

Planning for Resilient Cities



image credit greentopia.org

Launching Our Decade of Action for Thriving, Low-Carbon, Resilient Cities

Thursday, June 20, 2019

Afternoon Workshop: 1 p.m. – 4 p.m.

Evening Workshop: 6 p.m. – 9 p.m.

Roseville Skating Oval, 2661 Civic Center Drive Roseville, MN 55113



**Alliance for
Sustainability**

Ecologically sound,
economically viable,
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With support from the Carolyn Foundation



CAROLYN FOUNDATION

Contact: Sean Gosiewski, Executive Director, Alliance for Sustainability, 612-250-0389 or Sean@afors.org

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KEYNOTE SPEAKER



**Edith Makra, Director of Environmental Initiatives,
Metropolitan Mayors Caucus, Chicago**

Edith Makra has lead in the design and implementation of the Greenest Region Compact (GRC), a powerful consensus sustainability plan tailored to maximize the impact of communities of all sizes and strengths. The GRC has now been formally adopted by more than 116 municipalities who now collaborate to advance renewable energy; use energy efficiently; adopt cleaner vehicle technologies; sustain robust urban forests and habitat; and engage residents in all aspects of community sustainability.

A SPECIAL THANKS TO OUR SPONSORS



WORKSHOP AGENDA

1:00 p.m. (and 6:00 p.m.)

Inspiration for a Decade of Action

- **Introductions** - leaders from 40 cities will share priority energy/resilience goals from their draft 2040 Comp Plans.
- **Welcome and Context** – Jennifer Munt, Alliance for Sustainability, Board, Former Met Council Representative
- **Keynote Speaker** – Edith Makra, Director of Environmental Initiatives, Metropolitan Mayors Caucus, Chicago. [Greenest Region Compact](#) - Learn how more than 100 Chicago area cities and communities are meeting their sustainability goals together.
- **How can we accelerate shared action among Minnesota Cities?** Small group conversations with your peers to share your current and future needs and suggest ways the Resilient Cities Coalition and partners can meet cities needs related to – building internal/external support, setting action priorities, sharing sample ordinances, funding, implementation support, state policy advancement and community/business engagement. [Take our 5 min survey!](#)

2:30 p.m. (and 7:30 p.m.)

Decade of Action Topic Conversations – visit one or more topic tables with resource speakers to

- Share three priorities your city wants to work on and three areas your city is seeking help with.
- Add to and learn from our strategy maps of high-impact example ordinances, projects and funding tools
- Learn about currently available multi-city teams and propose new teams to accelerate implementation

Topic Tables:

Clean Energy Supply – SolSmart sample solar ordinances, PV solar joint purchasing, solar garden updates, climate action planning, utility partnerships, city GHG data resources (*invited resource staff: Ted Redmond, Pale Blue Dot; Brian Ross, GPI; Lynn Hinkle, Innovative Power Systems, Lee Valencour, Novel Energy Solutions*)

Low-Carbon Buildings – sample Energy Benchmarking Ordinances, Sustainable Building Policies, stretch building code update, builder checklists, PACE, CIP (*invited resource staff: Kurt Schultz, St. Paul, Patrick Smith, U of MN CSBR; Ben Rabe, Fresh Energy; Leah Hiniker, Hennepin Co.; Mary T’Katch, Ramsey Co.*)

Transportation/Land Use – sample ordinances to require EV charging spots, reduce parking minimums, EV ready PUDs, Cities Charging Ahead, Shared Mobility Collaborative, MNDOT Pathways to Decarbonizing Transportation and scenario planning resources (*invited resource staff: Brian Ross, GPI; Jeffrey Meek, MNDOT Office of Sustainability; Phil Muessig, MPCA, MN Greenstep Cities Coordinator; Frank Douma, Humphrey School, Josh Johnson, City of Minneapolis*)

Infrastructure Resilience, Climate Adaptation, Carbon Sequestration – Living streets policies, metro climate vulnerability assessment maps, risk/benefit planning, water conservation and re-use tools, urban forestry/EAB (*resource staff: Kristin Mroz, EQB, Sharon Pfeifer, MN DNR, Tyler Olsen, Barr Engineering, Eric Wojchik, Met Council*)

3:30 p.m. (and 8:30 p.m.)

- **Group Highlights from Topic Conversations** - current resources, teams and gaps and proposed new multi-city teams
- **Policy highlights from the 2019 Legislative Session** – and a conversation on opportunities for city leaders to help advance helpful state-level low-carbon policies – Ben Rabe, Senior Policy Associate, Fresh Energy
- **Next Steps for expanding collaborative action** – share your suggestions and consider getting involved with the [Resilient Cities Coalition](#) to support your city’s and state efforts – Jennifer Munt

4:00 – 6:00 p.m. Networking Reception

Food provided courtesy of the French Meadow Café.

RESOURCE Section 1 Small group Conversations and Our New Context

2:00 p.m. (and 7:00 p.m.) Small Group Conversations

How can we accelerate shared action among Minnesota Cities to achieve our city energy, climate and resilience goals together?

- **Individual reflection** – on the discussion questions included in your interest survey (pastel yellow)
- **Small group conversations-** Tables of 5 to 6
 - **Introductions** Go around with everyone sharing your name, city, role and one or two sentences on what sparks your interest/passion to work on these issues.
- **Question cards** – participants will choose 2 to 4 of the questions to discuss post their brainstormed ideas under each question card on their flip chart
 - **In what ways can our cities work together to**
 - Deepen support with our Council, staff, residents & businesses and build our teams to do the work.
 - Develop energy/climate/resilience action plans for our cities with priority actions to meet city goals.
 - Share and find helpful resources from/with other cities - sample ordinances, successful projects, etc.
 - Expand our resources, partnerships, staffing and momentum to implement our priority actions
 - Effectively engage in priority actions - community residents, businesses, institutions
 - Accelerate state level policy changes that enable our cities to meet our city energy/climate goals

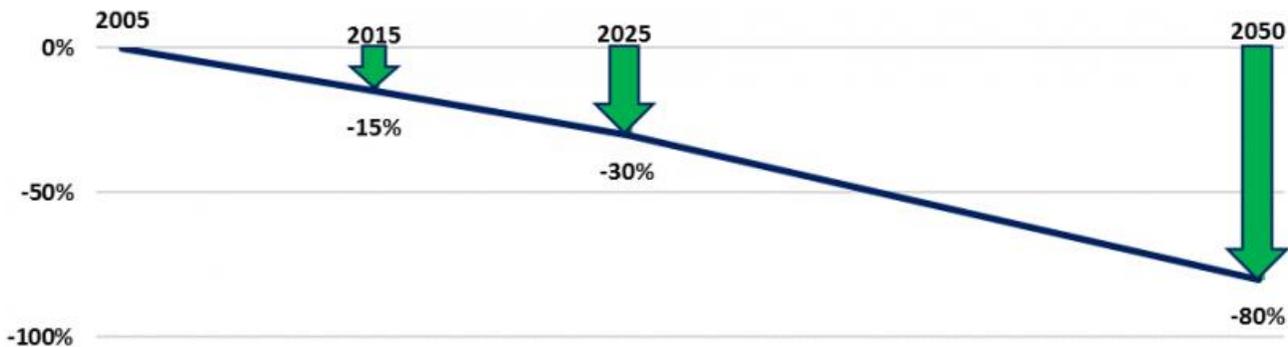
2:25 p.m. (and 7:25 p.m.) Small Groups Report back to the Large Group

The New Context for our Work

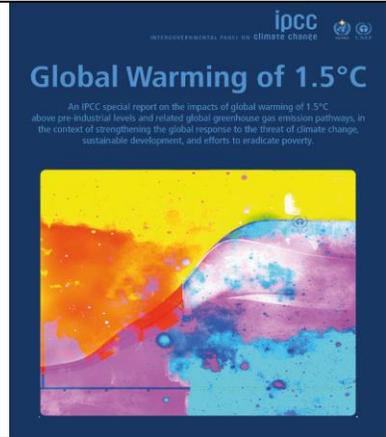
Jennifer Munt, Alliance for Sustainability, Board, Former Met Council Representative

The Next Generation Energy Act <https://www.pca.state.mn.us/air/state-and-regional-initiatives>

The Next Generation Energy Act, under Minnesota Statutes Chapter 216H, was signed by Governor Pawlenty in 2007. The act, which had bipartisan support in the state legislature, requires the state to reduce greenhouse gas emissions in the state by 80% between 2005 and 2050, while supporting clean energy, energy efficiency, and supplementing other renewable energy standards in Minnesota. Interim goals were also set: a 15% reduction by 2015, and a 30% reduction by 2025.



U.N. Scientists and young people are asking us to accelerate our progress



The recent U.N. report finds that limiting global warming to 1.5°C would require “rapid and far-reaching” transitions in land, energy, industry, buildings, transport, and cities.

Global net human-caused emissions of carbon dioxide (CO2) would need to fall by about 45 percent from 2010 levels by 2030, reaching ‘net zero’ around 2050.

<https://www.un.org/en/sections/issues-depth/climate-change/>

**MN Cities are Getting Started in Many Ways –
Now let’s work together in multi-city teams by topic and by county to accelerate our progress!**



GreenStep Cities www.mngreensteps.org

- Partnership of MPCA, GPI, League of MN Cities with more than 100 cities now participating
- Moving from individual cities working on best practices to groups of cities collaborating in cohorts

GreenSteps/ GPI/ Clean Energy Resource Teams – multi city project cohorts

- **MN Cities Charting Ahead – EVs and EV Ordinances**
- **Efficient Buildings Collaborative**
- **Solar possible and Renewable Energy Procurement Network.**
- **Efficient Buildings Collaborative**



**Planning for Resilient Cities Workshops
Alliance for Sustainability**

www.allianceforsustainability.com/resilientcities

We have heard from city leaders from 70 cities over the past 3 years at our Planning for Resilient Cities Workshops at our meeting with 16 cities at McKnight in Jan 2018 that they want to expand their collaboration to meet their new city-wide energy, climate and resilience goals

- The **Carolyn Foundation** is supporting the Alliance to support interested cities to launch the **Resilient Cities Coalition** in 2019 to add value to your day to day work to complement (not duplicate) currently available resources.

We are seeking your feedback on interests and needs – the main purpose for today.

Launching Our Decade of Action for Thriving, Low-Carbon, Resilient Cities



**U.N. Scientists
Are asking us to
Reduce CO2
40% by 2030
to keep global
temperatures in
the safe zone of
under 1.5 c increase**



Clean Electric Grid

Electrify Everything

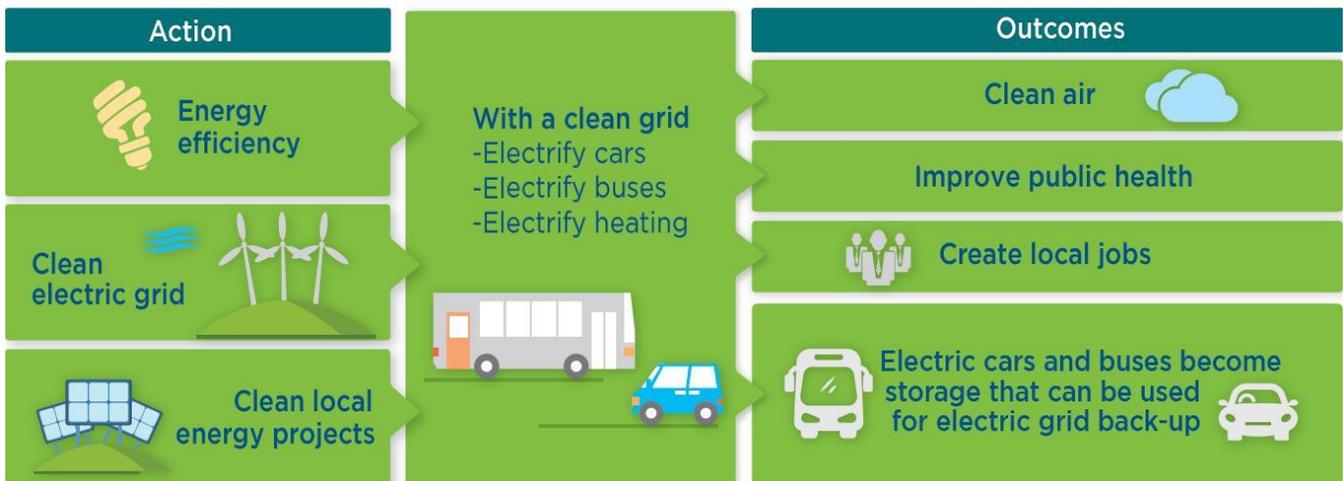
Include Everyone

Use Sustainable Building 2030 Energy Standards for All New Construction

Walkable Communities with co-working spaces – connected by bike, transit, shared mobility & E.V.s

Win/Win/Win solutions for equity, job training, economic and climate resilience and community health

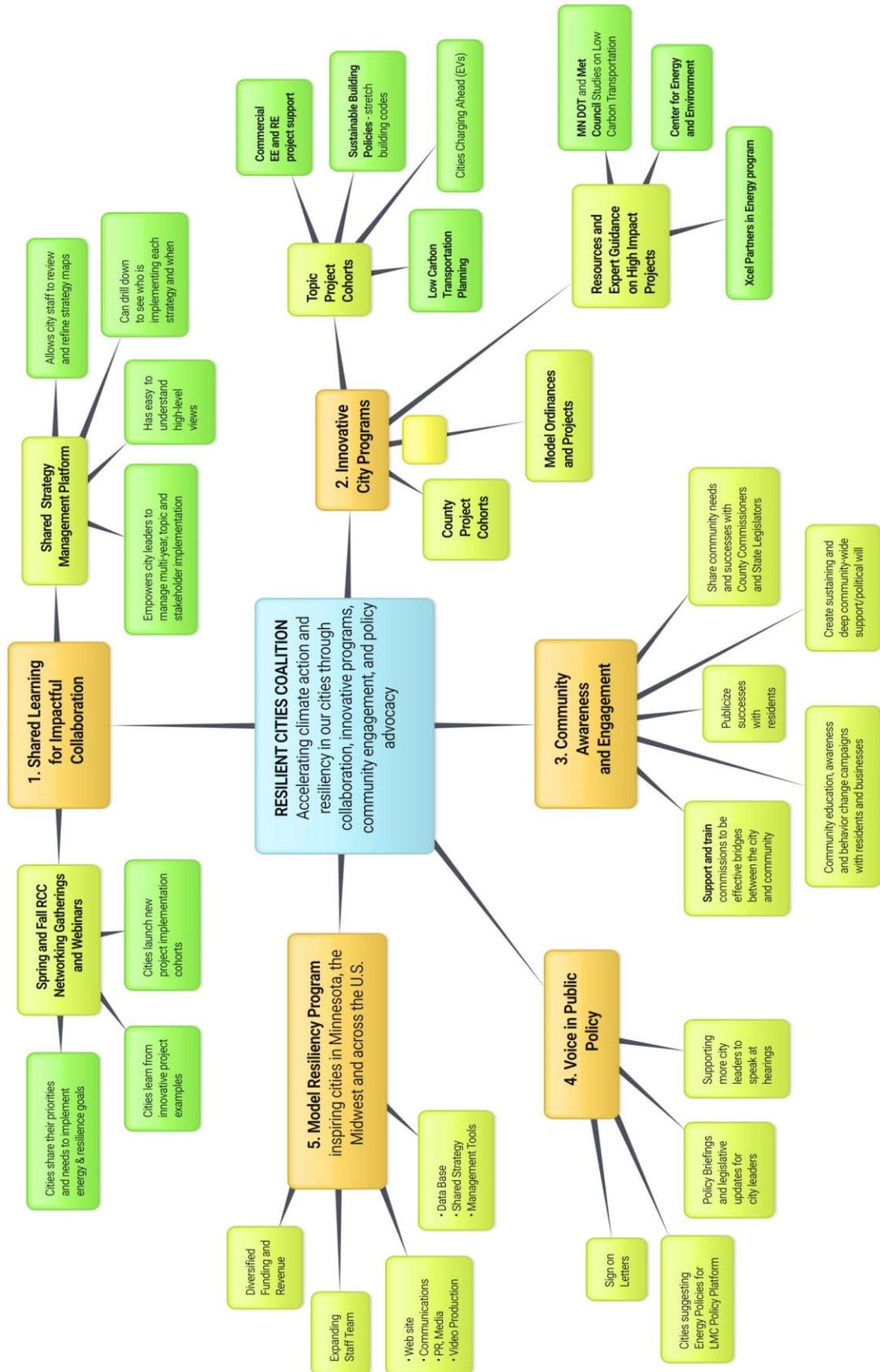
What could 2050 and 80% greenhouse gas reduction look like?



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Initial Mind Map – Resilient Cities Coalition Goals and Structure – May 2019 www.allianceforsustainability.com



RESOURCE Section 2 Low Carbon Buildings

Low-Carbon Buildings – Energy Benchmarking Ordinances, Sustainable Building Policies, stretch building code update, builder checklists, PACE, CIP

- **Center for Sustainable Building Research, U of MN** - Working to transform the built environment in ways that provide for the ecological, economic, and social needs of the present without compromising those of the future. **Patrick Smith**, Researcher, 612 626-9709 patsmith@umn.edu www.csbr.umn.edu/
 - **The B3 Sustainable Building 2030 (SB 2030 Energy Standard)** is a progressive energy conservation program designed to significantly reduce the energy and carbon in Minnesota commercial, institutional and industrial buildings. <https://www.b3mn.org/2030energystandard/>
 - **State Bonded buildings** --> **Option for City Buildings** --> **Option for private buildings** receiving city funding (St. Paul's Sustainable Building Policy) --> **Option for all new construction** in your city (if the MN Legislature approves a Uniform Stretch Building Code and your city adopts it.)
- **City of St. Paul – Sustainable Building Policies**
 - **Kurt Schultz**, City of St. Paul, PED, 651 266-6590 kurt.schultz@ci.stpaul.mn.us
 - **Sustainable Building Policies** <https://www.stpaul.gov/departments/planning-economic-development/economic-development/sustainable-building-policy>
 - The City of Saint Paul and the Saint Paul Housing and Redevelopment Authority adopted [sustainable development policies](#) for public and privately developed buildings receiving more than \$200,000 in public financing.
 - [Download the guidebook](#) on building sustainably.
 - Adopted sustainability policies for: [New municipal and HRA owned buildings](#)
[Private Development receiving more than \\$200,000 in public financing](#)
 - *City staff are available to assist developers who are required to follow the policy and any other developers interested in building sustainably. For projects that are not required to comply with either of the above two policies, the Saint Paul PED/HRA [Sustainability Initiative](#) will apply.*
- **Efficient Buildings Collaborative** -
 - **Leah Hiniker**, Energy Manager, Hennepin County (612) 543-1219 leah.hiniker@co.hennepin.mn.us
 - <https://www.hennepin.us/your-government/projects-initiatives/energy-benchmarking>
 - Building benchmarking programs are becoming increasingly common in the U.S. as cities look to support building energy efficiency. These programs often have administrative and cost barriers that make it challenging for small and mid-sized cities to implement them on their own. Hennepin County has developed a program to address and remove these barriers through the.
 - This collaborative provides cities with the platform and resources needed to make it easier to adopt and implement building benchmarking policies. GPI and Center for Energy and Environment (CEE) are partnering with Hennepin County to support a group of cities through the policy development and stakeholder engagement process. This program is available to cities statewide.
- **Mary T'Kach**, Energy & Sustainability Planner, Ramsey County (651) 775-4379 mary.t'kach@co.ramsey.mn.us Ramsey County is currently **gathering feedback from their cities** on the resources they are seeking to advance their energy and resilience goals.
- **Ben Rabe** Senior Policy Associate, Buildings and Energy Performance, Fresh Energy 651 726 7574 rabe@fresh-energy.org Ben is supporting a group of cities to work toward our MN Legislature approving a **Uniform Stretch Building Code** <https://fresh-energy.org/whats-happening-at-the-legislature-march-update/>

Efficient Buildings Collaborative

Hennepin County has developed a program that creates a standardized process for cities to adopt and implement building energy benchmarking and disclosure policies.

Energy benchmarking and disclosure policies require certain buildings to keep track of and report on their energy consumption. Buildings, especially large commercial or multi-tenant residential buildings, comprise 40% of gross regional energy use. Benchmarking energy consumption of such buildings therefore creates an opportunity to identify conservation opportunities and reduce a city's energy consumption.

National statistics show that of the buildings that have benchmarked their energy use for 3-years save on average 7% in annual energy use. Over 50% of energy reduction opportunities are low to no-cost to the building owner. Awareness of building energy use is the first step.

The Energy Buildings Collaborative is available to all Minnesota cities. The peer network will occur from May 2019 through May 2020.

Benefits

- Save money on utilities by reducing energy and water use
- Reduce greenhouse gas emissions and preserve the environment
- Promote energy efficient buildings
- Streamline and standardize the energy benchmarking process
- Maximize local energy efficiency programs

Contacts

Facility Services

[Leah Hiniker](#)

Energy Manager

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leah.hiniker@hennepin.us

Background

Cities across the country have passed energy benchmarking and disclosure policies. Here in Hennepin County, the City of Minneapolis currently requires all large commercial buildings to benchmark energy and water consumption and report usage annually to the city’s property information page.

Through a competitive request for proposals, Overlay Consulting was chosen by Hennepin County to provide program implementation services to cities at an economical rate in a standardized process. This contract will allow cities to easily adopt an energy building benchmarking and disclosure policy, helping cities to eliminate the burden of developing their own program

The Program

Hennepin County wants to create a standardized process for cities in the county to adopt an energy benchmarking and disclosure policy. The ordinance text itself will need to be adapted to the specific needs of a city, but there would be certain standardized features for all Hennepin County cities, including:

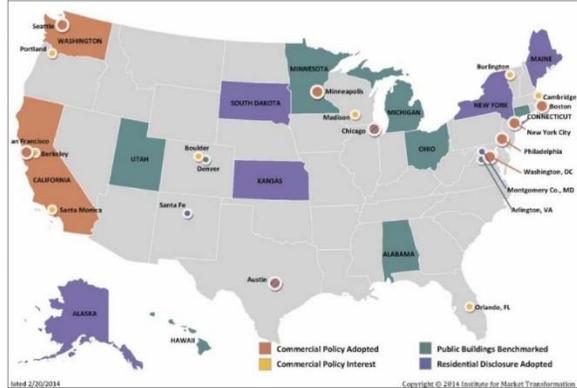


Figure 1. Energy disclosure policies in the United States

1. Disclosure deadlines;
2. Educational resource and helplines;
3. Energy data will be vetted through Overlay;
4. Energy data will be posted on the Hennepin County website.

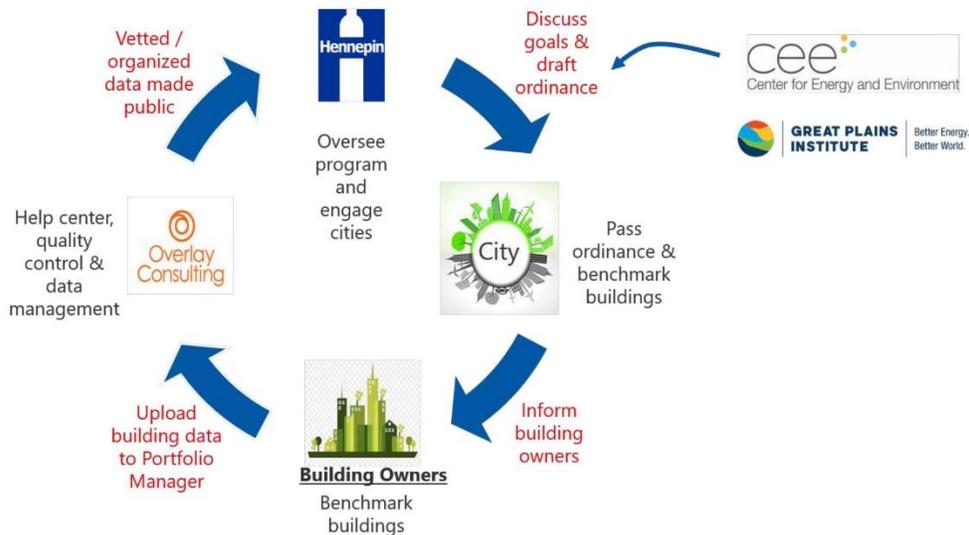


Figure 2. Outline of policy adoption process



RESOURCE Section 3 Clean Energy Supply

Clean Energy Supply – SolSmart sample solar ordinances, PV solar joint purchasing, solar garden updates, climate action planning, utility partnerships, city GHG data resources

- **Ted Redmond**, Pale Blue Dot, 612-669-7056 tredmond@paleblue-dot.org Solar feasibility studies, climate adaptation planning, climate action planning www.bluedotregister.org/community-services/#Resilient-Cities
- **Lynn Hinkle**, Policy Specialist, Innovative Power Systems, (612) 310-4742 lynnh@ips-solar.com <https://ips-solar.com/> Solar Development, Financing, Installation and Operations, Solar + storage
- **Lee Valencour**, Energy Conservation, Novel Energy Solutions 612 707-5303 lee.valencour@novelenergy.biz www.novelenergy.biz On site solar, community solar, energy efficiency, financing.
- **Cameran Bailey**, SolSmart Advisor, Met Council 651.602.1212 cameran.bailey@metc.state.mn.us
- **Brian Ross**, Senior Program Director, Great Plains Institute, 612-767-7296, bross@gpisd.net www.betterenergy.org/ Energy Planning Tools www.regionalindicatorsmn.com/energy-planning Solar Development Technical Assistance for Local Communities www.betterenergy.org/blog/new-program-offers-solar-development-technical-assistance-local-communities/
- **Barbara Jacobs** Energy Transition Lab, U of MN energy storage, 612-626-9541 jaco0270@umn.edu <https://energytransition.umn.edu/>

Solar possible – joint procurement of solar by cities <https://www.cleanenergyresourceteams.org/joint-procurement-solar-energy>

Renewable Energy Procurement Network.

GPI and CERTs have designed a renewable energy procurement network to help cities navigate various barriers to renewable energy adoption. This network will explore challenges cities are facing and work toward solutions to enable cities to increase access to renewable energy in their communities. This network will kick-off with an all-day Bootcamp with national experts from the World Resource Institute and the Rocky Mountain Institute who will cover renewable energy procurement options and facilitate discussions to help cities determine pathways to cleaner electricity. The Bootcamp will take place from 8:30 AM to 4:00 PM in St. Paul on the University of Minnesota campus. This will be in-person only and a limited number of travel stipends will be available to city representatives from outside the metro area.

For further information contact: Abby Finis, Great Plains Institute, 612-767-7295, afinis@gpisd.net

 <p>Innovative Power Systems Renewable Energy "Helping you stay in Power"</p>	<p>Innovative Power Systems www.ips-solar.com</p> <p>Lynn Hinkle, 612 310-4742 lynnh@ips-solar.com ; Eric Pasi Chief Development Officer 651-789-5305 ericp@ips-solar.com</p> <ul style="list-style-type: none"> • Development - From start to finish, we'll walk you through every stage of your project.
<ul style="list-style-type: none"> • Financing - Rate of return, energy savings, we've got options to fit your objectives. • Installation - Our project, our crews. We've been building energy for over 25 years. • Operations - You will produce a lot of energy for a very long time, we'll see to that. 	

	<p>Lee Valencour, Energy Conservation, Novel Energy Solutions 612 707-5303 lee.valencour@novelenergy.biz www.novelenergy.biz</p>
<ul style="list-style-type: none"> - www.novelenergy.biz - Residential - Commercial - Nonprofit - Community Solar Gardens 	<ul style="list-style-type: none"> - On Site Solar Projects - Community Solar Gardens - Energy Efficiency - Financing - Project Design - Project Management and Installation
<p>Founded in 2012 by Cliff Kaehler, Ralph Kaehler, and Bill Holzer, Novel Energy Solutions works to make inexpensive clean energy available to farms, companies, non-profit organizations, and individuals alike.</p>	
<p>We understand that changing government policies and rapid technological developments can make even a small clean energy project appear overwhelming. Our experienced team is here to help you make sense of available clean energy technologies, utility incentives, government programs, and financing options. We will assist you in devising and implementing a clean energy plan that will both reduce your carbon footprint and save you money.</p>	

	<p>Solar Possible: New joint purchasing effort for agencies, local governments & schools Peter Lindstrom MN CERTs, Local Government Liaison (612) 625-9634 plindstr@umn.edu a cooperative purchasing effort to facilitate more state agencies, local governments, and schools using solar on their facilities.</p>
<p>www.cleanenergyresourceteams.org/blog/solar-possible-new-joint-purchasing-effort-agencies-local-governments-schools</p>	
<p>Collaborative procurement is an effective approach to reduce barriers, learn together, and drive projects to successful completion. This initial effort will be geared toward jurisdictions in Xcel Energy territory</p>	

Community Solar Gardens www.cleanenergyresourceteams.org/solargardens

Metro Council leading collaboration to spur community solar – with 31 local jurisdictions

Local governments in the Twin Cities metro subscribed to solar energy generated at several proposed community solar gardens procured through a collaboration of the Met Council, Hennepin & Ramsey co, the City of Mpls, CERTs & GPI

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/>

Pollinator Pledge | Fresh Energy www.fresh-energy.org/tag/pollinator-pledge Urge solar developers to create habitats for bees and other pollinators in Minnesota when you take the Pollinator Pledge.



Climate-Smart Municipalities: Modeling Integrated Energy Communities for the 21st Century

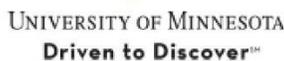
A cooperation between Minnesota & NRW

June 8 – June 15, 2019

Duluth, Elk River, Minneapolis,
Morris, Rochester, Warren, White Bear Lake

NRW DELEGATION:

- Hans-Juergen Badziura** head, department of environmental protection & green space, City of Lüdenscheid
- Ulrike Badziura** head, department of environmental and climate protection, City of Iserlohn
- Editha Bongartz** senior civil servant, International Relations and Networks division, NRW State Ministry for Environment, Agriculture, Nature Conservation and Consumer Protection
- Johannes Dierker** director, Youth Education Center Saerbeck
- Sven Gotthal** city council member, City of Münster
- Paul Hartmann** climate protection officer, City of Siegen
- Gerhard Joksch** honorary mayor of the City of Münster; member of the Münster City Council
- Ralph Kensmann** managing partner, Start.Design
- Marcus Müller** climate protection and sustainability lead, department of environmental protection & green space, City of Lüdenscheid
- Michael Müller** senior consultant, Energy Agency.NRW
- Carsten Peters** energy efficiency consultant, City of Arnsberg
- Andrea Preiss** deputy head, department of energy efficiency, sustainable buildings and neighborhoods, net-zero state administration, NRW State Ministry of Economic Affairs, Innovation, Digitalization, Energy
- Wilfried Roos** mayor, City of Saerbeck
- Markus Schumacher** resource efficiency advisor, Efficiency Agency NRW
- Max Schüssler** research associate, mechanical engineering, University of Siegen
- Guido Wallraven** technical director, City of Saerbeck
- Thomas Werner** head, department of facilities management, City of Münster
- Dr. Christof Wetter** professor of environmental technology, faculty of energy, facilities management and environmental engineering, FH Münster University of Applied Sciences
- Sebastian Witte** project manager, climate action & sustainable urban development, City of Arnsberg



Ministerium für Umwelt, Landwirtschaft,
Natur- und Verbraucherschutz
des Landes Nordrhein-Westfalen



Welcome!

Welcome to another round of exchange and learning in the Climate-Smart Municipalities program—this time once again in Minnesota! The program is a unique multi-partner collaboration between Minnesota and Germany, and part of the German government’s renowned Transatlantikprogramm. “Climate-Smart Municipalities: Modeling Integrated Energy Communities for the 21st Century” brings together stakeholders and leaders in local and state government, politics, business, the nonprofit sector, academia, and the public to learn from each other and to accelerate the transition to a more sustainable, efficient and climate-friendly future at the local level.

Our program tag line reads “Together, we are smarter!” It captures the experience over the past three years of everyone involved in this remarkable undertaking. Together, we command deeper expertise, are able to look at things from a much broader range of perspectives, and create better and more imaginative solutions. Having the opportunity to discuss approaches in a binational group is invaluable. Turning those conversations into inclusive projects at multiple levels and witnessing how quickly and reliably such parallel diversity produces measurable results is inspiring. And it builds additional momentum.

A few days ago, the first binational Climate-Smart Municipalities video contest “Energy Savings and Energy Waste in the World Around Me” concluded. Fifteen teams of students from eight CSM cities competed. Student teams in White Bear Lake, Duluth, and Saerbeck won the top three honors. Their families and teachers are all in. Submissions were judged by a nine-member binational intergenerational panel that included college students, Minnesota’s Commissioners of Commerce and Veterans Affairs Steve Kelley and Larry Herke and the vice-president of the state legislature of North Rhine-Westphalia. Another group that’s all in. Meanwhile, the Minnesota Legislature approved funding for innovative research and community energy projects in Morris. In Germany, the CSM cohort keeps raising the bar: three of our six are part of a competitive fifteen cities Global Sustainable Municipality NRW project group. They seek to model strategies for sustainable development at the municipal level. Everyone is all in.

What a great time to reconvene in Minnesota and spend a full week working and learning together!

The week’s agenda pursues two goals. We want to move to a deeper joint international project stage. Hence an emphasis on



the five work group focus areas we identified last summer. We also want to add momentum and expertise by inviting additional Minnesota communities and partners to join CSM. Some will be participating in Monday’s workshop.

Building momentum and expanding the network of engaged leaders is also at heart of Friday’s exciting conference. “Pathways to A Clean Energy Future: From Global to Local” will gather 200+ influential energy leaders: statewide legislators and city officials, practitioners from around the world, corporate and nonprofit decision-makers, and the Institute on the Environment’s impressive network of researchers and academic experts. With CSM co-hosting this conference and several CSM partners on stage, we are well positioned to learn and share.

The week’s program again is a massive collective effort. I thank all partners for helping create an inspiring series of activities that demonstrate how much the public and private sectors can do in partnership.

Finally, a big shout-out to our Minnesota and German funders. Your joint support enables the University of Minnesota Institute on the Environment to provide this amazing opportunity to Minnesotans and Germans.

Wishing all of us an inspiring and productive week,

Dr. Sabine Engel
director of international partnerships



“Climate-Smart Municipalities” is supported with funding from Germany’s Federal Ministry of Economic Affairs and Energy (BMWi) through the European Recovery Program’s (ERP) Transatlantik-Programm der Bundesrepublik Deutschland.

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www.environment.umn.edu

–Leading the way toward a future in which people and the environment prosper together–

Resource Section 4 **Transportation/Land Use**



Transportation/Land Use – sample ordinances to require EV charging spots, reduce parking minimums, EV ready PUDs, Cities Charging Ahead, Shared Mobility Collaborative, MNDOT Pathways to Decarbonizing Transportation and scenario planning resources

- **Brian Ross**, Senior Program Director, Great Plains Institute, 612-767-7296, bross@gpisd.net
- **Sample Suite of E.V. Ordinances for cities** soon to be available through the Cities Charging Ahead - multi-city co-hort. <https://www.betterenergy.org/blog/the-ev-olution-is-here/>
- “Accelerating Electric Vehicle Adoption: A Vision for Minnesota,” MNDot, MPCA, GPI Study <https://www.betterenergy.org/blog/minnesota-releases-a-vision-for-an-electric-vehicle-future>
- Drive Electric MN <https://www.driveelectricmn.org>
- **Jeffrey Meek** Sustainability Coordinator, **Minnesota Department of Transportation, Office of Sustainability** 651-366-4263 jeffrey.meek@state.mn.us Submit your comments for MN DOT’s **Pathways to Decarbonizing Transportation Study** www.dot.state.mn.us/sustainability/pathways.html
- **Phil Muessig**, MPCA, MN Greenstep Cities Coordinator; 651-757-2594, Philipp.muessig@state.mn.us Comprehensive list of model local ordinances <https://greenstep.pca.state.mn.us/index.php/page/ordinances>
- **Frank Douma**, Humphrey School of Public Affairs Research Fellow, Director State and Local Policy Program douma002@umn.edu **Self-Driving Vehicles on the Horizon**; Humphrey School Works to Ensure They’re Accessible to All www.hhh.umn.edu/news/self-driving-vehicles-horizon-humphrey-school-works-ensure-theyre-accessible-all
- **Josh Johnson**, Advanced Mobility City of Minneapolis (612) 720-7969 joshua.johnson2@minneapolismn.gov City of **Minneapolis Transportation Action Plan** <http://go.minneapolismn.gov/> and **Advanced Mobility Hubs** <http://go.minneapolismn.gov/transportation-topics/advanced-mobility>
- **Bill Dossett**, Twin Cities Shared Mobility Coalition (612) 747-4659 bdossett@niceridemn.org billdossett87@gmail.com Bill is the Coalition’s lead for Inter-Jurisdictional Coordination and is supporting metro cities to explore creating a joint powers agreement to regulate privately funded shared mobility services to be able to negotiate as a combined block of cities with Uber, Lyft, bike share and scooter services etc. <https://sharedusemobilitycenter.org/twin-cities-shared-mobility-collaborative/>
- **Mauricio León**, Metropolitan Council Senior Researcher, Regional Indicators 651 602-1146 mauricio.leon@metc.state.mn.us Over the next two years, the Met Council will add **Metro Climate Stats** and a **Scenario Planning tool to the Energy and resilience planning resources** provided to cities during comp planning <https://metro council.org/Handbook/Plan-Elements/Resilience.aspx> (see next page)

Overview of Metro Climate Stats Research

Metro Climate Stats is a Metropolitan Council initiative to formalize the collection, distribution, and use of greenhouse gas emissions (GHG) data for comprehensive planning in 188 communities in the Twin Cities metropolitan region. The project will provide a baseline of greenhouse gas emissions data and planning scenario tools needed to track progress and inform decision-making by local governments and at the regional scale.

Metro Climate Stats aspires to be the climate data resource hub for the metropolitan region and to inform policymaking and the selection of strategies that move the metropolitan region toward meeting its greenhouse gas emissions goals as set out in Minnesota's *Next Generation Energy Act*.

The emissions inventory will allow the region and communities to track progress toward those goals, and the planning scenario tool will allow each community to quantify and visualize the impact on their community's GHG emissions by selecting from a suite of planning tools and implementation strategies. The policies and actions will cover a wide spectrum from building code policies, to multi-modal transportation infrastructure implementation, to land use policies, to water conservation strategies. Critical to the success of this project is the development of a coordinated and shared a regional approach to calculating emissions, collecting and formatting energy data from the variety of utility providers serving the region, and ensuring the value and ease of use of the tool and user interface.

Greenhouse Gas Inventory

The Metro Climate Stats team will develop a regional GHG emissions inventory for local governments in the Twin Cities Region to make it easier for communities to incorporate climate mitigation into their planning.

Metro Climate Stats will prioritize in estimating the GHG emissions of activities on which the Metropolitan Council has influence. Obtaining insights from transportation and wastewater treatment is going to be prioritized. The second priority of Metro Climate Stats is to complete a full GHG inventory for all municipalities and counties in the region that could aggregate to the whole Metropolitan Service Area.

The scope of this first version of Metro Climate Stats GHG inventory includes the following sources:

- Electricity Use (Regionwide, Counties, and Municipalities)
- Stationary Fuel Combustion (Regionwide, Counties, and Municipalities)
 - Natural Gas
 - Other Stationary Fuels
- Passenger Vehicles (Regionwide, Counties, and Municipalities)
- Freight and Service Trucks (Regionwide, Counties, and Municipalities)
- Freight Rail (Regionwide and Counties)

- Transit (Regionwide, Counties, and Municipalities)
 - Buses (Scope 1)
 - Light rail (Electricity used for propulsion)
- Intercity Rail (Regionwide)
- Air Travel (Regionwide)
- Wastewater Emissions (Regionwide, Counties, and Municipalities)
- Community Generated Waste Emissions (Regionwide, Counties, and Municipalities)
- Livestock (Regionwide, Counties)

Scenario Planning Tool

The Metro Climate Stats team will develop a regional GHG scenario planning tool for local governments in the Twin Cities Region to make it easier for communities to incorporate climate mitigation into their planning.

The purpose of the Greenhouse Gas Scenario Planning Tool is to provide local governments with data analytics that enables them to make informed data-based climate mitigation planning. The tool will provide a forecast of emissions in the region for future decades and insights on how different mitigation strategies could impact the forecasted emissions.

Once the Council has completed the task of developing a greenhouse gas inventory (around the Fall of 2019) for cities, townships, and counties within the 7-county metro region, the step that follows is to make data useful to communities.

The Scenario Planning tool will focus on strategies related to sustainable mobility and land use. The tools will provide a forecast of GHG emissions under the Business-as-Usual scenario to the years 2030, and 2040.

Examples of questions that might be answered with a scenario planning tool are:

- What are the relative benefits and costs for a community of investing in more multimodal transport infrastructure?
- How could higher/lower density affect sustainability in a community?
- How much electrification of vehicles needs to happen for our region to meet its carbon dioxide reduction goals?
- How could we reduce reliance on passenger vehicles?
- What are the best pathways for communities to reduce their emissions in the next decades?

Questions?

Please contact Mauricio Leon (Mauricio.Leon@metc.state.mn.us), Senior Researcher if you are interested in learning more about the Metropolitan Council research on Climate Change Mitigation.

Resource Section 5 **Resilience, Climate Adaptation, Sequestration**

Infrastructure Resilience, Climate Adaptation, Carbon Sequestration – Living Streets Policies, metro climate vulnerability assessment maps, risk/benefit planning, water conservation and re-use tools, urban forestry/EAB



- **Sharon Pfeifer**, MN DNR, Community Assistance 651-259-5793 sharon.pfeifer@dnr.state.mn.us
 - **Climate Mitigation & Adaptation** www.dnr.state.mn.us/climate/climate_change_info/what-dnr-doing.html
 - **Community EAB planning and management** www.dnr.state.mn.us/forestry/urban/community_eab.html
- **Kristin Mroz** MN EQB GreenSteps Planner 651-757-2793 kristin.mroz-risse@state.mn.us
 - **Climate Solutions and Economic Opportunities Report** and **MN and Climate Change: our Future Starts Today** www.eqb.state.mn.us/content/climate-change
 - **Energy and Environment Report Card** <https://www.eqb.state.mn.us/content/2019-EE>
- **Tyler Olsen** Barr Engineering Co. Water Resources Engineer (952) 832-2930 TOlsen@barr.com
- **Metro Climate Vulnerability Assessment** – regional risks and opportunities <https://metro council.org/CVA>
 - **Eric Wojchik**, Resilience Coordinator, Metropolitan Council 651 602-1330 Eric.Wojchik@metc.state.mn.us
 - **Jennifer Nelson**, Hazard Mitigation Planner 651-201-7427. jennifer.e.nelson@state.mn.us

Climate Vulnerability & Adaptation Planning - Ted Redmond 612.669.7056 tredmond@paleblue-dot.org www.bluedotregister.org/community-services/#Climate-Vulnerability-and-Adaptation

- BLUEdot provides services to communities to help them identify and plan for climate vulnerabilities in their community. A Climate Vulnerability Assessment begins with an identification of the current and projected climate changes specific to the community. The assessment then identifies the climate vulnerabilities in a community's region as well as specific vulnerabilities within the community itself. Vulnerabilities reviewed include risks associated with natural systems, the built environment, as well as an identification of vulnerable populations. Vulnerabilities are then mapped within the community. A Climate Adaptation plan can then be developed to identify a range of policies and strategies to help the community improve their resilience.

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. <https://greenstep.pca.state.mn.us/bp-detail/81730>

- **Laura Milberg MPCA** MBA, LEED AP BD+C Sustainable Development and Climate Resilience Planner (651) 757-2568 laura.millberg@state.mn.us
- **Overview:** Plan and prepare for extreme weather, adapt to changing climatic conditions, and foster stronger community connectedness and social and economic vitality.
- **Leadership & Strategy:** Integrate climate resilience into planning and budgetary processes. | Hazard mitigation planning | Comprehensive planning and safe growth | Capital budget planning
- **Health & Wellbeing:** Prepare to maintain public health and safety, while also taking a preventive approach. | Identify vulnerable populations | Designate community safe shelter | Provide outreach and incentives to reduce risk on private properties
- **Economy & Society:** Help vulnerable residents improve their prosperity. Build social connectedness. | Training and job placement services | Affordable shared community spaces | Engagement and culturally-specific services/mentoring
- **Infrastructure & Environment:** Protect facilities and infrastructure. Reduce urban heat island effect. | Protect buildings and infrastructure from flash flooding/extreme weather damage | Install green/cool roofs and pavements, trees and other vegetation | Improve local grid with distributed renewable power and microgrids
- **Sustainable Best Practices:** Make long-term investments using sustainable best practice actions. | Energy savings, air quality, active living | Green and gray infrastructure, water conservation | Green building and complete streets

	<p>Matthew R. Metzger, ENV SP, PE Senior Civil Engineer 952.832.2830 mmetzger@barr.com</p> <p>Nathan Campeau, PE (952) 832-2854 ncampeau@barr.com</p> <p>Fred Rozumalski 952-832-2733 FRozumalski@barr.com</p>
<p>Precipitation change in Minnesota</p> <p>Average Annual Rainfall</p> <ul style="list-style-type: none"> Less than 29 inches 21-25 inches 26-29 inches 29-30 inches Greater than 30 inches <p><small>Source: Adapted from Gupta, S.C., A.C. Kulkarni, and M.E. Moran, 2014. Data from Minnesota Department of Natural Resources, state climatologist office.</small></p>	<p>Technical resource partner with the Nine Mile and Riley Purgatory Bluff Creek MPCA Pilot Project supporting 5 west metro cities to start doing climate vulnerability assessment and mitigation planning with</p> <ul style="list-style-type: none"> ● Bloomington ● Edina ● Hopkins ● Eden Prairie ● Chanhassen



Urban Canopy & Comp Plans -- Met Council expert guidance for embedding effective green infrastructure goals, policies & actions:

HOW TO ENHANCE URBAN CANOPY THROUGH ORDINANCE & COLLABORATION FOR COMPREHENSIVE PLANS

Michael Orange, Principal ORANGE Environmental, LLC

While it is easy to appreciate the beauty of trees and landscaping, the quantifiable environmental, economic, and health benefits are not as easy to grasp. When the values of trees are weighed against their purchase and maintenance, the benefits outweigh the costs by a margin of about three to one. Comprehensive plans should embed effective green infrastructure goals, policies, and implementation tools into practice in the following ways:

<https://metro council.org/Handbook/Plant/Files/Expert-Article-Urban-Forest.aspx>



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

EOR: water | ecology | community

d: 651.203.6003 bemmons@eorinc.com

Camilla Correll, PE, Water Resources Engineer, 651.203.6036 ccorrell@eorinc.com

Camilla Correll has over 20 years of experience specializing in storm water infiltration, integrated watershed mgmt., and sustainable engineering design. Camilla's knowledge and extensive experience in the development of various watershed mgmt. plans, watershed rulemaking, and application of LID techniques have allowed her to successfully implement innovative storm water and watershed management plans.

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

www.betterenergy.org/files/EnvisionandEdina_St.PaulWestSideFlates.pdf



Flood Resiliency



Water Re-Use



St. Paul Green Streets



Burnsville Sustainability Plan

Resource Section 6 - **32 High-Impact Policy Options for Low-Carbon Cities**

Contact: **Phil Muessig**, MN Greenstep Cities Coordinator, 651-757-2594, Philipp.muessig@state.mn.us

While Minnesota has made significant strides to mitigate climate change - renewable energy now accounts for 21% of in-state electricity generation - we missed the Legislature's 2015 greenhouse gas emission target and will miss the 2025 target without additional work. **Fully one-third of these state GHG emissions will be determined by and occur within cities.** 32 action options, focused on **policies cities can choose to adopt**, are recommended by the MN GreenStep Cities program for city consideration. Analysis shows that these 32 actions deliver (1) significant GHG reductions, (2) long-term and (for many actions) short-term cost savings, and (3) sustainability co-benefits such as improved quality of life for community members and environmental benefits such as improved local ecosystems. Actions supportive of these policies - such as community sustainability education and engagement, and work with the local school district and businesses - are included on the GreenStep web site.

See online model ordinances, policies and related resources linked to each policy option below.

<https://greenstep.pca.state.mn.us/page/ordinances>

Each option is a unique GreenStep best practice action, whose number is noted.

Building Policy Options

- ❖ For existing buildings
 - [Use the State's B3](#) public building benchmarking tool to target energy-efficiency improvements {1.1}
 - [Require commercial building energy benchmarking](#) (using Hennepin Co. registry) to incentivize energy- efficiency improvements averaging 1.7% per year {2.3}
 - [Require Truth-in-Housing](#) residential reporting to incentivize and better price more energy-efficient housing {2.3}
 - [Dedicate residential/commercial improvement](#) funding for energy efficiency and renewables {2.6}

- ❖ For new buildings
 - [Require the Sustainable Buildings 2030](#) state energy standard for city, and/or commercial/industrial, and/or residential properties that {3.3}
 - receive city financial support, and/or
 - require city regulatory approval (planned unit developments, conditional use permits, rezonings, variances)

Land Use Policy Options

- ❖ For one or more zoning districts
 - [Increase urban residential density](#) with accessory dwelling units, single-resident occupancy units, smaller lots, multi-family buildings by-right, senior housing, co-housing, low square-footage houses / apartments {7.2}
 - [Increase urban commercial density](#) by adopting floor-area ratio minimums/bonuses, zero lot-line setbacks {7.3}
 - [Adopt mixed-use zoning](#)/require mixed-use PUDs and/or a form-based zoning code/overlay district {8.0}
 - [Stage city-edge development](#) with an adequate public facilities (concurrency) ordinance {10.2}
 - [Zone for rural residential](#) clusters; adopt density bonuses, authorize transfer/purchase of development rights {10.4}

Transportation Policy Options

- ❖ For living streets
 - [Adopt a complete streets policy](#) that includes street design standards & maximizes urban tree canopy {11.1}
 - [Expand transit](#) / transit hub coverage and use over time to meet increasing mode-shift targets {12.6}
 - [Improve bike/walk](#) infrastructure over time, by means such as lane reconfigurations (road diets), to meet increasing mode-shift targets {12.1} and {11.6}

- ❖ For downtown, commercial nodes, corridors
 - [Reduce or eliminate parking minimums](#) and/or add parking maximums {14.1}
 - [Price curb & structured parking](#) to aim for a 15% vacancy rate in parking spaces on each block, and favor electric vehicles and for pay-per use vs. monthly contracts in lots, ramps {14.1}
 - [Allocate boulevard & curb space](#) for bike parking and vehicle passenger pick-up/drop-off as part of planning for shared mobility services (bus, taxi, Uber, Lyft) and (shared) autonomous vehicles {6.0}
 - [Adopt a travel demand management / transit-oriented development](#) ordinance {14.4}
 - [Require electric vehicle charging](#) capacity (at least conduit) in new commercial/single, multi-family developments and require the installation of charging stations to mirror the regional electric vehicle adoption rate {3.4}
 - [Prioritize fiber](#) telecommunications infrastructure {12.5}

Carbon Sequestration and Waste Reduction Policy Options

- [Adopt urban tree canopy](#) coverage and diversity goals that increase over time {16.3}
- [Implement organics collection](#) (residential food and yard waste) and associated composting {22.5}
- [Provide food waste prevention assistance and](#) food waste management assistance to help restaurants, to help food stores rescue food for food shelves, to help make food-to-hogs arraignments, and to increase food waste composting {25.2}
- [Increase materials reuse](#) with dedicated city staff time and funding to support second-hand/repair stores, Fix-it Clinics, organized garage sales, organized scavenging before large-item trash collection, Community Education classes {22.4}
- [Adopt a construction and demolition waste ordinance](#) that requires a level of recycling and reuse for building materials {22.8}

Energy Supply Policy Options

- ❖ For city operations
 - [Increase renewable energy](#) purchases/installed generation capacity over time to meet a net-zero greenhouse gas goal; purchases via community solar gardens, renewable energy credits or other means; generation via solar panels and anaerobic digestion, on city buildings and at waste-water treatment plants {15.2} and {26.5}
 - [Adopt a sustainable purchasing policy](#) that prioritizes energy-efficient, low-impact products and services, such as electric vehicles, for city operations {15.1} and {13.3}

❖ For community-wide

- [Adopt wind energy and/or biomass ordinances](#) that allow, enable or encourage appropriate renewable energy installations {26.1}
- [Certify as a solar-ready community](#), including an expedited permit process for residents and businesses to install solar energy systems {26.7}
- [Participate with utilities](#) in their energy-efficiency/renewable energy programs for residential customers {2.1}
- [Adopt a Property-Assessed Clean Energy](#) resolution to facilitate commercial energy-efficiency / renewable energy financing {26.3}
- [Assess district energy/co-generation](#) system options on a periodic basis for feasibility {26.6}
- [Adopt \(if a municipal utility\)](#) accelerating targets for renewable energy generation to meet a net-zero greenhouse gas goal {6.5}

Options selected from a review of:

- *Best Practice Actions and City Action Reports* (MN GreenStep Cities program: 2019) at <https://greenstep.pca.state.mn.us>
- *Climate Solutions and Economic Opportunities* (MN Environmental Quality Board: 2017) at <https://www.eqb.state.mn.us/content/climate-change>
- *High Impact Practices* (Urban Sustainability Directors Network: 2019) at <https://www.usdn.org/public/page/6/Projects>
- *Drawdown Solutions* (Project Drawdown: 2017) at <https://www.drawdown.org/solutions-summary-by-rank>

(6/6/19)

Resource Section 7

2019 Legislative Session Wrap-Up and next steps

2019 Legislative Accomplishments - 2019 legislative session

Energy Storage pilot program approved – to enable utilities to begin to find ways to do rate recovery for utility energy storage projects

Updated Property Assessed Clean Energy Legislation – to work better for commercial customers that want to make energy efficiency investments in their properties.

EAB: (LMC) <https://www.lmc.org/page/1/WaterInfrastructure.jsp?ssl=true>

Water/Wastewater: (LMC) <https://www.lmc.org/page/1/EABupdate.jsp?ssl=true>

Possible next Steps MN Cities can take to advance state-level low carbon policies

- **Connect with other cities seeking to advance specific policies**
 - o **Uniform stretch building code** (with Fresh Energy, Minneapolis, SLP, Edina, etc.) - contact Ben Rabe at Fresh Energy 651 726 7574 rabe@fresh-energy.org or Kim Havey City of Minneapolis, Sustainability Manager 612-673-3666 kim.havey@minneapolismn.gov
 - o **Stop over salting** (City of Edina) with Master Water Stewards. <http://stopoversalting.org/>
 - o **Transportation Forward** – transit and bike/ped funding <http://www.transportationforwardmn.org/>
 - o **100% Campaign** <https://www.100percentmn.org/>
 - o **Suggest policies for cities to sign on to support** via our Resilient Cities Coalition.
- **Ask Gov Walz to issue and Executive Order on Climate** – that includes asking the
 - o MPCA to write rules to adopt CA clean Car and Zero Emission Vehicle standards and
 - o The EQB to work in partnership with state agencies, NGOs, the U of MN and local communities to develop and launch the implementation of an MN economy wide climate action plan
 - that builds upon the previous CSEO report
 - adds prioritized actions local governments can take
 - and finds win/win solutions for advancing racial equity state wide (exec order 19-1)
- *Submit your comments for E.V. and diesel replacement funding* - the MPCA is now seeking input to help shape the second phase (2020-2023) of the V.W. Settlement funds. Send in your comments here <https://www.pca.state.mn.us/air/volkswagen-settlement>
- *Submit your comments for MN DOT's Pathways to Decarbonizing Transportation Study* www.dot.state.mn.us/sustainability/pathways.html

Participate in League of Minnesota Cities summer Policy Development Meetings –

<https://www.lmc.org/page/1/policy-committees.jsp> contact - Ted Bengtson IGR Administrative Coordinator, (651) 281-1242 tbengtson@lmc.org

Who can be on a policy committee?

Current city officials and staff are eligible. City councilmembers, mayors, city administrators, assistant city administrators, clerks, human resource staff, municipal elections officials, public safety staff, engineers, finance directors, economic development staff, and others have been members of the committees. Committee members can be new to their city position, have many years of experience, or be somewhere in between. While any member city may have more than one person serving on a committee, each city will have only one vote on policies or other committee business.

What typically happens during each of the three committee meetings?

At the first meeting in July, members hear a briefing of the previous legislative session from LMC staff, network with one another by sharing issues of interest that are related to the committee, and begin to look at policies to edit, delete, or add. At the second meeting in August, members usually hear from guest speakers from state agencies, interest groups, legislators, and other local officials to learn more about a specific issue of interest to the group. During the third meeting in September, members continue their work discussing edits to existing or new policies and vote to approve their policies.

What happens after the third policy committee meeting?

The League's Board of Directors hears about the work of each policy committee during a fall meeting, typically in October. Then, the draft policies are open for comment by all League members. Member comments are compiled in early November, and then the LMC Board makes the final adoption of the policies. During the next legislative session, the League's IGR staff use the policies to guide the League's legislative efforts at the Capitol.

When and where are the 2018 meetings?

- Improving Service Delivery Committee Monday mornings: July 15, Aug. 19, Sept. 16, 9:30 a.m.-12 p.m.
 - Improving Local Economies Committee Tuesdays mornings: July 16, Aug. 20, Sept. 17, 9:30 a.m.-12 p.m.
 - Human Resources & Data Practices Committee Tuesdays afternoons: July 16, Aug. 20, Sept. 17, 1:30-4 p.m.
 - Improving Fiscal Futures Committee Wednesday mornings: Aug. 17, Aug. 21, Sept. 18, 9:30 a.m.-12 p.m.
- All policy committee meetings are in the St. Croix Room, which is located on the first floor of the League building, 145 University Ave. W. in St. Paul.

What if I can't attend each meeting in person?

We offer GoTo Meeting, which is an online option for all meetings. Many members use this option to remain involved in committee discussions, regardless of their ability to come to the League's office in St. Paul.

What topics does each committee address? The topics include, but are not limited to, the following:

- **Improving Service Delivery Committee:** unfunded mandates, environmental mandates, elections, charter law, data privacy, government innovation and cooperation, and public safety.
- **Improving Local Economies Committee:** growth management, land use, boundary adjustments, housing, transportation, economic development, and telecommunications.
- **Improving Fiscal Futures Committee:** municipal financial management, property and other taxes, state aid programs, and financial reporting requirements.
- **Human Resources & Data Practices Committee:** employment law, labor relations, data practices, Open Meeting Law, personnel, and pensions.

<https://www.lmc.org/page/1/committee-signup.jsp>

Any interested officials may sign up at the link: <https://www.surveymonkey.com/r/DL2QH86>

LMC current Policies on Clean Energy, Efficient Buildings and Sustainable Transportation

- See Improving local economies
- [Download the 2019 City Policies \(pdf\)](#)

Resource Section 8 **National Examples of Successful Regional Collaboratives**

Regional Collaboratives for Climate Change – A State of the Art is the result of an extensive literature review and survey of 90 practitioners representing 15 Regional Climate Collaboratives (RCCs).

The report details how RCCs operate, their impacts in a regional capacity, key successes thus far, as well as barriers and gaps in capacity. After careful analysis, the report also establishes a framework for classification of RCC activity.

Over the past decade, a new form of networking for local climate change action has emerged at the metro-regional scale within the United States. Bound together by a shared focus on place, Regional Climate Collaboratives (RCCs), are harnessing the power of networks to build resilience to climate impacts and, in some cases, to reduce the emissions driving those impacts.

<http://us.sustain.org/wp-content/uploads/2019/04/Regional-Collaboratives-for-Climate-Change-FINAL-1.pdf>

- **Institute for Sustainable Communities** (in VT) <https://sustain.org/>

Connecting to Change the World - Harnessing the Power of Networks for Social Impact - Peter Plastrick

<https://islandpress.org/books/connecting-change-world>

- Building networks of like-minded organizations and people offers them a way to weave together and create strong alliances that get better leverage, performance, and results than any single organization is able to do.
- While the advantages of such networks are clear, there are few resources that offer easily understandable, field-tested information on how to form and manage social-impact networks. Drawn from the authors' deep experience with more than thirty successful network projects, *Connecting to Change the World* provides the frameworks, practical advice, case studies, and expert knowledge needed to build better performing networks.
- **Designing a Successful Network – nine key steps** – Purpose, Membership, Value Propositions, Coordination, Facilitation, and Communication, Resources, Governance, Assessment, Operating Principles

Seven Essential Capacities for Urban Climate Adaptation –

<http://lifeaftercarbon.net/2018/01/essential-capacities-for-urban-climate-adaptation/>

Seven Essential Capacities for Urban Climate Adaptation: A Framework for Cities, March 2017, developed by Innovation Network for Communities for the Summit Foundation. By Peter Plastrick <http://lifeaftercarbon.net/wp-content/uploads/2017/05/City-Adaptation-Essential-Capacities-March2017.pdf>

As part of an effective resiliency plan, we believe cities need to understand and develop strategies around the

1. **SCIENTIFIC FOUNDATION** Capacity to assess and understand climate risks and vulnerabilities of city's built, natural, and economic assets and its populations, and use these analyses for ongoing adaptation planning
2. **COMMUNICATIONS** Capacity to communicate with and educate civic leaders and community members in ways that build and sustain a sense of urgency to adapt for climate changes
3. **EQUITABLE ADAPTATION** Capacity to make social and economic equity a central driver of the city's adaptation approach
4. **INCLUSIVE COMMUNITY ENGAGEMENT** Capacity to fully engage stakeholders and the public, especially vulnerable and underrepresented populations, in developing, implementing, and monitoring adaptation plans
5. **INTERGOVERNMENTAL ALIGNMENT** Capacity to coordinate planning and action across governments at local, regional, state, tribal, and federal levels
6. **TECHNICAL DESIGN** Capacity to design, test, and implement adaptation actions that require engineering, legal, and other highly specialized details, as well as performance metrics for monitoring
7. **FINANCIAL RESOURCES** Capacity to repurpose, leverage, and obtain public and private funds to invest in infrastructure development and other adaptation action

Emergent Strategy – a book by **adrienne maree brown** – describes wonderful ways to prevent burn out and to embody the world you want to create. <https://www.akpress.org/emergentstrategy.html>

- **Principles of Emergent Strategy**
https://resist.org/sites/default/files/emergent_strategy_principles_and_elements_0.pdf