

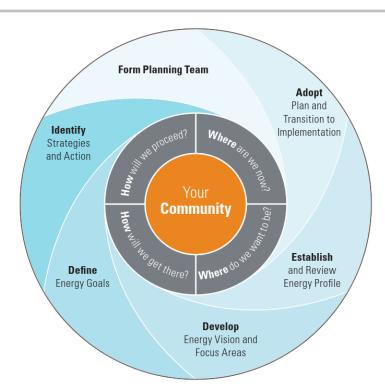
Partners in Energy Empowering Community Energy Planning

2019 APA Upper Midwest Planning Conference

Partners in Energy



- Two-year collaboration with Xcel Energy to develop and implement community's energy plan goals
- Xcel Energy provides tools and resources to enable communitydriven energy planning and implementation
- Majority funded in MN and CO through conservation programs



Xcel Energy's Benefits



- Develop a better understanding of the energy needs of communities we serve
- Better align the services and programs we offer with customer needs to save energy and advance clean energy goals
- Strengthen relationships with the community and support the Xcel Energy philosophy of community engagement



Photo by Meet Minneapolis / CC BY



Photo by Tina Chen / CC Photo by Tanner Ford /



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Xcel Energy

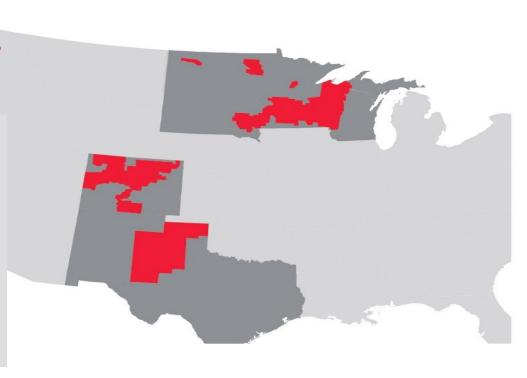


Serving eight states

- 3.6 million electricity customers
- 2 million natural gas customers

Nationally recognized leader:

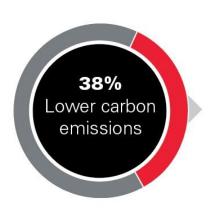
- Wind energy
- Energy efficiency
- Carbon emissions reductions
- Innovative technology
- Storm restoration



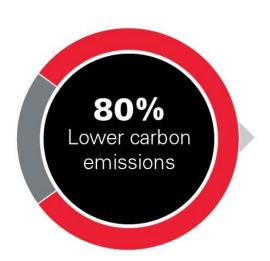
Our carbon-free future



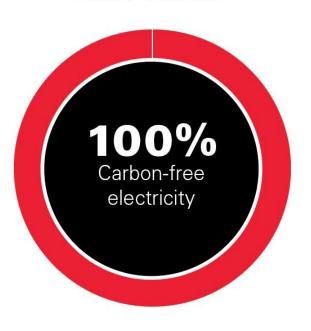




2030 Goal



2050 Vision



Company-wide emissions reductions from the electricity serving our customers, compared to 2005

Upper Midwest Energy Plan











Close coal plants

Retire the last of our coal plants in the Upper Midwest by 2030, a decade earlier than planned

Add renewables

Add at least 3,000 megawatts of solar by 2030, enough to power more than 650,000 homes each year, and complete our largest-ever wind expansion by 2022

Continue carbon-free nuclear

Start the process to gain regulatory approval to run our carbon-free Monticello nuclear plant until at least 2040

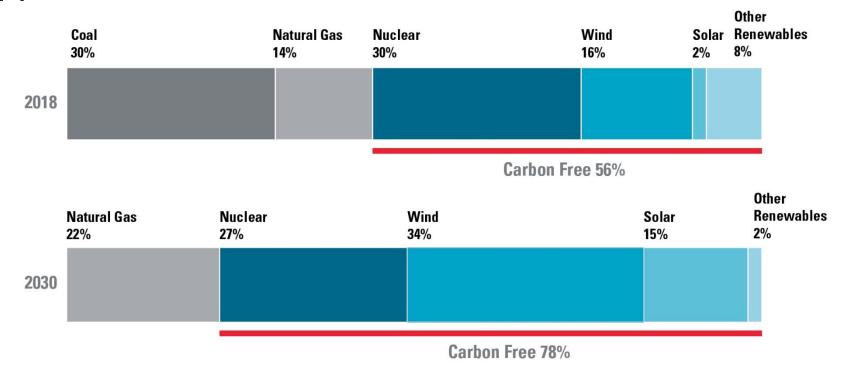
Bridge to carbon-free

Use natural gas-fired plants in the coming years as a reliable, cleaner source of electricity as we bridge toward future carbon-free technologies

A cleaner energy mix



Upper Midwest



Energy Planning



- Creating a plan with shared energy vision
 - Energy savings and reduction goals
 - Carbon reduction goals
 - Focus areas and target areas
 - Strategies
- Engaging stakeholders in planning
- Planning allows you to achieve (or establish) your energy savings and carbon reduction goals

Why You Should Plan



- Create unified vision for your community's energy future
- Identify implementation steps for achieving goals
- Improve community benefits
 - Economic development
 - Public health
 - Environmental

Minnesota & Wisconsin Communities





Map Credit: Google Maps 2019

Completed Implementation

- City of Eden Prairie
- City of Edina
- City of Faribault
- City of Mahtomedi
- City of Maplewood
- City of Oak Park Heights
- City of Red Wing
- City of St. Louis Park
- City of Shorewood
- City of Winona
- Lake Street Corridor in Minneapolis
- Ramsey Co. Parks and Recreation Dept.

Implementing their Plans

- City of Bloomington
- City of Fridley
- City of Hastings
- City of Northfield
- City of Rosemount
- City of St. Cloud
- City of Saint Paul

Developing their Plans

- City of Eau Claire, WI
- City of Minnetonka
- Saint Paul Public Schools

Plan Development Steps



1. Anchoring

2. Baseline

3. Vision

4. Focus Areas

5. Draft Goals

6. Divergent Strategies

7. Convergent Strategies

8. Goal Refinement

9. Action Planning

10. Plan Finalization

11. Launch



Tools for Successful Energy Planning



- Community commitment
 - Staff resources
 - Executive support
- Stakeholder engagement
 - Diverse planning group
 - Different perspectives

- Data
 - Energy consumption
 - Energy savings/Renewable energy
 - Community demographics
- Utility partnership

What Energy Planning Can't Do



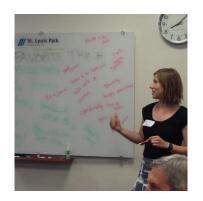
- Address non-energy related carbon emissions
 - Waste
 - Land use
 - Transportation
 - Food
- Utility infrastructure
 - Resiliency planning

- Utility constraints
 - State policy
 - Cost of programs can't be shouldered by one customer to benefit others

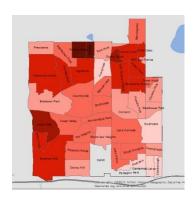
Xcel Energy Resources for Planning



A variety of resources are available to support the planning phase.



Facilitation & Guidance



Data



Project Management

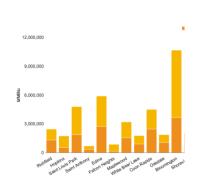
Xcel Energy Resources for Implementation



A variety of resources are available to support the implementation phase.



Marketing and Communications



Data Tracking/ Measurement



Program Expertise



Project Management

Partners in Energy Impact Upper Midwest







Average DSM Savings per Community in 2018

Total Participants in DSM & Renewable Programs in 2018















Case Study: Eden Prairie, MN



Savings Since Implementation Launch (October 2017)

1,218,025
Residential kWh saved

14,322,637 Non-residential kWh saved

5,887
Greenhouse Gas Emissions
Avoided

(Metric Tons CO₂)

\$1,383,706 Estimated Dollars Saved

- Vision: Sustainable energy solutions for Eden Prairie
- Goal: Reduce greenhouse gas emissions 30% by 2025, 80% by 2050 below a 2015 baseline
- Focus Areas:
 - Residential Energy
 - Large Commercial & Industrial Energy Users
 - Public, Nonprofit, and Service Organizations



Case Study: St. Cloud, MN



 Vision: We are energy leaders through voluntary, inclusive, sustainable approaches that result in measureable, environmental, and economic benefits.

3 Focus Areas:

- Education Goal: Increase energy awareness for individuals regarding actions and behaviors
- 2. Conservation Goals: x2 utility efficiency program participation, save \$638,000 in first 12-18 months
- Renewable Energy Goal: Help C&I businesses replace 21.8 million kWh of electricity with renewables by 2026

