

CENTER FOR ENERGY AND ENVIRONMENT

Joe Sullivan, Manager of Legislative and External Relations
Jamie Fitzke, Manager of Program and Policy

**House Energy and Climate
Finance and Policy Committee**

January 29, 2019

Speaker Bios



Joe Sullivan

- Manager, Legislative and External Affairs
- Formerly with Flaherty and Hood P.A., representing
 - Coalition of Greater MN Cities
 - Missouri River Energy Services
- J.D., University of Wisconsin Madison



Jamie Fitzke

- Manager, Program and Policy
- 17 Years experience small business efficiency programs
- M.P.P., Humphrey Institute of Public Affairs, University of Minnesota

Cee's Approach



Data Driven

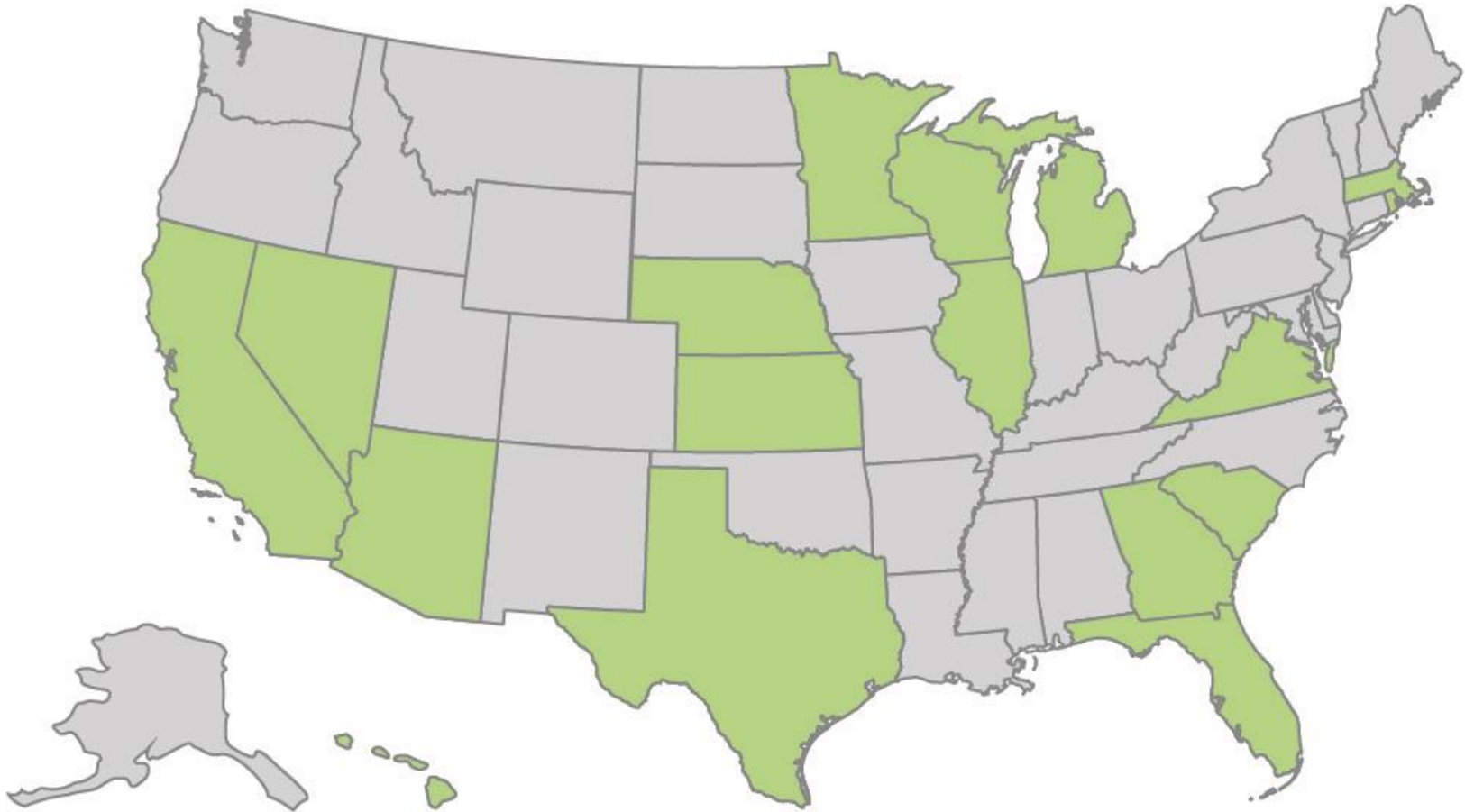


Community Based

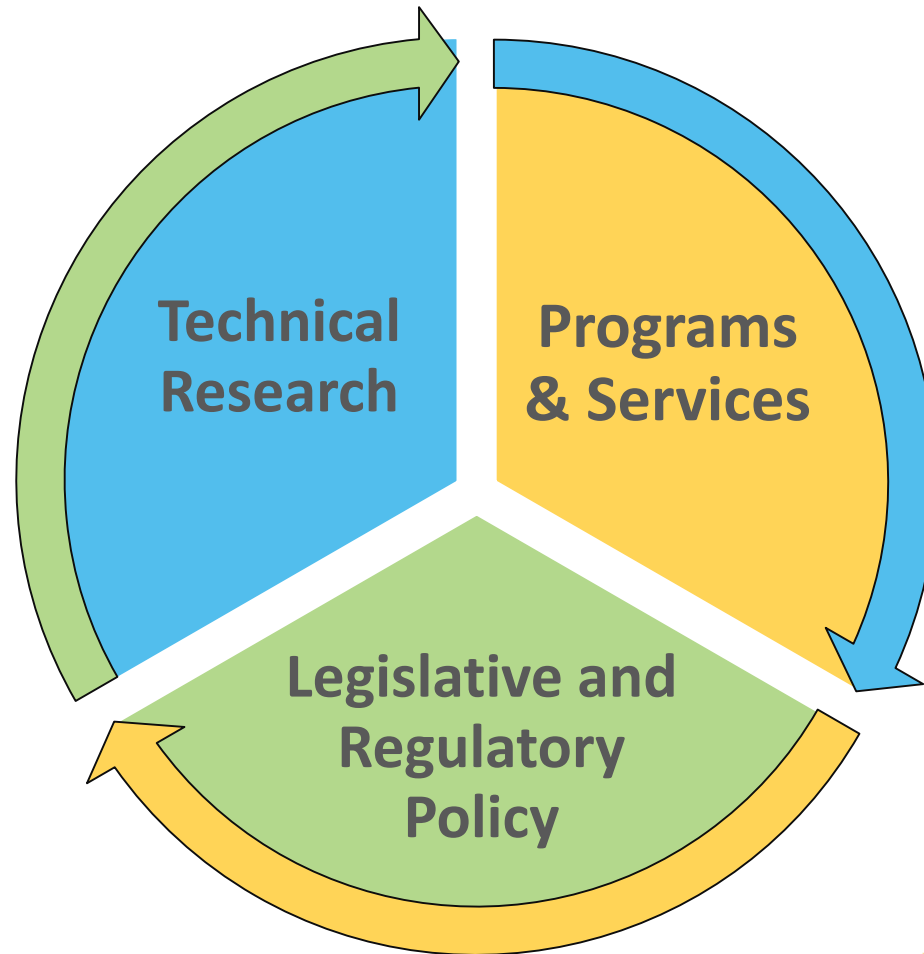


Consumer Focused

Our Impact Around the Country



Integrated Focus on Reducing Energy Waste





Technical Research

Current Examples:

- **Cold Climate Air Source Heat Pump Assessment**
 - w/ Great River Energy, Electric Power Research Institute
- **Field Study of a Moisture and Heat Transfer Furnace Retrofit Device**
 - w/ Gas Technology Institute
- **Field Study of Intelligent, Networked, Retrofittable Water Controller**
 - w/ Gas Technology Institute

Programs and Services





Award-Winning Programs

- **One Stop Efficiency Shop[®] for Small Business – Xcel Energy**
 - Small business customers of Xcel Energy will save over \$800 million from the measures installed to date
- **Home Energy Squad – CenterPoint Energy and Xcel Energy**
- **Xcel Energy's Partners in Energy**
 - A two-year collaboration between a community and Xcel Energy to develop and implement a community's energy plan goals
 - Xcel Energy provides tools and resources to enable community-driven energy planning with support for implementation

Advanced Energy Projects



Minnesota Solar Pathways



Destination Medical Center (Rochester)



Minnesota e21 Initiative



Strategic Electrification

HISTORY OF UTILITY FUNDED EFFICIENCY IN MN

1980:
PUC directed to initiate a pilot to demonstrate the “feasibility” of investments in EE

1989: All Public utilities were required to operate conservation improvement programs. Oversight transferred from PUC, low-income requirements added.

1991:
A specific level of spending was required (1.5% electric, 0.5% gas) & munis and coops were included.

2007:
1.5% Savings Goal for Utilities is Enacted

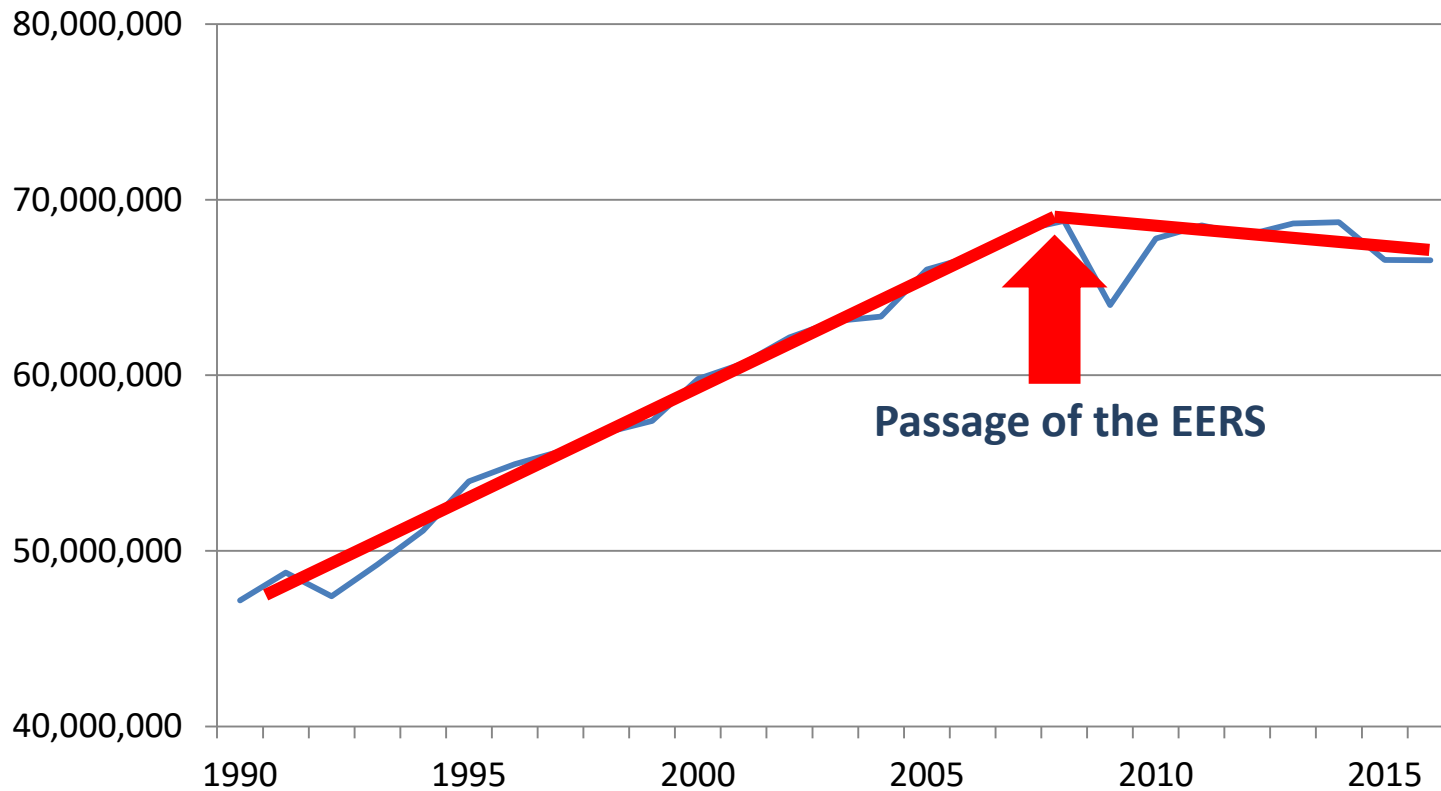
1983: Utilities with revenues greater than \$50 million were required to operate at least 1 conservation program. Required “significant” investment.

1994: Prairie Island settlement required [Xcel] to spend 2.0% of their annual GOR. Programs began to be evaluated against a pre-set goal.

2010:
1.5% Savings Goal for Utilities takes Effect

Load Growth Met By Efficiency

Minnesota MWh Retail Sales



Conservation Improvement Program (CIP)

THE COST TO
save
a kilowatt-hour of
electricity is under
2 cents

EFFICIENCY
MAKES CENTS

THE COST TO
buy
a kilowatt-hour of
electricity is well over
8 cents

Minnesota
has saved
\$6 Billion
in the last
20 years

ENERGY EFFICIENCY

supports over

47,000

Minnesota jobs



EFFICIENCY KEEPS
RATES LOW

Efficiency avoids the need for new
power plants, which all customers
pay for through their electric rates

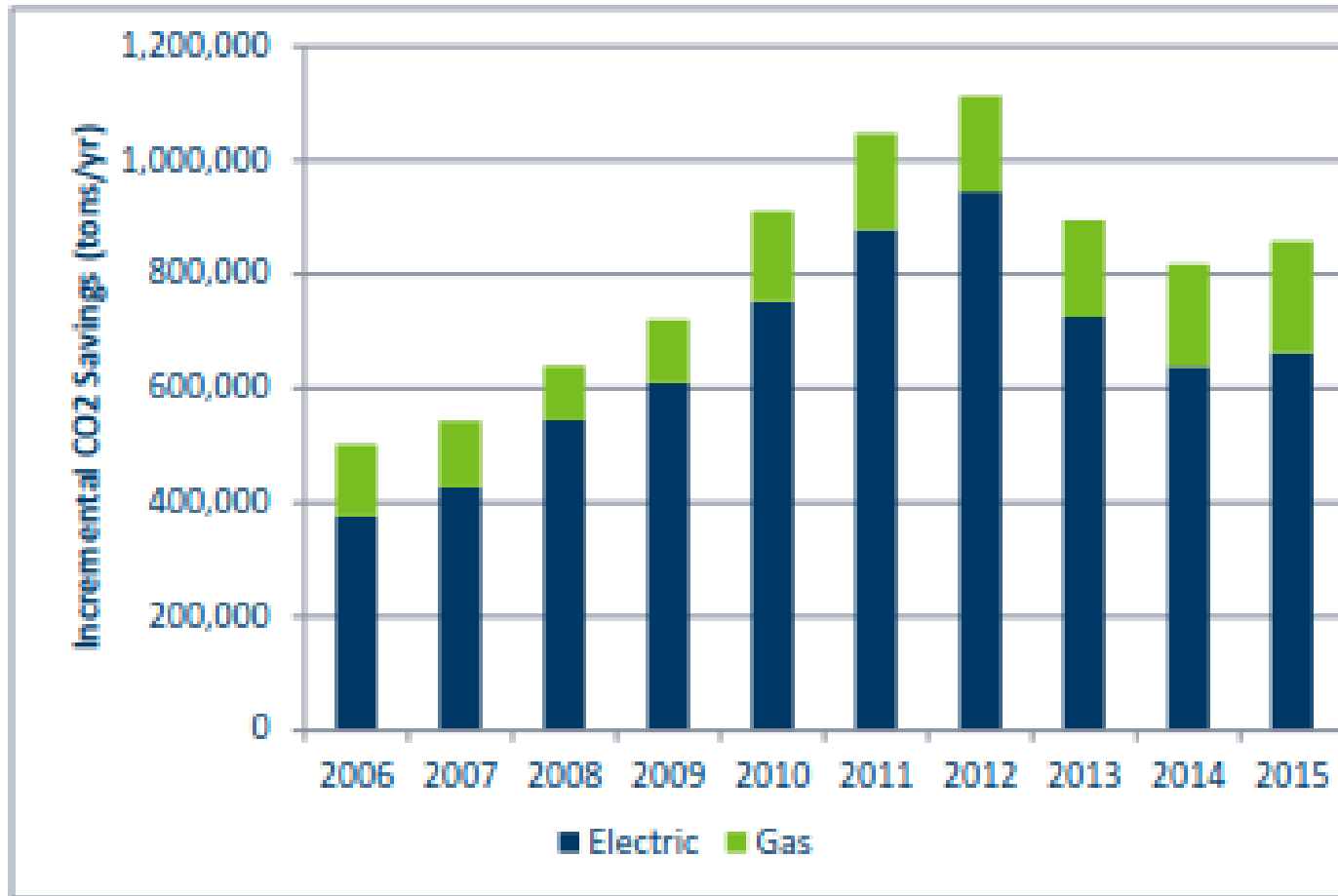




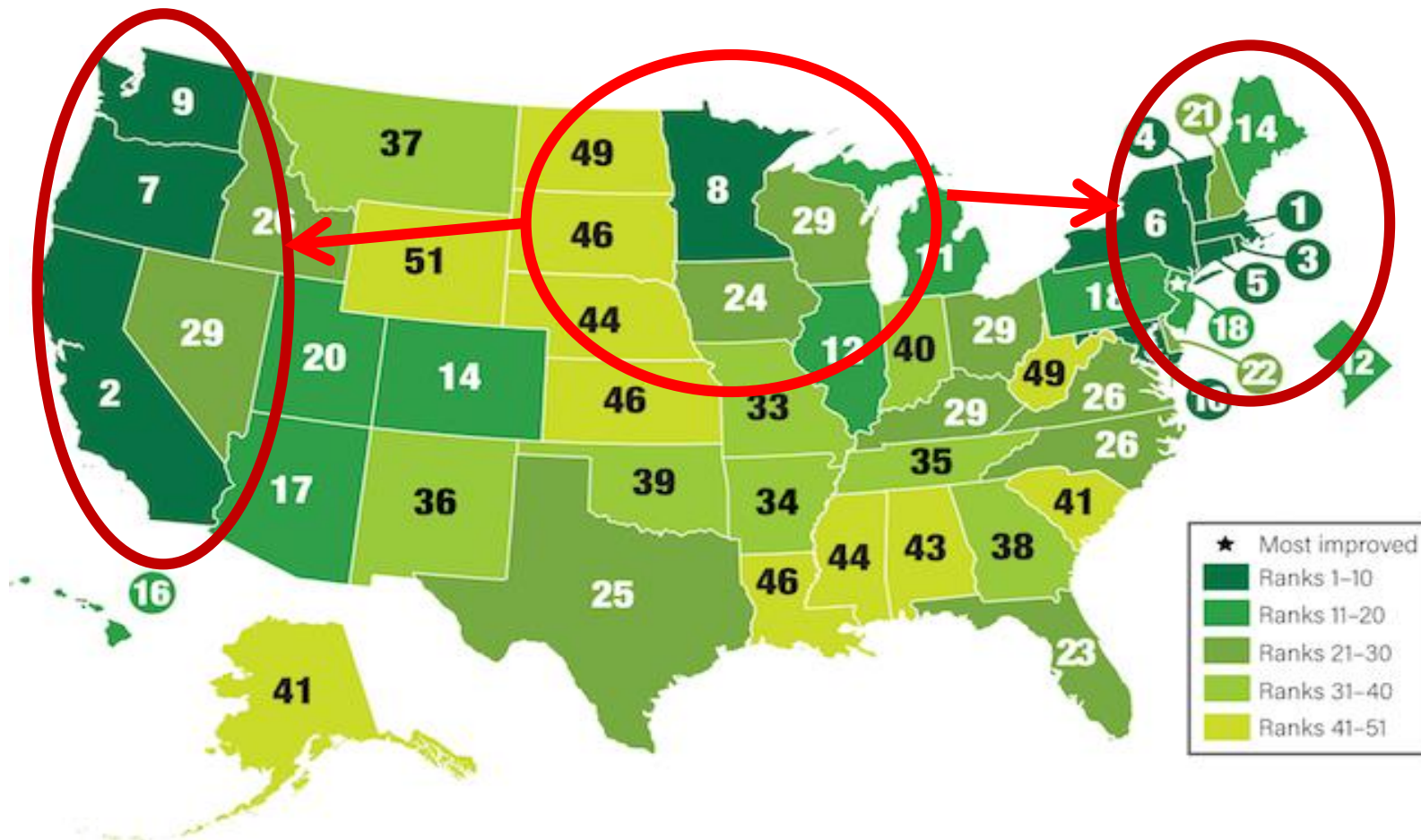
Benefits Of Energy Efficiency

- Allows customers to control their energy bills
- Avoids or delays additional utility infrastructure investment
 - Reduces the cost of replacement resources
 - Reduces risks associated with resource replacement timing, cost, difficulty
- Reduces the wholesale cost of power supply by reducing demand
- Keeps energy dollars local

• And Efficiency Avoids GhG Emissions



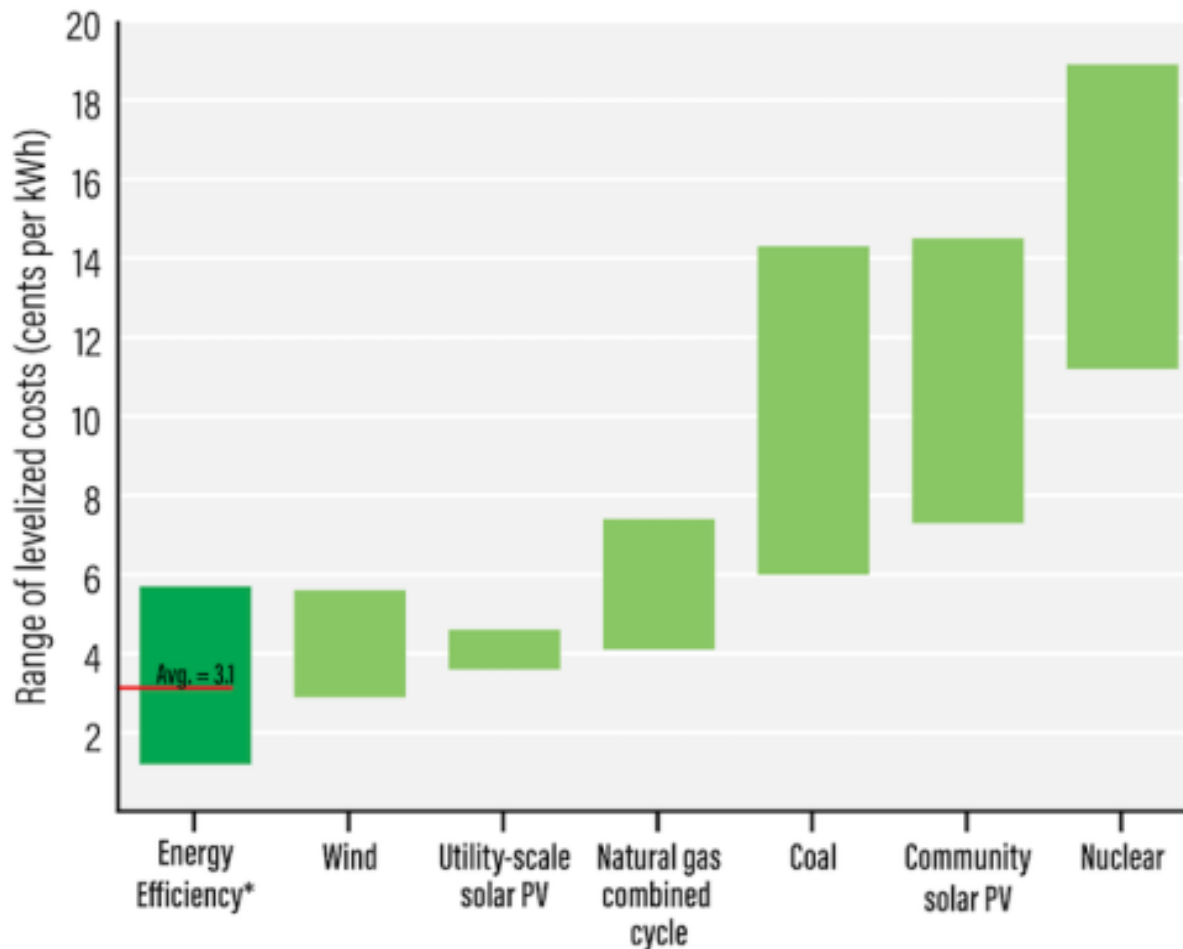
● ONLY NON-COASTAL STATE IN ACEEE TOP 10



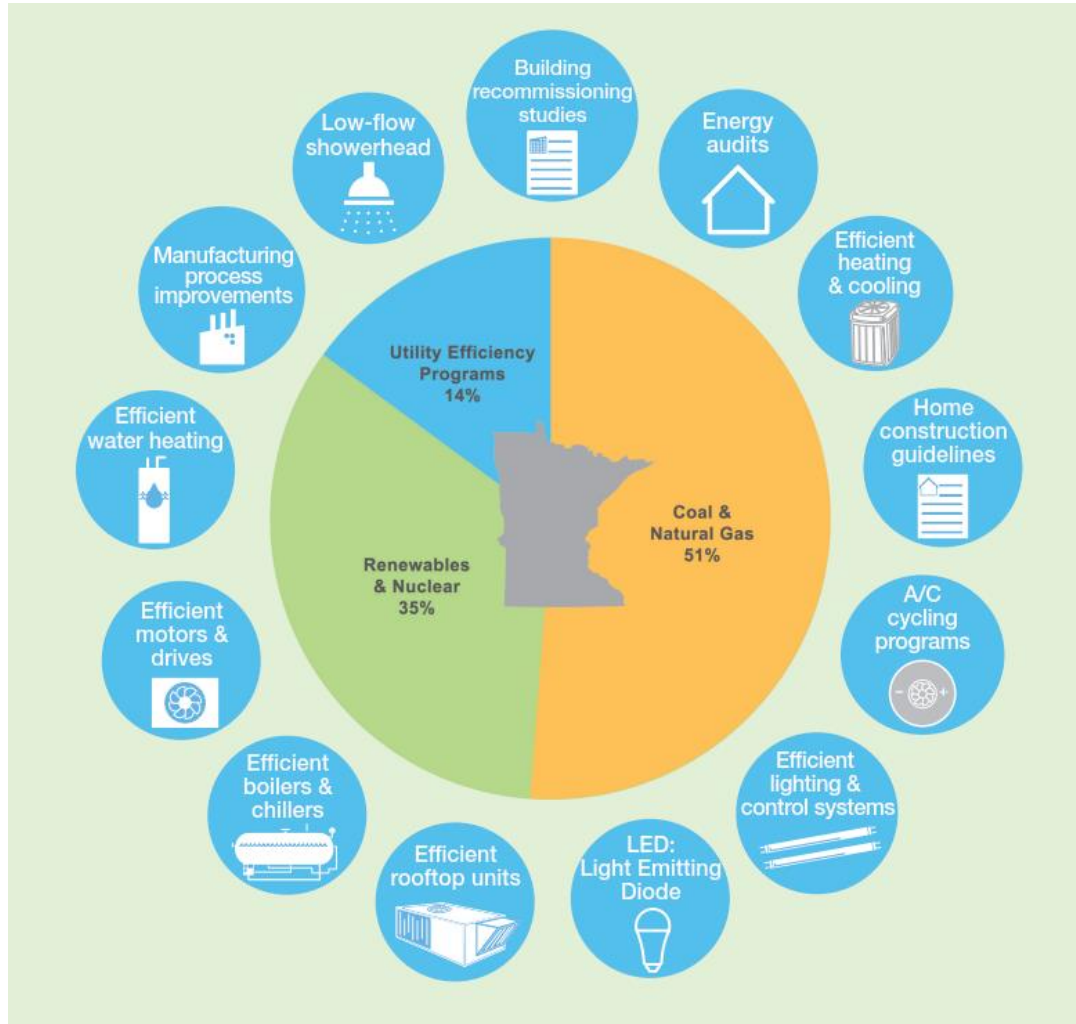
Cost of Efficiency in Minnesota

State	ACEEE Ranking	Electric spending (\$/kWh)	Gas spending (\$/therm)
Massachusetts	1	\$0.34	\$7.39
California	2	\$0.35	\$6.02
Rhode Island	3	\$0.37	\$5.89
Vermont	4	\$0.39	\$3.68
Oregon	5	\$0.29	\$3.56
Connecticut	6	\$0.43	\$6.17
Washington	7	\$0.21	\$3.83
New York	7	\$0.27	\$5.12
Minnesota	9	\$0.19	\$1.76
Maryland	10	\$0.33	\$9.88

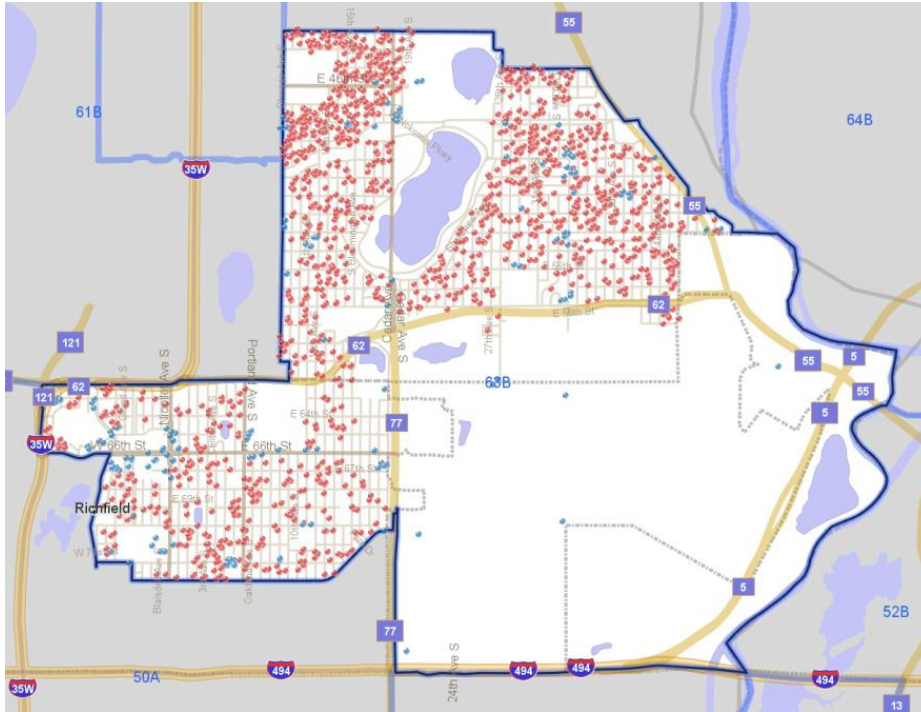
Cost Effectiveness of Energy Efficiency



Conservation Improvement Program (CIP)



House District 63B – Representative Jean Wagenius

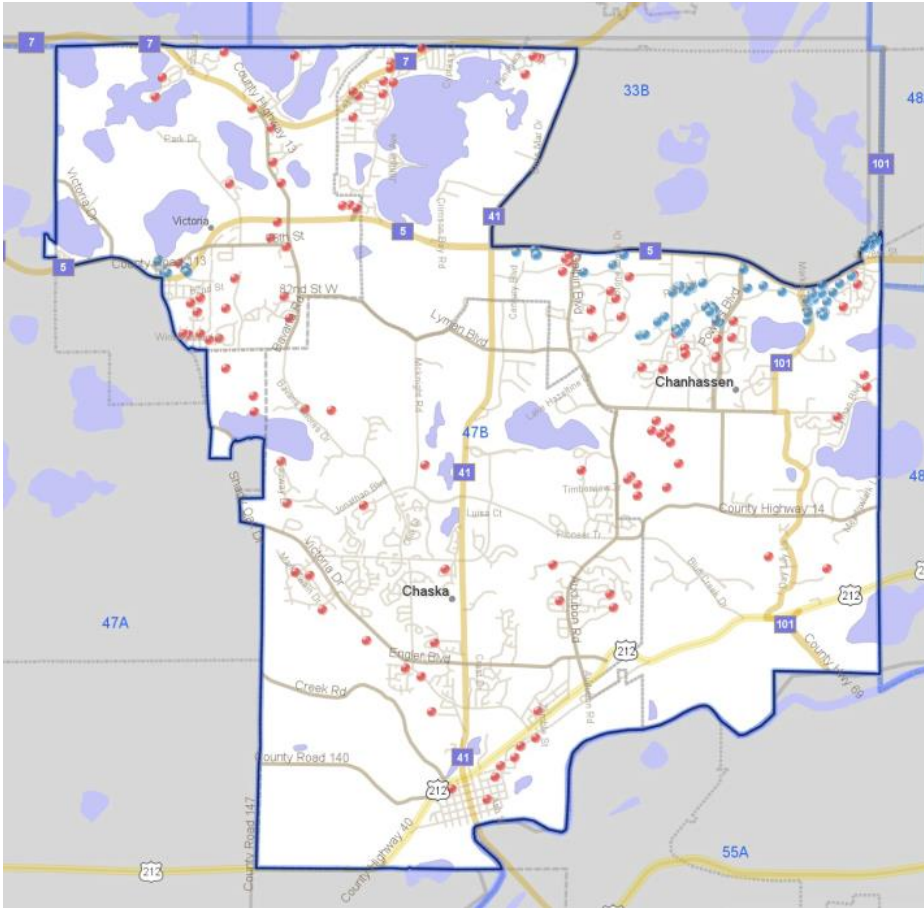


*Data Privacy: Locations are randomized

CEE CIP in District 63B

- 157 One Stop Efficiency Shop® jobs completed
- 1308 Home Energy Squad visits
- 4,587,639 total kilowatt-hours saved
- Over \$456,000 in yearly electricity savings

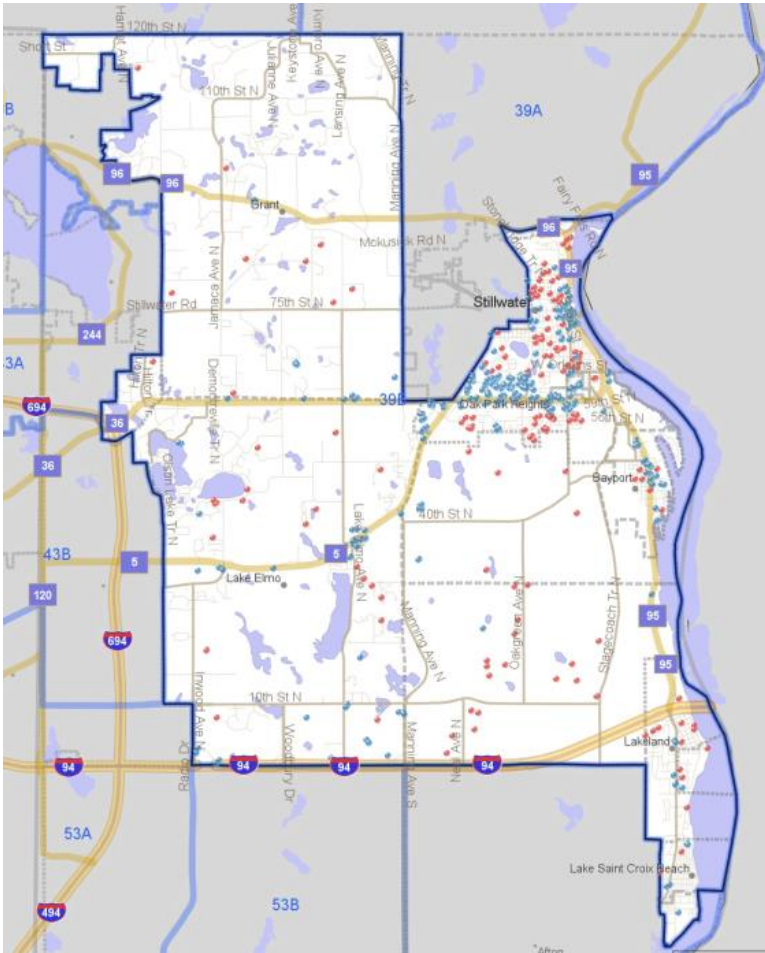
House District 47B – Representative Greg Boe



CEE CIP in District 47B

- 73 One Stop Efficiency Shop® jobs completed
- 113 Home Energy Squad visits
- 2,594,046 total kilowatt-hours saved
- Over \$218,000 in yearly electricity savings

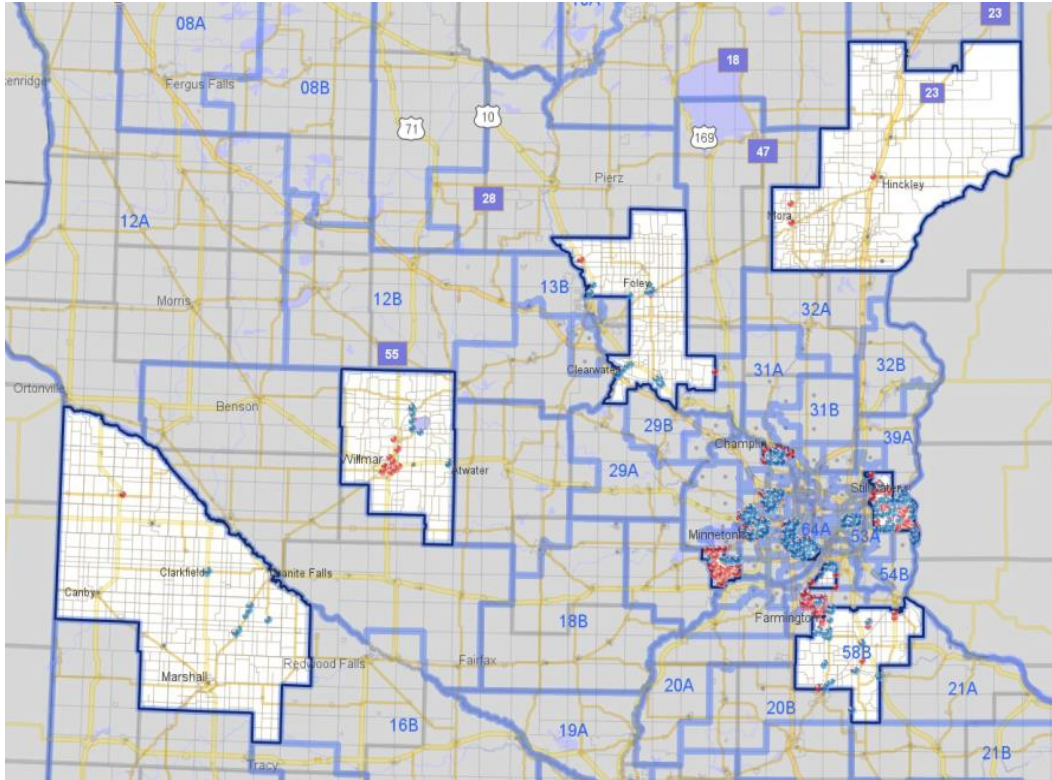
House District 39B – Representative Michelle Christensen



CEE CIP in District 39B

- 324 One Stop Efficiency Shop® jobs completed
- 160 Home Energy Squad visits
- 9,538,694 total kilowatt-hours saved
- Over \$781,800 in yearly electricity savings

Minnesota House Energy and Climate Committee



CEE CIP in MN House Energy and Climate Committee Districts

- 2,564 One Stop Efficiency Shop[®] jobs completed
- 6,100 Home Energy Squad visits
- 83,100,000 total kilowatt-hours saved
- Over \$7,300,000 in yearly electricity savings



CEE Legislative Initiatives

- **Energy Conservation and Optimization (“ECO”)**
 - Integrate Efficient Fuel Switching and Demand Response into CIP, while preserving MN’s nation-leading efforts on Energy Efficiency
 - Arose from discussions with Potential Study Advisory Committee
- **Clean Energy First**
 - Require that whenever an electric utility has forecasted need for new generation, it must look first to fill that need through Clean Energy Resources
 - Renewable Energy, Efficiency, Demand Response and Energy storage
 - Enhance focus on community and worker transition planning, and transmission planning in advance of power plant retirements

We Look Forward to Working with You!





THANK
you!

