# Greater MN CERTS Meeting Feedback for 2025 Energy Planning Project

### High Level Takeaways from Greater MN CERTs Meetings

#### Mobility and Transportation

- Use of technology, Uber like app, for ride sharing.
  - o Could focus on larger employers (state agencies)
  - o Mentioned at all three meetings (data mobile transit app)
- Transit
  - o Drop the use of mass before transit
  - o Describe as coordinated or just use public or transit
  - o Transit plus movement of goods. Transit doesn't just mean moving people.
  - o Need to include low income, elderly, veterans make sure it is inclusive
- Telecommuting
  - o Targeted at larger employers or state agencies.
  - o Facilitate increased use of telecommuting (coordinate schedules)
- Electrification strategies
  - o Benefit for tourism to appeal to cabin crowd or people traveling from metro to greater MN
  - o Fleet electrification for moving goods

#### Energy Supply and Grid Modernization

- Focused on supply side opportunities instead of grid modernization. Building up supply side more of an opportunity emphasize distributed generation.
- Major difference between IOUs and Coops. Don't have a good solution set of DG in coop territory
- Emphasis on assets land to develop solar, access to biomass. Should be developed here instead of anywhere else.
- Improving utility green power options and evolving tariffs/pricing mechanisms, rules and contracts are very similar. Should be combined if not already.
- For business model discussions, make sure to include treatment of cooperatives. Also applies to power purchase contracts.
  - o Toolkit for cities and DG customers to have information on what to consider when updating PPA or franchise agreement.
- Need better education from non-utility resources. Utility cannot be the only source for education on these issues.
- Utility service territories butt up against one another. An IOU will be on side of the street and then a coop or a muni on the other. Not as neatly separated as the metro.

#### Energy Efficient Buildings and Thermal Energy

- Scaling up EE in existing buildings was important in all three meetings
  - o Old building stock in greater MN that should be targeted

- o Low property rental values
- o Jobs and economic development opportunities new construction market is depressed
- If you have no NG utility, there is not opportunity for thermal efficiency (no CIP).
  - o Targeted thermal incentives for delivered fuels
- Code adoption is important
- Higher cost of energy and more low income citizens
- Pilot behavioral strategies (Mankato and Grand Rapids)
- Solar thermal/ground source heat pumps are important for delivered fuel customers
- Incentives should be simplified and available regional wide
- More need to address low income populations across several strategies

### Industry and agriculture

- On-farm use of renewable fuels, specifically biodiesel
- CHP
  - o Market opportunity studies/inventories on a regional basis
  - o Case studies of successful projects that correspond with assets that exist in the various regions (e.g. successful CHP at biofuel plant)
- Lots of organic matter in Greater MN is a resource
  - o Anaerobic digestion
  - o Mapping of available resources for anaerobic digestion
- Industrial efficiency
  - o Different solution sets for different industries
  - Perception that we've gotten a lot of the opportunity in industry already. Is that true? Is it true across industries?
  - o Assessing energy opportunities in industrial sector needs tailored sector-bysector approach
    - Incorporate: efficiency, DG, CHP, waste product utilization

### Energy and Climate Planning and Action

- Reforming utility model did come up, but the frustration is with coops.
  - o What will E21 do for the distribution level?
  - o Power purchase contracts limit utilities flexibility to buy renewable power and DG; business want more options.
  - o Coops and munis are not subject to PUC regulation. People want to see more RE, but feel constrained.
- Regional development commissions as a resource (Region 5 Resilient Region plan)
  - o RDC could be a resource for local planning, businesses and citizens
- Tribal governments should be included in the various strategies discussion
- Region has low population and gets little attention and resources
- State level doesn't respect and protect resources here.

## Dot Voting on Technologies and Strategies

### Mankato

Mobility, Transportation and Fuels

Technology/Strategy	Round 1
Electrification of mass transit	
Fleet electrification or low-emission alternative fuel vehicles (city, state,	
corporate fleets)	
Increase adoption of electric vehicles/alternative fuel vehicles	
Modernizing parking infrastructure to reduce vehicle miles traveled (VMT)	
Regionally coordinated (rural) mass transit – buses to dial a public transit	2 dots
Open transportation data and mobile transit app development (added)	3 dots
Alternative transportation strategies such as carpooling and vanpooling	1 dot
(added)	

Energy Supply and Grid Modernization

Technology/Strategy	Round 1	Round 2
Encourage evolution of integrated/smart grid		2 dots
Expand/improve utility green power options	2 dots	
Address metering infrastructure and smart inverters		
Expand distributed generation (solar) and management of grid resources	1 dot	4 dots
Evolving tariffs/pricing mechanisms	1 dot	3 dots
Distributed solar (added:2)		1 dot
Deploy energy storage (battery, hot water, pumped hydro, etc.) (added:2)		1 dot

Efficient Buildings and Thermal Energy

Technology/Strategy	Round 1	Round 2
Scale energy efficiency in existing buildings	2 dots	1 dot
Pilot behavioral strategies	2 dots	
Support distributed generation and Combined Heat & Power (CHP)	1 dot	
Analysis of current programs that are working well or to improve (persistence	1 dot	
in savings)		
Zero energy or low-energy goals for new buildings (projections needed)		

Advanced grid and thermal grids		1 dot
Increase building energy efficiency standards (added:1)	1 dot	
Deploy solar thermal technology (added:1)	1 dot	
Increase building energy efficiency standards (added:2)		1 dot
Deploy ground source heat (added:2)		1 dot

### Industry and Agriculture

Technology/Strategy	Round	Round 2
Deploy (evaluate) CHP		-
Commercialize advanced biofuels and biobased chemicals	2 dots	3 dots
Capture organic feedstocks through anaerobic digestion	3 dots	3 dots
Promote industrial and agricultural efficiency practices	2 dots	
Increase use of biomass for thermal energy (added:1)	1 dot	
Promote advanced manufacturing for efficiency improvements (added:1)		
Ag industry as energy self-sufficient		2 dots

## Energy and Climate Planning and Action

Technology/Strategy	Round 1	Round 2
Reform the utility regulatory model	1 dot	4 dots
Start advanced energy cluster organization	3 dots	1 dot
Local government sustainability and climate action planning	2 dots	
Regular state level planning to support/encourage local action	2 dots	2 dots

# Staples

Mobility Transportation and Fuels

Technology/Strategy	Round	Round
	1	2
Electrification of mass transit (+goods)	2 dots	
Fleet electrification or low-emission alternative fuel vehicles (city, state,		3 dots
corporate fleets)		
Increase adoption of electric vehicles/alternative fuel vehicles	2 dots	2 dots
Modernizing parking infrastructure to reduce vehicle miles traveled (VMT)		

Regionally coordinated mass transit	2 dots	1 dot
Increased availability of higher biofuel blends to consumers (added:1)	1 dot	
Increased production of advanced and cellulosic biofuels (added:1)	1 dot	
Open transportation data and mobile transit app development (added: 2)		

Energy Supply and Grid Modernization

Technology/Strategy	Round	Round 2
Encourage evolution of integrated/smart grid		1 dot
Expand/improve utility green power options Increase customer choice and	2 dots	
access to own or to buy (reworded for group 1)		
Address metering infrastructure and smart inverters		
Expand distributed generation and management of grid resources/Extend CIP	4 dots	2 dots
to delivered fuel providers (reworded for group 1)		
Evolving tariffs/pricing mechanisms	1 dot	
Deploy energy storage (battery, hot water, pumped hydro, etc.) (added:1)	2 dots	
Distributed solar (added:2)		2 dots
Deploy microgrids (added:2)		2 dots

## Efficient Buildings and Thermal Energy

Technology/Strategy	Round 1	Round 2
Scale energy efficiency in existing buildings	4 dots	5 dots
Pilot behavioral strategies	3 dots	3 dots
Support distributed generation and Combined Heat & Power (CHP)		1 dot
Analysis of current programs that are working well or to improve (persistence		
in savings)		
Zero energy or low-energy goals for new buildings (projections needed)	2 dots	6 dots
Advanced grid and thermal grids		1 dot
Deploy solar thermal technology (added:1)	1 dot	
Deploy ground source heat (added:1)		
Promote tracking and reporting of building energy use (added:1)		

### Industry and Agriculture

Technology/Strategy	Round 1
Deploy CHP	4 dots

Commercialize advanced biofuels and biobased chemicals	4 dots
Capture organic feedstocks through anaerobic digestion	3 dots
Promote industrial efficiency practices	1 dot

Energy and Climate Planning and Action

Technology/Strategy	Round 1	Round 2
Reform the utility regulatory model	5 dots	4 dots
Start advanced energy cluster organization		3 dots
Local government sustainability and climate action planning	2 dots	7 dots
Regular state level planning to support/encourage local action	5 dots	4 dots
Corporate commitments on climate and energy (added:2)		

# Grand Rapids

Mobility Transportation and Fuels

Technology/Strategy	Round
Electrification of mass transit	•
Fleet electrification or low-emission alternative fuel vehicles (city, state,	
corporate fleets)	
Increase adoption of electric vehicles/alternative fuel vehicles	
Modernizing parking infrastructure to reduce vehicle miles traveled (VMT)	
Regionally coordinated mass transit	2 dots
Bike commuting strategies such as enhanced infrastructure, safety measures,	3 dots
parking, incentives (added)	
Increased production of advanced and cellulosic biofuels (added)	2 dots
Support/ Incentives for telecommuting programs (added)	3 dots
Alternative transportation strategies such as carpooling and vanpooling	2 dots
(added)	
Car/bike/ride share programs (added)	
Increased adoption of propane vehicles (added)	2 dots

Energy Supply and Grid Modernization

Technology/Strategy	Round 1	Round 2
Encourage evolution of integrated/smart grid	3 dots	1 dot
Expand/improve utility green power options	2 dots	1 dot
Address metering infrastructure and smart inverters	1 dot	
Expand distributed generation and management of grid resources	1 dot	
Evolving tariffs/pricing mechanisms	1 dot	
Modernize existing infrastructure (added:1)	4 dots	
Integration of energy sectors (added:1)		
Deploy energy storage (battery, hot water, pumped hydro, etc.) (added:2)		2 dots
Seat at the table for PUC decisions		2 dots

Efficient Buildings and Thermal Energy

Technology/Strategy	Round	Round 2
Scale energy efficiency in existing buildings	6 dots	
Pilot behavioral strategies	2 dots	3 dots
Support distributed generation and Combined Heat & Power (CHP)	2 dots	1 dot
Analysis of current programs that are working well or to improve (persistence		2 dots
in savings)		
Zero energy or low-energy goals for new buildings (projections needed)		2 dots
Advanced grid and thermal grids		
Promote tracking and reporting of building energy use (added:1,2)	2 dots	2 dots
Deploy biomass thermal energy (added:1)	2 dots	
Energy storage (added:1)	4 dots	
Green infrastructure (trees, shrubs) (added:1)		2 dots
Increase building energy efficiency standards (added:1)		1 dot

## Industry and Agriculture

Technology/Strategy	Round 2
Deploy CHP	
Commercialize advanced biofuels and biobased chemicals	3 dots
Capture organic feedstocks through anaerobic digestion	

Promote industrial efficiency practices	3 dots
Biomass for thermal energy (added:2)	2 dots

## Energy and Climate Planning and Action

Technology/Strategy	Round 1	Round 2
Reform the utility regulatory model	4 dots	8 dots
Start advanced energy cluster organization	1 dot	3 dots
Local government sustainability and climate action planning	5 dots	5 dots
Regular state level planning to support/encourage local action	2 dots	