

2025 Energy Planning
Project
Stakeholder Advisory Committee
Meeting #1

July 30, 2015

Wilder Foundation

Welcome!

Representative Pat Garofalo,
Co-Chair Legislative Energy Commission



Senator John Marty,
Co-Chair Legislative Energy Commission



Bill Grant, Assistant Commissioner
Minnesota Department of Commerce



2025 Minnesota Energy Planning Project – Overview

Annie Levenson Falk – Legislative Energy Commission

Project Purpose

- Recommend next steps to leverage **near-term opportunities** for a clean, affordable, reliable, and resilient energy system
- Develop **action plans** to advance a number of **strategies** and **technologies** for clean, efficient energy between now and 2025

Project Deliverables

- **Baseline metrics** that depict the state's energy landscape.
- **Outcome indicators** to track and communicate the impacts of strategy implementation.
- **Action plans** to significantly advance technologies and/or strategies for clean and efficient energy.

Project Team Members



Legislative
Energy
Commission

Role: Project guidance, management, and interface with legislature and state government



Role: analysis and roadmap development



Role: committee facilitation and stakeholder engagement



Role: metrics and indicators

Additional Project Partners

U.S. Department of Energy

Energy Efficiency and Renewable Energy
State Energy Program

Role: primary project funding and
technical support on federal resources

**Energy Systems
Consulting Services, LLC**

Role: technical support

**Clean Energy
Resource Teams**

Role: stakeholder engagement

**Minnesota Pollution
Control Agency**

Role: data support

Meeting Goals

1. **Introduce the project**
2. Make progress toward determining the **most important energy technologies and strategies** for Minnesota to focus on in the next ten years
3. Gather initial input on **baseline indicators** and **criteria for selecting progress indicators**

Introductions:
Name and Organization

Overview of the Stakeholder Advisory Committee

Brendan Jordan - Great Plains Institute

Role of the Stakeholder Advisory Committee

- Provide input to:
 - Prioritize key technologies and strategies
 - Identify energy indicators
 - Develop action plans
- Help implement action plans

Stakeholder Process Ground Rules

- It is your show
- Everyone is equal
- No relevant topic is excluded
- No discussion is ended
- Respect opinions
- Respect time
- Group decision-making
- Non-attribution

Advisory Group Schedule

Four in-person meetings

1. **July 30** – develop initial prioritization of strategies to allow staff to work on roadmap outline
2. **September 22** – review roadmap outline, develop more detailed tactics and strategies
3. **December 8** – finalize roadmap elements, begin discussion on implementation and outreach
4. **April 12, 2016** – draft roadmap complete, focus on implementation, next steps and outreach

Role of Observers

- Observers are interested in following the discussions and progress of the stakeholder advisory group
- Opportunity for verbal and written comments

Energy and Energy Policy in Minnesota Today

Lise Trudeau - Department of Commerce
Becky Alexander - LHB, Inc.

Small Group Discussions

Lola Schoenrich - Great Plains Institute

Small Group Discussions

What technologies and strategies are most important to develop action plans for 2025?

Two rounds:

- Round one – pre-assigned to one of five groups
- Round two – select to participate in one of the four remaining groups

Five Groups

1. Mobility, Transportation, and Fuels
2. Energy Supply & Grid Modernization
3. Buildings and Energy Efficiency
4. Industry and Agriculture
5. Energy & Climate Planning and Action

Indicators

Becky Alexander - LHB, Inc.

What is an indicator?

- **Baseline metrics** are used to provide a comprehensive picture of the state's energy landscape
- **Outcome indicators** are used to track and communicate the impacts of implementing the strategies proposed by the 2025 Minnesota Energy Planning Project

What is an indicator?

Characteristics of successful indicators:

Understandable	Easy for broad, non-technical audiences to understand with little or no explanation
Current	Data updated at least annually
Consistent	Data collection maintained over time using a consistent methodology
Objective	Not a relative ranking
Accessible	Available from reliable 3rd party source or created with modest investment
Comparable	Can be compared to other states and other indicators programs
Responsive	Can be influenced by policies and strategies

Example indicators

- Goal: Reduce emissions from vehicle travel
 - Strategy: Increase adoption of plug-in electric vehicles
 - **Indicator: Percentage of registered Minnesota vehicles that are electric**
-
- Goal: Decrease wasted energy in the industrial sector
 - Strategy: Deploy combined heat and power in the industrial sector
 - **Indicator: Percentage of industrial generation capacity from CHP**

Example indicators

- Goal: Increase building energy efficiency
- Strategy: Expand energy efficient retrofitting of existing buildings
- **Possible Indicators:**
 - Dollars of incentives provided for energy efficient retrofits
 - Number of buildings that have undergone energy efficient retrofits
 - Incremental energy saved from energy efficient retrofits
 - Lifetime energy saved from energy efficient retrofits
 - Geographic distribution of energy efficient retrofit programs

Next Steps

Erik Fowler - Rocky Mountain Institute

Brendan Jordan - Great Plains Institute

Annie Levenson-Falk - Legislative Energy Commission

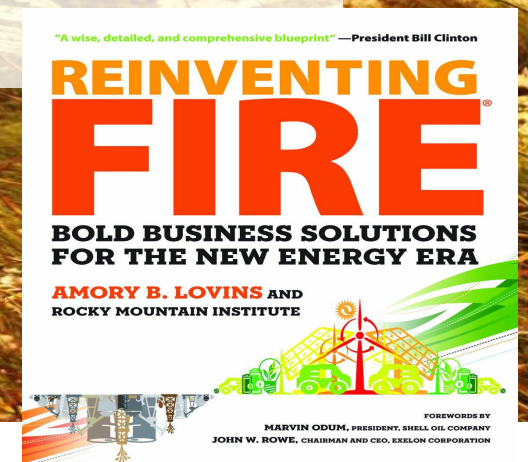
Rocky Mountain Institute

- Who we are

Rocky Mountain Institute (RMI) is an independent, non-partisan nonprofit that transforms global energy use to create a clean, prosperous, and secure low-carbon future.

- What we do

RMI advances market-based solutions, engaging businesses, communities, and institutions to cost-effectively shift from fossil fuels to efficiency and renewables.



Rocky Mountain Institute

The background of the slide features a photograph of a wind farm. Several white wind turbines are visible against a clear blue sky. In the foreground, there is a field of tall, golden-brown grasses that appear to be blowing in the wind. The overall scene is bright and natural.

- **Related Work**

Forthcoming *Community Energy Resource Guide* for leading U.S. communities offers a planning guide and resources (electricity, transportation, building efficiency, industry)

- **Related Projects**

Past experience working with leading U.S. Communities on next generation energy planning such as Fort Collins, CO; Palo Alto, CA; States of Connecticut & New York, Caribbean Islands, nations of China and the United States.

Rocky Mountain Institute



- **Next Steps MN Energy Planning Project**

- 1) Preliminary research/analysis of top identified strategies for consideration and to further inform next stakeholder meeting - Sept. 22.
- 2) Collaborate with project team and create draft “roadmap” completed by end of Q1/2016 that includes synthesis/qualitative analysis, opportunity assessment, suggested next steps . .

...

Advisory Group Meeting Schedule

Tuesday, September 22, 2015 - Saint Paul

Tuesday, December 8, 2015 - Honeywell, Golden Valley

Tuesday, April 12, 2016 - Saint Paul

Additional Stakeholder Engagement

- GPI Collaboratory and Energy Innovation Celebration -- September 30
- Clean Energy Resource Teams
 - Metro CERT -- October 22, St. Paul Science Museum
 - Three fall Greater MN meetings -- dates and locations TBD
- Topic-specific working group meeting - date and location TBD
- Fall Webinar - Planning a webinar for Fall 2015 to gather broader public input on the strategies, technologies and indicators

Additional input

- Share the survey with your membership or colleagues
- Contact Amanda Bilek (abilek@gpisd.net) to receive a unique survey link for your organization/company

Thank you for your participation today!

If you have questions or would like to discuss the project further,
please contact:

Annie Levenson-Falk (LEC), annie.levensonfalk@lec.leg.mn

Amanda Bilek (GPI), abilek@gpisd.net