City of Minneapolis – Sustainability

October 31, 2018



Overview

Local foods
Climate change and clean energy
Environmental justice
Climate resilience

Local Food Systems Policy

Minneapolis Food Council
 Urban Ag and Garden Lease Program
 Farmers' Markets of Minneapolis

Minneapolis Food Council

The Homegrown Minneapolis Food Council envisions a vibrant local food system that enhances the health of all residents, protects the earth, increases economic vitality, expands social connectedness, and improves food security.



Urban Agriculture and Garden Lease Program

- Leasing vacant City lots to local gardeners
- Garden in a Box program
- Promote community garden composting
- Support food infrastructure development and continued innovation in Minneapolis food system



Farmers Markets of Minneapolis

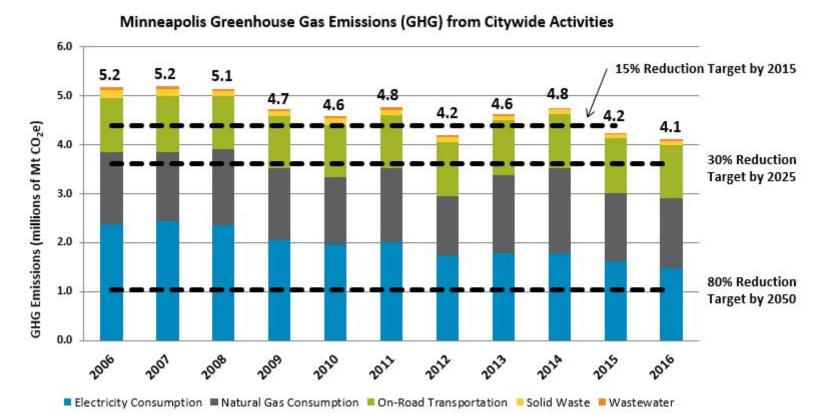
- USDA funded metrics project
- Marketing campaign with Minneapolis markets
- Supporting vendor training



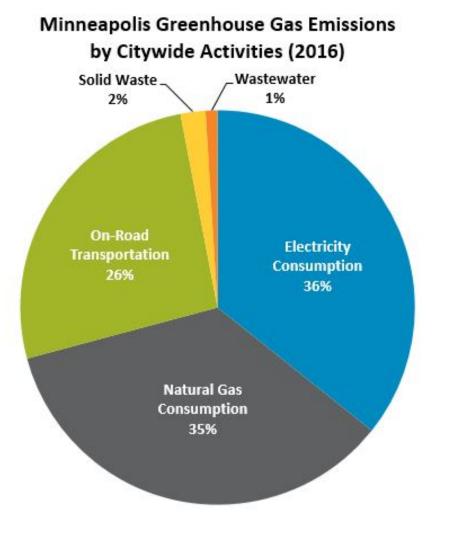
Climate Change & Clean Energy

- 1. City goal: 80% carbon emissions reduction by 2050.
- 2. Climate Action Plan (2013)
- 3. Clean Energy Partnership with Xcel and CenterPoint (2015)
- 4. Municipal Operations
- 5. Commercial Building Energy Benchmarking
- 6. New Initiatives

Minneapolis Community GHG Reduction Targets



Minneapolis Greenhouse Gas Emissions by Citywide Activities



A Minneapolis Climate Action Plan

A roadmap to reducing citywide greenhouse gas emissions

May 2013



Goal: Reduce greenhouse gas emissions 15% by 2015 and 30% by 2025 (2006 baseline)

Large year-long stakeholder process to develop recommendations

Council adopted June 2013

Implementation underway

Clean Energy Partnership

Franchise Fee

Increased .5% in 2018 to support sustainability activities

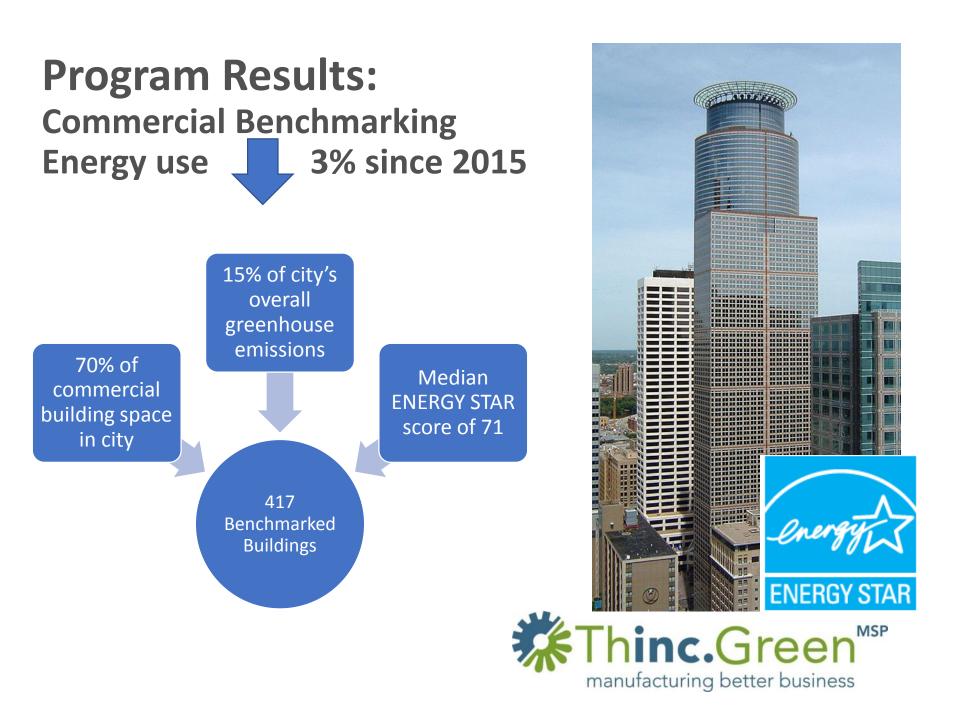
Clean Energy Agreements

 Develop workplan activities that support the implementation of the Minneapolis Climate Action Plan



Existing Programs

- Green Business Cost Share for businesses
- No cost home energy assessments
- 0% financing for insulation and air sealing
- Workforce development assessment
- ETAP: Minneapolis small business energy efficiency
- Commercial benchmarking
- EV charging station pilot
- LEED certification for public buildings



Program Results



\$19 million in EE for heating, electricity, steam, & chilled water of city buildings



Expanded Bike Paths



Electric Vehicle charging stations



Convention Center – 2600 solar panels (600 kW)



LEED Platinum Public Works facility



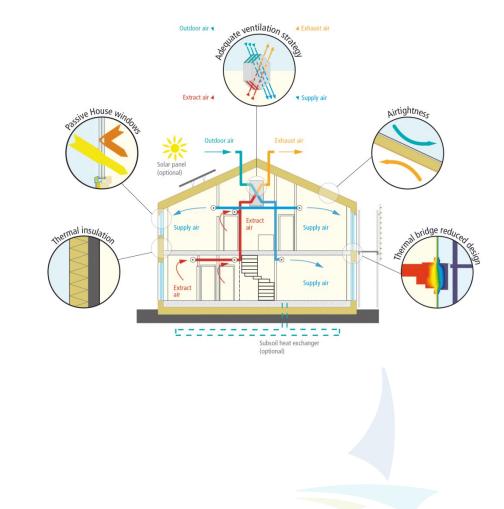
Target Center Green roof

New Programs

- Bloomberg American Cities Climate challenge
- Residential energy disclosures
- Blueprint for 100% renewable electric
- Passive House Pilot
- Upper Harbor Terminal
- Community Solar Gardens: focus on low income
- Electric Vehicles in City Fleet
- Plant-Based Diets
- City wide solar strategy
- Mobility Hub and mobility as a service

Passive House

- Passive House standard
 - Continuous insulation
 - Airtightness
 - Thermal bridging
 - High performance windows
 - Mechanical heat recovery
- Reduced carbon emissions



Upper Harbor Terminal



- Large space: opportunities to address environmental topics
 - District energy and community solar
 - Stormwater management
 - Low carbon emissions

Electric Vehicle Infrastructure

- EV charging capability at multiunit buildings
 - Attractive to potential buyers
 - Can provide LEED points to the property
 - Can be marketed and will enhance the "green" image of the property
- EVs have fewer life cycle emissions than regular gasoline cars, and that number can be lowered further by using renewable electricity sources.
- Majority of new cars sold in 2025 will be EVs or PHEVs



Photo: mprnews.org



Plant-Based Diets

- Eating a plant based diet can reduce a carbon footprint by 35% compared to a meat eater. Even just going meatless two days a week could reduce a footprint by 15%.
- Mayor Frey signed proclamation encouraging efforts to eat a plant based diet.

Proclamation WHEREAS, following the United States withdrawal from the Paris Agreement, cities are increasingly turning toward climate change solutions that are driven by citizens; and WHEREAS, concern for the environment is paramount for the residents of Minneapolis and for the safety of our communities; and WHEREAS, communities are finding alternative ways to decrease carbon footprint and set carbon reduction goals; and WHEREAS, eating more fruits, vegetables and grain, and eating less meat can reduce our collective carbon footprint; and WHEREAS, if each American affirmatively chose to eat plant-based foods at just one meal per week, the CO2 savings would be the same as taking more than half a million cars off U.S. roads; and WHEREAS, a commitment in Minneapolis to eat even one meal containing fruits and vegetables will bring enormous environmental benefits. NOW, THEREFORE, I, Jacob Frey, Mayor of the City of Minneapolis, do hereby proclaim on July 16, 2018, we all make an effort to eat plant-based food and choose plant-based products in furtherance of our environmental goals, and celebrate our ongoing commitment to exceed the standards put forth in the Paris Agreement by doing our part right here in Minneapolis. Mayor of Minneapolis

Community Solar Gardens

- Benefit from solar energy without installing a system on your home or business.
- Xcel customers can purchase up to 120% of their annual electricity usage.
- Subscriptions can be donated to children/nonprofit organizations

Solar PV panels are installed in sunny locations to produce renewable electricity

> Individual entities can subscribe to enough solar to cover up to 120% of their annual electricity usage

Each subscriber's utility bill is credited with the electricity created by their share of the solar garden

Image: Clean Energy Resource Teams

Environmental Justice and Climate Resilience

1. Green Zones

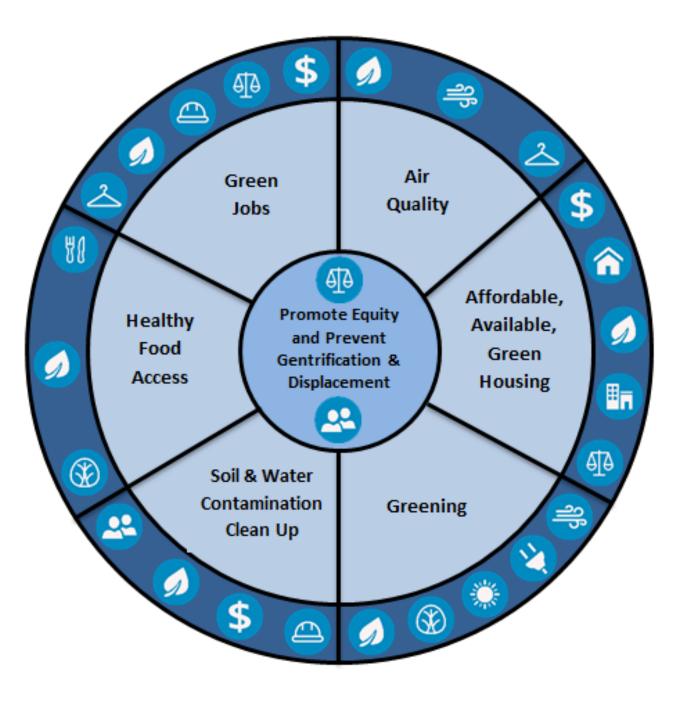
2. Climate Change Vulnerability Assessment

What is a Green Zone?

 Place-based policy initiative aimed at improving health and supporting economic development using environmentally conscious efforts in communities that face the cumulative effects of environmental pollution, as well as social, political and economic vulnerability.



Goals



Green Zone Progress 2018

Southside Green Zone

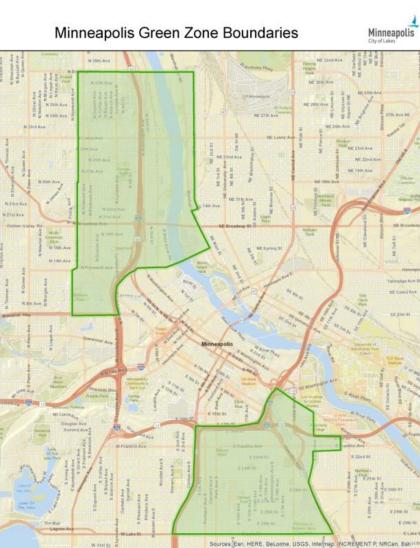
• Recruiting for new SouthSide Green Zone Council to implement Work Plan

Northside Green Zone

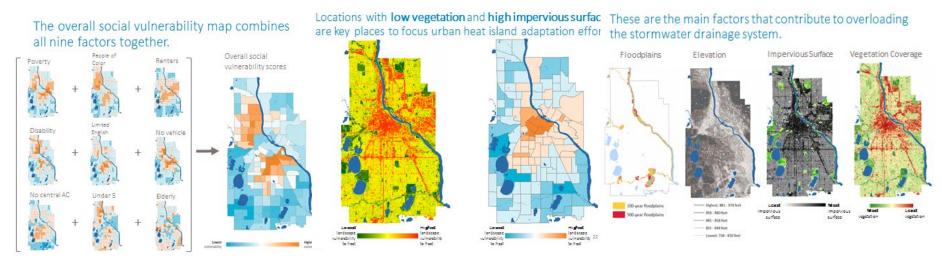
- Northern Metals Consent Decree Advisory Committee/ Northside Green Zone Task Force
 - In partnership with Health Department and Community Action Partnership of Hennepin County

Concerns/Opportunities

- Shift from business as usual
 - Transformational not transactional
 - Targeting resources (program outreach, engagement, funding)
 - Change system how priorities are made, who decides, who benefits, who owns



Climate Change Vulnerability



- Mapped populations that are inherently more vulnerable
- Mapped cumulative social vulnerability
- Mapped urban heat island effect
- Identified opportunity areas: high impervious surface and low vegetation
- Mapped factors that contribute to flooding
- Mapped low-elevation areas prone to flooding

Things you can do to make a difference

Shop at Farmers markets

- Enjoy a plant based diet twice a week
- Participate in a community solar garden and purchase up front subscription
- Encourage your condo associations to implement EV charging infrastructure.

Thank you!

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