

Alliance for Sustainability
 Metro Workshop for Cities with the MN EQB & MN Compass
Planning for Resilient Cities

Monday October 24, 2016

Wilder Foundation 451 Lexington Pkwy N, St Paul, MN 55104

1:00 to 4:00pm - **City Staff Workshop**

5:00 to 6:00pm - **Networking Reception**

6:00 to 8:30pm - **Community Workshop**

www.allianceforsustainability.com/sustainablecommunities



Event Facilitator: Sean Gosiewski,
 Alliance for Sustainability,
 612-250-0389 sean@afors.org

Co-sponsors - Alliance for Sustainability, MN EQB, Wilder Fdn, Headwaters, Bush & McKnight Fdns, Bolton & Menk, CEE, EOR Inc., Ever-Green Energy, Eutectics, GPI, LHB Corp., OneMN.org, TLC, U of MN Design Center, Energy Transition Lab, RCP



1:00 to 4:00pm - Workshop for City Staff – on how to get more out of your Comprehensive Plan

- 1:00pm – **Welcome from MN Compass & how to access data sets on equity & health**
- **Meeting our state climate goals** – Climate Solutions & Economic Opportunities – 1pm Will Seuffert, MN EQB, 6pm Ellen Anderson, U of MN Energy Transition Lab
 - 1:30pm – **Resource groups will share updates** on their comp plan resources for cities
 - **Energy Planning** - Tapping your communities’ energy resources to meet CO2 reduction goals and strengthen your local economy. Brian Ross, Abby Finis GPI
 - **Transportation & Land use** for vital low-carbon communities, including transit oriented development - Jim Erkel, MCEA, Dave VanHattum, TLC
 - **Adaptation Planning** – preparing your city’s infrastructure & residents to be ready for extreme weather – Laura Millberg, MPCA, Leslie Yetka, Fresh Water Society
 - **Planning for Health, Equity & Economic Vitality** – for all residents - Dr. Bruce Corrie, Bruce Buckner – ONE MN, Nadja Berneche – Blue Cross/ Terra Soma
 - 2:30 pm – **Small Group Topic Conversations with your peers from other cities to explore ways to develop vision statements, goals and strategies for your city**
 - 3:30 pm - **County Break Outs** – Meet County resource people & plan to meet in 2017.

5:00pm to 6pm – Reception and networking time with food sponsored by local businesses

6:00 pm to 8:30 pm – Community Workshop on how to get more out of your Comprehensive Plan

- 6:15pm – **Welcome from MN Compass & how to access data sets on equity & health**
- 6:30pm – **Resource groups will share updates** on their comp plan resources for cities
- 7:30 pm – **Small Group Topic Conversations with your peers from other communities exploring how you can support your city to include Energy, Adaptation, Transportation/Land Use, Health/Equity themes in your comp plan**
- 8:00 pm - **County Break Outs** – Meet County resource people & plan to meet in 2017.

Your City is invited to join a Resilient Cities Cluster

To learn more and sign up to participate – Please visit www.allianceforsustainability.com/resilient-cities or contact

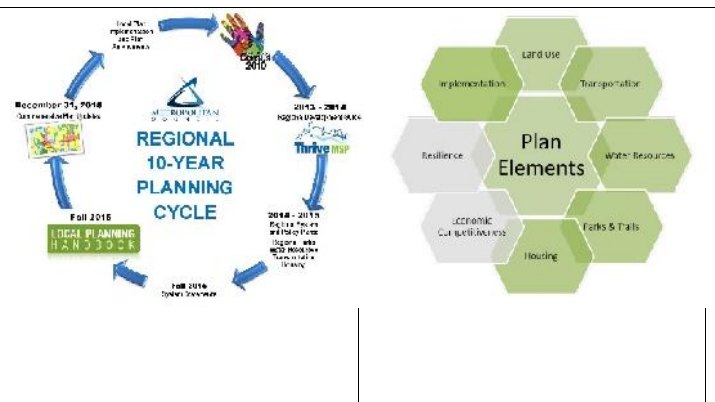
Sean Gosiewski, Executive Director, Alliance for Sustainability, 612-250-0389
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Spring and Fall 2017 – Resilient Cities Clusters – we will support 50 metro cities to share their draft comprehensive language in groups of 5 to 8 cities in **Anoka, Carver, Dakota, Hennepin, Ramsey, Scott** and **Washington Counties**. In 2017 The Alliance for Sustainability will work closely with our county and nonprofit resource partners, watershed districts and utilities to convene interested **city staff & commission** volunteers in each county to meet together two times in 2017 as they write their resilience sections of their comprehensive plans (including energy, adaptation and health/equity/economic vitality) to

- **Share and compare draft plan language, goals and strategies**
- **Connect with resources to map existing conditions**, energy usage, climate vulnerabilities, health, etc.
- **Learn from cities that have developed energy action plans & implementation strategies** through **Xcel’s Partners in Energy, LoGoPep the Mayors Compact, MN GreenSteps** or to help meet our MN CO2 reduction goals.
- **Develop implementation strategies** for their comprehensive plans including identifying new funding sources, quality technical advisors, community and business engagement strategies, benchmarking and tracking results
- We will then contribute **case studies** that other cities can benefit from to the **local planning handbook**
<http://metro council.org/Handbook/Plan-Elements/Resilience.aspx>

In July 2016 the **Minnesota Environmental Quality Board** released the updated MN Climate Action Plan - **Climate solution and Economic Opportunities** – to get our state back on track to achieve our goals to reduce CO2 economy wide 30% by 2025 and 80% by 2050. The EQB is co-hosting our October 24 workshop to give cities practical strategies they can include in their Comprehensive Plans to do their part to help Minnesota continue being a leader in achieving the ambitious CO2 reduction goals adopted by the State of MN and through the U.N. Paris Climate Accord in December 2015. www.eqb.state.mn.us/content/climate-change



Our Anoka County Workshop, January 2016

Speaker & Sponsor Contacts - Planning for Resilient Cities - October 24, 2016

Workshop Host and Facilitator

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MN EQB

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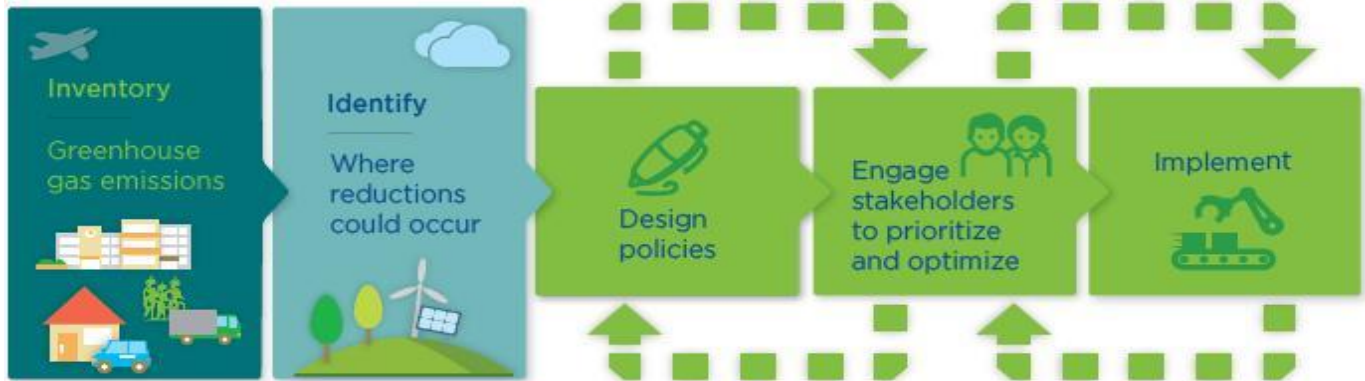
MN GreenStep Cities www.mngreensteps.org Philipp Muessig, MPCA, 651/757-2594 Philipp.muessig@state.mn.us

Youth Engagement

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Sheridan, Organizer megan@imatteryouth.org www.imatteryouth.org

Climate Planning



Our MN State CO2 Reduction Goals and Progress - Minnesota's Next Generation Energy Act of 2007 calls for cutting the state's greenhouse gas emissions to 15 percent below 2005 base levels by 2015, **30 percent by 2025, and 80 percent by 2050.**

- **Despite reduction efforts, Minnesota missed the 2015 goal & will miss the 2025 goal without additional work.**
- To support and augment statewide efforts, *Minnesota needs its cities, townships, and counties to take targeted action* to reduce emissions within their community and **drive change** at the **local** and **state** level.

See our progress on achieving our CO2 reduction goals www.pca.state.mn.us/air/greenhouse-gas-emissions-minnesota-0

In July 2016 the **Minnesota Environmental Quality Board** released the updated **MN Climate Action Plan - Climate solution and Economic Opportunities** – to get our state back on track to achieve our goals to reduce CO2 economy wide 30% by 2025. Let's help Minnesota continue being a leader in achieving the ambitious CO2 reduction goals adopted by the State of MN and through the U.N. Paris Climate Accord in December 2015.

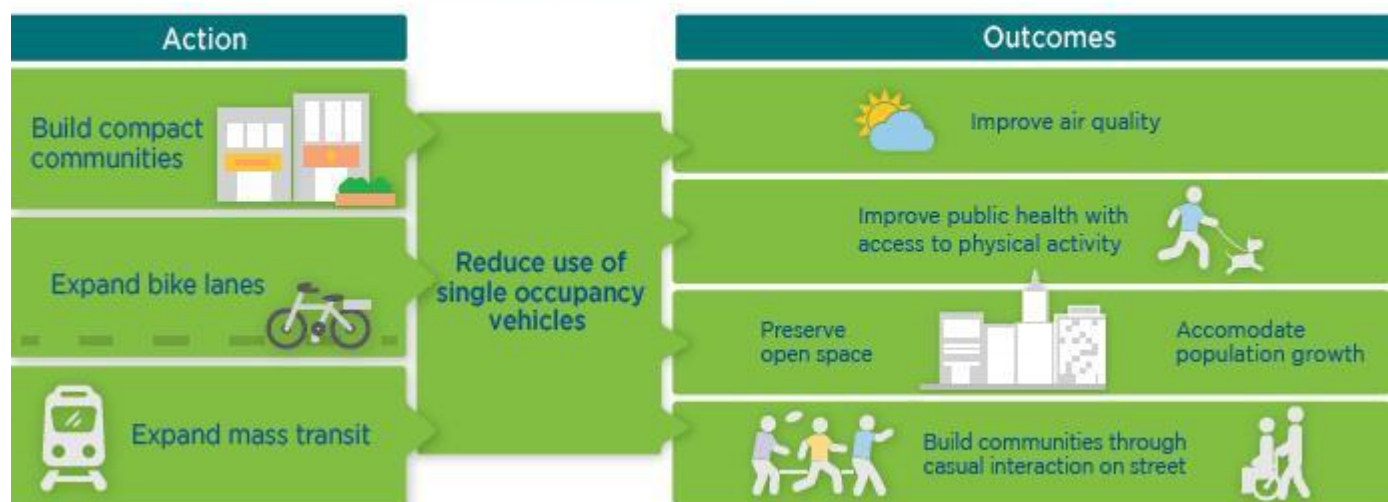
www.eqb.state.mn.us/content/climate-change

1) **Climate Strategies Report 2016** (5 MB) https://www.eqb.state.mn.us/sites/default/files/documents/CSEO_EQB.pdf

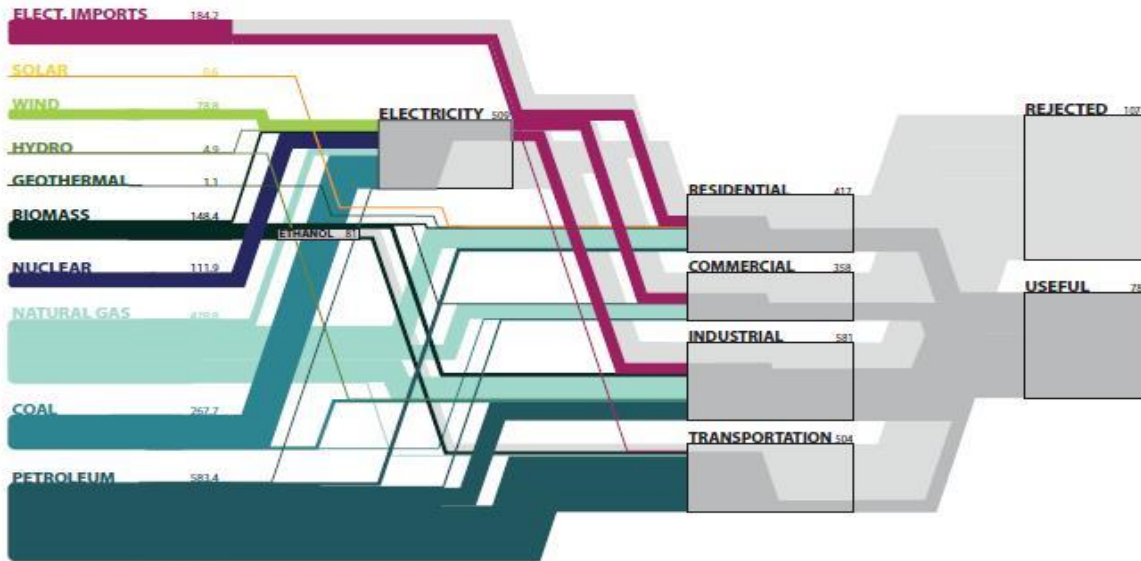
2) **CSEO Policy Option Documentation** (55 MB)

<https://www.eqb.state.mn.us/sites/default/files/documents/CCS%20Appendix%20with%20policy%20details%20and%20results.pdf>

Reducing greenhouse gas emissions in our communities

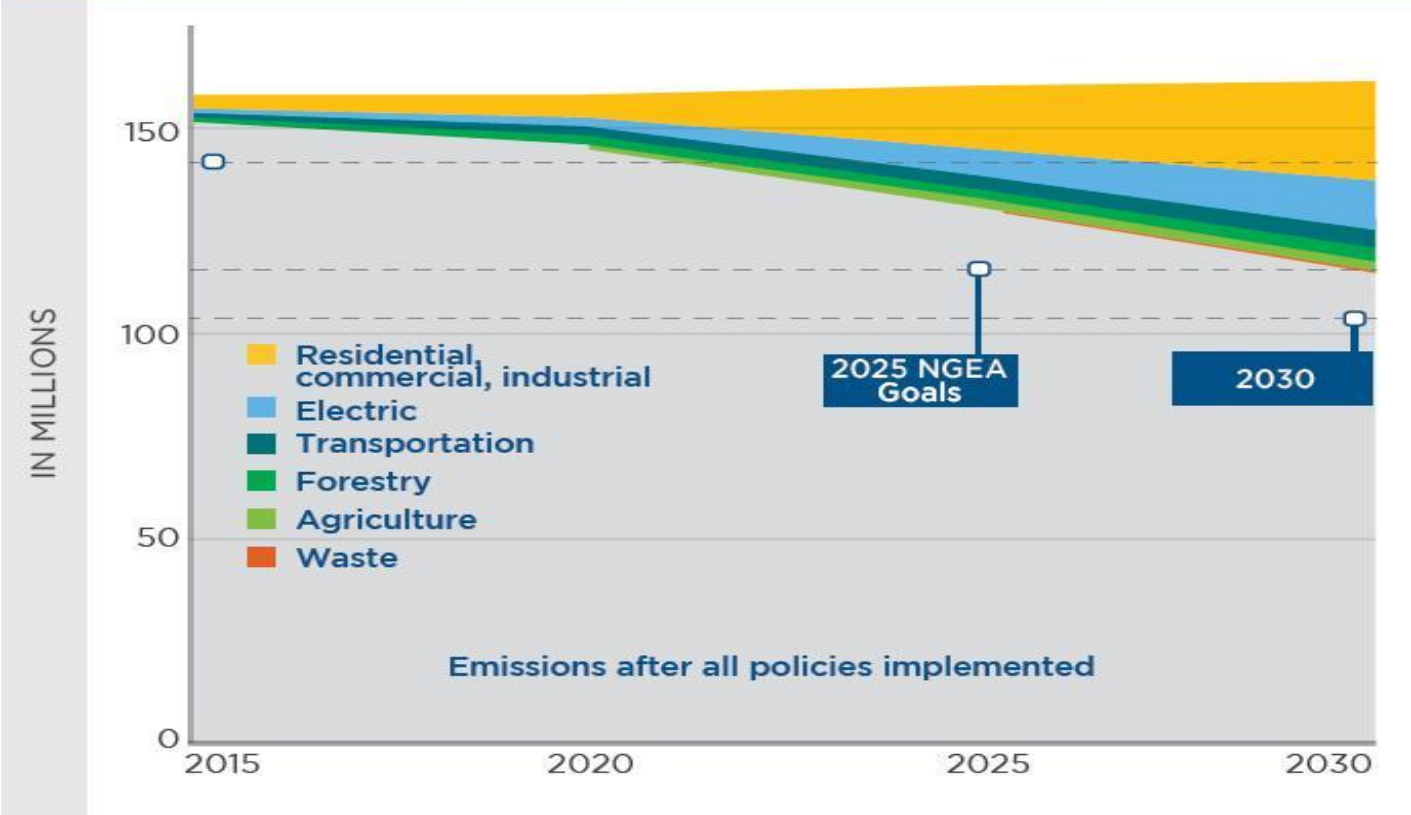


ESTIMATED MINNESOTA ENERGY USE IN 2013
1860 TRILLION BTU



LHB Data Source: U.S. Energy Information Administration, State Energy Data System (SEDS) 1960-2011, July 2013. End use efficiency is estimated as 65% for the residential and commercial sector, 80% for the industrial sector, and 29% for the transportation sector.
 Acknowledgments: The information, data, or work presented herein was funded in part by the Office of Energy Efficiency and Renewable Energy (EE), U.S. Department of Energy, under Award Number DE-EE0006085. The graphic format is inspired by the energy flow charts produced by Lawrence Livermore National Laboratory for the Department of Energy.
 Disclaimer: The information, data, or work presented herein was funded in part by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

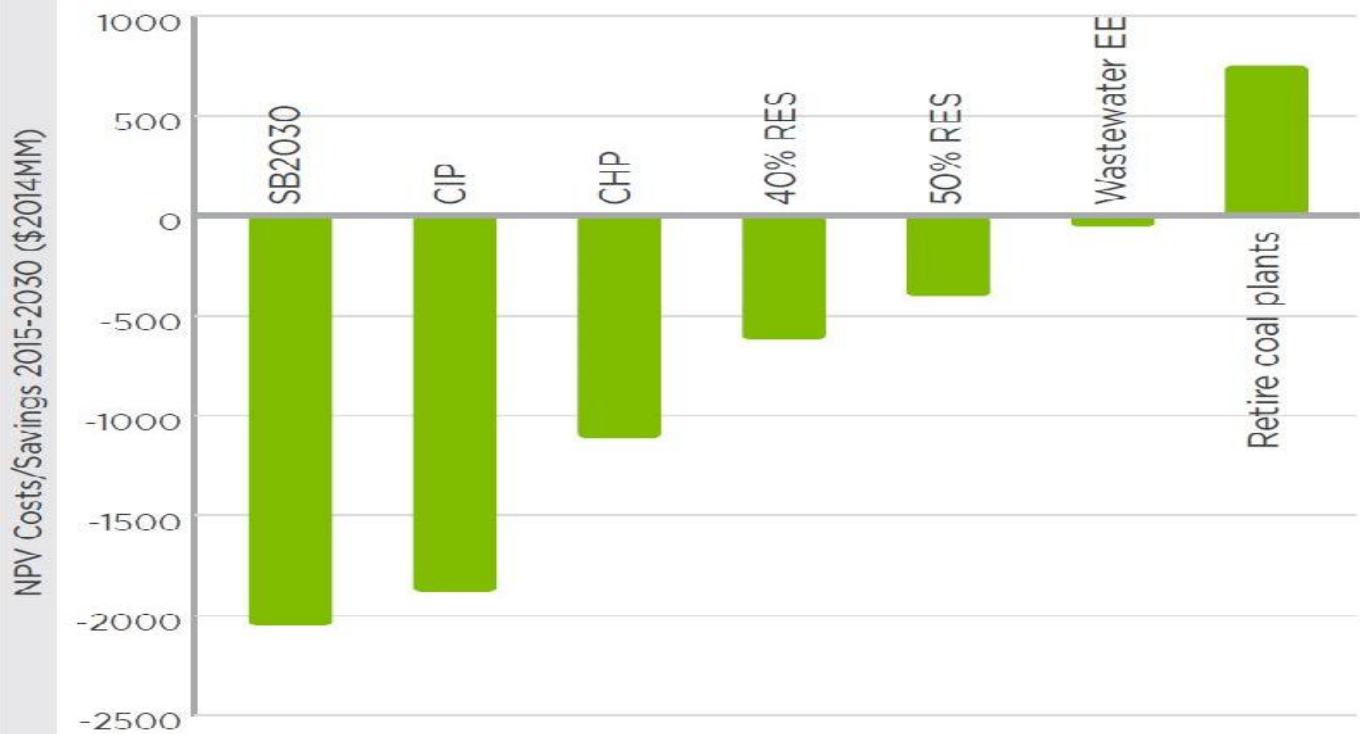
Emissions reductions from CSEO policy options (CO₂-e short tons)



Immediate Action – These policies result in immediate reduction of greenhouse gas emissions. They account for 64 to 79% of the emissions reductions that could be made between now and 2030. All the immediate action policies focus on the electric sector.

Policy options	2030 annual in-state GHG reduction (CO ₂ e-tons)	% Reduction towards 2030 target	NPV costs/savings 2015-2030 (\$2014MM)	Average annual employment (full- and part-time)
Increase the renewable electricity standard to 50%	14	27	-404	1,820
Increase the renewable electricity standard to 40%	8	15	-620	1,510
Retire and repower coal plants	7	13	752	310
Increase energy efficiency requirements 2.5%	5	10	-1,882	1,560
Increase energy efficiency requirements 2%	4	7	1,272	N/A
Combined heat and power (CHP)	5	10	-1,112	2,330
Zero energy building codes (SB2030)	10	19	-2,050	2,750
Wastewater treatment facilities energy efficiency	0.07	0.14	-56	80

NPV Costs/Savings 2015-2030 (\$2014MM)



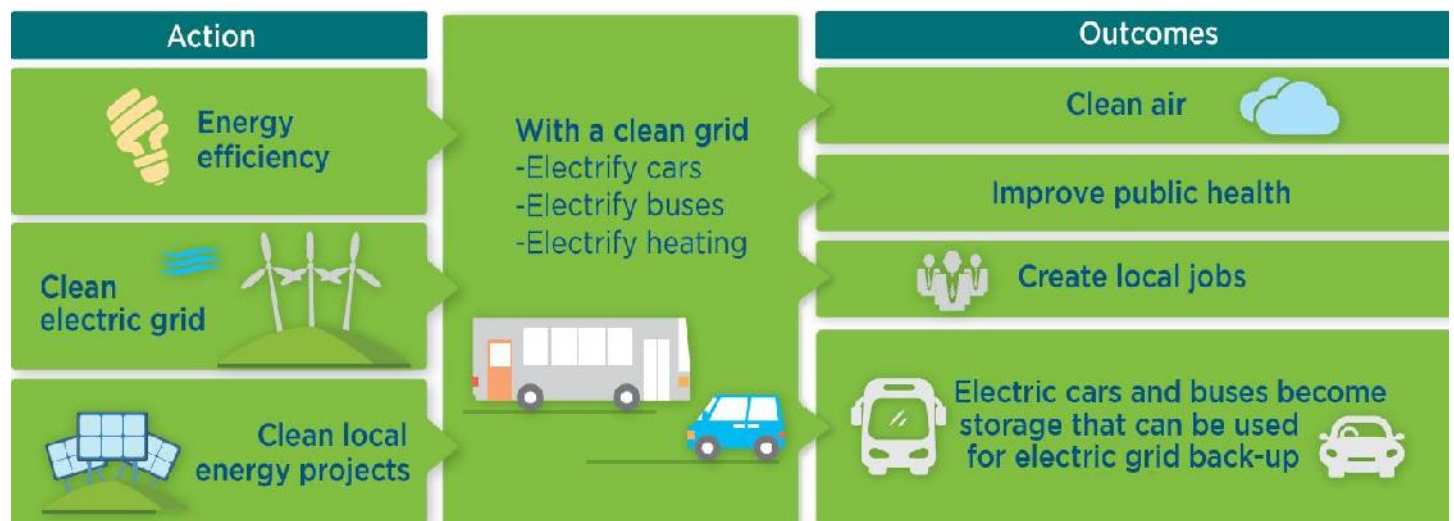
Long Term Strategies to Start Now

Long-term Strategies – These policies are critical for reaching Minnesota’s 2050 goals, but they require more time for development. Generally, these policies reduce the use of single-occupancy internal combustion vehicles and protect or increase carbon stores in soils and trees.

Policy options	2030 annual in-state GHG reduction (CO ₂ e-tons)	% Reduction towards 2030 target	NPV costs/savings 2015-2030 (\$2014MM)	Average annual employment (full- and part-time)
Transit and multimodal travel	0.28	1	-330	450
Compact development in urban areas	1	2	-425	220
Electric vehicles on 100% renewable energy	1	3	3,000 *	-1,220
Community and urban forests	1	1	1,806	4,180
Forest health	2	4	187	-210
Increased conversion of row crops to perennial crops	2	3	-2,104	-490
Increased use of cover crops	1	1	-1,346	230
Re-use, composting, and recycling	0.17	0.31	-817	2,750
Source reduction	0.06	0.12	-277	60

*assumes little change in the price of an electric vehicle

What could 2050 and 80% greenhouse gas reduction look like?



MN Background - Resilience & Climate Mitigation and Adaptation –

- In 2007 the State of MN adopted a goal to reduce CO2 emissions by 80% by 2050 – passed by the Legislature, signed by Gov. Pawlenty www.house.leg.state.mn.us/hinfo/newlawsart2007-0.asp?storyid=608
- We are not on track to meet this goal www.mprnews.org/story/2015/02/06/climate-change-enough
- Track our MN State progress on achieving our CO2 reduction goals www.pca.state.mn.us/air/greenhouse-gas-emissions-minnesota-0
- Governor Dayton is making it a priority to get back on track to meet this goal www.eqb.state.mn.us/sites/default/files/documents/EQB%20Climate%20Change%20Communications.pdf
- The MN EQB has created great strategies for cities to mitigate and adapt to climate change - CLIMATE SOLUTIONS AND ECONOMIC OPPORTUNITIES www.eqb.state.mn.us/content/climate-change
- The Metropolitan Council has adopted the State’s climate action goals as part of our THRIVE MSP regional vision. www.metrocouncil.org/METC/files/ee/ee4d94c3-0c0a-42d0-b9d5-8bde8512b571.pdf
- Cities can now help MN achieve its climate change mitigation and adaptation goals by including CO2 reduction plans & climate resilience plans as part of their comprehensive plan updates <http://metrocouncil.org/Handbook/Plan-Elements/Resilience.aspx>

Percent of achieving 2030 goal



Adaptation



Minnesota and Climate Change – Our Tomorrow Starts Today Our climate is changing—and Minnesota is responding. By developing cleaner energy. Lowering emissions. Protecting our water and air. We're making changes today, and looking forward to a bright tomorrow. Download the report.

www.eqb.state.mn.us/content/climate-change

MN Green Step Cities Best Practice 29. Climate Adaptation and Community Resilience: Plan and prepare for extreme weather, adapt to changing climatic conditions, and foster stronger community connectedness and social and economic vitality. <http://greenstep.pca.state.mn.us/bestPractices.cfm>

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Metropolitan Council Local Planning Handbook- Resilience

<https://metro council.org/Handbook/Plan-Elements/Resilience.aspx>

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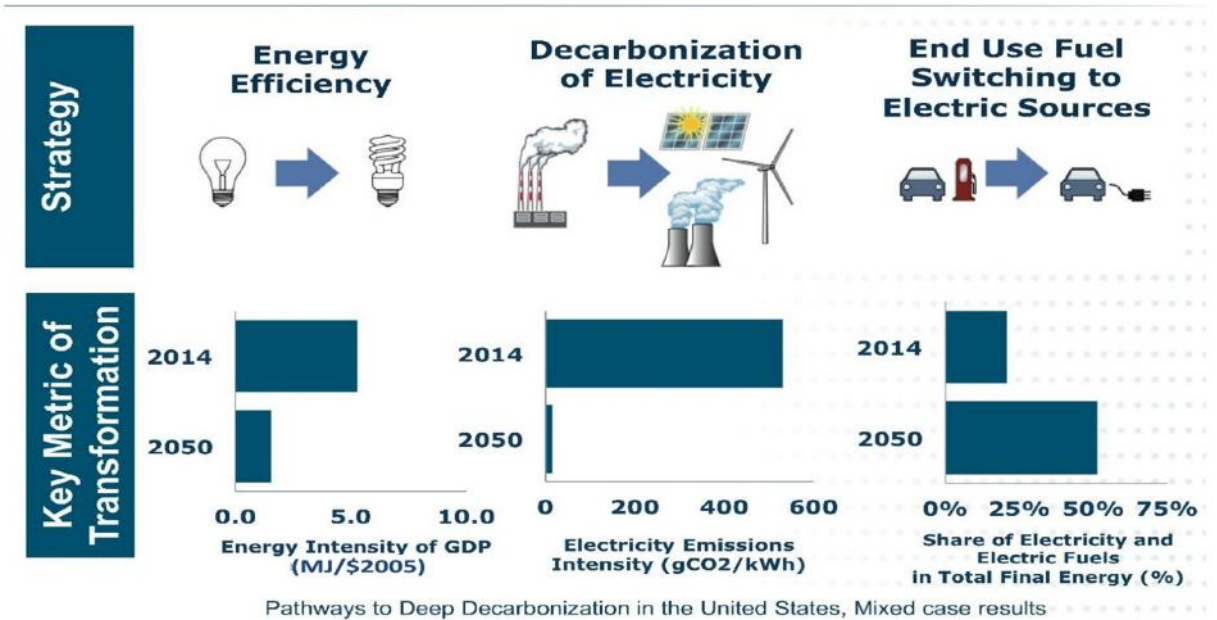
This section provides resources for communities working to integrate strategies into local comprehensive plans to be more resilient in the face of a changing climate. As communities adjust to increasingly extreme weather events, stress on public facilities, and higher costs of services, there is growing need to not only plan for these events, but to also reduce the impacts through conscious climate adaptation and resilience planning. Moreover, resiliency also considers reducing green house gas (GHG) emissions so that the extent of climate change does not exceed the capacity to adapt and become resilient.

City Examples

Fort Collins/ RMI http://blog.rmi.org/blog_2015_03_04_fort_collins_approves_accelerated_climate_target

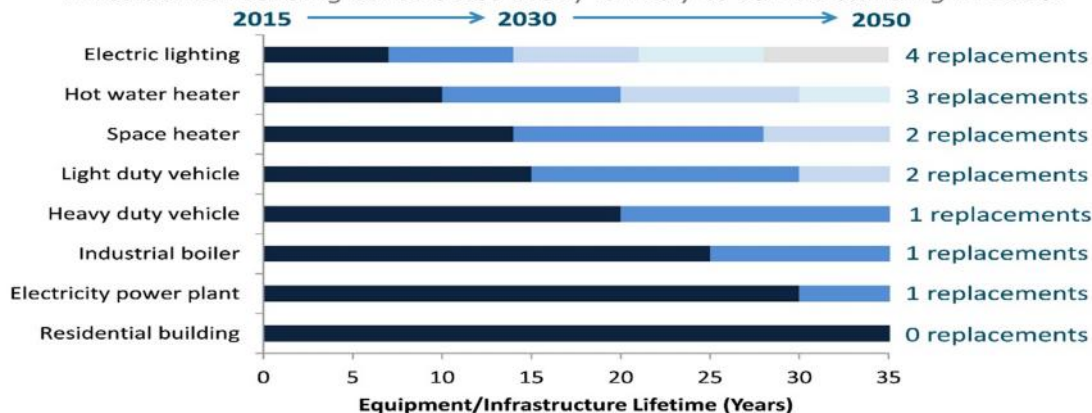
Minneapolis <http://www.minneapolismn.gov/sustainability/climate/> Siemens Study for Minneapolis <https://w3.siemens.com/topics/global/en/sustainable-cities/Documents/Siemens-CyPT-City-Performance-Tool.pdf>

Three Pillars of Deep Decarbonization Required in All Cases



Long Equipment Lifetimes on Supply and Demand Side of Energy System

- A car purchased today is likely to be replaced at most 2 times before 2050.
- A residential building constructed today is likely to still be standing in 2050.



Resilience & Sustainability Planning Resources for Comprehensive Planning

Alliance for Sustainability Resource Page – Resilience Planning Resources

www.allianceforsustainability.com/resilienceplanningresources

Find for new resources on line at

Local Planning Handbook - Resilience Planning – with great resources to get more out of your comprehensive plan Resilience Plan - Infrastructure and Environment, Energy Infrastructure and Resources, Healthy Communities and Economy & Society. <http://www.metrocouncil.org/Handbook/Plan-Elements/Resilience.aspx>

PlanIt the Metropolitan Council's effort to provide educational opportunities for the 2040 comprehensive plan update process. <https://metrocouncil.org/Handbook/PlanIt.aspx>

PlanIt includes webinars, workshops, seminars, and conferences. We are also expanding the Local Planning Handbook's online resources with a series of online tutorials and expert articles on all things related to comprehensive planning. The 2016 program will focus on the basics and the 2017 program will focus on topics that help you get more out of your plan.

Webinar - Comprehensive Planning for Solar Energy Systems

Thursday, November 10, 2016 12:00 – 1:30 PM Presented by Eric Wojchik and Brian Ross

www.metrocouncil.org/Handbook/PlanIt/Files/2016-PlanIt-Schedule.aspx

Sustainability Workshop at the PlanIt Training Conference December 13, 2016, Earle Brown Center on Integrating Sustainability and Resilience in your Comp plan, with highlights from the Burnsville case study Presented by Eric Wojchik, Brian Ross Brett Emmons, & Burnsville staff

<http://metrocouncil.org/Handbook/Training/Conferences.aspx>

Metro Cities Comp Plan Workshops U of MN Metropolitan Design Center,

- **Oct. 27th Neighborhood Enhancement and Stabilization** - Hopkins
- **Nov. 1st Public Places and District Storm Water Management** - Ramsey
- **Nov. 10th Public Art** - Brooklyn Park
- **Nov. 17th Energy Systems & Resiliency** - New Brighton

All workshops are from 8am - Noon \$75 registration www.designcenter.umn.edu/about/workshops_fall2016.html

2016-2017 GreenStep Cities Workshop Series - These technical workshops will be held the first Wednesday from 9:00am to 11:00am every month (September through June) at the League of Minnesota Cities Building in Saint Paul. Attend in person or via webinar! Resources posted at www.betterenergy.org/2016-2017GreenStep-Workshops

REGISTER AT <https://www.eventbrite.com/e/greenstep-cities-workshop-series-2016-2017-tickets-25652419076>

- **October 5th: Energy, Data, and Setting Goals -- oh my!**
- **November 2nd: City Resiliency**
- **December 7th: Get Moving With Many Modes of Transportation**
- **January 4th: Clean Energy, Including Solar Gardens**
- **February 1st: Brownfields 101**
- **March 1st: Water Conservation and Reuse**
- **April 5th: Parks, Trails, and Nature Play**
- **May 3rd: Sustainable Purchasing**
- **June 7th: Don't be salty -- Addressing the Impact of Street Salts on City Drinking Water**

Minneapolis 2040 Comprehensive Plan Open Houses www.minneapolis2040.com

Tuesday, October 25 5:00-7:30 p.m. Midtown GLOBAL Market 920 E. Lake Street Minneapolis, MN 55407

-or- **Thursday, October 27** 5:00-7:30 p.m. North Commons Park 1801 James Ave N Minneapolis, MN 55411

Local Planning Handbook <http://metro council.org/Handbook.aspx?source=child>

- Community Profiles are available <http://lphonline.metc.state.mn.us/commportal.aspx>
- Planning Grants are available
- Comprehensive Planning Workshops with Government Training Resources <http://mngts.org/LandUse>

The Local Planning Handbook

- Provides clear and specific direction on what the minimum requirements are and how to meet them.
- Provides tools, maps, and resources to make it easier to complete minimum requirements.
- Connects communities with available resources, grants, and technical assistance.
- Helps communities understand the Council review process.
- Provides resources for value-added planning/planning beyond the minimum requirements.
- Highlights local planning efforts across the region.



Thrive MSP 2040: One Vision, One Metropolitan Region

Thrive MSP 2040 is the vision for our region over the next 30 years. It reflects our concerns and aspirations, anticipates future needs in the region, and addresses our responsibility to future generations.

<http://www.metro council.org/Planning/Projects/Thrive-2040/Thrive-MSP-2040-Plan.aspx?source=child>

Thrive: Outcomes – Stewardship Prosperity Equity Livability Sustainability

[https://metro council.org/Planning/Publications-And-Resources/Thrive-MSP-2040-Plan-\(1\)/2_ThriveMSP2040_Outcomes.aspx](https://metro council.org/Planning/Publications-And-Resources/Thrive-MSP-2040-Plan-(1)/2_ThriveMSP2040_Outcomes.aspx)

Thrive: Principles - Integration Collaboration Accountability

[https://metro council.org/Planning/Publications-And-Resources/Thrive-MSP-2040-Plan-\(1\)/3_ThriveMSP2040_Principles.aspx](https://metro council.org/Planning/Publications-And-Resources/Thrive-MSP-2040-Plan-(1)/3_ThriveMSP2040_Principles.aspx)

Resilience – Climate Adaptation

<http://metro council.org/Handbook/Plan-Elements/Resilience.aspx>

Resource People

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Resilience Plan

- INFRASTRUCTURE & ENVIRONMENT
- ENERGY INFRASTRUCTURE AND RESOURCES
- HEALTHY COMMUNITIES
- ECONOMY & SOCIETY

This section provides resources for communities working to integrate strategies into local comprehensive plans to be more resilient in the face of a changing climate. As communities adjust to increasingly extreme weather events, stress on public facilities, and higher costs of services, there is growing need to not only plan for these events, but to also reduce the impacts through conscious climate adaptation and resilience planning. Moreover, resiliency also considers reducing green house gas (GHG) emissions so that the extent of climate change does not exceed the capacity to adapt and become resilient.

Thrive MSP 2040 encourages planning for climate change as part of your comprehensive plan update. Climate mitigation strategies such as promoting land use and development patterns will contribute toward achieving Minnesota’s adopted greenhouse gas emissions goals. Climate adaptation strategies such as recognizing changing rainfall patterns that require additional storm water management capacity acknowledge the new and growing risks associated with climate change.

Not all consequences of climate change are environmental; societal and economic challenges will need to be addressed as well. Resiliency is having the capacity to respond, adapt, and thrive under changing conditions. Consideration of vulnerabilities - and responses to those vulnerabilities - will strengthen your community’s ability to prepare for and respond to climate impacts. Resiliency includes planning for more severe weather and prolonged heatwaves, for improved health of your residents, and planning for economic strength and diversity.

As you may recognize from these examples, many elements that your community already includes in its plan and in actions it has already undertaken, address some resiliency issues.

TOOL KITS

- **Adapting to Climate Change in MN** www.pca.state.mn.us/index.php/view-document.html?gid=15414
- **U.S. Climate Resilience Toolkit** <http://toolkit.climate.gov/get-started/step-1-identify-problem>
- **MN Greenstep City Best Practice 29 - Climate Adaptation and Community Resilience:** Plan and prepare for extreme weather, adapt to changing climatic conditions, and foster stronger community connectedness and social and economic vitality. <http://greenstep.pca.state.mn.us/bestPractices.cfm>

MN Annual Conference - Climate Adaptation Conference: Transforming Awareness into Action

January 28, 2016 Posted Presentations 2016 <https://www.wrc.umn.edu/climate-2016-0>

MN Greenstep City Best Practice 29: Climate Adaptation and Community Resilience

<http://greenstep.pca.state.mn.us/bestPractices.cfm>

- **Laura Millberg**, MBA, LEED AP BD+C, Sustainable Development and Climate Resilience Principal Planner, MN Pollution Control Agency, for B3 & green building improvements: 651/757-2568, Laura.Millberg@state.mn.us

Resilient communities have the strength to withstand, respond to, and adapt more readily to acute shocks (such as flooding from extreme precipitation) and chronic stresses (such as ongoing effects of the changing climate on the local tourist economy). The urban heat island effect may worsen chronic stresses.

Minnesota already is experiencing changes to its highly variable climate with more frequent and intense extreme rainfall events, a rapid decline in the severity and frequency of extreme cold, higher dewpoints and average nighttime temperatures, repeated freeze-thaw cycles, a longer growing season, and new invasive species. Based on climate modeling, it is expected that for the future Minnesota additionally will face increases in the severity, coverage and duration of heat waves and drought and diminished air quality from increased wildfire smoke, higher levels of ozone, more pollen, etc. Implementing best practice actions to plan and prepare for such events will strengthen cities for greater resilience to the changing climate.

Sustainability and Resilience: Different Lenses with Overlapping Benefits - Many best practices support both sustainability and resilience, providing co-benefits to reduce risk, enhance public amenities, decrease greenhouse gas emissions, strengthen air and water quality, and more.

Best Practice 29: Climate Adaptation and Community Resilience <http://greenstep.pca.state.mn.us/bestPractices.cfm>

Prepare to maintain public health and safety during extreme weather and climate-change-related events, while also taking a preventive approach to reduce risk for community members.

- **Integrate climate resilience into city or tribal planning, policy, operations, and budgeting processes.**
- **Increase social connectedness** through engagement, capacity building, public investment, and opportunities for economically vulnerable residents to improve their economic prosperity.
- **Encourage private sector action and incentivize** investment in preventive approaches that reduce risk and minimize impacts of extreme weather and the changing climate for human health and the built environment.
- **Protect public buildings and natural/constructed infrastructure** to reduce physical damage and sustain their function during extreme weather events.
- **Reduce the urban heat impacts** of public buildings, sites, and infrastructure and provide resiliency co-benefits.
- **Protect water supply and wastewater treatment facilities** to reduce physical damage and sustain their function during extreme weather events.
- **Improve local energy resilience** by minimizing fuel poverty, installing distributed renewable energy systems, and developing microgrids that can improve energy system resiliency.

This best practice is organized according to the four essential dimensions of urban resilience from

The City Resilience Framework <http://www.100resilientcities.org/resilience> as follows:

Health & Wellbeing - provide access to resources to help everyone survive extreme weather and the changing climate. (Action 1)

Leadership & Strategy - implement effective leadership, inclusive decision-making, empowerment of stakeholders, and integrated planning. (Action 2)

Economy & Society - promote cohesive and engaged communities and foster economic prosperity. (Actions 3 and 4)

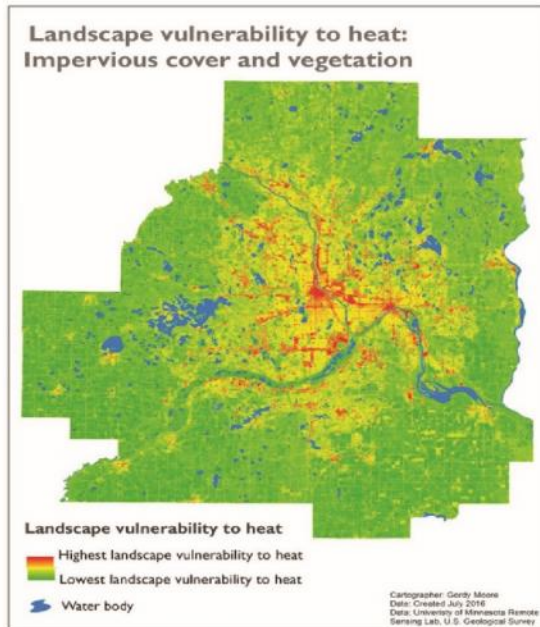
Infrastructure & Environment - protect, enhance, and ensure continuity of the constructed and natural systems that provide critical services and connect urban assets. (Actions 5 through 8)

Metropolitan Council Climate Vulnerability Assessment resources – available in early 2017

Contact - **Eric Wojchik**, Met Council, Local Planning Assistance 651.602.1330 eric.wojchik@metc.state.mn.us

<https://metro council.org/News-Events/Planning/Newsletters/Council-ramps-up-technical-support-as-communities.aspx>

[https://metro council.org/Council-Meetings/Committees/Community-Development-Committee/2016/September-19,-2016/Climate-Vulnerability-Assessment-\(CVA\).aspx](https://metro council.org/Council-Meetings/Committees/Community-Development-Committee/2016/September-19,-2016/Climate-Vulnerability-Assessment-(CVA).aspx)



The determined vulnerability will guide the Council and communities to better plan for infrastructure improvements that can withstand, for example, extreme precipitation which may cause localized flooding; or, a projected vulnerability may help a community focus its enhancement of community forest in neighborhoods vulnerable to urban heat island effect.

Climatic trends in the region show an increased incidence of heat and flood-related events; therefore, Council staff is limiting this study to extreme climatic events related to heat and water. The study will focus principally on adaptation rather than mitigation. Mitigation deals primarily with efforts to reduce or prevent emission of greenhouse gases, while adaptation seeks to lower the risks posed by the consequences of climatic changes through, for example, placement of infrastructure outside of flood-prone areas.

The CVA analysis will focus on Metropolitan Council assets and facilities (including parks and trails) but will also generally analyze the built environment of the 7-county metro area.

PURPOSE AND LIMITATIONS

The purpose of the CVA is to prompt a discussion about the many ways extreme weather events can affect both communities as a whole and Metropolitan Council assets. Consistently, literature details that communities are most resilient to extreme weather events when they work together across disciplines and boundaries. As such, the ultimate goal of this project is for the CVA to be used as a screening tool and communication channel between the Council and communities and as a benchmarking tool between communities.

NEXT STEPS

Metropolitan Council staff are in the process of building capacity for the project in a number of ways:

- Finalize CVA Report and Local Planning Handbook tools by early 2017;
- Rollout and CVA training for communities in 2017;
- Socio-economic Climate Vulnerability Assessment to be completed between January to May 2017.

FOR MORE INFORMATION

For more information, contact Eric Wojchik, Senior Planner, at 651-602-1330 or at eric.wojchik@metc.state.mn.us

September 2016

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BOLTON & MENK

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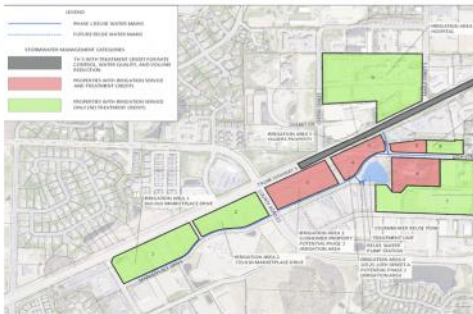
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Clear Lake Water Quality Project

Forest Lake, Minnesota

Bolton & Menk presented a new design concept to increase pollutant removal through an innovative treatment train approach with multiple uses of iron enhanced sand filtration technology. A flow diversion channel, rock gabion weir with iron enhanced sand filtration core, bioretention floodplain, and perched iron enhanced sand filter maximized the opportunity for runoff treatment. A total phosphorus reduction goal of 140 pounds per year was established, with the project providing over 70% of that goal.



TH 5 Stormwater Reuse

Waconia, Minnesota

Bolton & Menk presented a stormwater reuse design that met all Carver County Watershed Management Organization and NPDES requirements. In addition, the reuse system reduced the City's demand on portable water supply by using reuse water for irrigation. The annual volume of reuse water provided is estimated at 5.6 million gallons. By providing a regional system, adjacent properties can fully utilize the entire area instead of dedicating a portion to stormwater management.



The ARTery

Hopkins, Minnesota

The multimodal focused, art centric ARTery project links the SWLRT station to historic Mainstreet in Hopkins. Focusing on sustainability and placemaking, the project incorporates green stormwater infrastructure improvements, decorative high efficiency lighting, and durable long lasting materials that give a nod to the historical industrial use of the area. The art work is also an opportunity to showcase various types of media and also educate the public on sustainable solutions.



Clocktower Plaza - Mainstreet

Hopkins, Minnesota

Along with permeable pavers surrounding the overstory trees, the urban plaza captures downspout drainage from the adjacent buildings and redirects the water into an underground grid within the tree trenches to add in tree watering. Any surface water that may fall within the plaza is sheet drained across two permeable paver bands to reuse the surface water for tree growth and reduce the volume of water entering the storm sewer network.



Brett H. Emmons, PE, ENV SP, LEED AP

EOR: water | ecology | community

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Water - Watersheds and Water Resources www.eorinc.com/water.php

ECOLOGY - ecosystems + natural resources www.eorinc.com/ecology.php

COMMUNITY - civil engineering, landscape architecture, + planning www.eorinc.com/community.php

Case Studies - Self-Assessment of Edina Road Reconstruction & St. Paul's West Side Flats Redevelopment
http://www.betterenergy.org/files/EnvisionandEdina_St.PaulWestSideFlates.pdf

Resilience – Climate Mitigation - Energy Efficiency and Renewables

<http://metro council.org/Handbook/Plan-Elements/Resilience.aspx>

Moreover, resiliency also considers reducing greenhouse gas (GHG) emissions so that the extent of climate change does not exceed the capacity to adapt and become resilient.

Eric Wojchik, Met Council, Local Planning Assistance 651.602.1330 eric.wojchik@metc.state.mn.us

ONE MINIMUM REQUIREMENT - Local governments in the 7-county metropolitan area are required by state law to include an element in their Plan for **protection & development of access to direct sunlight for solar energy systems.**

Webinar - Comprehensive Planning for Solar Energy Systems

Thursday, November 10, 2016 12:00 – 1:30 PM Presented by Eric Wojchik and Brian Ross

www.metro council.org/Handbook/PlanIt/Files/2016-PlanIt-Schedule.aspx

Get More Out of Your Plan:

Energy Efficiency and Conservation

- Consider implementing policy options contained in the Georgetown Climate Center report, “MN Options to Increase Climate Resilience in Buildings.”
- Explore including supportive goals and policies for capturing your community’s energy efficiency resources through encouraging sustainable building design, such as Saint Paul’s Sustainable Building policy.
- Engage your energy utilities in your Plan process, specifically to develop partnership opportunities for enhancing local participation in energy efficiency and renewable energy programs. Consider recommending a formal collaboration with the utility as an implementation step, similar to the Clean Energy Partnership in Minneapolis or participating in a Partners in Energy initiative with Xcel Energy program.
- Explore adopting a commercial building benchmarking ordinance such as has been implemented by the City of Minneapolis.
- Consider Property Assessed Clean Energy (PACE) as implementation tool in your Plan. PACE is a financing tool that allows property owners to access competitive private financing through a partnership with local governments and the St. Paul Port Authority. Building owners who use PACE financing for their energy improvements pay back the financing through property taxes, as a voluntary special assessment. Consult the Authority about Joint Powers Agreement opportunities.
- Review Minnesota Housing’s “Home Fix Up Fund” to address weatherization and energy conservation in existing buildings.
- Adopt policies supporting enhanced partnership in developing local energy systems that support local generation, micro-grid development, and district heating systems that use of city rights-of-way.

Renewable Energy

- Evaluate options for implementing your policy for solar by reviewing local examples of ordinances, such as Falcon Heights' ordinance or Rosemount's ordinance. Include developing a solar ordinance as an implementation strategy in your plan.
- Identify areas of potential solar production in your community using the University of Minnesota's solar mapping tool (also available on the Council's mapping tool). This tool shows solar radiation potential taking into account shading from trees and buildings, topography, weather conditions, and the changing sun angle over the year.
- Assess best practices for addressing solar energy development in your comprehensive plan. The Minnesota Grow Solar Planning/Zoning/ Permitting Toolkit contains best practices and model ordinances that are specific for Minnesota communities.
- Solar Outreach Partnership (SolarOPs) hosts information and resources to facilitate solar energy adoption for local governments, including workshops, peer-to-peer sharing, research, and online tools and reports.
- Consider incorporating planning policy ideas and examples on energy efficiency and renewable energy from around the country and incorporate into your plan. The American Planning Association has compiled a large number of examples that provide direction on how to address energy resources in your comprehensive plan. The solar energy PAS examples and the PAS report are free of charge, the energy/climate and wind examples are available for sale at the APA website.

We Can Help!

We have compiled policy positions for you to consider. The positions are from plans that were adopted in the 2030 round of updates and are representative of communities from around the region. Some communities outlined why they chose to highlight sustainability throughout their planning efforts. These Plan Examples illustrate a few reasons why some communities considered sustainability as part of their comprehensive planning activities.

https://metro council.org/Handbook/Resources.aspx#tab_3

- We've included the University of Minnesota's solar mapping data as part of our Mapping Tool.
- US Department of Energy has put together "A Guide to Community Solar: Utility, Private, and Non-profit Project Development," which includes information for communities interested in planning and local energy projects.
- If you would like to learn more about what other local communities are doing, contact your Sector Rep.

Your City can apply to join **Xcel's Partners in Energy Program** – in spring 2017- More and more communities are realizing energy planning plays a critical role in helping them reach their goals. The benefits of wise energy choices are diverse. By working with citizens, businesses, and even their own government facilities, a community can shave dollars off utility bills, promote renewables, drive resource conservation or contribute toward greenhouse gas reduction goals. We help you address the challenge of identifying local priorities and then structure a path that leverages all resources available. www.xcelenergy.com/working_with_us/municipalities

Energy Planning Template for Cities - developed through the LOGOPEP Project

This template will soon be posted at <http://www.regionalindicatorsmn.com/energy-planning>

For more information, contact

- **Maureen Colburn**, Project Manager, at 612.752.6954 or maureen.colburn@lhbcorp.com or
- **Brian Ross** Senior Program Director, Great Plains Institute 612 501-1531 bross@gpisd.net
- **Ellen Anderson**, Exec Director U of MN Energy Transition Lab 612-625-1981 <http://energytransition.umn.edu/>

Five Minnesota cities in the Twin Cities Metro have been selected as partners for the Local Government Project for Energy Planning (LoGoPEP), an initiative that is developing energy planning tools for local governments. The five selected partner cities include Oakdale, Eden Prairie, Falcon Heights, Maplewood, and Saint Louis Park. These cities will help pilot test the tools developed by the LoGoPEP team, including case studies of exemplar cities, a scenario planning or "wedge" tool that will quantify the level of action needed to meet reduction targets, and an energy planning template that can be incorporated into local government comprehensive plans.

www.cleanenergyresourceteams.org/blog/five-cities-selected-partners-new-energy-planning-pilot-project

Alliance for Sustainability Recommended Steps

ONE – decide to include a resilience chapter in your comp plan and include it in your RFP for planning assistance

- **SAMPLE RFQ from Eden Prairie** <http://edenprairie.org/home/showdocument?id=6671> The City of Eden Prairie, Minnesota, is seeking a qualified consulting firm to assist with resilience/sustainability elements for both the Comprehensive Plan update and the Eden Prairie City code.
- **SAMPLE RFP from St. Louis Park**
www.stlouispark.org/webfiles/file/Env&Sust%20Commission/st_louis_parkclimate_action_plan_rfp_revised.pdf
- **Sample RFP for Cities to hire planning firms to incorporate climate mitigation and adaptation** into their comp plan updates – **Brian Ross**, Great Plains Institute 612-501-1531 bross@gpisd.net
- **Joining the MN Greenstep Cities program is a great way to get started!** www.mngreensteps.org

TWO – begin to think about your plan elements –

Look at examples of other cities Energy Plans and Climate Action Plans

- **Minneapolis Climate Action Plan** - www.minneapolismn.gov/sustainability/climate/
- **Burnsville - Sustainability Guide Plan** www.ci.burnsville.mn.us/DocumentCenter/Home/View/1287
- **Edina – Partners in Energy Edina** – <http://edinamn.gov/index.php?section=partnersinenergy>
- **SLP – Partners in Energy**
www.stlouispark.org/webfiles/file/Env&Sust%20Commission/st_louis_park_energy_action_plan_final_draft.pdf

Sample Energy Action Plan Templates for Cities – will be available for workshops this summer through a collaborative grant from the Department of Energy to the MN Department of Commerce –

Minnesota Local Government Energy Planning Project www.regionalindicatorsmn.com/energy-planning

THREE – learn about your city’s current CO2 foot print

Xcel Energy Community Reports - Offer great data to any city or area served by Xcel Energy. They have a list of communities where reports are already assembled or your city can request a report if you submit a shapefile.

www.xcelenergy.com/partners/municipalities/community_energy_reports

Regional Sustainability Indicators - The Met Council is seeking resources to be able in the future to provide with your city an annual report on your Co2 foot print and changes – similar to the regional sustainability indicators initiative <http://www.lhbcorp.com/project/regional-indicators-initiative>

FOUR – Decide your vision and goals – where your city wants to get to.

Example Minneapolis, Edina and St. Louis Park have adopted the MN State Goal to reduce CO2 community wide below 2005 base levels by 30 percent by 2025, and 80 percent by 2050.

FIVE - Develop your implementation plan in partnership with your community, businesses and utilities.

Brian Ross, Great Plains Institute (612) 501-1531 bross@gpisd.net

- **Government Sector**
- **Community Wide Sector**

SIX – See your results – If future funding is secured Met Council staff will collect data and will provide annual GHG reports to metro cities to help them to track their community wide results - similar to the **Regional Sustainability Indicators project**. Information to be provided will include, electricity use, natural gas use, vehicle miles traveled, solid waste and water use <http://minnesota.uli.org/initiatives/environment/regional-indicators-initiative/>

Examples

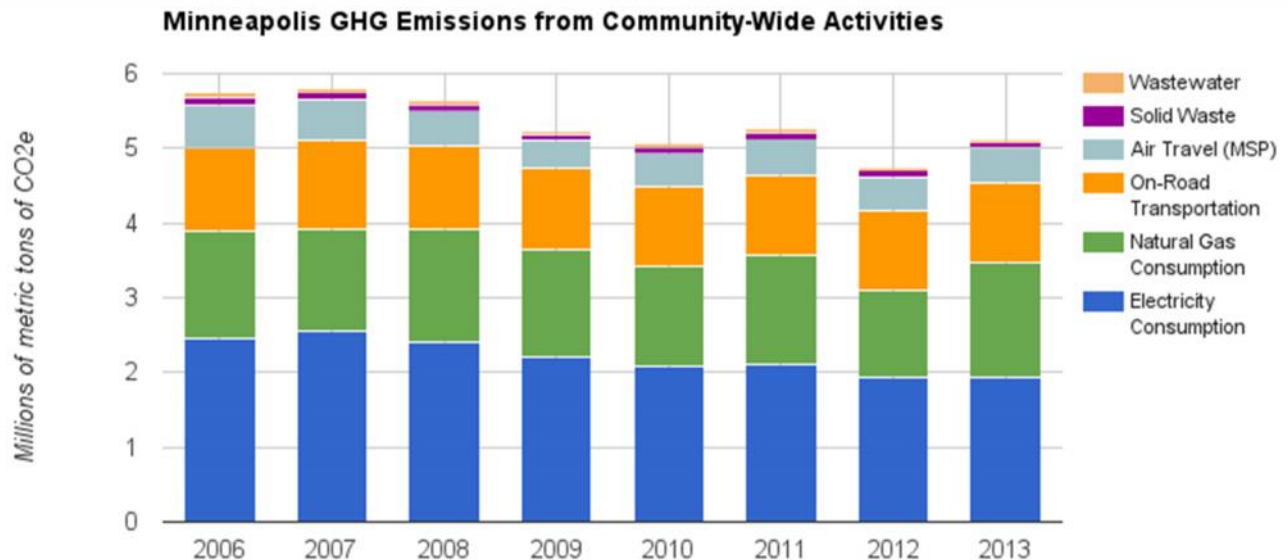
Sustainability Guide Plan - Burnsville

www.ci.burnsville.mn.us/DocumentCenter/Home/View/1287

City of Minneapolis Climate Action Plan www.minneapolismn.gov/sustainability/climate/

The consensus is clear: the global climate is changing and human activities are major contributors to that change. While climate change is a global issue, local action can make a difference. Minneapolis Sustainability staff are working with partners in the public, private, and non-profit sectors, as well as the community at large, to update the Minneapolis Climate Action Plan. The plan will provide a roadmap to guide Minneapolis towards our [greenhouse gas emissions reduction targets](#).

- Reduce citywide greenhouse gas emissions 15 percent by 2015, 30 percent by 2025, and 80 percent or more by 2050 using 2006 as a baseline.



Minnesota Local Government Energy Planning Project

For more information, contact Maureen Colburn, Project Manager, at 612.752.6954 or maureen.colburn@lhbcorp.com. <http://www.regionalindicatorsmn.com/energy-planning>

The U.S. Department of Energy (DOE) selected 11 states including Minnesota to receive a total of \$5 million to advance innovative approaches for local clean energy development. This State Energy Program Award will fund the Minnesota Local Government Energy Planning Project through 2018.

LHB is leading the Minnesota Local Government Energy Planning Project team that includes the Minnesota Department of Commerce, Energy Transition Lab at the University of Minnesota, Great Plains Institute, and the University of Minnesota’s Center for Science, Technology, and Environmental Policy. The project will create energy planning tools that local governments can use to support significant progress towards Minnesota’s sustainability, energy transition, and greenhouse gas reduction goals. Energy planning tools including case studies of exemplar cities, a wedge diagram tool, and an energy planning template are anticipated to be available by March 2017. Training on use of the tools through webinars and workshops is planned for April – December 2017.

Resilience Plan elements

<http://metro council.org/Handbook/Plan-Elements/Resilience.aspx>

Thrive MSP 2040 encourages planning for climate change as part of your comprehensive plan update.

- **Climate mitigation strategies** such as promoting land use and development patterns will contribute toward achieving Minnesota's adopted greenhouse gas emissions goals.
- **Climate adaptation strategies** such as recognizing changing rainfall patterns that require additional storm water management capacity acknowledge the new and growing risks associated with climate change.

INFRASTRUCTURE & ENVIRONMENT

Minimum Requirements: None.

Get More Out of Your Plan:

- Evaluate the recommended sustainability and resiliency practices adopted by other communities through the GreenStep Cities program. Consider recommending participation in GreenStep Cities as an implementation strategy in your Plan.
- Explore RELi, the new Resiliency Action List, a national ANSI pilot consensus standard containing direct value credits which are part of an accompanying Green + Resilient Finance Standard. Discover strategies to create safer, healthier and more productive communities that can better handle weather extremes, economic turbulence, and crisis conditions. RELi incorporates many sustainability approaches from various leadership standards, plus additional actions specific to resilient communities.
- The Georgetown Climate Center houses a wealth of resources additional climate adaptation information and resources that can help you get started.

ENERGY INFRASTRUCTURE AND RESOURCES

Minimum Requirements: Local governments in the seven-county metropolitan area are required by state law to include an element in their Plan for protection and development of access to direct sunlight for solar energy systems.

Get More Out of Your Plan:

Energy Efficiency and Conservation – SEE ABOVE p 16

Renewable Energy – SEE ABOVE p 17

HEALTHY COMMUNITIES

Minimum Requirements: None

Get More Out of Your Plan:

- Explore opportunities to integrate heat island mitigation strategies into the local comprehensive plan, education and engagement efforts, and other plans and ordinances.
- Consider options for cool pavement alternatives for road construction.
- Consider expansion and maintenance of vegetated open space and green infrastructure installation to improve water quality and manage stormwater, like the City of Maplewood.
- The EPA has a number of resources that explain risks of heat island and the tools for reducing heat island effects. Consider developing policies in your Plan specific to reducing heat island risks.
- Consider conducting a Health Impact Assessment (HIA) of your existing plan as part of the development of your 2040 plan, like the City of St. Louis Park.
- Consider how your community could prepare for the health vulnerabilities to climate change identified in the Minnesota Climate Change Vulnerability Assessment prepared by the Minnesota Department of Health.
- Consult GreenStep Cities best practices #11, #12, #16, #23, and #27 regarding Healthy Community for goals and strategies that can be incorporated into your Plan.

ECONOMY & SOCIETY

- Consider planning for the most vulnerable of your population in all aspects of the comprehensive plan,
- Federal Emergency Management Agency (FEMA) approved hazard mitigation plan

Minimum Requirements: None

Get More Out of Your Plan:

- Consider alternatives to the traditional planning and public outreach process. Ideas include morning meetings, childcare, venues which are already gathering locations/events, social media, “meeting in a box”, on-line resources.
- Consider planning for the most vulnerable of your population in all aspects of the comprehensive plan, as climate can have varying impacts on vulnerable populations such as elderly, young, and impoverished populations.
- GreenStep City Best practice #24, Benchmarks and Community Engagement, provides best practices examples of how communities can set benchmarks, measure progress, communicate to residents and businesses, and foster a trust relationship with people in the community through communication and engagement.
- Many local governments have a Federal Emergency Management Agency (FEMA) approved hazard mitigation plan in order to be eligible for federal disaster mitigation assistance funds. Consider integrating your hazard mitigation plan into your comprehensive plan to help you assess your community’s vulnerabilities and incorporate resiliency into your plans. FEMA’s fact sheet called Integrating Hazard Mitigation into the Comprehensive Plan provides a good starting point.
- Additional GreenStep Cities best practices that address the Economy and Society component of community resiliency include Best Practice #25 Green Business Development, #27 Local Food, and #28 Business Synergies.

Resilience FACT SHEET

<http://metro council.org/Handbook/Files/Resources/Fact-Sheet/RESILIENCE/Sustainability-and-Resiliency-Overview.aspx>

For building in resiliency into local planning, communities are also encouraged to:

- Implement compact development patterns and create more connected places to reduce auto-dependency and related generation of greenhouse gases.
- Identify local measures that would result in reductions in water use, energy consumption, emission of greenhouse gases;
- Identify local mitigation and adaptation strategies and infrastructure resiliency plans to protect against potential negative impacts to local economies, local resources, and infrastructure that result from more frequent or severe weather events.
- Participate in programs that evaluate and share city sustainability practices, such as GreenStep Cities and the Regional Indicators Initiative.
- Consider development or use community solar gardens.

These efforts help build the foundation for a prosperous, equitable, livable, and sustainable future for communities and the region.

Energy Implementation Resources

Metro Region | Clean Energy Resource Teams

Metro CERT empowers communities and their members to adopt energy efficiency and renewable energy technologies and practices www.cleanenergyresourceteams.org/regions/metro

Great Plains Institute www.betterenergy.org

Abby Finis Great Plains Institute w. 612-767-7295 C: 612-245-4070 afinis@gpisd.net

MN ENERGY STAR Challenge! <http://mnenergystarchallenge.com>

Abby Finis Great Plains Institute w. 612-767-7295 C: 612-245-4070 afinis@gpisd.net

- A statewide program that offers incentives directly to building owner who seek certification. There is also the community partner piece where will work closely with one community to come up with a plan to reach out to businesses in their community to become ENERGY STAR certified.
- Article from Finance & Commerce explaining the Challenge: <http://finance-commerce.com/2015/08/new-effort-pushes-energy-star-rating-for-buildings>



Center for Energy and Environment

Stacy Boots Camp Recruitment and Outreach Coordinator | 612.244.2429 sbootscamp@mncee.org
212 North 3rd Ave #560 | Minneapolis, MN 55401

www.mncee.org

The Center for Energy and Environment (CEE) is a nonprofit organization helping Minnesotans save energy and money for over 35 years. Currently CEE is working on the following programs with cities and utilities:

- Home Energy Squad
- One-Stop Efficiency Shop lighting program
- Residential and Commercial Financing
- Engineering Services

Partners in Energy Program An Xcel Energy Community Partnership

Since you're committed to empowering energy sustainability, renewability, efficiency and environmental programs for your community, we would like to be your energy partner. Join our Partners in Energy program to engage your community in a collaborative effort that will enable you to meet your energy goals.

Partners in Energy is a two-year community support program involving more than electric and/or gas services to your municipalities, residents and businesses. It's not a program, service or product that you need to buy. We team up with your community energy visionaries to develop custom action plans and provide implementation support services to help you meet your energy objectives - that will engage and inform your community.

Applications for new Partners in Energy communities in Minnesota and Colorado are due **in March 2017**

www.xcelenergy.com/Community/Community_Projects/Partners_In_Energy_Community_Programs



Eutectics www.eutecticsllc.com

Jeremy Kalin – President and CEO Jeremy@eutecticsllc.com

Eric Rehm – Senior Project Manager eric@eutecticsllc.com

Making Clean Energy Mainstream - Eutectics facilitates financing for clean energy projects in underserved and untapped markets. With three Clean Energy Financing Hubs active and more in development. Eutectics has completed \$86,340,059 in solar and efficiency projects to date.

Case Studies

U of MN Morris – clean energy finance hub for renewables and efficiency

<http://midwestenergynews.com/2016/05/24/minnesota-firm-has-a-new-approach-to-clean-energy-financing/>

Chisago Area Clean Energy Hub Partnering to Drive \$40-\$60M of Investments in Solar, Efficiency

www.betterenergy.org/chisago-clean-energy-hub-investments-2016



**EVER-GREEN
ENERGY™**

St. Paul District Energy

Ever-Green Energy www.ever-greenenergy.com/services

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O: 651.925.8170 | M: 651.769.5212 jenae.batt@ever-greenenergy.com

305 St. Peter Street, Saint Paul, MN 55102

Ever-Green Energy can help your community secure its energy future. Our team understands the complexity and nuances of developing and managing advanced energy systems. We will work with you to apply solutions that are financially viable, build resilience to changing markets and reliability threats, and institute environmental standards and protocols, all without compromising reliability or cost-competitiveness.

Study and Planning - Ever-Green develops energy master plans and feasibility studies to advance energy systems. It is our commitment to deliver planning results that are implementable and to work with you to see these advancements through implementation. Our team offers a range of services in energy planning and system study with the flexibility to meet your short-term and long-term energy goals. Whether you are seeking to optimize your existing system or to develop a bold new energy plan for your community, we can help you identify opportunities, engage stakeholders, and develop a strategy to meet your energy vision

Rice Creek Commons Net-Zero Energy Redevelopment through Planning

www.ever-greenenergy.com/project/rice-creek-commons

Towerside (Prospect North) - Sustainability through Partnership

<http://www.ever-greenenergy.com/project/towerside>

After completing a feasibility analysis in 2015, Ever-Green Energy has recommended a low-temperature district heating and cooling system, using recovered energy from the local wastewater system as its primary source. When compared to the least-cost, stand-alone system options for buildings, this approach would be less expensive and produce at least 19% less greenhouse gas (GHG) emissions. The longer-term energy vision for the area includes the addition of other renewable solutions including solar photovoltaic and solar thermal technologies, thermal storage, and energy efficiency options. The implementation of the energy vision has the potential to significantly increase the GHG emission savings, depending on the extent of integration and system growth.

Minneapolis Clean Energy Partnership

www.mpls-cleanenergypartnership.org

This first-in-the-nation agreement brings together the City of Minneapolis, Xcel Energy and CenterPoint Energy in support of the City's Climate Action Plan

City of Minneapolis Commercial building benchmarking ordinance

Commercial Building Benchmarking and Transparency

In Minneapolis, large commercial buildings make up almost 50% of the city's energy use. This provides a tremendous opportunity for identifying areas with the largest potential for energy savings. In February of 2013, the Minneapolis City Council adopted ordinance 47.190 requiring commercial buildings 50,000 square feet and over and city-owned buildings 25,000 square feet and over to annually benchmark their energy consumption and report this information to the City. This ordinance will allow building owners and the City to track energy and water usage year to year to determine opportunities for improvement, recognize high performers, and determine progress towards the City's Climate Action Plan goals. <http://www.ci.minneapolis.mn.us/environment/energy>

Local Energy Efficiency Self Scoring Tool.

American Council for an Energy-Efficient Economy (ACEEE)

- This is the same tool that ACEEE uses to score cities for their annual *City Scorecard* and they will walk you through the process to see how it works and to use in your own communities. They'll also touch on ways that NGOs can and have used the scoring tool to nudge their cities into action.
- Creating your own city scorecard is a great way to analyze how your city is doing and how it could improve, but some of these questions and measurements can seem daunting. Join us next Tuesday to learn more about how to score your city and use that information to make the case for more energy efficient efforts in your community!
- More info at :<http://aceee.org/blog/2015/12/score-your-community-s-efficiency>

You can also download the Self-Scoring tool (an XCEL file) at <http://aceee.org/research-report/u1511> if you'd like to have it open as the ACEEE reps go over the information.

Community Solar Gardens | Clean Energy Resource Teams

www.cleanenergyresourceteams.org/solargardens

Metro Council leading collaboration to spur community solar

Local governments in the Twin Cities metro area soon will have the opportunity to subscribe to solar energy generated at one or more proposed community solar gardens procured through a collaboration of the Metropolitan Council, Hennepin and Ramsey counties, the City of Minneapolis, Metro CERTs, and the Great Plains Institute www.metrocouncil.org/News-Events/Communities/Newsletters/Metro-Council-leading-collaboration-to-spur-commun.aspx

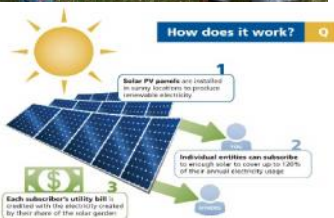
Consumer Friendly Community Solar Pledge

<http://fresh-energy.org/communitysolarpledge/>



Alliance for Sustainability

Ecologically sound, economically viable, socially just and humane



Join our Community Solar Garden!

- Help MN move toward a future with 100% renewable electricity!
- Save 10% on your monthly electricity bills.
- Your community group can receive a \$50 donation per subscription.

Sign up today to begin reserving your spot in our Solar Garden at

www.mncommunitysolar.com/sustainablecommunities

MN Community Solar is great local company that helped develop our State's Solar Legislation that is committed to good land stewardship and diverse job training & placement.

MN Community Solar has received both the good neighbor and community leader designation from the **Consumer Friendly Community Solar Pledge**

<http://fresh-energy.org/communitysolarpledge/>

The Alliance is partnering with the **Lake Street Energy Challenge** and neighborhoods & congregations along Lake Street to sign up 500 neighbors and members of local faith communities !

- Learn more at www.allianceforsustainability.com/communitysolar or contact Sean Gosiewski, Executive Director, 612-250-0389 sean@afors.org



Economic Competitiveness & Economic & Racial Equity

www.metrocouncil.org/Handbook/Plan-Elements/Economic-Competitiveness.aspx

Making the Case that we are all one Region – that our success and prosperity is linked

Greater MSP: Minneapolis Saint Paul Economic Development We serve MSP by promoting job creation, providing regional marketing and assisting in business recruitment and expansion www.greatersp.org

Wilder Foundation – MN Compass Demographic Information www.mncompass.org

Priorities - Itasca Project

<https://www.theitascaproject.com/priorities.html>

- **MSP Regional Indicators Dashboard** (2015) a set of shared, objective metrics to track the Greater MSP region's overall success on critical measures.
- **Socioeconomic Disparities: Employers' role in closing the gaps** (2015)

One MN To engage and empower Minnesotans to establish racial, social and economic equity for all Minnesotans www.onemn.org

Greater MSP: Minneapolis Saint Paul Economic Development
<https://www.greatersp.org/>

Minneapolis Saint Paul Regional Workforce Innovation Network
www.mspwin.org

Metropolitan Economic Development Association (MEDA)
www.meda.net

Growth and Justice www.growthandjustice.org
<http://www.growthandjustice.org/facts.fixes/economic/workforce-equity-for-a-competitive-economy>

Career Pathway Investment www.growthandjustice.org <http://www.startribune.com/learning-is-a-local-thing-as-minnesota-initiatives-show/320343871>

Met Council Report -

Diving Deeper: Understanding Disparities between Black and White Residents in the Twin Cities Region
<https://metrocouncil.org/getdoc/03bd679d-21a4-455b-af7a-15309b0c71ae/Diving-Deeper-Understanding-Disparities-Between-B.aspx>

CHOICE, PLACE AND OPPORTUNITY An equity assessment of the Twin Cities region

www.metrocouncil.org/Planning/Projects/Thrive-2040/Choice-Place-and-Opportunity.aspx

A region that shares both opportunities and challenges and seeks to improve the lives of its entire population is stronger and more vibrant. With this report, the Metropolitan Council hopes to raise awareness of the complex interdependencies of income, race, place and opportunity and to challenge both itself and others to think regionally and act equitably for a better region for all.

What we learned

- The Twin Cities region has become far more racially diverse since 1990. The number of residents of color has more than tripled, pulling up their share of the region's population from 9% in 1990 to 24% in 2010. By 2040, people of color will be 40% of the region's population.
- The Twin Cities region has some of the nation's biggest disparities along racial and ethnic lines among our peer metro areas. These disparities include income, poverty, unemployment, homeownership and education.
- Income and race can limit where people live. Since residents of color living in the Twin Cities region tend to have lower incomes than whites, income is more of a constraint for people of color when it comes to housing choice. Above and beyond income, however, race still influences where residents of color live in the region.

REPORT AND RESOURCES CPO full report by sections

Next steps The Council has identified equity as one of five key regional outcomes from Thrive MSP 2040, alongside stewardship, prosperity, livability and sustainability. In Thrive MSP 2040, the Metropolitan Council commits to using equity as a lens to evaluate its operations, planning and investments. The Council also commits to exploring its authority to use its resources and roles to mitigate the place-based dimension of racial, ethnic and income-based disparities.

Equity Resources

Met Council EQUITY ADVISORY COMMITTEE

<http://metrocouncil.org/Council-Meetings/Committees/Equity-Advisory-Committee.aspx>

- The Met Council's Equity Committee will provide speakers, planning tools and workshops this summer to help communities to integrate this theme in their Comprehensive Plans.

The Equity Advisory Committee advises the Metropolitan Council in its work to advance equity in the metropolitan region. In forming the Equity Advisory Committee (EAC) in October 2015, the Metropolitan Council affirms its commitment in Thrive MSP 2040 to ensure that residents and communities are full partners in making the decisions that affect them. The ultimate goal of this work is to create more equitable outcomes for the people who live and work in the region. For the purpose of this committee, equity is defined by **Thrive MSP 2040**:

Equity connects all residents to opportunity and creates viable housing, transportation, and recreation options for people of all races, ethnicities, incomes, and abilities so that all communities share the opportunities and challenges of growth and change. For our region to reach its full economic potential, all of our residents must be able to access opportunity. Our region is strong when all people live in communities that provide them access to opportunities for success, prosperity, and quality of life.

One MN www.OneMN.org and **Chai News** <http://chai.news/>

Civic engagement and empowerment of Minnesotans to establish mutual prosperity and a shared vision towards racial equity and social, and economic inclusion.

- **Bruce Corrie**, PhD. Concordia University, 612-321-8263 corrie@csp.edu, www.onemn.org ,
- **Brett Buckner**, OneMN.org brett1mn@gmail.com

Racial Income, Poverty, Unemployment, Disability by Legislative District: Data You Can Use

<http://chai.news/2016/10/racial-income-poverty-unemployment-disability-by-legislative-district-data-you-can-use>
<http://www.onemn.org/color-the-vote.html>

Alliance for Metropolitan Stability

www.metrostability.org

ISAIAH | Faith in Democracy

www.isaiahmn.org

Twin Cities Local Initiatives Support Corporation

www.tclisc.org

NEXUS Community Partners

Larry Hiscock, Transitway Engagement

<http://nexuscp.org/our-work/what-we-do>

2016 Educational Equity in Action

www.gap.umn.edu/About/edequityinaction.html

SEATTLE CITY COUNCIL Resolution 31577 -- Passed in 2015

Title: A RESOLUTION confirming that the City of Seattle's core value of race and social equity is one of the foundations on which the Comprehensive Plan

<https://seattle.legistar.com/LegislationDetail.aspx?ID=2269342&GUID=B0DDC78F-6CEC-4E8C-9A1B-CB913457D663&Options=&Search>

Government Alliance on Race and Equity

<http://racialequityalliance.org/>

Yearlong learning cohort with cities and counties in MN

<http://racialequityalliance.org/tools-resources/>

Advancing Racial Equity and Transforming Government: A Resource Guide for Putting Ideas into Action."

<http://racialequityalliance.org/2015/10/22/resource-guide>

Resource Guides http://racialequityalliance.org/newsite/wp-content/uploads/2015/02/GARE-Resource_Guide.pdf

Advancing Racial Equity and Transforming Government: A Resource Guide to Put Ideas into Action (October, 2015)

Racial Equity Toolkit: An Opportunity to Operationalize Equity (October, 2015)

http://racialequityalliance.org/newsite/wp-content/uploads/2015/10/GARE-Racial_Equity_Toolkit.pdf

- **Contracting for Racial Equity:** Best Local Government Practices that Advance Racial Equity in Government Contracting and Procurement (November, 2015)
- **Public Sector Jobs:** Opportunities for Advancing Racial Equity (June, 2015)

Policy Link www.policylink.org/focus-areas/equitable-economy

Resources for our region achieve equitable growth without displacement

- **Equity in Place** www.metrostability.org
- **Inclusive Transit Oriented Development** - www.tclisc.org
- **Corridors of Opportunity** www.corridorsofopportunity.org
- **Transformative Equitable Development series** Alliance for Metropolitan Stability www.metrostability.org
- **Equitable Development Scorecard** — Harrison Neighborhood Association www.hnampls.org/scorecard

Health in all Policies

APA -Planning4Health resources www.planning.org/nationalcenters/health/

Design for Health –

http://designforhealth.net/wp-content/uploads/2012/12/BCBS_ISFood_090107.pdf

Center for Prevention - Minnesota - Health in All Policies

www.centerforpreventionmn.com/what-we-do/our-current.../health-in-all-policies

Minnesota Public Health Association - Health in All Policies Resources

www.mpha.net/page-1624363

MN Dept of Health - adopted Health in All Policies (HiAP) resolution

relevant HiAP research and references. www.health.state.mn.us/tracking/hia/using.html

Advancing Health Equity www.health.state.mn.us/divs/chs/healthequity

Minnesota is one of the healthiest states in the country. However, a statewide assessment has found that not all Minnesotans have the same chances to be healthy. Those with less money, and populations of color and American Indians, consistently have less opportunity for health and experience worse health outcomes.

The Minnesota Legislature in 2013 directed the Minnesota Department of Health (MDH) and its partners to complete a report about advancing health equity (AHE) in Minnesota. Advancing Health Equity in Minnesota: Report to the Legislature

The Center for Earth, Energy and Democracy

Green Zones <http://ceed.org/section/green-zones/>

MPCA Environmental Justice Resources

<https://www.pca.state.mn.us/about-mpca/mpca-and-environmental-justice>

MPCA Environmental Justice Advisory Group

<https://www.pca.state.mn.us/about-mpca/mpca-environmental-justice-advisory-group>

[PDF]Environmental Justice Principles and Practices –

<https://www.pca.state.mn.us/sites/default/files/p-gen5-01.pdf>

[PDF]Environmental Justice Framework -

<https://www.pca.state.mn.us/sites/default/files/p-gen5-05.pdf>

[City] Health Data - Sample

Date

Poverty*

Population below poverty

- 3,444 people or 7% in 2014

Population below 200% of poverty

- 8,072 people or 16% in 2014

Child Poverty (under 18): 1,470 children or 12%

School district **Free and Reduced Price Lunch** (Students with lower incomes qualify.)

- 6,741 students or 24%

School district **English Learner** (English is not their native language.)

- 1,766 students or 6.3%

Overweight and Obesity

- County rate: 60% of adults were either overweight or obese in 2013.
- County rate: 18% of 9th graders were either overweight or obese in 2013.

Hunger

- An estimated eight percent (33,400) of the population of the county was food insecure in 2014.
- An estimated 13 percent of county children (13,300) were food insecure. Food insecure means lacking reliable access to a sufficient quantity of affordable, nutritious food.

Households without a Vehicle

- 486 – 820 households or 2.5-4.3%

Healthy Eating

Fewer than one-fourth of county students (17-21%) reported consuming fruits or vegetables (including fruit juice) five or more times per day in the previous week. Local data are available by school district.

Physical Activity

About one-fifth of county students reported engaging in 60 minutes of physical activity every day. Local data are available by school district.

Smoke-Free Multi-Unit Housing: 40% in city

- 75% of survey respondents in MN prefer smoke-free housing.

*Poverty (2016 Federal Poverty Guidelines – Annual)

- Poverty level: \$16,020 for a family of 2, \$24,300 for a family of 4
- 200% of poverty level: \$32,040 for a family of 2, \$48,600 for a family of 4.

Sources: American Community Survey (2011-14), Association for Non-Smokers MN (2016), Minnesota Department of Education Report Card (2016)



Supported by the Statewide Health Improvement Program, Minnesota Department of Health, and Dakota County Public Health Department



Minnesota Food Access Planning Guide

Download a free copy at <http://mnfoodcharter.com/planningguide/>

For more information please contact

Nadja Berneche Healthy Comprehensive Planning (651)-968-3899
nadja@terrasoma.com

The Need

Changing food system.
 Changing demographics, economy, and development trends.
 Knowledge gap between food and planning.
 Comprehensive planning process in the metro.
 A need to focus on equity.

Puurpose

Bridge the Knowledge gap between planners and food systems advocates by providing an overview of the food system and planning
 Provide tools and language to facilitate policy, systems, and environmental change.
 Empower planners
 Empower food systems advocates

Food Access Planning Guide
 Part I. provides an overview of both food and planning issues by highlighting important background information, legal/law considerations and impacts, and trend information.

Part II. provide model comprehensive plan language as a resource to ease the process of adoption and implementation of food policy and E changes for local and regional governments and agencies

Stragegy Areas

- Land Use
- Housing
- Transportation
- Economic Development
- Farmland Preservation
- Food Production
- Food Aggregation + Processing + Distribution
- Healthy Food Retail
- Pollinators

GET A COPY <http://mnfoodcharter.com/planningguide/>

- Download the Food Access Planning Guide
- WATCH THE WEBINAR - Working with MN Local Governments to Increase Access to Healthy Food: Part III – Integrating Food Access into Local Planning
- DOWNLOAD THE TOOLKIT - Make sure healthy food access and equity are part of your community’s long-range plan by leveraging the new Minnesota Food Charter Food Access Planning Guide. This toolkit can help!

LAND USE SAMPLE PLAN LANGUAGE

POLICY I

[Local government] will support development patterns that preserve agricultural land, and decrease the distance between households and retail food options.

- Adopt policies that support infill development and redevelopment over greenfield development
- Analyze existing retail patterns to determine where to locate new commercial areas
- Encourage and zone for higher-density or mixed-use housing near transit lines and commercial areas
- Consider minimum density requirements for new residential and mixed-use projects and other types of development
- Employ an approach to planning processes that treats health equity, healthy food access, and food systems development as primary considerations when making major land use decisions such as zoning, transportation planning, climate action plans, and other policy changes

POLICY II

[Local government] will review, and simplify or remove its regulation of food- and farm-related land uses, in order to improve the variety and availability of healthy food outlets.

- Review and update regulations governing backyard gardening, community gardens, and urban farming to foster an expansion of food production in the community
- Review and update regulations governing food processing businesses—such as commercial kitchens, flash freezing businesses, and small scale home kitchen businesses—to increase business growth
- Review and update regulations concerning food outlets, such as grocery stores, small food stores, farmers' markets, seasonal food stands, and farm trucks to support growth in the types and number of food outlets throughout the community and their hours and locations

THINGS TO CONSIDER

- While development patterns and pressures are different in urban, suburban, and small town settings, increasing development intensity has similar benefits in terms of supporting retail, making more efficient use of public infrastructure, and saving farmland at the periphery of the developed area.
- New home builders tend to stay in their comfort zones when laying out new developments. Cities and counties may need to stand their ground—and be patient—in order to achieve the development patterns they want.
- Retail market analysis may be helpful in determining how close neighborhood commercial districts can be located to each other and still be healthy and viable, given the population size of an area.

“The Cass Clay County Food Systems Advisory Commission was established by our regional planning agency to increase access to healthy food, foster economic development, and support food production. At Metro COG, we connect planning and health.”

Adam Altenburg, *Community Transportation Analyst, Metro COG*

Healthy Food Access

<http://publichealthlawcenter.org/topics/healthy-eating>

MN Food Charter

<http://mnfoodcharter.com/resources/>

Metro Food Access Network MFAN members envision a safe, just, and healthy food system for all. The mission of MFAN is to leverage collective capacity of partners to advance equitable access to healthy food for all Twin Cities metro residents. <https://sites.google.com/a/umn.edu/mfan/about-us>

Home Grown Minneapolis Food Council www.ci.minneapolis.mn.us/sustainability/homegrown/index.htm

Metro Food Access Network - Comprehensive Planning Action Team

<https://sites.google.com/a/umn.edu/mfan/work-groups/retail-food-access>

Contact - **Nadja Berneche** Healthy Comprehensive Planning (651)-968-3899 nadja@terrasoma.com

The Comprehensive Planning Action Team currently aligns with the following Minnesota Food Charter strategy: Include healthy food access as an important component of local governments' overall infrastructure and transportation planning. Partners: The Comprehensive Planning Action Team consists of about 10-15 partners representing funding agencies, local public health, and various nonprofit and grassroots organizations.

Homegrown Minneapolis <http://www.minneapolismn.gov/sustainability/homegrown/>

Homegrown Minneapolis is a citywide initiative expanding our community's ability to grow, process, distribute, eat and compost more healthy, sustainable, locally grown foods. Homegrown Minneapolis brings together key partners from local government, area businesses, community organizations, non-profits, and residents to build a healthy, local food system.

Food Council and Policy Resources

- Local Food Policy - The City's role in food policy, City policies, and programs.
- Research and Reports
- Zoning and Urban Agriculture

The Saint Paul - Ramsey County Food and Nutrition Commission <https://www.stpaul.gov/departments/mayors-office/committees-boards-and-commissions/food-and-nutrition-commission>

Homegrown South - www.theopendoorpantry.org/get-involved/homegrown-south/Healthy The Open Door Pantry - Homegrown South is a network of food producers, hunger relief agencies and the community

Casey Silver Food Access & Equity Manager 952 693-6842 caseys@theopendoorpantry.org

Good Food Access Fund www.change.org/p/help-us-make-healthy-food-available-to-all-minnesotans

Farmer Legal Action Group www.flaginc.org

Land Stewardship Project www.landstewardshipproject.org

Organic Consumers Association www.organicconsumers.org

Pollinator Friendly Alliance www.pollinatorfriendly.org

Farmland Protection - the Minnesota Department of Ag www.mda.state.mn.us/protecting/farmlandprotection.aspx

MN Agricultural Land Preservation Statutes www.mda.state.mn.us/protecting/farmlandprotection/statutes.aspx

MN Agricultural Land Preservation Program www.mda.state.mn.us/protecting/farmlandprotection/aglandpres.aspx

Transportation/ Land Use

Local Planning Handbook – Transportation <https://metro council.org/Handbook/Plan-Elements/Transportation.aspx>

The 2040 Transportation Policy Plan describes two funding scenarios for the highway and transit improvements to the metropolitan transportation system.

Current Revenue Scenario: This is the adopted metropolitan transportation system plan which includes affordable improvements. Local comprehensive plans will be reviewed for conformance with this “fiscally constrained” plan.

Increased Revenue Scenario: This scenario includes regional projects that could be implemented if additional revenues are made available for transportation. While the local comprehensive plans can include these improvements, they must be described as unfunded and the uncertainty of their implementation clearly distinguished from the rest of the plan.

Mn Center for Environmental Advocacy www.mncenter.org

Jim Erkel Land Use & Transportation Program **MCEA** (651) 287-4862 jerkel@mncenter.org MCEA supports a balanced multimodal system of transportation and secure and sufficient funding for the transit so that in the Twin Cities a regional transitways network can be built and the capacity of the regional transit system can be doubled.

Transit for Livable Communities www.tlcminnesota.org

Dave Van Hattum, Advocacy Director, Transit for Livable Communities 651-789-1418 davevh@tlcminnesota.org

Our work on Transportation Policy & Funding includes:

- Campaigns to increase funding for transit, bicycling and walking
- State and local policy affecting transit, bicycling, and walking
- Metropolitan Council policy and funding
- Research and education

See our Resources page for results of our recent research. <http://www.tlcminnesota.org/resources/>

- Bike Walk Twin Cities Bicycling and Walking Count Reports
- Planning to Succeed? An Assessment of Transportation and Land Use Decision-Making in the Twin Cities Region
- Transportation Performance in the Twin Cities Region
- Citizens’ Agenda for Transportation in the Twin Cities Region
- The Myth of Free Parking
- Sharing the Road: Encouraging Bicycling and Walking in Minnesota

Transportation Forward Minnesota is a statewide campaign dedicated to building broad support for new investments in transportation, in the belief that transportation underpins quality of life, the way our communities function, access to economic opportunity, and the health of our residents and environment.

www.transportationforwardmn.org/about

Active Living

Resource People

Ellen Pillsbury, Active Transportation Coordinator, MDH 651-201-5493 ellen.pillsbury@state.mn.us
www.health.state.mn.us/divs/hpcd/chp/cdrp/physicalactivity/activetrans.html

Bike Alliance of MN - Dorian Grilley, (651) 387-2445 dorian@bikemn.org www.bikemn.org

Mary Montagne Dakota County Public Health Department (651) 554-6119 mary.montagne@co.dakota.mn.us

Denise Engen, Active Living Hennepin Communities, 612-348-4454 Denise.Engen@hennepin.us

Connie Bernardy, Active Living Ramsey Communities, 651-748-2500 connie.bernardy@co.ramsey.mn.us

Michael Stralka, Active Living Ramsey Communities, 651-248-7908 michael.stralka@co.ramsey.mn.us

Bike Plans

Active Living Dakota County coalition

www.co.dakota.mn.us/Government/publiccommittees/SHIP/Pages/dakota-county-ship-strategies.aspx
<http://activelivingbydesign.org/>

Hennepin County Bike Plan www.hennepin.us/residents/transportation/biking

Minneapolis Bike Plan <http://www.minneapolismn.gov/bicycles/WCMS1P-135610>

Ramsey County Bicycle and Pedestrian Plan

www.ramseycounty.us/your-government/projects-initiatives/countywide-bicycle-pedestrian-plan

Washington County www.co.washington.mn.us/540/Planning-Development

Maplewood Living Streets <http://maplewoodmn.gov/1014/Living-Streets>

Edina Living Streets <http://edinamn.gov/index.php?section=LivingStreets>

FUNDING

Blue Cross Blue Shield www.centerforpreventionmn.com/what-we-do/our-current-initiatives/active-living-for-all
Advocacy

Bicycle Alliance of MN (651) 387-2445 dorian@bikemn.org <http://www.bikemn.org>

Minneapolis Bicycle Coalition - www.mplsbike.org/

Zero Waste/ Solid Waste Plan Updates

MPCA - Metropolitan Solid Waste Management Policy Plan

The MPCA is revising the Metropolitan Area Solid Waste Management Policy Plan (policy plan) that is due to be completed December 31, 2016. The draft policy plan is on public notice and open for comment through September 16, 2016. www.pca.state.mn.us/waste/metropolitan-solid-waste-management-policy-plan

Eureka Recycling <http://www.eureka recycling.org/>

The Mulch Store <http://www.mulchstoremn.com/>

Recycling Association of Minnesota <https://recycleminnesota.org>

Minnesota Composting Council www.mncompostingcouncil.org

City of Minneapolis Zero Waste Plan - Environmental Initiative

www.environmental-initiative.org/our-work/environmental-policy/city-of-minneapolis-zero-waste-plan

Anoka County www.anokacounty.us/documentcenter/view/1302

Hennepin County Solid waste planning

www.hennepin.us/your-government/projects-initiatives/solid-waste-planning

Dakota County Dakota County municipalities are key to a successful Solid Waste Master Plan. Over the next few weeks, we will be reaching out to all of you and look forward to working together to support sustainable communities throughout the County. To learn more, contact wasteless@co.dakota.mn.us, or call 952-891-7557, and check for frequent updates, www.co.dakota.mn.us/Environment/ReportsStudies/Pages/county-solid-waste-master-plan.aspx.

Master Plan Summary - Ramsey/Washington Recycling & Energy Board

www.morevaluelesstrash.com/master-plan-summary

Feedback wanted on trash management plan through 2030 - Ramsey County is amending one chapter of its current solid waste plan to clarify the county's policies and strategies on waste processing, and to implement a **Ramsey/Washington Co Joint Waste Designation Plan**. Learn more & provide feedback at www.MoreValueLessTrash.com



Alliance for Sustainability

Ecologically sound, economically viable, socially just and humane

USING THE NATURAL STEP FRAMEWORK TO CREATE SUSTAINABLE COMMUNITIES

The Alliance uses Sustainability and the Natural Step Framework to empower teams in businesses, organizations, communities, and municipalities to quickly develop a shared understanding of sustainability, a compelling sustainability vision, and practical action plans. The framework is based on four basic sustainability principles, ABCD visioning, and a back-casting action-planning approach. www.allianceforsustainability.com/programs/natural-step-framework/

To learn more about how to use Sustainability and the Natural Step Framework in your organization, business, or community please contact:

- **Sean Gosiewski** (Executive Director of Alliance for Sustainability, 612-250-0389, sean@afors.org or
- **Terry Gips** (Alliance President and CEO of Sustainability Associates, 612-374-4765, terry@afors.org <http://www.sustainabilityassociates.us>

Local Examples of Communities we have supported to develop sustainability plans using the Natural Step

Sustainability Guide Plan – Burnsville www.ci.burnsville.mn.us/DocumentView.aspx?DID=1287

City of Mahtomedi Sustainability Plan – 2011 www.ci.mahtomedi.mn.us

St. Cloud - Sustainability Framework Plan www.ci.stcloud.mn.us/1224/Sustainability-Framework-Plan

National Examples of Cities using the Natural Step

- **Madison, WI**, www.cityofmadison.com/sustainability/naturalStep
- **Resort Municipality of Whistler, BC** www.naturalstep.ca/resort-municipality-of-whistler
- **Santa Monica, CA**, www.thenaturalstep.org/city-of-santa-monica-california-usa

APA Policy Guide on Planning for Sustainability

Based on the Natural Step Framework www.planning.org/policy/guides/adopted/sustainability.htm

Including Fundamental Human Needs in Planning

Human needs and human-scale development,[1] developed by Manfred Max-Neef and others (Antonio Elizalde and Martin Hopenhayn), are seen as ontological (stemming from the condition of being human), are few, finite and classifiable (as distinct from the conventional notion of conventional economic "wants" that are infinite and insatiable).[2]

They are also constant through all human cultures and across historical time periods. What changes over time and between cultures is the strategies by which these needs (and created desires) are satisfied. Human needs can be understood as a system—i.e., they are interrelated and interactive. In this system, there is no hierarchy of needs (apart from the basic need for subsistence or survival) as postulated by Western psychologists such as Maslow, rather, simultaneity, complementarity and trade-offs are features of the process of needs satisfaction.

Manfred Max-Neef and his colleagues developed a taxonomy of human needs and a process by which communities can identify their "wealths" and "poverties" according to how their fundamental human needs are satisfied.

https://en.wikipedia.org/wiki/Fundamental_human_needs

Need	Being (qualities)	Having (things)	Doing (actions)	Interacting (settings)
Subsistence	physical and mental health	food, shelter, work	feed, clothe, rest, work	living environment, social setting
Protection	care, adaptability, autonomy	social security, health systems, work	co-operate, plan, take care of, help	social environment, dwelling
Affection	respect, sense of humour, generosity, sensuality	friendships, family, relationships with nature	share, take care of, sexual activity, express emotions	privacy, intimate spaces of togetherness
Understanding	critical capacity, curiosity, intuition	literature, teachers, policies, educational	analyse, study, meditate, investigate,	schools, families, universities, communities,
Participation	receptiveness, dedication, sense of humour	responsibilities, duties, work, rights	cooperate, dissent, express opinions	associations, parties, churches, neighbourhoods
Leisure	imagination, tranquility, spontaneity	games, parties, peace of mind	day-dream, remember, relax, have fun	landscapes, intimate spaces, places to be alone
Creation	imagination, boldness, inventiveness, curiosity	abilities, skills, work, techniques	invent, build, design, work, compose, interpret	spaces for expression, workshops, audiences
Identity	sense of belonging, self-esteem, consistency	language, religions, work, customs, values, norms	get to know oneself, grow, commit oneself	places one belongs to, everyday settings
Freedom	autonomy, passion, self-esteem, open-mindedness	equal rights	dissent, choose, run risks, develop awareness	anywhere

The Natural Step and Fundamental Human Needs – By Terry Gips, President, Alliance for Sustainability

The Natural Step specifies that there are four conditions for planetary sustainability. The first three are ecologically-focused and the fourth mixes social and efficient considerations: "Just and efficient use of resources to meet the basic needs of all people."

To address the issue of basic needs, the Natural Step is utilizing the basic needs analysis of Chilean economist Manfred Max-Neef ("Development and human needs" in *Real-life Economics: Understanding Wealth Creation*, Paul Ekins and Manfred Max-Neef, London and NY: Routledge). His work has been at the core of human scale development in Latin America. Unfortunately, few Americans are aware of it. Max-Neef's concepts are used extensively by the Natural Step community facilitators in Sweden.

Max-Neef postulates that "basic needs are finite, few and classifiable" and that they "are the same in all cultures and all historical periods." Rather than there being a hierarchy of needs as presented by Maslow, he believes these needs are always present. "What changes, both over time and through cultures, is the way or means by which the needs are satisfied." He believes needs are not substitutable--you can have lots of one fulfilled but it doesn't do anything about the rest. At the same time, through our selection of satisfiers, we can fulfill more than one need at once.

He suggests there are nine basic human needs: subsistence, protection/security, affection, understanding, participation, leisure, creation, identity/meaning and freedom. He believes there may be a tenth, transcendence, but is not sure that it is universal (I would suggest it is).

Some of the needs and their satisfiers (there is not necessarily a one-to-one correspondence) are very straightforward, such as protection (curative and health systems) and understanding (formal or informal education). But in other cases we confuse needs and satisfiers. For example, he believes food and shelter are not needs, but rather, satisfiers of the need for subsistence. There are different ways we can meet that need, such as infant formula or breast feeding. Bottle feeding will satisfy the need for subsistence, but breast feeding will simultaneously satisfy the needs for subsistence, protection, affection, understanding, participation, leisure, identity and freedom.

Each society adopts different methods for the satisfaction of the same fundamental needs. "We may go so far as to say that one of the aspects that define a culture is its choice of satisfiers. Whether a person belongs to a consumerist or to an ascetic society, his/her fundamental human needs are the same."

The good news ecologically is that it is possible to actually have more satisfaction with less stuff. It's not the materials and energy that provide satisfaction, but the degree to which basic needs are met. Instead of voluntary simplicity (the idea of living with less, which I practice but which presently has a limited audience), abundance can be offered. We can say to people that they can have more of what they've always wanted (safe, healthy, and attractive communities and environments) and less of what they never wanted (violence, fear, abuse, pollution, injustice, etc.). It doesn't take more resources, just a design based on meeting fundamental human needs. Such an approach can be quite attractive in American society because rather than having to give up things, Americans can have an abundance of what they've always wanted.

Blue Zones - Live longer & be happier. www.bluezones.com

Human Centered Design Stanford <http://dschool.stanford.edu>

Pillsbury United Communities is using this approach to develop a new grocery store in North Minneapolis <http://mynorthmarket.org/> - Contact Adair Mosley www.puc-mn.org/impact-areas/asset-creation/business-ventures

Genuine Progress Indicator www.rprogress.org/sustainability_indicators/genuine_progress_indicator.htm

World Happiness Report <http://mynorthmarket.org/>

HAPPY - The Movie - a compelling journey around the world in search of what really makes us Happy www.thehappymovie.com

County Resources

Anoka

- Jennifer Sweeney Connexus® Energy: 763.323.2649 Jennifer.Sweeney@connexusenergy.com
- Multi-use Trail planning- Jack Forslund, Anoka County 763-862-4230 jack.forslund@co.anoka.mn.us
- Regional Trail Planning - Karen Blaska, Anoka County Parks 763-767-2865 karen.blaska@co.anoka.mn.us
- Surface Water Plans - Bart Biernat, Anoka County 763-422-6985; Bart.Biernat@co.anoka.mn.us Samantha Berger, Rice Creek, WD (763) 398-3084 Sberger@ricecreek.org
- Public Health - Gretchen Etzler, Anoka County MPH 763-422-7234 Gretchen.etzler@co.anoka.mn.us
- Recycling & Organics Recycling - Sue Doll, Anoka County 763-323-5734 sue.doll@co.anoka.mn.us

Caver

- Leslie Wilson Product Stewardship & Green Energy 952.769.7308 lwilson@co.carver.mn.us
- Paul Moline. Planning & Water Management. 952-361-1825 pmoline@co.carver.mn.us
- Madeline Seveland 952-361-1026. mseveland@co.carver.mn.us
- Nick Koktavy, Carver County Projects and Communications Manager, 952-361-1797 nkoktavy@co.carver.mn.us

Dakota

Energy

- Tim Doherty, Dakota Electric 651 651 206-5264 tdoherty@dakotaelectric.com
- Jill Eide, Dakota Electric, 651-463-6384. jeide@dakotaelectric.com

Active Living

- Kurt Chatfield, Planning Supervisor, Dakota County 952-891-7022 kurt.chatfield@co.dakota.mn.us
- Lil Leatham, Lil.Leatham@CO.DAKOTA.MN.US

Communities for a Lifetime

- Jess Luce, Dakota County 651-554-6104 jess.luce@co.dakota.mn.us

Healthy Food Access

- Mary Montagne, Dakota County Public Health (651) 554-6119 mary.montagne@co.dakota.mn.us

Farmland and Natural Areas Program

- Al Singer, Dakota County (952) 891-7001 al.singer@co.dakota.mn.us

Solid Waste Planning –

- Renee Burman, Dakota County, 952-891-7042 Renee.Burman@co.dakota.mn.us
- Caroline McFadden, Dakota County, 952-891-7132 caroline.mcfadden@co.dakota.mn.us

Dakota County municipalities are key to a successful Solid Waste Master Plan. Over the next few weeks, we will be reaching out to all of you and look forward to working together to support sustainable communities throughout the County. To learn more, contact wasteless@co.dakota.mn.us, or call 952-891-7557, and check for frequent updates on our website, www.co.dakota.mn.us/Environment/ReportsStudies/Pages/county-solid-waste-master-plan.aspx.

Hennepin

- Denise Engen, Active Living Hennepin Communities, 612-348-4454 Denise.Engen@hennepin.us www.hennepin.us/activeliving
- Kelley Yemen, Bike Coordinator, Hennepin County, 612-543-1963. kelly.yemen@hennepin.us www.hennepin.us/residents/transportation/biking
- Dan Patterson | Comprehensive Planner (612) 348-3009 | Dan.Patterson@hennepin.us
- Leah A Hiniker, Hennepin County, (Energy) 612 543-1219 Leah.Hiniker@hennepin.us

Ramsey

- Connie Bernardy Active Living Ramsey Communities 651-748-2500 connie.bernardy@co.ramsey.mn.us
- Michael Stralka Active Living Ramsey Communities 651-248-7908 michael.stralka@co.ramsey.mn.us
- Mary T'kach Ramsey County, (Energy) 651-775-4379 msry.t'kach@co.ramsey.mn.us
- Carissa Glatt Ramsey County SHIP Coordinator 651-266-2506 carissa.glatt@co.ramsey.mn.us

Washington

- Stephanie Grayzeck Souter, Washington County Public Health 651-430-6701 stephanie.souter@co.washington.mn.us

FUNDING Opportunities

MPCA Environmental Assistance Grants

<https://www.pca.state.mn.us/aboutmpca/environmental-assistance-grants>

MN Greenstep Cities www.mngreensteps.org

- Philipp Muessig, MPCA, 651/757-2594 Philipp.muessig@state.mn.us

MINNESOTA GREENSTEP CITY PROGRAM: the basics

- **A free, voluntary challenge, assistance and recognition program** that provides a framework to help cities achieve their economic, environmental and quality-of-life goals. It's like the Tree City USA program, but covering many more topics and with many more **optional actions** a city can choose to take.
- **Cost-savings, energy use reduction and innovation** underpin the program's 29 best practices, which are based upon what cities in MN have and can accomplish at their **own pace, investing whatever level of time and money** they choose.
- **All information free and available to anyone** via the web; the web site is constantly updated and refined as program staff learn from cities.
- GreenStep cities – currently 91 statewide, encompassing 37% of the state's population – adopt a participation resolution but **are in no legal relationship** now (or in the future) with the GreenStep program or with the State of MN.
- Program grew out of a report to the 2009 Legislature; is governed by a **state agency-non-profit partnership**, led by the MPCA and including the League of MN Cities, and not connected to any non-Minnesota efforts.
- **Like Tree City USA, GreenStep has recognition minimums, not requirements. LMC formally recognizes city accomplishments** once each year at its annual June conference. Claiming credit for a handful of specific high-impact best practice actions garners recognition at Steps 3, 4 and 5.

BENEFITS OF BEING A GREENSTEP CITY

- ✓ **Claim credit, be transparent, invite citizen/business participation**
 - Cities joining the program can immediately claim credit for best practice actions previously completed.
 - GreenStep web site easily allows a city to show community members/businesses city accomplishments.
 - The list of 170 optional best practice actions provides a framework for business and citizen groups, schools and city commissions to work on actions and assist city staff.
- ✓ **Special attention paid to GreenStep cities**
 - Financial support during 2016 to create/strengthen a city 'green team.'
 - Special outreach to GreenStep cities has resulted in funding of several city fleet improvement projects, commercial business assistance, city building energy cost-cutting, and full-time MN GreenCorps members placed in cities.

- Special assistance targets water conservation, waste water plants, EV charging stations, environmental purchasing, complete streets, stormwater, city building energy savings, renewable energy.
- Special listserv for GreenStep city contacts; each best practice has an expert topic advisor available to answer city questions.
- ✓ **Access 40 hrs. free consultant help (MSP metro and Bemidji areas only); student interns**
 - The MPCA's Retiree Environmental Technical Assistance Program (RETAP) targets its three city sustainability experts to work with GreenStep cities.
 - During most semesters, undergraduate and/or graduate students are available for use by GreenStep cities.
- ✓ **Learn from other cities**
 - 2,300 reports from cities on how they have completed GreenStep actions are posted on the web site for anyone to read and learn from. Each report lists a city contact of whom one can ask further details.
- ✓ **1-stop shop for the most up-to-date action resources**
 - Information on how to complete 170 actions – in the areas of buildings, land use, transportation, environment, and economic/community development – is updated with Minnesota-specific information more often than any other web site.



GreenStep Cities is a free assistance program for all Minnesota cities that supports and recognizes implementation of 29 sustainability best practices.

The best practices focus on cost savings, quality of life and energy use reductions that encourage a culture of innovation. As of February 2016, 90 cities (and one Tribal Nation), large and small, encompassing over one-third of the state's population, have joined and become Step One cities in this voluntary program, which was launched by the League of Minnesota Cities at their June 2010 conference.

Cities that implement a minimum number of best practices within the five categories below will be recognized as Step Two and Step Three GreenStep cities. Each best practice can be implemented by completing one or more specific actions from a list of four to eight actions. A city's accomplishments are recognized on the GreenStep website. Measuring city performance metrics will garner Step Four & Step Five recognition.

Visit www.MnGreenStep.org to learn more about this program, to see what cities have accomplished, and to understand how your city can become involved.

GreenStep's 29 Best Practices

Buildings and Lighting

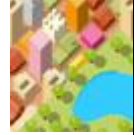
1. **Efficient Existing Public Buildings:** Benchmark energy usage, identify savings opportunities, and work with utilities and others to implement cost-effective energy and sustainability improvements.



2. **Efficient Existing Private Buildings:** Provide incentives for energy, water and sustainability improvements in existing structures.
3. **New Green Buildings:** Construct new buildings to meet or qualify under a green building framework.
4. **Efficient Outdoor Lighting and Signals:** Improve the efficiency of public lighting and signals.
5. **Building Reuse:** Create economic and regulatory incentives for redeveloping and repurposing existing buildings before building new.

Land Use

6. **Comprehensive Plans:** Adopt a Comprehensive Plan and tie regulatory ordinances to it.
7. **Efficient City Growth:** Promote financial and environmental sustainability by enabling and encouraging higher density housing and commercial land use.
8. **Mixed Uses:** Develop efficient and healthy land patterns that generate community wealth.
9. **Efficient Highway- and Auto-Oriented Development:** Adopt commercial development and design standards for auto-oriented development corridors and clusters.
10. **Design for Natural Resource Conservation:** Adopt development ordinances or processes that protect natural systems and valued community assets.



Transportation

11. **Living Streets:** Create a network of green complete streets that improves city quality of life and adds value to surrounding properties.
12. **Mobility Options:** Promote active living and alternatives to single-occupancy car travel.
13. **Efficient City Fleets:** Implement a city fleet investment, operations and maintenance plan.
14. **Demand-Side Travel Planning:** Use Travel Demand Management and Transit-Oriented Design.



Environmental Management

15. **Purchasing:** Adopt environmentally preferable purchasing practices and policies.
16. **Urban Forests:** Add city tree and plant cover that increases community health, wealth and quality of life.
17. **Stormwater Management:** Minimize the volume of and pollutants in rainwater runoff.
18. **Parks and Trails:** Support active lifestyles and property values by enhancing green infrastructure.
19. **Surface Water Quality:** Improve local water bodies.
20. **Efficient Water and Wastewater Facilities:** Assess and improve drinking water and wastewater facilities.
21. **Septic Systems:** Implement an effective management program for decentralized wastewater systems.
22. **Solid Waste Reduction:** Increase waste reduction, reuse and recycling.
23. **Local Air Quality:** Prevent generation of local air contaminants.
Economic and Community Development
24. **Benchmarks & Community Engagement:** Adopt outcome measures for GreenStep and other city sustainability efforts, and engage community members in ongoing education, discussion, and campaigns.
25. **Green Business Development:** Support the expansion of the green business sector in your city.
26. **Renewable Energy:** Remove barriers to and encourage installation of renewable energy generation capacity.
27. **Local Food:** Strengthen local food and fiber production and access.
28. **Business Synergies:** Network/cluster businesses to achieve better energy, economic and environmental outcomes.
29. **Climate Adaptation & Community Resilience:** Plan and prepare for extreme weather, adapt to changing climatic conditions, and foster stronger community connectedness and social and economic vitality.





Alliance for Sustainability

Ecologically sound, economically viable, socially just and humane

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Let's Protect our Lakes and Streams

Five Simple Actions www.afors.org/cleanwaterpledge

- Mow high 2 ½, to 3 inches, for deeper roots to soak in more rain,
- Sweep Clean – keep your grass clippings off the street & hard surfaces
- Adopt your Storm Drain www.minneapolismn.gov/AdoptaDrain
- Fall work for water community clean ups – free leaf bags available <http://freshwater.org/community-clean-ups-for-water-quality/>
- Reduce use of salt in the winter



Join our Community Solar Garden!

- Help MN move toward a future with 100% renewable electricity!
- Save 10% on your monthly electricity bills.
- This opportunity is for customers of Xcel Energy.
- Your community group can receive a \$50 donation per subscription.

Sign up today to begin reserving your spot in our Solar Garden at

www.mncommunitysolar.com/sustainablecommunities

MN Community Solar is great local company that helped develop our State's Solar Legislation that is committed to good land stewardship and diverse job training & placement. www.allianceforsustainability.com/communitysolar



Join a Resilient Cities Cluster

www.allianceforsustainability.com/sustainablecommunities

Spring and Fall 2017 – Resilient Cities Clusters – we will support 50 metro cities to share their draft comprehensive language – on energy, adaptation/water, health and equity - in groups of 5 to 8 cities in Anoka, Carver, Dakota, Hennepin, Ramsey, Scott and Washington Counties.

We are also convening commission and community volunteers in each county.

Read more about the resilience opportunities for comp plan updates

<http://metro council.org/Handbook/Plan-Elements/Resilience.aspx>



1. **Support the Alliance for Sustainability** as we empower teams of volunteers in 50 metro communities to include climate resilience and equity in their city's comp plans, <http://allianceforsustainability.com/donate>

