year to achieve Step 4 if the May 2020 deadline is not met. Ms. Hillstrom responded in the affirmative.

Commissioner Heidenreich asked if this data is already collected by other agencies such as the census. Ms. Hillstrom responded in the affirmative and noted in some cases, the city will reach out to other agencies for the data instead of the city collecting it firsthand.

Commission Jayam asked if we expect to achieve Step 4 and if other cities have met Step 4. Ms. Hillstrom responded in the affirmative.

8. REGULAR AGENDA

A. Recommend Approval or Denial for Sustainable Purchasing Policy

Ms. Hillstrom presented the draft Sustainable Purchasing Policy that had been updated based on comments provided by the Environmental Commission in February 2019.

Commissioner Trenzeluk recommended the Commission decide to recommend or deny the policy at this meeting.

Ms. Hillstrom noted the city's Finance Director recommended the city complete this GreenStep Cities best practice by creating a formal policy instead of administrative guidelines to provide more structure to purchasing and a formal way to make updates. The Finance Director reviewed and approved of the policy as written.

Commissioner Boehmke noted that the policy is written to require reporting on purchases which may assist the city in meeting Step 4 and 5 of the GreenStep program. Ms. Hillstrom responded in the affirmative and noted reporting is a main goal of this policy so the city can evaluate its effectiveness and continue to make improvements as needed.

Motion by Commissioner Heidenreich, seconded by Commissioner Jayam to recommend approval of the Sustainable Purchasing Policy as submitted. Motion to approve carried unanimously.

B. Election for Chair and Deputy Chair of the Environmental Commission

Commissioner Trenzulek requested nominations for Chair.

Motion by Commissioner Heidenreich, seconded by Commissioner Boehmke to recommend Chair Trenzulek to remain as Chair of the Environmental Commission. Motion to approve carried unanimously.

Commissioner Trenzulek requested nominations for Deputy Chair.

Motion by Commissioner Boehmke, seconded by Commissioner Jayam to recommend Commissioner Brass as Deputy Chair of the Environmental Commission. Motion to approve carried unanimously.

9. COMMISSION COMMENTS

Commissioner Teiken asked Ms. Hillstrom what other environmental projects not discussed today are on-going. Ms. Hillstrom responded that the city has added organics collection at City Hall and will continue to organics collection at event and other administrative municipal buildings as funding allows.

Commissioner Trenzulek reminded the Commission that Commissioners are welcome to suggest an environmental topic of interest for the Commission to consider by adding it to an agenda for discussion. He recommended that Ms. Hillstrom add student commissioners and rain gardens marketing to future Commissioner agendas as time allows.

Commissioner Boehmke stated she is interested in the Environmental Commission discussing creating an organics drop site in the city, which was brought up by the Inver Grove Heights' resident, Christina Rademacher, at the May 2019 Environmental Commission meeting.

Commissioner Jayme and Commissioner Mills requested the Environmental Commission receive an update on the Minneapolis/St. Paul Airport activity and regulation.

Commissioner Jayme suggested inviting high school students to present to the Commission on environmental topics of interest. Commissioner Trenzeluk suggested waiting to combine this concept with the student commissioner initiative.

10. ADJOURN

The Commission meeting adjourned at 7:56 pm. Motion approved unanimously.

DRAFT

CITY OF INVER GROVE HEIGHTS

INFORMATIONAL PRESENTATION

MSP Airport Update

Meeting Date: October 24, 2019
Item Type: Presentation
Contact: Ally Sutherland, Environmental Specialist
Prepared by: Ally Sutherland, Environmental Specialist
Reviewed by: N/A

PURPOSE/ACTION REQUESTED

No action is required. Item is for informational purposes and Commissioners are encouraged to ask questions.

SUMMARY

Brad Juffer with Metropolitan Airports Commission (MAC) will provide an update on MSP Airport activity. The following attachments include background information on MAC, current MSP Noise Abatement Efforts and the MAC Noise Oversight Committee (NOC). More information on MAC and NOC can be found at www.macnoise.com.



Working together with Minnesota communities, aircraft operators and the FAA to reduce the impact of aircraft noise.

MSP Noise Abatement Efforts

The Metropolitan Airports Commission has a long history of working with community stakeholders, airport users, the Federal Aviation Administration (FAA) and other government entities to address aircraft noise issues. These efforts date back to before 1970; in the 1990s the MAC's efforts included its extensive residential noise mitigation program and collaborative development and implementation of noise abatement procedures for arrivals and departures at Minneapolis-St. Paul International Airport (MSP).

Recently, use of NextGen flight tracking data and upgraded noise monitoring devices have enhanced the MAC's responsiveness and data-sharing. Better data access facilitates proactive community and pilot outreach, aircraft noise abatement efforts for each of the MAC reliever airports, publicly-accessible interactive reports and use of the FlightTracker tool through the internet.

The MAC's ongoing commitment to minimizing aircraft noise impacts at MSP involves dedicated Noise Program Office staff that are responsive to concerns expressed by community members. Charged with collecting and analyzing flight track and aircraft noise data, the Noise Program Office also explores and facilitates the use of available technologies to increase efficiency of aircraft operating procedures and data analysis. To this end, the MAC supports community involvement and serves in a technical-advisory role to the MSP Noise Oversight Committee.

Following is a summary of noise abatement efforts related to MSP:

MSP Noise Oversight Committee (NOC)

The MAC established the [MSP Noise Oversight Committee](#) (NOC) to provide a balanced forum for interested parties to consider noise mitigation initiatives in the context of benefit, feasibility and fiscal considerations. The NOC held its first meeting in June 2003.

Eagan-Mendota Heights Departure Corridor

This departure corridor was developed in an effort to direct aircraft, as much as possible, over noise-compatible land use areas in Eagan and Mendota Heights, southeast of MSP. The corridor has proven to be an effective way to utilize existing compatible land uses surrounding the airport. In addition, the corridor provides flexible ways to operationally utilize airspace over such areas. When conditions allow, Air Traffic Control (ATC) will direct as many departing jet aircraft as possible to use Runways 12L and 12R so that they

will overfly the corridor and stay within the corridor boundaries. ATC will assign specific headings depending on which runway an aircraft is departing from: headings for jet aircraft are inclusive of 090 degrees, 105 degrees and 120 degrees. A wind-corrected heading may also be assigned. On average, monthly corridor compliance is around 95%.

Runway Use System

A Runway Use System (RUS) is utilized at MSP to prioritize the order in which runways are assigned for arrivals and departures during times of the day when safety and air traffic demand allow some flexibility. Click [here](#) to learn more about the MSP RUS: [Runway Use System Overview](#).

Noise Abatement Departure Profiles

Noise Abatement Departure Profiles (NADP) are designed to reduce aircraft noise exposure for residents living close into an airport (within 3.5 miles = close-in procedure) or further out (beyond 3.5 miles = distant procedure) from an airport. All airlines operating at MSP have agreed to comply with the Distant Noise Abatement Departure Profile for departures from all runways.

Straight-out Departures from MSP Runways 30L and 30R

Air Traffic Controllers at MSP avoid sending aircraft departing from MSP Runways 30L and 30R straight-out over Minneapolis and areas northwest of MSP when operating conditions permit. This means that departures from MSP Runways 30L and 30R are assigned headings other than runway heading when feasible because residents living under the flight paths northwest of MSP (straight-out from MSP Runways 30L and 30R) experience all of the overflights from arrival operations on Runways 12L and 12R.

Voluntary Nighttime Agreements

The air carriers operating at MSP have agreed to limit the use of modified Stage 3 aircraft for scheduled operations during the nighttime hours of 10:30 p.m. to 6:00 a.m. when possible.

Noise and Operations Monitoring System

The Metropolitan Airports Commission Noise and Operations Monitoring System ([MACNOMS](#)) is one of the largest and most elaborate flight track and aircraft noise monitoring systems in the country. This system collects noise data from 39 Remote Monitoring Towers located around MSP and collects flight track data through a multi-sensor surveillance data feed available for the U.S. National Airspace System. The data collected include noise levels, aircraft types, flight tracks and flight information. Public access to these data is available through the [Tools & Reports](#) page.

MSP Noise E-News

For years, the MAC Noise Program Office published and distributed printed newsletters. In 2015, Noise E-news began being published and distributed electronically. Anyone can receive Noise E-news, just click [here](#) to subscribe: [Stay Informed](#).

macnoise.com Website

This website facilitates dissemination of information pertaining to aircraft noise and operations, and includes:

- Query options for aircraft operations data and aircraft noise levels
- Mapping tools to help determine eligibility for the Residential Noise Mitigation Program
- Access to monthly operations and noise reports
- Display of arrival or departure flight tracks
- Meeting dates for the MSP Noise Oversight Committee and other MAC scheduled meetings
- Option for registering a noise complaint on-line

Nighttime Power-backs

All airlines at MSP have agreed to eliminate power-back from the gates during the nighttime hours. All nighttime flights will be pushed back from the gates with aircraft tugs.

Engine Run-up Field Rule

All airlines operating at MSP are required to conduct maintenance run-ups at a designated run-up pad and to comply with the MSP Run-up [Field Rule](#).

Training Restriction

The major air carriers operating at MSP have agreed not to conduct training operations (e.g., touch-and-go operations) at MSP.

Runway 17 2.5 Nautical Mile Turnpoint Departure Procedure and River Departure Procedure and River Departure Heading

This procedure was implemented concurrently with the opening of Runway 17/35 in October 2005. On August 27, 2003 the Federal Aviation Administration issued a Finding of No Significant Impact (FONSI)/Record of Decision (ROD) approving an Environmental Assessment prepared by the MAC for the implementation of the procedure. Monthly procedure compliance is around 99%.

Runway 17 215-Degree Departure Heading

This procedure was designed for westbound departures off Runway 17 during southeast operational flows at MSP. It was implemented in April 2007 and dramatically reduces the instances of aircraft overflight impacts south of the Minnesota River Valley in the City of Burnsville.

Pilot Education Program and Noise Abatement Sensitivity Training

The MAC works with the aircraft operators that utilize MSP and with the Air Traffic Controllers to encourage awareness of noise issues and to help increase compliance with current noise abatement procedures. In 2010, an [MSP Pilot Guide](#) was published on the Noise Program Office website and distributed to airlines operating at MSP.

West Cargo Ramp Hushkitted Aircraft Engine Start Procedure

This program was implemented in July 2007 on the cargo ramp located west of Runway 17/35. The procedure outlines specific aircraft tugging operations and aircraft positioning on the ramp area prior to aircraft engine starts, which significantly reduces aircraft noise impacts for hundreds of residents in the City of Richfield adjacent to Runway 17/35.



MSP Noise Oversight Committee (NOC) Meetings

The MSP Noise Oversight Committee (NOC) was established in August 2002 as an advisory board appointed to address aircraft noise issues associated with MSP. The NOC is made up of community representatives and aviation industry representatives that provide policy recommendations to the Metropolitan Airports Commission.

Members of the public are welcome to attend NOC meetings, which normally are held at 1:30 p.m. on the third Wednesday of odd-numbered months (i.e.: January, March, May, etc.) unless otherwise noted. Check our [calendar](#) for meeting locations and details. During each meeting, 20 minutes are dedicated for public comment. Individuals choosing to speak during the public comment period may do so by submitting a speaker card prior to the meeting start time or by contacting their NOC representative prior to the meeting date. Each speaker will have one opportunity to speak and is allotted three (3) minutes. More information about the meeting decorum is provided at the bottom of this page.

Rules of Decorum for MSP Noise Oversight Committee Meetings

Speaking at a Meeting

If you wish to make a public comment during a NOC meeting, you must complete and submit a speaker card. Speaker cards are available at the sign-in table before each meeting or you may contact your NOC representative prior to the meeting day.

Submit completed speaker cards to the NOC Secretary or to any NOC member before the meeting begins.

Each speaker will have one opportunity to speak and is allotted three (3) minutes. The public comment period is limited to 20 minutes. When called upon to speak, speak clearly into the microphone, state your name and address. If you are affiliated with any organization, please state your affiliation.

Commenters shall address their comments to the NOC and not to the audience. Use of profanity, personal attacks, or threats of violence will not be tolerated.

Meeting Etiquette

Turn off your cell phone during NOC meetings so as not to interfere with audio recording equipment. Interruptions from the audience, such as speaking out of turn, shouting, and other disruptive behavior are not permitted.

Accessibility

If you need special assistance to make a public comment, please contact the NOC Secretary at least two days prior to the meeting by calling 612-726-8100 to be directed or emailing nocsecretary@mspmac.org (link sends e-mail).

[\(https://www.macnoise.com/\)](https://www.macnoise.com/)

CITY OF INVER GROVE HEIGHTS

INFORMATIONAL PRESENTATION

Partners in Energy Program

Meeting Date: October 24, 2019
Item Type: Presentation
Contact: Ally Sutherland, Environmental Specialist
Prepared by: Ally Sutherland, Environmental Specialist
Reviewed by: N/A

PURPOSE/ACTION REQUESTED

No action is required. Item is for informational purposes and Commissioners are encouraged to ask questions. The Commission may consider making a recommendation to the City Council regarding the program.

SUMMARY

The Center for Energy and the Environment and Xcel Energy will present the Partners in Energy Program to the Commission. The following attachments include background information Partners in Energy program and Executive Summaries of Energy Action Plans developed by other Minnesota cities who completed the Partners in Energy Program. More information can be found at www.xcelenergycommunities.com.

Your plan. Your goals. Powered by Partners in Energy.

Each community we serve has its own unique priorities and vision for energy. Energy is a dynamic topic, and it's changing rapidly with new ways to save, the growth of renewables, electric vehicles and changing regulations. With these competing priorities and stretched resources, creating and maintaining an energy-conscious culture within your community can be a missed opportunity in meeting energy and sustainability goals.

Partners in Energy is here to help.

We understand how important your community energy initiatives are. That's why we offer Partners in Energy as a collaborative solution to reach your goals. We can jump-start your energy planning, help your team develop goals that match your priorities and provide support putting plans into action.

Support where you need it

Partners in Energy includes free services to empower communities. We match our support to fit your needs — whether it is to develop a comprehensive energy action plan or a plan to support a goal or vision already in place. Our energy planning resources will drive informed decisions on behalf of your community and incorporate input from everyone involved — residents, local businesses, staff and stakeholders. Once your plan is in place, we provide resources to help make it come to life. These resources can include marketing, project management, and tracking and reporting progress.

Your commitment can either be a two-year initiative or a shorter, accelerated timeline for a more laser-focused approach. Our solutions are scalable to fit the unique possibilities within your community. Regardless of where you start, you will have access to our energy advisory staff to take your planning to the next level.



Partners in Energy deliverables

1	Facilitation of interactive planning workshops.
2	Energy usage and program participation data reports to inform plan development and implementation tracking.
3	Development of energy action plan documents.
4	Outreach support and development of marketing materials to help implement your plan.
5	Energy expertise and guidance throughout the process.

Additional resources to boost results

In addition to our team, tools and resources, we provide opportunities for you to interact and network with other communities participating in Partners in Energy.

Community Summits 	Office Hours 	Online Portal 
Your team can attend in-person events with like-minded communities to share best practices. We provide educational opportunities that feature experts on current energy topics or opportunities to learn from each other.	Office Hours is a monthly webinar packed with useful information. Experts present on trending topics — ranging from energy efficiency, renewables or outreach — in an environment that offers an opportunity to ask questions and share experiences.	Our portal is designed to provide storage and access to documents related to your community's work. It connects you to a variety of community program materials, a collateral library, toolkits for outreach and education, as well as collaboration forums.

Commonly Asked Questions about Partners in Energy

Q. How can Partners in Energy benefit our community?

A. Partners in Energy provides your community with supplemental resources to drive energy planning and implementation. Your community can reach a common vision for your energy future, which can serve as a north star in making energy related decisions. Or, it may provide a path forward to meet environmental commitments. Your community is positioned as an environmental leader — and your businesses and residents are provided the tools to help them reduce greenhouse gas emissions and save energy and money. Recognition as a participating community and the resulting impacts can position your community as a desirable location for new businesses and motivate local businesses and residents to save energy and money and meet environmental commitments.

Q. What resources will the community need to provide?

- A.** Partners in Energy is designed to support your community in an initiative you ultimately own. Your community is responsible for providing:
- A single point of contact to support planning, lead implementation and recruit other community participants.
 - Meeting space for any workshops for community-based work to develop an energy action plan.
 - A timely review of documents developed through this process.
 - Any historical documents related to energy planning that are relevant to our current work.
 - Good faith evaluation of any recommendations that result from the collaboration.
 - A commitment to keeping our work moving forward in a timely fashion.

Q. What will Partners in Energy cost our community?

A. The services Xcel Energy provides are free for participating communities within our service territories in Colorado and Minnesota. Your community may identify implementation projects and outreach activities that may require budget dollars. If you are in a community served by Xcel Energy outside those states and interested in energy planning, please contact us to discuss options.



Ready to participate?

We accept applications biannually. Download an application to find out timing by visiting xcelenergy.com/PartnersInEnergy or contact us for questions at PartnersinEnergy@xcelenergy.com or 800.369.4362.

Minnesota Community Examples: Executive Summaries of Energy Action Plans

Partners in Energy, Xcel Energy

*View all Energy Action Plans and Executive Summaries at
www.xcelenergycommunities.com/info*

Hastings Energy Action Plan

Proud Past. Exciting Future.



Introduction

Hastings, known for its historic downtown, riverfront green space, and small town charm, has created a vision for its community to ensure all residents and businesses take advantage of opportunities to increase energy efficiency to save money and improve their quality of life. In the near term, this plan will increase the comfort and health of Hastings homes and businesses. Longer term, these actions will make Hastings more desirable for future residents, workers, and businesses.

Vision

Through increased education and engagement, Hastings residents and businesses will adopt energy-saving behaviors and increase their home or facility's energy efficiency to enhance their quality of life and save energy and money.

About this Plan

Residents, business leaders, City of Hastings staff, and utility representatives — leaders from all over our city — have worked together to create this Energy Action Plan with the help of Xcel Energy's Partners in Energy offering.

Partners in Energy supports communities like Hastings in developing and implementing their energy goals. Because the community worked together, the plan is unique to Hastings, and it charts the course toward an exciting energy future for our city.

Focus Areas

Three focus areas will help us accomplish our goals, and each one has exciting programs to bring our vision to life:

A. Residential Energy Efficiency

We'll encourage Hastings homeowners to:

- Complete a home energy audit
- Properly insulate and air seal their homes
- Recycle inefficient refrigerators and freezers
- Install high efficiency lighting

B. Business Energy Efficiency

We'll bring the advantages of energy efficiency to Hastings businesses with:

- "Business Blitz" visits to share great ideas
- Financing options to help with the upfront costs of energy improvements
- Help applying for equipment rebates

C. Electric Vehicles

We'll make it easy for residents and business owners to:

- Learn about rates and incentives to charge your electric vehicle
- Attend an electric vehicle showcase
- Attend a fleet electrification workshop



PARTNERS IN ENERGY
An Xcel Energy Community Collaboration



Smart Ideas, Great Results

▶ How do we use Energy?

▶ Current energy use in Hastings

In 2017, our community

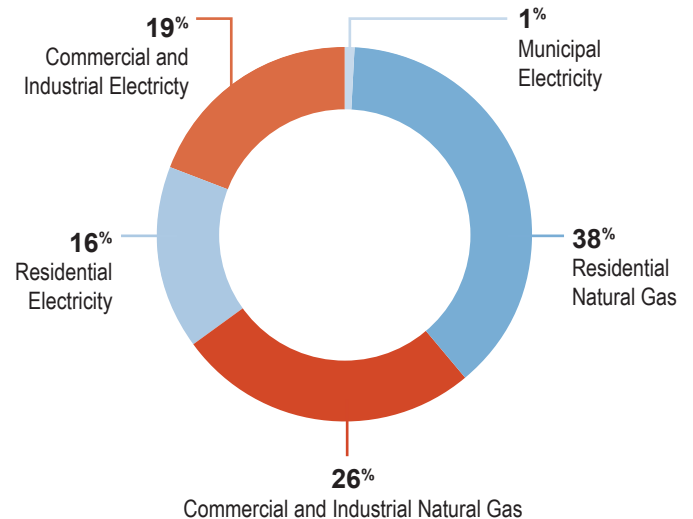


consumed
1.5 MMBtu
of energy



spending a combined
\$14.5 million in
all sectors

▶ Hastings total energy consumption



▶ By reaching this plan's near-term targets in 2019 and 2020, we will achieve:

19%

increase in combined
gas and electricity
savings

\$1.5m

combined residential
and business savings



PARTNERS IN ENERGY
An Xcel Energy Community Collaboration



Northfield Energy Subcommittee Report



Vision

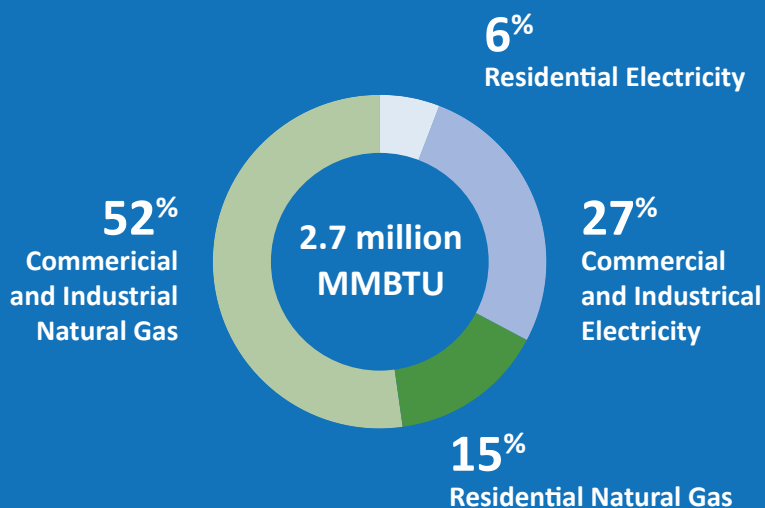
Northfield strives to ensure all citizens have access to clean, renewable, reliable, and affordable energy systems that will adapt to a changing climate by conserving energy, reducing our community-wide carbon footprint, and supporting sustainable energy solutions.

Carbon Reduction Goal

Achieve a **50%** reduction in energy-related carbon emissions from 2015 levels by **2030**, and consume **100%** carbon-neutral energy no later than **2050**.

Our Energy Snapshot*

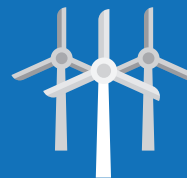
Energy Consumption



\$31 million spent across all sectors

*2017 data

Renewable Energy Support



Three college-owned wind turbines



81 solar panel installations



145 community solar garden subscribers



Almost **26 million kilowatt-hours (kWh)** of purchased green energy



Photo credit: City of Northfield



Photo credit: Carleton College



Photo credit: City of Northfield

18-Month Energy Action Jump Start

The 18-month Energy Action Jump Start includes 14 strategies and near-term targets to help Northfield hit the ground running towards meeting our carbon reduction targets.

At the core of the 18-month Energy Action Jump Start is accessible education and outreach. This will ensure everyone in the Northfield community is aware of the benefits of energy efficiency and renewable energy, and resources are available.

This outreach is focused on two target audiences:

SMALL CONSUMERS: inclusive of all residents, including homeowners and renters, small businesses, and nonprofit organizations.

LARGE CONSUMERS: inclusive of local institutions, such as the colleges and hospital, large businesses, and industrial businesses.

The City's Role in Fighting Climate Change

This plan includes 15 strategic priorities created to:

REDUCE: The City will reduce existing energy-related emissions through energy efficiency programs for its existing buildings, and by emphasizing strategic growth tactics from its own Comprehensive Plan for new buildings and developments.

RENEW: The City will encourage businesses and residences to expand use of on-site renewable energy resources and Xcel Energy's green power purchase programs.

EDUCATE: The City will publish its own annual energy data annually and be a source of information about existing energy efficiency incentives and green energy programs, as well as less familiar topics like net-zero energy construction and deep energy retrofits.

DEMONSTRATE: The City will normalize unfamiliar concepts by seeking opportunities to partner on or build net-zero energy or deep energy retrofit projects.

Guiding Principles

1. Pursue a sustainable energy future with clean energy available to all businesses and residents, with particular support for under-resourced households.
2. Increase overall energy literacy among residents and business owners and operators, including knowledge of where energy comes from, the environmental impacts of different types of energy generation, and what can be done to reduce energy use.
3. Expand renewable energy generation.
4. Lead by example and offer recognition for successful energy efforts.
5. Make energy efficiency feasible, affordable, and achievable for both residents and businesses.
6. Promote economic growth while increasing energy conservation and renewable energy generation.
7. Empower future generations to be self-motivated in working toward a sustainable energy future.
8. Inspire and support a high quality of life for future generations.

More About The Energy Subcommittee Report

This report was created by the Northfield Energy Subcommittee, which included over two dozen volunteers from Northfield residences, nonprofits, businesses, institutions, and industries. The City collaborated with the Xcel Energy's Partners in Energy offering to develop and implement our community's energy goals. The Energy Subcommittee created this report through a series of facilitated workshops.

The Northfield Energy Subcommittee is part of the Climate Action Plan Advisory Board, appointed by Mayor Rhonda Pownell to address Item Six in the City's 2018–2020 strategic plan, to “create a clear vision for climate action” by developing and implementing a Climate Action Plan. To see the full report and the Climate Action Plan, visit ci.northfield.mn.us.



Photo credit: City of Northfield

Strategic Priority Summary Matrix

Area A: Education and Engagement (EE)	
EE-1	Small Consumer Energy Engagement
EE-2	Large Consumer Energy Engagement
EE-3	Energy Marketing and Tourism
EE-4	Energy Reporting and Transparency
Area B: Policy and Planning (PP)	
PP-1	Building Energy Use Benchmarking and Disclosure
PP-2	Building Energy Efficiency Standards
PP-3	Energy Conscious Strategic Growth
PP-4	Forward-Thinking Utility System Expansion
PP-5	Renewable Energy Development Plan
PP-6	Community Energy Resilience Plan
Area C: Innovation and Demonstration (ID)	
ID-1	Deep Energy Efficiency Retrofits
ID-2	Net-Zero Energy Buildings
ID-3	Strategic Electrification
Area D: Supporting and Continuing the Plan (SC)	
SC-1	City Energy Coordinator Position
SC-2	Advancing and Updating the Plan

Want to Get Involved?

Are you passionate about energy conservation and renewable energy? Do you want to help Northfield residents and businesses save money on their energy bills? Join Northfield's Energy Task Force.

Contact Beth Kallestad, Program Coordinator at Beth.Kallestad@ci.northfield.mn.us.



JOIN THE MAHTOMEDI ENERGY CHALLENGE

Mahtomedi's recently adopted Energy Action Plan calls on all members of the community to take part in the Mahtomedi Energy Challenge to help the community achieve its energy vision and goals.

Our Energy Vision

Mahtomedi residents, schools, congregations, and businesses will work collaboratively to dramatically reduce our carbon footprint and position our community as a regional energy leader by engaging in activities that conserve energy, save money and use renewable energy.

Help make the vision a reality!

Residents:



**Sign up for
Home Energy Squad®**

Energy-saving solutions in one convenient visit.

 HomeEnergySquad.net  (866) 222-4595



**Subscribe to
Windsource®**

Easy to enroll in wind energy.

 xcelenergy.com/Windsource  (800) 895-4999

Businesses:



**Sign up for
Energy Smart**

Take the first step with a free energy assessment.

 mnenergysmart.com  (651) 292-3902



**Contact Xcel Energy's
Business Solutions Center**

Looking for your next energy saving opportunity?

 (855) 839-8862

Faith Communities:



**Complete a
Turn Key Assessment**

Full-service assessment and/or implementation services.

 xcelenergy.com/TurnKey



**Attend a Congregation
Energy Workshop**

Learn ways to save energy inside and outside your congregation. Contact Julie Drennen at

 Julie@Conservationminnesota.org

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

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



JOIN THE MAHTOMEDI ENERGY CHALLENGE

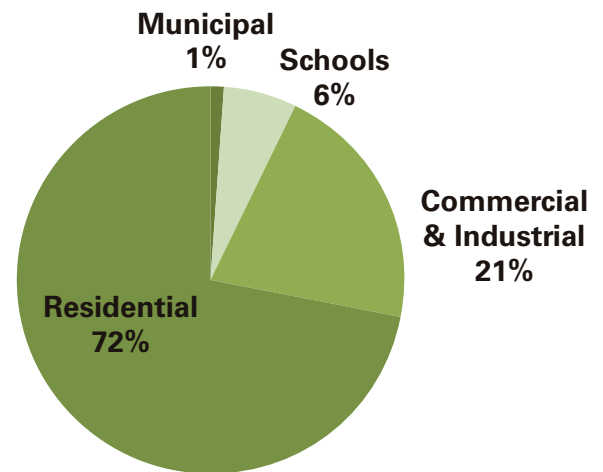
Our Current
Energy Costs

\$7.35 Million

SPENT ON ENERGY IN 2016

Amount spent on electricity and natural gas provided by Xcel Energy

Our 2016
Energy Use



GOALS

Carbon neutral by 2050

Residential



Triple total participation in energy conservation in 1 year

Business



Engage businesses and institutions in energy conservation

Renewables

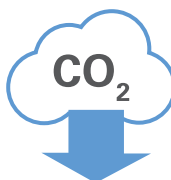


Double renewable energy subscribers within 1 year

By 2030 the community will:



Reduce energy use by 19%



Reduce energy related GHG emissions by 30%



Achieve cost savings of \$9.5 million

Executive Summary

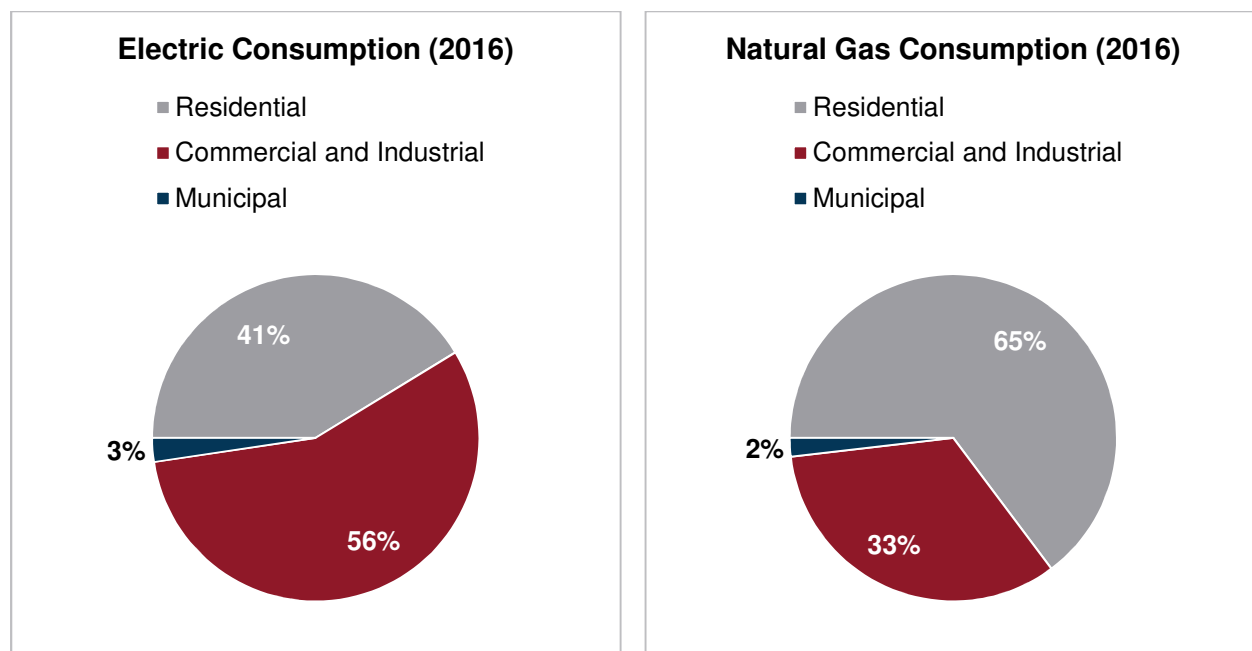
Rosemount is projected to grow significantly in the coming decades, and is committed to ensuring that growth is sustainable. Over the past few years, Rosemount made initial progress toward this end through a variety of actions. This plan represents renewed goals and priorities that will help propel Rosemount toward a more sustainable and affordable energy future. It offers a clear direction, based in data-informed decisions made by members of the Rosemount community.

Rosemount's Energy Action Plan sets measurable targets that will reduce energy use and save on energy costs, and outlines action steps to achieve them. The Rosemount Environment and Sustainability Task Force (REST) and City staff will lead implementation of this plan, with active engagement from residents, businesses and schools, as well as faith-based and community organizations. Working together, Rosemount will achieve environmental, social, and economic progress that will ultimately benefit future generations.



Community Energy Use

Rosemount is served by four utilities – Xcel Energy and Dakota Electric provide electricity, and Xcel Energy, Minnesota Energy Resources, and CenterPoint Energy provide natural gas service. While residences in Rosemount comprise the vast majority of premises, or locations of electricity or natural gas service, commercial and industrial customers consumed the majority (55 percent) of overall energy in 2016. Municipal facilities represent about 2 percent of the community's total energy consumption.



Our Vision

Our vision is that Rosemount will continue to foster pride in the community by becoming a leader in sustainability and energy conservation. Residents and businesses will demonstrate widespread support for renewable energy generation, as well as new, smart efficiency technologies. Energy efficiency will help the City of Rosemount and its residents save money, and broad community participation will ensure that savings benefit all. As a result, energy costs are kept low, ensuring the community remains affordable in the long-term.

Community-Wide Goal

Rosemount's overall energy goal, which addresses both electricity and natural gas use, is to **reduce energy use by 5 percent by 2020, and 15 percent by 2030**. To achieve this goal, Rosemount identified four key areas of focus: Residential energy, municipal energy, large energy users, and small- and medium-size businesses. In addition to the community-wide goal, specific goals and targets were set for each of these four areas. Over the next 18 months, Rosemount will take initial steps to achieve these goals with the support of Xcel Energy's Partners in Energy.

Focus Area Goals

Residential Energy	Goal: • Increase residential program participation 5% in year 1, and 10% in year 2 of implementation
Municipal Energy	Goals: • Reduce City energy use 10% by 2020 • Generate 75% of the City's energy with renewables
Large Energy Users	Goal: • 85% of the top 20% of energy users participate in energy conservation by 2020
Small and Medium-size Business	Goals: • Reduce small- and medium-size business electricity use by 2% per year • 25 small- and medium-size businesses participate in natural gas conservation programs

Impact

Rosemount spent an estimated \$28.7 million on energy across all sectors in 2016. Achieving all of the community's energy goals will save Rosemount residents and businesses more than \$1 million over the next three years. It will also reduce the community's annual carbon footprint by more than 19,000 metric tons of carbon dioxide equivalent (MTCO_{2e}), approximately equivalent to the carbon emitted from 4,100 passenger vehicles in one year.¹ In addition, achieving Rosemount's energy goals will form new and lasting partnerships to support action. Outreach and events will raise awareness about energy and cost saving opportunities. This will result in long-term, active participation from a broad array of community members.

¹ US Environmental Protection Agency (March 13, 2018). Greenhouse gas equivalencies calculator. Retrieved from <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>