

**MAHTOMEDI ENVIRONMENTAL COMMISSION  
MEETING AGENDA  
February 8, 2021  
6:30 P.M.**

Meeting to be held electronically pursuant to Minn. Stat. Sec. 13D.021

Telephonic Meeting Call – in instructions

Dial: +1 312 626 6799

Enter Meeting ID 825 3233 3737 Passcode 386293

Please hit the # sign twice to enter to meeting

The following link will allow you to enter the meeting using video:

<https://us02web.zoom.us/j/82532333737?pwd=WXhHbWZRZ0hjYTRONGRRFIIVjJMOT09>

- |  |             |
|--|-------------|
| <b>1. CALL TO ORDER</b>  | <b>6:30</b> |
| <b>2. APPROVAL OF AGENDA</b>   |             |
| <b>3. APPROVAL OF THE JANUARY 11, 2021 MEETING MINUTES</b>   |             |
| <b>4. NEW BUSINESS</b>   | <b>6:35</b> |
| <ul style="list-style-type: none"><li>- Minnesota Local Government Coalition Regulatory Engagement Roadmap Xcel Energy 2020-2034 Integrated Resource Plan (IRP) – Julia Eagles</li><li>- Discuss Resolution of Support for Clean Cars Minnesota.</li></ul> |             |
| <b>5. OLD BUSINESS</b>   |             |
| <ul style="list-style-type: none"><li>- Sustainability Plan – Roxy Robertson, WSB</li></ul>  |             |
|  | <b>7:15</b> |
| <b>6. FUTURE AGENDA ITEMS</b>  |             |
| <b>7. ADJOURNMENT</b>  | <b>8:00</b> |

## **MAHTOMEDI ENVIRONMENTAL COMMISSION MEETING**

### **MINUTES**

**JANUARY 11, 2021**

A regular meeting of the Environmental Commission was held on Monday, January 11, 2021 at 6:30 p.m. via zoom.

Present were Commission members: Mike Chevalier, Christine Ahmann-Maples, Kevin Toskey, Will Seuffert, and Scott Peterson. Absent with notice Peter Merrill.

Also present: Council Member Jeff Ledermann, City Administrator Scott Neilson, and Roxy Robertson, WSB.

### **APPROVAL OF AGENDA**

Motion by Chevalier, seconded by Toskey to approve agenda. Motion carried.

### **APPROVAL OF MINUTES**

Motion by Chevalier, seconded by Seuffert to approve December 14, 2020 meeting minutes. Motion carried.

### **OLD BUSINESS**

#### **Sustainability Plan**

Roxy Robertson from WSB presented the same outline as last month. (See attached) The Commission focused on what the plan could look like with Ecological Health as the first indicator discussed. Discussion focused on coordination with the goals in the Comprehensive Plan which include pollinator vegetation, rain gardens, wetland protection, tree preservation, and a natural resources management plan. Commissioner Toskey volunteered to review the other indicators (energy, water, travel, community, waste, and climate) and come back with information for the Commission.

### **NEW BUSINESS**

#### **Community Survey Questions**

City Administrator Neilson provided some background on the community survey performed every four to five years by the professional polling company Morris Leatherman and Associates. The City Council is scheduled to hold a work session for January 19, 2021 at 5:30 to discuss questions. The Commission provided some suggested question topics related to sustainability. These include promotion of renewable energy, incentives for solar energy, access to alternative energy, organics collection, organized trash collection, and the RITE of Spring event.

## **FUTURE AGENDA ITEMS**

The following are on the agenda for the February Environmental Commission Meeting:

1. Sustainability Plan

### **ADJOURNMENT**

Motion by Chevalier, seconded by Toskey to adjourn meeting. Motion carried. Meeting adjourned at 7:45 p.m.

Respectfully Submitted,

Scott Neilson  
City Administrator



WORLD  
RESOURCES  
INSTITUTE



IMT  
INSTITUTE  
FOR MARKET  
TRANSFORMATION



**GREAT PLAINS  
INSTITUTE**



## **Minnesota Local Government Coalition Regulatory Engagement Roadmap Xcel Energy 2020-2034 Integrated Resource Plan (IRP)**

MN PUC Docket Number: E002/RP-19-368

### **Join Other Local Units of Government in Support of a Cleaner Energy Future**

Xcel Energy filed their Upper Midwest Integrated Resource Plan (IRP) on July 1, 2019 with the Minnesota Public Utilities Commission (PUC), covering the 2020-2034 planning period. The plan outlines the utility's resource needs over that 15 year period, and charts a path for achieving its carbon goals of 80% reduction by 2030 and 100% carbon-free by 2050 with proposed plan retirements and new resource additions. As a part of the Bloomberg Philanthropies' American Cities Climate Challenge (ACCC), the technical assistance team are developing joint comments for the City of Minneapolis and also convening a coalition of other high-ambition local governments in Xcel Energy's Minnesota service territory to engage in this proceeding and connect the dots with other utility regulatory filings. Our objective with this effort is to increase awareness among local governments of utility plans and the impact on their sustainability goals, and to bring local government carbon and energy policies and priorities to the PUC to influence their decision-making.

### **Why Should Your City Engage?**

- Local governments are important stakeholders that represent a large portion of customers and load and have ambitious sustainability goals, especially in aggregate
- Resource decisions will impact your local government's ability to achieve energy and climate goals, as well as utility rates among residents
- Publicly highlight local government clean energy and carbon goals in the Xcel Energy IRP filing, and the collective impact of those goals on the utility's planning process
- Develop the capacity of local government staff and decision-makers around regulatory processes
- Build relationships between local governments and the utility and its regulators for future engagement
- Demonstrate the effectiveness of a collaborative engagement model for coalitions of local governments sharing similar climate, energy, and equity goals to influence PUC decisions

### **Process**

- Convene a series of workshops to help local governments understand:
  - the regulatory process – how the state takes input and decides on approval of an IRP
  - the impact of an IRP on local climate and energy goals, and
  - the opportunities for engaging in the IRP process (from lighter touch to more intensive) and ensuring the PUC and the utility consider those local goals in the final plan
- ACCC partners and local organizations will develop a draft comment letter to be signed by a coalition of cities and counties emphasizing the collective impact of shared local government carbon and clean energy goals on long-term utility resource planning, and highlighting the following potential themes:
  - request clarification on plans for the 2034-2050 period for carbon neutrality
  - support for the increased energy efficiency goals for its near-term carbon saving impact, the equity benefits of a well-designed programs, and potential role in minimizing the need for new grid infrastructure or fossil fuel generation
  - oppose new natural gas plants
  - support for increased utility-scale and local renewable generation
  - promote the accelerated closure of coal plants
  - ensure the benefits of utility investments accrue to historically underserved communities

- Identify common questions for cities and counties to raise with the utility, through formal or informal engagement – building capacity among local governments for regulatory analysis and highlighting shared issues and concerns with the utility

### How to Participate:

Local governments interested in participating in this coalition and signing on to a joint letter should reach out to either of the contacts listed below. Let us know what your internal process is for getting official approval for your city or county's participation in the IRP engagement (who needs to sign off, is council action needed, how much time will it take to get on council agenda, etc.). The ACCC team is happy to provide resource materials, present to decision-makers in your city, or offer other support as needed. We ask that your local government staff and decision-makers review and approve the content of the joint letter based on the timeline below.

### Timeline:

- August 28: Local Government IRP Coalition Workshop #1
- September 16: Local Government IRP Coalition Workshop #2
- October 9: Identify interested local governments through survey
- November 20: Draft local government coalition letter complete for distribution
- *January 15*: Local government edits and review complete
- *February 5*: Final comment letter approvals complete
- *February 11*: Local government coalition comments submitted

### Contact Info

Julia Eagles – Associate Director of Utility & Regulatory Strategy  
Institute for Market Transformation: <https://www.imt.org/>  
Email: [julia.eagles@imt.org](mailto:julia.eagles@imt.org)  
Phone: 612-747-9821

Brian Ross – Program Director  
Great Plains Institute: <https://www.betterenergy.org/>  
Email: [brross@gpisd.net](mailto:brross@gpisd.net)  
Phone: 612-501-1531

## Mahtomedi Sustainability Plan Outline – Draft for Environmental Commission Discussion

1. Introduction
  - 1.1. Vision
  - 1.2. What do we mean by “Sustainability”?
  - 1.3. Why is this important to Mahtomedi?
  - 1.4. What is this Plan meant to accomplish?
  - 1.5. Steps to achieving SMART goals
    - 1.5.1. Baseline data, barriers, implementation, communication, progress review, deadlines
  - 1.6. Time horizon for the Plan
2. Direction from the Citywide Comprehensive Plan
  - 2.1. Recap of public engagement
  - 2.2. Goals
    - 2.2.1. Infrastructure and Environmental Assets
    - 2.2.2. Energy Infrastructure and Efficiency
    - 2.2.3. Healthy Communities
    - 2.2.4. Economy and Society
3. Direction from Green Step Cities
  - 3.1. Status of city achievements
  - 3.2. Actions addressed in Comp Plan
  - 3.3. Actions not addressed in Comp Plan
4. Indicators
  - 4.1. Ecological Health (*topics: wildlife, trees, restoration and preservation, pollinators*)
    - 4.1.1. Existing conditions, issues, and targets
    - 4.1.2. SMART goal 1
      - 4.1.2.1. Strategies to meet SMART goal
    - 4.1.3. SMART goal 2...
    - 4.1.4. Community action items to achieve ecological health goals (actions the community can do to help reach the goals)
    - 4.1.5. Timing
    - 4.1.6. Future goal considerations
  - 4.2. Energy (*topics: consumption, renewable energy, green buildings*)
    - 4.2.1. Existing conditions, issues, and targets
    - 4.2.2. SMART goal 1
      - 4.2.2.1. Strategies to meet SMART goal
    - 4.2.3. SMART goal 2...
    - 4.2.4. Community action items to achieve energy goals (actions the community can do to help reach the goals)
    - 4.2.5. Timing
    - 4.2.6. Future goal considerations
  - 4.3. Water (*topics: water quality, water infrastructure, reuse projects*)
    - 4.3.1. Existing conditions, issues, and targets
    - 4.3.2. SMART goal 1
      - 4.3.2.1. Strategies to meet SMART goal
    - 4.3.3. SMART goal 2...
    - 4.3.4. Community action items to achieve water goals (actions the community can do to help reach the goals)
    - 4.3.5. Timing
    - 4.3.6. Future goal considerations
  - 4.4. Travel (*topics: road infrastructure, trails, walkability/mobility*)
    - 4.4.1. Existing conditions, issues, and targets
    - 4.4.2. SMART goal 1

- 4.4.2.1. Strategies to meet SMART goal
  - 4.4.3. SMART goal 2...
  - 4.4.4. Community action items to achieve travel goals (actions the community can do to help reach the goals)
  - 4.4.5. Timing
  - 4.4.6. Future goal considerations
- 4.5. Community (*topics: engagement, housing, gardening, local food, race and equality*)
  - 4.5.1. Existing conditions, issues, and targets
  - 4.5.2. SMART goal 1
    - 4.5.2.1. Strategies to meet SMART goal
  - 4.5.3. SMART goal 2...
  - 4.5.4. Community action items to achieve community goals (actions the community can do to help reach the goals)
  - 4.5.5. Timing
  - 4.5.6. Future goal considerations
- 4.6. Waste (*solid waste, composting, yard waste*)
  - 4.6.1. Existing conditions, issues, and targets
  - 4.6.2. SMART goal 1
    - 4.6.2.1. Strategies to meet SMART goal
  - 4.6.3. SMART goal 2...
  - 4.6.4. Community action items to achieve waste goals (actions the community can do to help reach the goals)
  - 4.6.5. Timing
  - 4.6.6. Future goal considerations
- 4.7. Climate (*greenhouse gas emissions, air quality, city fleet, climate change vulnerability*)
  - 4.7.1. Existing conditions, issues, and targets
    - 4.7.1.1. Current greenhouse gas emissions summary from Regional Indicators Initiative (pie chart).
  - 4.7.2. SMART goal 1
    - 4.7.2.1. Strategies to meet SMART goal
  - 4.7.3. SMART goal 2...
  - 4.7.4. Community action items to achieve climate goals (actions the community can do to help reach the goals)
  - 4.7.5. Timing
  - 4.7.6. Future goal considerations

- 5. Supporting the Plan
  - 5.1. Staff and community involvement
  - 5.2. Funding and resources
- 6. Progress review
  - 6.1. Three-year targets
  - 6.2. 1-3 year priority projects
- 7. Conclusion and Work Plan

**RESOLUTION NO. \_\_\_\_**  
**A RESOLUTION OF SUPPORT FOR CLEAN CARS MINNESOTA**

**WHEREAS**, transportation is the largest emitter of greenhouse gases (GHGs), both nationally and in Minnesota, making the sector a significant contributor to climate change, which is already affecting Minnesotans.

**WHEREAS**, the Next Generation Energy Act of 2007, directed the state of Minnesota to reduce greenhouse gas emissions by 15% by 2015, 30% by 2025, and 80% by 2050 (from 2005 levels).

**WHEREAS**, Minnesota did not hit the 2015 target and is not on pace to meet future goals.

**WHEREAS**, Tailpipe pollution from vehicles is one of the primary sources of exposure to harmful air pollutants in many communities around Minnesota.

**WHEREAS**, Reducing emissions would have a positive impact on the communities that are disproportionately exposed to tailpipe pollution, particularly communities of color and lower-income communities in Minnesota.

**WHEREAS**, In 2019, Governor Walz announced that Minnesota would be joining 14 other states and the District of Columbia in adopting "clean car standards," which are regulations and incentives for the auto industry aimed at reducing pollution and giving customers more choices for low and zero emission vehicles.

**WHEREAS**, There are more makes and models of zero emission vehicles available in states that have adopted the clean car standard than can be acquired in Minnesotans.

**WHEREAS**, The Minnesota Pollution Control Agency (MPCA) has been given the authority by the state through statute 116.70 subd 2(a) to act on reducing emissions in order to protect Minnesota air, water and health. Therefore the MPCA has been directed to lead the rule making process for the clean car standard.

**NOW THEREFORE BE IT RESOLVED** by the City Council of the City of Mahtomedi, Minnesota that the City formally approves the Resolution of Support for the MPCA Rule making to adopt the Clean Cars Standards

Attest: \_\_\_\_\_  
\_\_\_\_\_, City Clerk

\_\_\_\_\_, Mayor

STATE OF MINNESOTA)  
COUNTY OF WASHINGTON) SS  
CITY OF MAHTOMEDI)

**CERTIFICATE OF CITY CLERK**

I, the undersigned duly appointed and acting City Clerk for the City of Mahtomedi do hereby certify that the attached and foregoing Resolution was duly adopted by the Mahtomedi City Council at its Regular Meeting of [month] X, 2021, and as recorded in the Minutes of said Regular Meeting.



WITNESS my hand and seal of said City this X day of [month], 2021.

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City Clerk

## Mahtomedi Sustainability Plan 2021

### 1. Introduction 1.1. Vision

Sustainability is built into Mahtomedi's core vision, "A Vision to Sustain Our Small Town". Mahtomedi residents have strong connections with each other, the natural environment, and the local businesses creating a small-town atmosphere. The community's unique cultural stems from the historic Chautauqua Associations, the Wildwood Amusement Park, streetcar transportation, and summer cottages along White Bear Lake. Mahtomedi is widely recognized for outstanding schools, community celebrations, local businesses, and natural beauty and these "Small Town" qualities are valued by the residents. To sustain this way of life, it is important that future planning and development promote healthy living opportunities, sustainable energy infrastructure, the use of renewable resources, preservation and protection of natural resources, and resiliency practices in decision making throughout the community.

### 1.2. What do we mean by "Sustainability"?

A Sustainability Plan declares a "Vision Towards a Sustainable Future" by taking actions that are ecologically sound, economically viable, and socially just and humane to continue the long-term cultural, ecological, and economic health and vitality of the city and the planet indefinitely.

For this Plan, *sustainability* is based on the principle that everything that we need for survival and well-being depends, either directly or indirectly, on the natural environment. To pursue sustainability is to create and maintain the conditions under which humans and nature can exist in productive harmony to support present and future generations (NEPA 1969).

### 1.3. Why is this important to Mahtomedi?

Commented [RR1]: Ask commission why they want to do this?

### 1.4. What is this Plan meant to accomplish? Plan Approach

Mahtomedi's city staff and dedicated environmental commission have held a long-standing commitment to environmental stewardship within the community, and to efforts that will reduce greenhouse gas emissions and ultimately be a part of the solution for climate change. The Mahtomedi Sustainability Plan was originally adopted in 2011 and has come a long way since then. This Sustainability Plan dives deep into how Mahtomedi will collectively carry out the vision towards a sustainably future. This plan is structured as guidance for how Mahtomedi will become a healthier more sustainable community. This will be achieved by providing direction for the City's environmental priorities. This plan is divided into a series of six sustainability indicators that form a community-wide approach, allowing the City to improve upon all aspects of community life. These indicators provide the foundation for environmental health and include ecological health, energy, water, travel, community, and waste. Climate and resource consumption are overarching topics amongst each of these indicators and are incorporated into each to highlight how climate is influenced throughout.

The Sustainability Plan was created by extracting and integrating a series of past planning efforts that have developed environmental goals for the City. Sustainability goals and strategies were developed through integrating the following plans and programs: Mahtomedi Comprehensive Plan Update 2040, Xcel Energy's Partners in Energy - Energy Action Plan, the 20 actions achieved in Green Step Cities Level 3 certification, The Metropolitan Council resiliency planning tools, recommendations from University of Minnesota undergraduates who completed an assessment for the City, Tree City USA, Mahtomedi Area Green Initiative (MAGI), MN Department of Transportation Safe Routes to School Program, and specific sustainability goals stemming from past efforts.

#### 1.5. How to use this Plan

This Plan is divided into six sections representing the indicators of environmental health. Under each section is an overarching vision and goals to achieve that vision. Only a few goals are listed in detail under each indicator with the intent that they will be the focus of this plan for the next 3 years. New goals will be added to each indicator as prior ones are achieved. The goals are designed to be specific, measurable, achievable, relevant, and timely (SMART). Each indicator also includes ways that the community and local citizens can collectively make progress on these goals. The efforts of everyone, the City government and the citizens, is needed to reach the achievement of the goals.

Each goal in this sustainability plan will be achieved through the following strategy:

- Compile community baseline data.
- Consider barriers to engagement.
- Assess staff and financial resources.
- Identify an implementation strategy for each policy.
- Identify strategies to continually engage the community throughout implementation of each policy.
- Identify communication strategies to notify the community about plan updates.
- Identify possible barriers to implementation and a process for making required changes.
- Include a process to review progress on goals and outcomes.

Commented [RR2]: From Kym's comments

#### 1.6. Time horizon for the Plan

This plan is intended to be a dynamic plan that is continually reworked and updated as the City progresses through and achieves their sustainability goals. In general, the goals outlined in this plan have a 3-year outlook, from planning, to implementation, to achievement. The intent is that after 3 years, the goals and strategies will be updated to replace those that have been completed. Being dynamic, this plan can and will be amended and evolve at any time as new or unforeseen challenges arise. Having flexibility to rework the plan is key to its success for setting and achieving the City's environmental sustainability goals.

#### 2. Climate incorporated into each indicator.

The United Nations climate crisis describes the global threat of the devastating effects of climate change. Rising temperatures are fueling environmental degradation, natural disasters, weather extremes, food and water insecurity, economic disruption, and conflict worldwide. Sea levels are rising, the Arctic is melting, coral reefs are dying, oceans are acidifying, and forests are burning. Billions of tons of CO<sub>2</sub> are released into the atmosphere every year as a result of coal, oil, and gas production. Human activity is producing greenhouse gas emissions at a record high. There has been an international declaration to reach net-zero carbon neutrality by the year 2050. This goal requires that emissions are cut by 50% by the year 2030, and then again in half in 2040 and 2050. In 2019, the Exponential Roadmap was presented to the United Nations Climate Summit proposing 36 solutions to rapidly reduce emissions. The strategies emphasize stronger green policies and low-carbon breakthroughs. The following are presented as solutions for mitigating greenhouse gas emission:

INSERT GRAPH FROM EXPONENTIAL ROADMAP (add citation)

### 2.1. Why climate change matters to Mahtomedi?

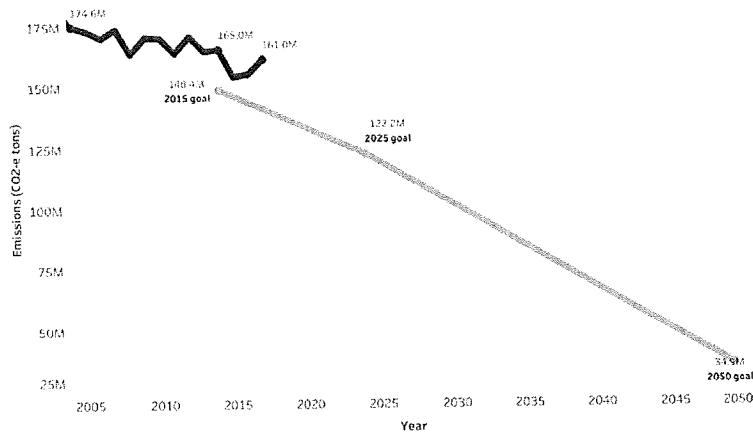
Climate change is apparent in Minnesota and has increased our awareness of how these changes will impact our community into the future. According to the Metropolitan Council, temperatures in the Twin Cities area have increased by 3.2° F between 1951 and 2012 with more high temperature days above 90° F (MPCA). Similar changes have occurred with rain and snow fall, increasing by 5.5 inches and also more frequent heavy rain events causing flooding events or long-term ponding in low areas. Increased temperatures have had affects on the natural ecosystem of the state as well. Warming surface waters has led to significant loss of fish habitat, and heavy rain events combined with surface water runoff is increasing the amount of sedimentation and algae blooms. As our climate warms, northern tree species liked paper birch, quaking aspen, balsam fir, and black spruce may start to die out, with populations moving further north. Warmer-climate tree species, like maples, oaks, and hickories could take their place. These changes in tree cover are accompanied by changes in the understory and soil, meaning that habitat for wildlife is changing along with the trees. The warming trends have also starting to shift the patterns of migratory or hibernating species. Birds are showing up and breeding earlier in the spring and bees and other insects are emerging from hibernation earlier in the season. These patterns are risky for species that are not adjusted to the differences in habitat and food availability and could lead to severe impacts to populations.

At the local level, the human health and economic costs of climate change pose a challenge to our community. Mahtomedi is built upon a historic culture focused on a "small town feel" and the natural landscape where this community was built, along the shore of White Bear Lake. To sustain our small-town historic feel, preserve the lake that we love, the forests at Katherine Abbot Park, our fish and backyard wildlife, clean drinking water, economic health, and viability as a community, Mahtomedi needs to be a leader in the current climate crisis.

## Greenhouse gas emissions data

Total GHG emissions energy	Transportation	Buildings	Industry	Electricity	International	Land use
174.6M	148.4M	165.0M	161.6M	132.2M	34.0M	

Minnesota's GHG emissions 1990-2018 and Next Generation Energy Act goals



<https://www.pca.state.mn.us/air/greenhouse-gas-emissions-data>

### 2.2. Climate baseline and goals

Baseline: [RII BASELINE DATA]

Goals:

- The City will achieve carbon neutrality by 2050.
- 30 percent reduction in energy-related greenhouse gas emissions by 2030 and a 100 percent reduction (carbon neutrality) by 2050.
- 1.4 percent average annual energy savings to reduce consumption 19 percent below the 2016 baseline by 2030.

**Commented [RR3]:** Proposal sent to Scott about joining the Regional Indicators Initiative to have energy and GHG data calculated for the City. This would give a good baseline for where the City is at.

### 3. Direction from the Citywide Comprehensive Plan

#### 3.1. Recap of public engagement

In a 2017 survey of Mahtomedi residents about the quality of life in the community, several questions shed light on residents' priorities on the natural environment. Three-quarters of residents surveyed say that the City protects the environment about the right amount. The most important issues of concern to residents were lake levels, air quality, water quality and littering.

#### 3.2. Comprehensive Plan Goals

Our 2040 sustainability strategies, objectives, and tactics/initiatives are structured using categories identified by the Metropolitan Council's Report on Resilience. Outlined below are four focus areas in the Comprehensive Plan chapter 8, highlighting existing achievements and new approaches:

**Focus Area 1 – Infrastructure and Environmental Assets**

- Water: infrastructure and quality
- Road infrastructure
- Environmental assets: Air, biodiversity, and forests

**Focus Area 2 – Energy Infrastructure and Efficiency**

- Renewable energy infrastructure
- Energy efficiency and conservation

**Focus Area 3 – Healthy Communities**

- Engagement: general, citizens, businesses
- Parks and trails
- Healthy food access
- Walkability/Mobility
- Housing
- Applied creativity and community resilience

**Focus Area 4 – Economy and Society**

- Ideas of well-being and progress
- Race and equity
- Vulnerable populations
- Climate change vulnerability

4. Direction from Green Step Cities  
4.1. Status of city achievements

Mahtomedi reached Step 5 status of the Green Step Cities program in June 2020. Each year the City reports on CORE metrics to show improvements or maintenance of sustainability goals. The CORE metrics for the program include reporting on the following metrics listed in Table X.

**Table X. Green Step Cities Reporting Metrics**

Metric	Unit	2019	2020
<b>Buildings and Lighting</b>			
kBTU per square foot, per year.	kBTU/ft2-year	69.84	
Electricity consumption for all buildings.	kWh/Year	229,276	
Natural gas consumption for all buildings.	Therms/Year	27,645	
Streetlights owned by the city and utility	% LEDs	100%	
Electricity consumption for streetlights and traffic signals.	kWh/Year	78,201	
<b>Transportation</b>			
Average MPG for gasoline fleet	Mpg	8.12	
Average MPG for diesel fleet	Mpg	13.82	
Gallons of diesel consumed.	Gallons/Year	7,039.59	

Metric	Unit	2019	2020
Gallons of gasoline consumed.	Gallons/Year	3,489.35	
Gallons of e85 consumed.	Gallons/Year	0	
City population: vehicle miles traveled per person, per day:	Miles/person/day	10.28	10.65
City employees in single occupancy vehicles: vehicle miles traveled per person, per day – round trip.	Miles/person/day	14.8	
<b>Land Use</b>			
New affordable housing units added as a percent of all new housing units	%	12.5	0
<b>Environmental Management</b>			
Net number of new trees planted	Number of trees	5%	
Assessment number from the Green Step Municipal Stormwater Management Assessment	%	3.30	
Climate Adaption Stormwater Score	%	NA	
Residential gallons used per person per day	Gallons/person/day	53.47	
Business gallons used per job per day	Gallons/job/day	11.31	
Annual city operations gallons: summer (June-October)	Gallons/year	1,811,656	
Annual city operations gallons: non-summer (November-May)	Gallons/year	581,944	
Percent of annual losses in drinking water system	%	13%	
Annual electricity used to treat and distribute water	MWh/Year	74.23	
Annual natural gas used to treat and distribute water	Therms/year	1,546	
Ratio of Inflow and Infiltration volume to total volume entering the wastewater collection system.	I&I:Total Volume	5	

Metric	Unit	2019	2020
Economic and Community Development			
Number of city-owned and private renewable energy generation sites.	Number of sites	16	
Generation capacity of city-owned and private renewable energy sites	kW	73.5	
Storage and off-grid capacity of renewable energy, generated by city-owned and private renewable energy sites.	kW	NA	
Annual production at city-owned renewable energy generation sites.	MWhr/year	0	
Annual renewable energy purchases for city operations.	MWhr/year	554.087	
Number of local food venues	Number of venues	3	

5. Indicators

5.1. Ecological Health (topics: wildlife, trees, restoration and preservation, pollinators)

5.1.1. Overarching goal

Sustain a healthy ecosystem that supports a balance between native species, sensitive ecological resources, and our human population.

5.1.2. Existing conditions, issues, and targets

5.1.3. **Goal 1:** Establish 1,600 linear feet of un-mowed native vegetated buffer strips adjacent to wetlands on public and private lands.

5.1.3.1. Strategies to meet SMART goal 1.

5.1.4. **Goal 2:** Complete a City-wide Natural Resources Inventory.

5.1.4.1. Strategies to meet SMART goal 2.

5.1.5. **Goal 3:** Increase areal tree cover to 35% by 2025 and XX% by 2040, and increase tree diversity by establishing at least 4 different species of tree per year.

5.1.5.1. Strategies to meet SMART goal 3.

- Provide education and training on tree care for residents.
- Explore incentives, programs, and requirements for new development or redevelopment to retain mature trees, replace lost trees, and plant more trees in none were originally on site.

**Commented [RR4]:** I did a very rough calculation that there are approximately 32,000 linear feet of wetland edges that need/could have buffer establishment in the City. 1,600 is 5% of this total.

**Commented [RR5]:** Current tree canopy is 31.2% of city according to: <https://www.arcgis.com/home/webmap/viewer.html?webmap=e3d71d9cbb5e4a6cbe39cc48aa49c582>

May try to have GIS run a calculation to see how much of the city is impervious & water, in order to get a better idea about how many trees we should aim to plant. One medium tree is approx. 900 sq. ft. areal coverage.

**Commented [RR6]:** We should run this by Steve to see what he thinks is a reasonable number.



5.1.6. Community action items to achieve ecological health goals (actions the community can do to help reach the goals).

- Collect and plant native seeds.
- Plant native plants on your property such as trees, flowers, and grasses.
- Adopt a local street or trail to clean up trash.
- Monitor wildlife in your yard.
- Control weeds on your property.

5.1.7. Timing

5.1.8. Future goal considerations (what's in the hopper)

5.2. Energy (topics: consumption, renewable energy, green buildings)

5.2.1. Overarching goal

5.2.2. Existing conditions, issues, and targets

5.2.3. SMART goal 1

5.2.3.1. Strategies to meet SMART goal

5.2.4. SMART goal 2...

5.2.5. Community action items to achieve energy goals (actions the community can do to help reach the goals)

5.2.6. Timing

5.2.7. Future goal considerations

5.3. Water (topics: water quality, water infrastructure, reuse projects)

5.3.1. Overarching goal

5.3.2. Existing conditions, issues, and targets

5.3.3. SMART goal 1

5.3.3.1. Strategies to meet SMART goal

5.3.4. SMART goal 2...

5.3.5. Community action items to achieve water goals (actions the community can do to help reach the goals)

5.3.6. Timing

5.3.7. Future goal considerations

5.4. Travel (topics: road infrastructure, trails, walkability/mobility)

5.4.1. Overarching goal

5.4.2. Existing conditions, issues, and targets

5.4.3. SMART goal 1

5.4.3.1. Strategies to meet SMART goal

5.4.4. SMART goal 2...

5.4.5. Community action items to achieve travel goals (actions the community can do to help reach the goals)

5.4.6. Timing

5.4.7. Future goal considerations

5.5. Community (topics: engagement, housing, gardening, local food, race and equality)

5.5.1. Overarching goal

5.5.2. Existing conditions, issues, and targets

5.5.3. SMART goal 1

5.5.3.1. Strategies to meet SMART goal

5.5.4. SMART goal 2...

5.5.5. Community action items to achieve community goals (actions the community can do to help reach the goals)

5.5.6. Timing

5.5.7. Future goal considerations

5.6. Waste (solid waste, composting, yard waste)

5.6.1. Overarching goal

Commented [RR7]: Include MAGI safe routes to school goals.

5.6.2. Existing conditions, issues, and targets

5.6.3. **Goal 1:** Increase community composting of food and yard waste.

5.6.3.1. Strategies to meet SMART goal 1

5.6.4. **Goal 2:** Develop policy to prohibit single-use or disposable products whenever possible.

5.6.5. **Goal 3:** Recycle 50% of citywide waste by 2025.

5.6.6. Community action items to achieve waste goals (actions the community can do to help reach the goals)

5.6.7. Timing

5.6.8. Future goal considerations

6. Supporting the Plan

6.1. Staff and community involvement

6.2. Funding and resources

7. Progress review

7.1. Three-year targets

7.2. 1-3 year priority projects

8. Conclusion and Work Plan

#### References

National Environmental Policy Act of 1969 § SECTION

MPCA <https://www.pca.state.mn.us/air/effects-climate-change-minnesota>

Commented [RR8]: How much is currently recycled?  
Asked Bob G.

DRAFT