

PARTNERS IN ENERGY
An Xcel Energy Community Collaboration

Mahtomedi's Energy Action Plan Partners in Energy Summary

City of Mahtomedi | April 16, 2019

Agenda Overview



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1. Reintroductions
2. Energy Action Plan in Review
3. Implementation Successes and Challenges
4. Partners in Energy Experience
5. Next Steps



Energy Action Plan in Review



Mahtomedi's Energy Action Plan

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

Aspirational Goals

- Achieve a 30 percent reduction in energy-related greenhouse gas emissions by 2030 and a 100 percent reduction (carbon neutrality) by 2050 (from a 2016 baseline).
- 1.4 percent average annual energy savings to reduce energy consumption 19 percent by 2030.



Mahtomedi's Energy Action Plan

Focus Areas & Sector Goals

Residential	Business & Institutions	Renewable Energy
<p>Triple total participation in energy efficiency programs within one year, resulting in 1.6 percent annual energy use reduction and saving participating households an average of \$113 per year on their energy bills.</p>	<p>Engage businesses and institutions in energy saving actions, resulting in a combined 11 percent reduction in energy use in targeted facilities below 2016 baseline by 2020.</p>	<p>Double the number of renewable energy subscribers in one year and double average subscription amount.</p>

Implementation Summary

Residential Activities

- Engagement through city channels (website, social media, newsletter)
- Home Energy Squad[®] buy-down
- Postcards about Home Energy Squad visits
- Tabling and community events and activities
- Community Ed class

Other Activities

- Coordination with White Bear Lake on information during permitting process
- Congregation outreach
- Business blitz
- Business and community facility energy efficiency improvements



Marketing Material Examples



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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

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



MAHTOMEDI RESIDENTS SEIZE WIND POWER

Mahtomedi residents are doing their part to support local, low cost wind energy by subscribing to Xcel Energy's Windsource®. Windsource is a voluntary renewable subscription program enabling enabling Xcel Energy customers to easily source up to 100% of their electricity from wind.

It takes less than 5 minutes to sign up and costs as little as a dollar per month to participate.¹ And there is no contract. After the first year, you can cancel your subscription at any time.

Joining is easy!



Sign up today by calling **800.895.4999** or fill out the online application at **xcelenergy.com/Windsource**



Help us reach our goal of doubling the number of Windsource subscribers in Mahtomedi.

Already a Windsource customer? Increase your subscription to help Mahtomedi reach its goal of doubling the average Windsource subscriptions amount.



How much would it cost to power my home with Windsource?

Subscriptions start at as little as \$1/month, but you could power 100% of the electricity used by an average Mahtomedi home for about \$9/month.²



¹The Windsource rate in addition to the full retail rate includes a \$0.57 per block charge for Windsource. Plus a credit for fuel costs. In 2010, the average fuel cost credit for a residential customer was \$2.50, making the net charge for Windsource \$0.57 per block.

²An average Mahtomedi home uses 8,073 kWh per year, based on 2010 energy use data.



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Marketing Material Examples



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Mahtomedi News

JULY – AUGUST 2018

<p>MAHTOMEDI CITY HALL 600 Silverdale Road Mahtomedi, MN 55115 8 a.m. – 4:30 p.m. (M-F) EDITORS: CITY STAFF</p>	<p>MAYOR Jud Marshall</p> <p>COUNCIL MEMBERS Richard Emmons, Timothy Deane, Jeff Lockemann, Steve Wojnaruk</p>	<p>CITY HALL 651-426-3344 FIRE DEPARTMENT 651-426-1080 PUBLIC WORKS 651-773-9730 WASHINGTON COUNTY SHERIFF 911 OR 651-439-9381</p>
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www.ci.mahtomedi.mn.us

Mahtomedi News

JANUARY – FEBRUARY 2019

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Discounted Home Energy Squad® Visits Are Still Available!

Thanks to a collaboration between Xcel Energy and the City of Mahtomedi, Home Energy Squad® visits are discounted for Mahtomedi residents. Since the beginning of this year, 34 residents have taken advantage of this great service.



Home Energy Squad helps residents save energy and money by offering a customized and convenient way for you to make energy-related improvements to your home. The visit includes free installation of materials such as LED bulbs, programmable thermostat, door and attic hatch weather stripping, high-efficiency showerhead, faucet aerators, and water heater insulation, temperature assessment and adjustment. When you sign up, you may also choose an insulation inspection, blower door and thermal image test to help identify additional energy efficiency opportunities. Following the visit, you will receive a customized report, and energy advisors are available to assist with next steps.

Only a limited number of discounted visits are left for Mahtomedi residents, so reserve your spot today! Call 866-222-4595 or visit HomeEnergySquad.net to make an appointment.

Watering Restrictions

From May 1 to September 30 the use of the City water supply system for lawn and garden sprinkling, irrigation, or other non-potable use is prohibited between the hours of 11:00 a.m. and 6:00 p.m., and is limited to an odd-even schedule corresponding to the property address. During this time residents with even-numbered addresses may water only on even-numbered days and residents with odd-numbered addresses may water only on odd-numbered days. It should be noted that the watering restriction does not apply to activities such as washing your vehicle on a Saturday afternoon. Even so, if you can wash your car in the evening or morning, it will help conserve water. It is also wise to have a spray nozzle on the hose while washing the vehicle to minimize the water that flows into the storm sewers.

Community News

Arbor Day

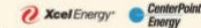
The Mahtomedi Parks Commission planted a white oak tree at Veteran's Memorial Park (formerly known as Triangle Park) on May 16, 2018 for the City's Annual Arbor Day Tree Planting.



Park Commissioners Fischer, Metz, Charlesworth, Lindberg and Public Works Director Goebel

Resolve to Make Your Home More Efficient and Comfortable in 2019

It's easy to put home improvement projects on the back burner — whether it's due to lack of time, tight resources, or limited information. This year, resolve to tackle your energy waste and finally make your home's comfort and efficiency a priority. To simplify the process, call in the pros by scheduling a Home Energy Squad® visit.



Home Energy Squad is an energy conservation program provided by Xcel Energy and CenterPoint Energy to help homeowners save energy and money. The City of Mahtomedi is offering a half-off discount for its residents. For only \$50, a team of energy experts will come to your home, evaluate your energy savings opportunities, and install free energy-saving materials, including:

- LED lights
- Door and attic hatch weather stripping
- High-efficiency showerhead and faucet aerators
- Programmable thermostats
- And more

If adding a smart thermostat to on your to-do list, you can purchase one during your visit for a discounted small additional fee, and the energy experts will install it right there.

Your visit can even include an energy assessment to evaluate your home's air sealing, insulation, and other energy improvements that may make sense for your home, at no additional cost. This assessment will recommend cost-effective next steps and qualified local contractors to complete the work. Who knew that improving your home's comfort and efficiency could be so easy?

But hurry — the half-off discount is only available for a limited time! Act fast to check off your resolution, and make your home cozier and more efficient.

For more information, or to schedule your Home Energy Squad visit, call 651-328-6220 or visit HomeEnergySquad.net.

Home Energy Squad is provided by Xcel Energy and Center Point Energy, and delivered by the Center for Energy and Environment (CEE), a local nonprofit. Signing up for a visit will help Mahtomedi reach the goals outlined in its Energy Action Plan, which can be found at www.ci.mahtomedi.mn.us.



ATTENTION! Recycling Pickup Days Are Changing To Thursdays

Beginning the week of January 7, 2019, your recycling pickup day is changing from Mondays to Thursdays. The first pickup date will be **January 10, 2019**. For instance, if your previous recycling day was December 24, your next scheduled pickup date is **Thursday, January 10**. Residents should place their recycling container behind the curb or street edge after 5:00 p.m. the night before collection but no later than 7:00 a.m. on their collection day. When a holiday falls on a scheduled collection day, the collection will be one working day later.

EMPLOYEE RECOGNITION

In 2018, the City Council recognized the following City of Mahtomedi employees for their years of dedicated service to the community:

City Hall Staff:
Luann Tembreull – 25 years

Fire Department Staff:
Ken Bell – 5 years
Terry Fischer – 25 years

Marketing Material Examples



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RENOVATING YOUR HOME?

Maximize your investment with energy-saving opportunities and rebates!

Remodeling your home requires lots of research and planning, and all of the decisions can seem overwhelming. Let us take the guesswork out of identifying which energy-saving opportunities are available so that your improvements not only enhance the appearance of your home, but also its comfort and performance.

Explore Opportunities

The best place to start is with a Home Energy Squad® visit. They'll help you discover energy saving opportunities throughout your home! Visit HomeEnergySquad.net or call (866) 222-4595.

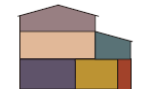
Build Energy Efficiency Into Your Project

Whatever size your project, there are opportunities to integrate energy efficiency. A few ideas are provided on the reverse side.



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- 1 Kitchen**
 - Recycle your old refrigerator and earn \$35. Visit xcelenergy.com/Fridge to learn more.
 - Choose ENERGY STAR® certified appliances. Visit energystar.gov/products to learn more.
- 2 Utility Room**
 - Leverage Xcel Energy rebates to upgrade to high efficiency heating systems, hot water heaters, and air conditioners. Visit xcelenergy.com/HomeRebates to learn more.
 - Choose ENERGY STAR® certified appliances.
- 3 All Rooms**
 - Upgrade lighting to LED bulbs. Visit xcelenergy.com/BulbFinder to find local retailers offering discounted bulbs.
 - Install power strips, occupancy sensors, and/or timers so that your lighting and devices aren't using energy while you're asleep, are away at work, or not using certain rooms.
- 4 Attic & Exterior**
 - Seal uncontrolled air leaks and reduce drafts with insulation and air sealing improvements.
 - Home Energy Squad can provide a price quote and referrals to approved contractors.
 - Consider replacing older, drafty windows with newer energy-efficient ones.
- 5 Other Ideas**
 - Install a smart thermostat to manage your home's heating and cooling comfort costs. Visit xcelenergystore.com to purchase thermostats and many other energy-saving items at a discount.
 - Consider installing mini-split heat pumps for zoned heating/cooling when additional ductwork won't work. Visit xcelenergy.com/HomeRebates to learn more.



Select Contractor

Not all of Xcel Energy's programs require you to use a registered contractor, but using an Xcel Energy registered contractor is recommended because they are most likely to have knowledge about available rebate opportunities and processes. To review the list of Xcel Energy Registered Contractors, visit: xcelenergy.com/ContractorSearch.

Secure Financing

Here are some financing options for home renovation projects that include energy efficiency:

- Home Improvement Loan Program:** Statewide program that supports the preservation of existing housing. It provides loans to improve the basic livability and/or energy efficiency of the borrower's home. More details at: mnlendingcenter.org.
- Home Energy Loan Program:** Low interest home energy loans for Minnesota homeowners to make energy improvements in their homes. More details at: mnlendingcenter.org.
- Solar Financing:** Low interest loans for Minnesota homeowners to increase the energy efficiency of their homes using photovoltaic (PV) solar technology. More details at mnlendingcenter.org.



Marketing Material Examples



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FREE ENERGY VISITS FOR INCOME-QUALIFIED RESIDENTS!

The City of Mahtomedi and Xcel Energy are teaming up to help connect income-qualified residents in Mahtomedi with free Home Energy Squad® visits.

SCHEDULE YOUR VISIT TODAY!
866-222-4595

For more information visit: HomeEnergySquad.net



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

HOME ENERGY SQUAD VISITS INCLUDE:

A team of energy experts will evaluate energy-saving opportunities and offer you choices among these services:

- Installation of free materials such as LEDs, a programmable thermostat, door and attic hatch weather stripping, high-efficiency showerhead and faucet aerators
- Inspection of your attic and wall insulation
- A combustion safety test and carbon monoxide check
- Help with next steps

DO YOU QUALIFY?

If you live in a one- to four-unit building and your household size meets the annual income limits listed below, you qualify for a free visit. You will be asked to sign a waiver verifying your household income at the beginning of your visit.

Household Size	Income Limit
1	\$25,983
2	\$33,978
3	\$41,973
4	\$49,698
5	\$57,963
6	\$65,958
7	\$67,457
8	\$68,956

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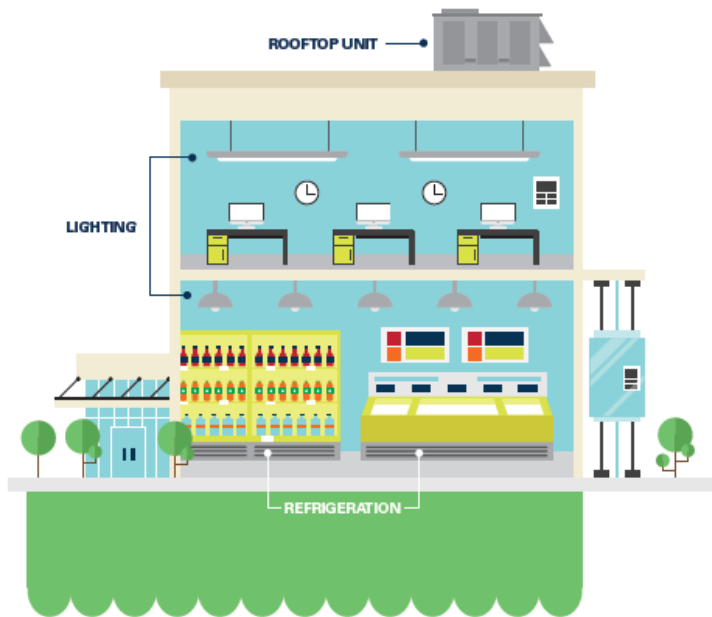
Marketing Material Examples



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BUSINESS EFFICIENCY OPPORTUNITIES

Did you know increasing energy efficiency can cut costs?
Hit these trouble spots to save energy and money.



BUSINESS EFFICIENCY CHECKLIST

- LIVEN UP YOUR LIGHTING**
Improving lighting is an easy way for businesses to cut costs. The One-Stop Efficiency Shop™ lighting retrofit program is a full-service rebate program that helps building owners choose more efficient lighting. Services include a free lighting audit, a detailed report with recommendations, savings and financing options, relationship management with the contractor, and submission of the rebate paperwork. Call 612-244-2427 or visit OneStopEfficiencyShop.org.

- REV UP ROOFTOP UNITS**
Upgrading rooftop units (RTUs) can help facilities quickly lower HVAC costs. The One-Stop Efficiency Shop® RTU program* offers businesses a free, no-obligation walk-through assessment with suggestions on how to improve the operation of RTUs to cut costs. A detailed report with recommendations, savings and financing options, relationship management with the contractor, and submission of the rebate paperwork are included. Call 612-244-2427 or visit OneStopEfficiencyShop.org.
* One-Stop Efficiency Shop programs are only available to facilities with a monthly peak demand 400 kilowatts or less.

- COOL DOWN YOUR REFRIGERATION COSTS**
Refrigeration systems can be the main source of energy use in grocery, liquor, and convenience stores. Xcel Energy offers a free, on-site refrigeration assessment to give businesses a convenient way to determine how the business can reduce energy use and costs. Plus, complimentary energy-saving products will be installed on the spot. Call 612-455-7803 or visit xcelenergy.com/MNRefrigeration.



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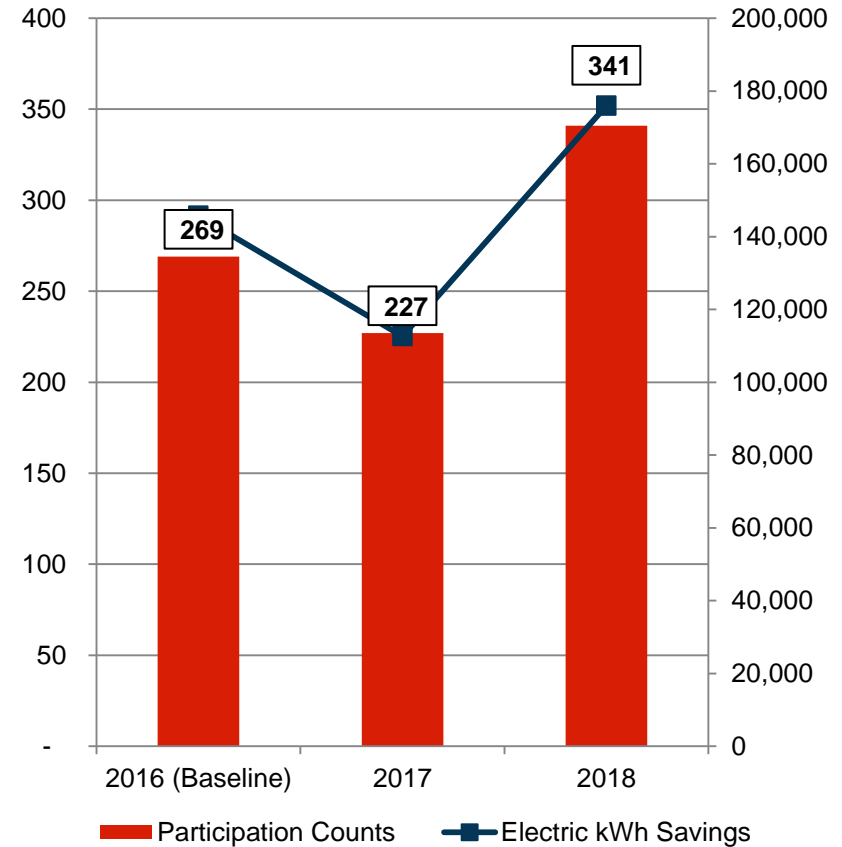
Residential Progress

Goal: Triple total participation in energy efficiency programs within one year

Achievements:

- 27% increase in participation 2016 to 2018
- 40 Home Energy Squad[®] visits in 2018 (21 in 2016)
- 2 Low Income Home Energy Squad[®] visits in 2018 (0 in 2016)

Residential Program Participation and Savings



* Residential Savers' Switch excluded due to high baseline year enrollment (276 in 2016)

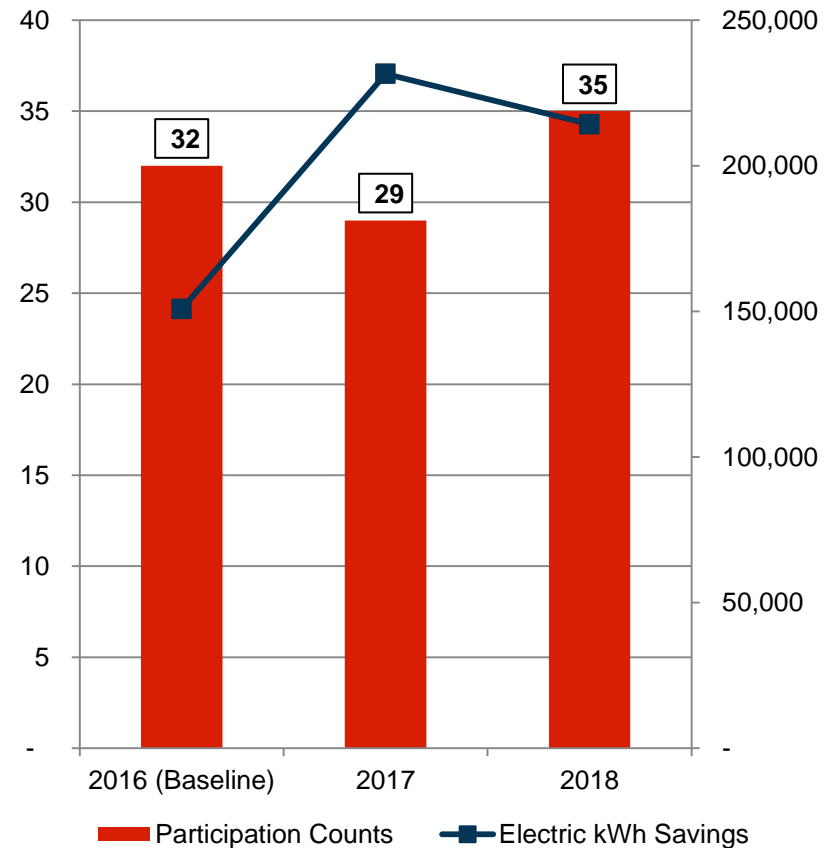
Business & Institutions Progress

Goal: Engage businesses and institutions in energy saving actions, resulting in a combined **11 percent reduction** in energy use in targeted facilities below 2016 baseline by 2020.

Achievements:

- 42% increase in C&I electricity savings (kWh)
- 25% increase in C&I natural gas savings (therms)
- Total energy use reduction in targeted facilities TBD

Commercial/Industrial Program
Participation and Savings



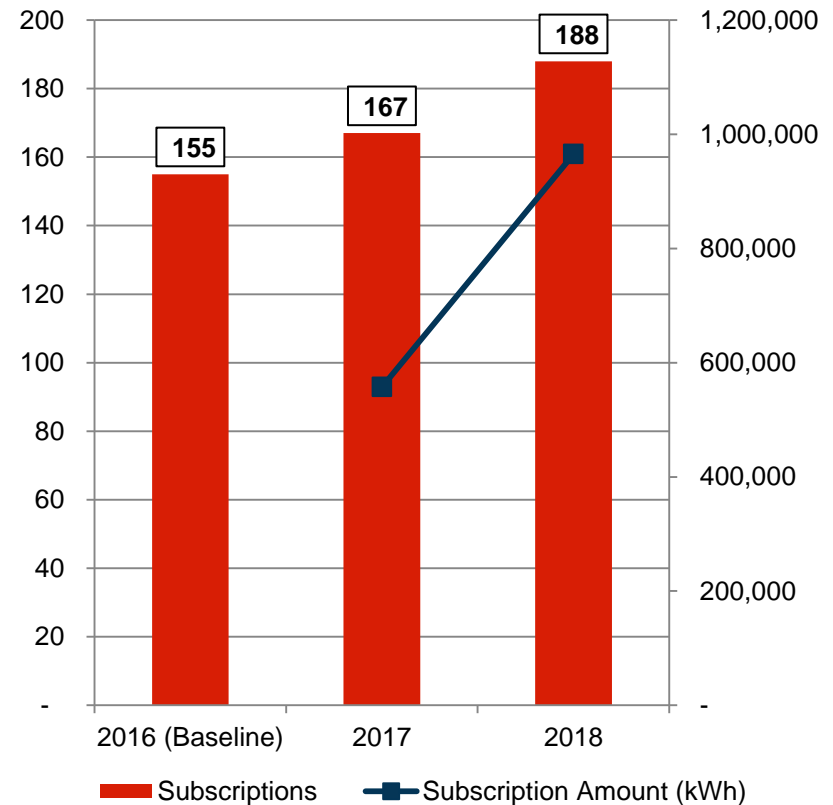
Renewable Energy Progress

Goal: Double the number of renewable energy subscribers in one year and double average subscription amount.

Achievements:

- 21% increase in renewable energy subscriptions (2016 to 2018)
- 74% increase in renewable energy subscription amounts (2017 to 2018)
- 76 participants in Mahtomedi Area Solar Co-op
- 11 Co-op participants signed contracts with All Energy Solar

Renewable Energy Program Subscriptions and Subscription Amounts



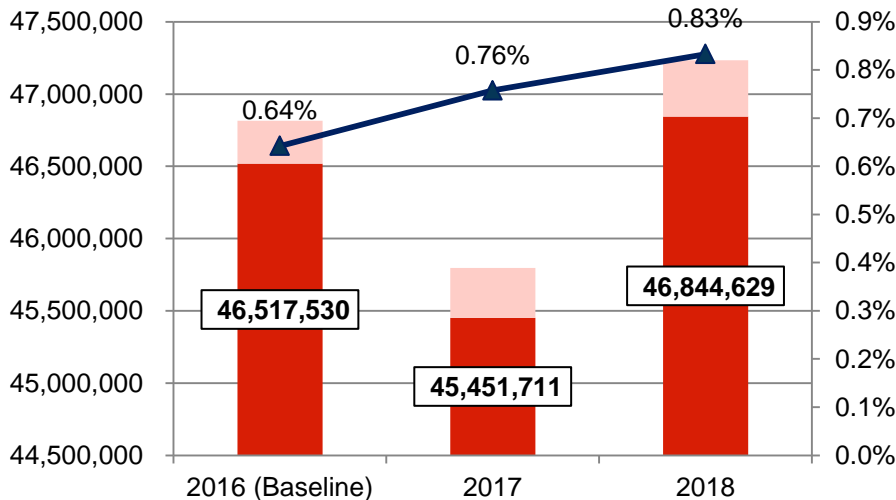
Overall Progress

Aspirational Goal:

Achieve 1.4 percent average annual energy savings to reduce energy consumption 9 percent by 2030.

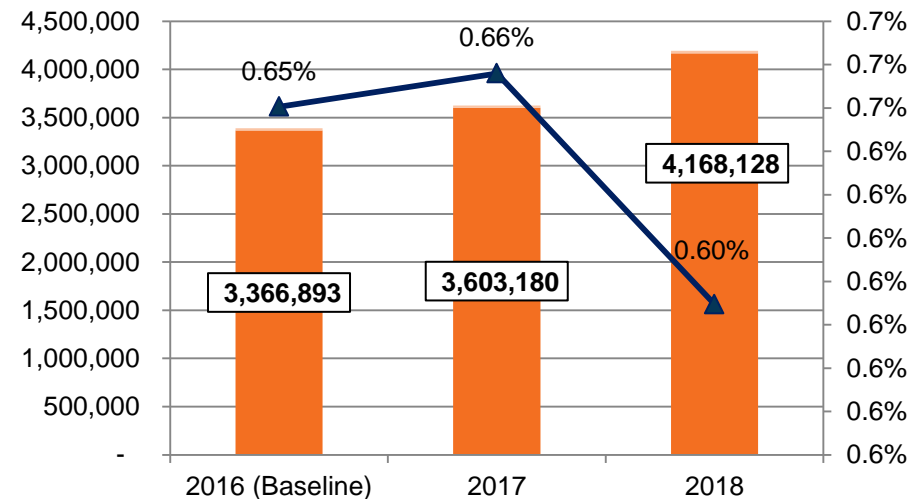
- 2017 – achieved savings of 0.8% for electricity and 0.7% for natural gas
- 2018 – achieved savings of 0.8% for electricity and 0.6% for natural gas

Total Electricity Consumption



- Total Electricity Savings (kWh)
- Total Electricity Consumption (kWh)
- ▲ Total Electricity Savings (%)

Total Natural Gas Consumption



- Total Natural Gas Savings (Therms)
- Total Natural Gas Consumption (Therms)
- ▲ Total Natural Gas Savings (%)

Overall Progress

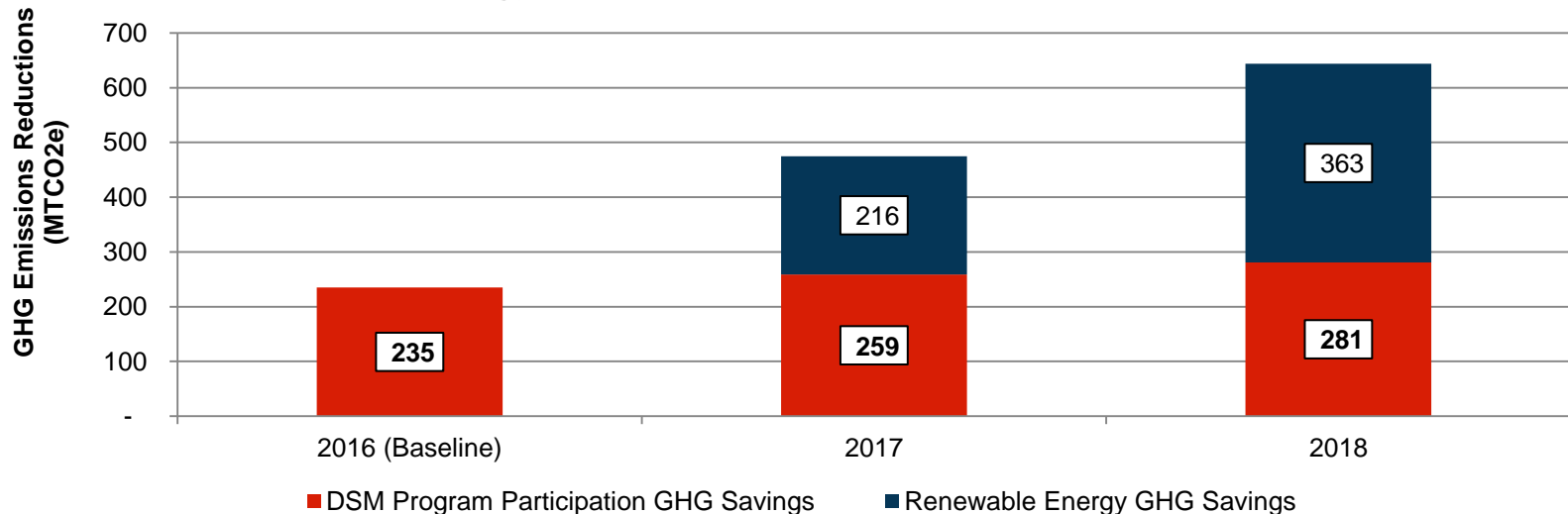
Aspirational Goal:

Achieve a 30 percent reduction in energy-related greenhouse gas emissions by 2030 and a 100 percent reduction (carbon neutrality) by 2050 (from a 2016 baseline).

- Total emissions increased as consumption increased, but increasing levels of reductions due to efficiency and renewable activities
 - Total number of heating and cooling degree days increased 22% (2016 – 2018)*

*Source: <https://www.weatherdatadepot.com/>

Energy-Related GHG Emissions Reductions



Implementation Success and Challenges



Home Energy Squad Buy-down



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City of Mahtomedi bought down the cost of 200 Home Energy Squad enhanced visits in 2018-2019.

- **Primary resources:**
 - Funding for visits, marketing materials, City newsletters, postcards
- **Impact:**
 - 40 visits completed in 2018 compared to 21 in 2016
 - 13 visits completed in Q1 2019; 14 more scheduled in 2019



Tabling and Presentations

Tabling at community events (e.g, RITE of Spring, Care for Creation, and Sunday services) and conducting informational workshops such as the Community Ed course.

- **Primary resources:**
 - Volunteer time, marketing materials, LED giveaways
- **Impact:**
 - Increased engagement with community
 - Home Energy Squad[®] signups



Business engagement

Clean Energy Resource Teams organized a Business Blitz to connect area businesses with energy efficiency information

- **Primary resources:**
 - Door to door outreach and follow-up visits
- **Impact:**
 - To be determined (results available in mid 2019)



Photo by [Tony Webster](#) | [CC BY 3.0](#)



Construction Coordination

Created informational materials about energy efficiency opportunities and rebates to accompany building permit information.

- **Primary resources:**
 - Volunteer and staff time, marketing materials, White Bear Lake website
- **Impact:**
 - Increased information for community



City of Mahtomedi
600 Stillwater Road, Mahtomedi, MN 55115
Media Contact: Scott Neilson
651-426-3344; SNeilson@ci.mahtomedi.mn.us

Simple Tips to Help Contractors and Homeowners Add Energy Efficiency to Home Renovation

The City of Mahtomedi and Xcel Energy Partners in Energy are collaborating to make it simple and convenient to save energy in existing and new homes.



Next Steps for Mahtomedi's Energy Initiatives



Ongoing Opportunities

- Access to Partners in Energy community portal
- Monthly web-based trainings
- Bi-monthly newsletter with content to use locally
- In-person networking activities
- Data tracking and monitoring (twice yearly)





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