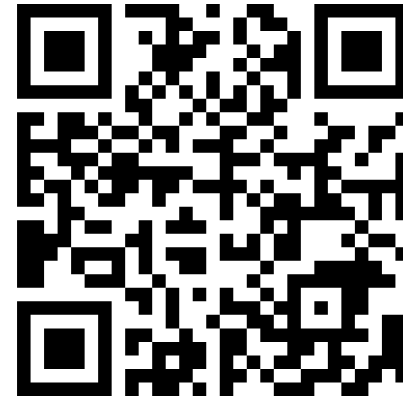


Before we get started...

On your phone or computer, go to **menti.com** and enter the code:

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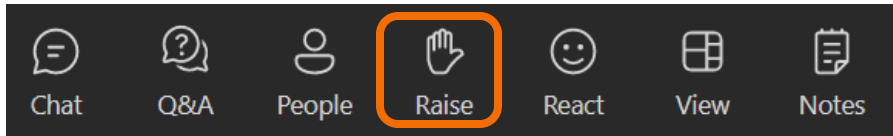
Or use the QR code:



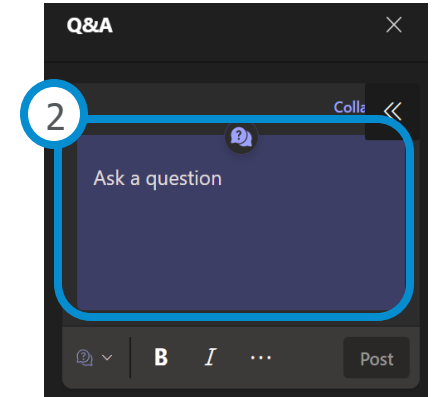
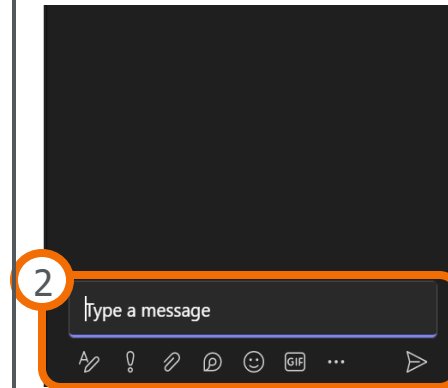
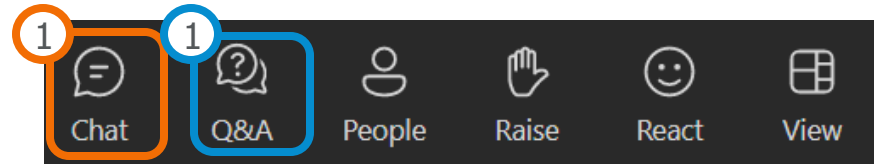
What *non-energy* sustainability goals does your organization have?

Participate in the discussion!

Raise hand or use the **chat to comment** or **Q&A to ask questions**.



To lower your hand, press the “Raise” button again.



Follow along in your workbook

Have the workbook open or printed out

We will be using the Participant Workbook to summarize and reinforce key points and record your key takeaways.

Instructions:

- Open link in chat
- Click File->Save As->Download Copy to your Computer



Pg. 1

Watch for this icon to help follow along

SAVE ON ENERGY | ENERGY PARTNER

ENERGY MANAGEMENT AS A FRAMEWORK TO ACHIEVE GREENHOUSE GAS REDUCTIONS (AND OTHER SUSTAINABILITY GOALS)

PARTICIPANT WORKBOOK

As organizations are establishing greenhouse-gas (GHG) reduction and long-term sustainability goals, there is often a gap between where they want to go and knowing how to get there. Energy management best practices are best achieved by following strategic energy management principles. Codified in ISO 50001, a strategic energy management system provides a framework to strengthen commitment, plan for success, use data to measure and inform progress, and align efforts across your organization to help achieve a wide range of sustainability goals.

This workshop will explore how an energy management framework can be adapted to support your GHG reduction and other sustainability goals.

IN THIS WORKSHOP, PARTICIPANTS WILL:

- ▶ Understand how the energy management framework can support achievement of both GHG reduction and other sustainability goals.
- ▶ Connect examples of key success factors from decarbonization efforts to components of energy management.
- ▶ Develop a strategy to adapt the energy management framework to support your sustainability goals.

This workshop will be hosted over Microsoft Teams.
For support using Teams, see the last page of this workbook.

DECEMBER 14, 2023

Energy Management as a Framework to Achieve GHG Reductions (and other sustainability goals)

Jay Mullin

Director, Programs & Operations
Goldfin Consulting



Apply an Energy Management Framework to achieve greenhouse gas reductions and other sustainability goals

1

EM Framework Components

2

Key Success Factors for Decarbonization

3

Adapt an EM Framework to Support Sustainability Goals

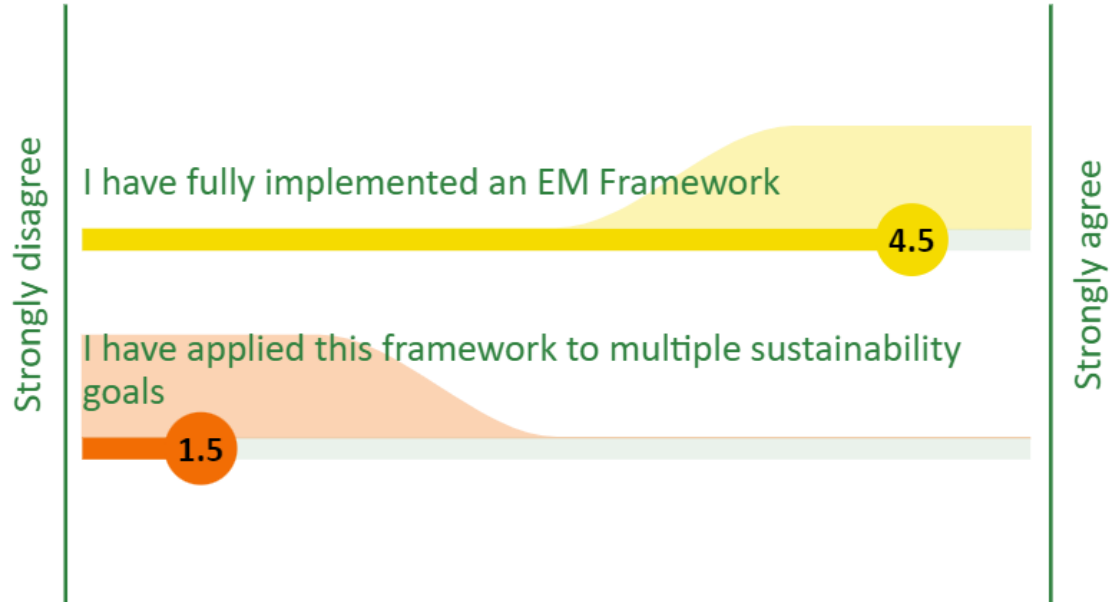
What non-energy sustainable
your organization have?

A Framework for Success

The EM Framework supports the achievement and persistence of energy performance improvements by integrating energy management considerations throughout an organization.



How have you applied the EM Framework?





Examples of Decarbonization Success Factors

New York University Passive House Retrofit

Retrofit of 100-year-old building to Passive House Standard to be completed in 2024.

- 100% reduction in fossil fuels
- 3.5% reduction in 30-year total cost of ownership

Key success factors:

- Commitment to third-party building standards
- Feasibility study far in advance of construction, starting early
- Assessing costs based on total cost of ownership

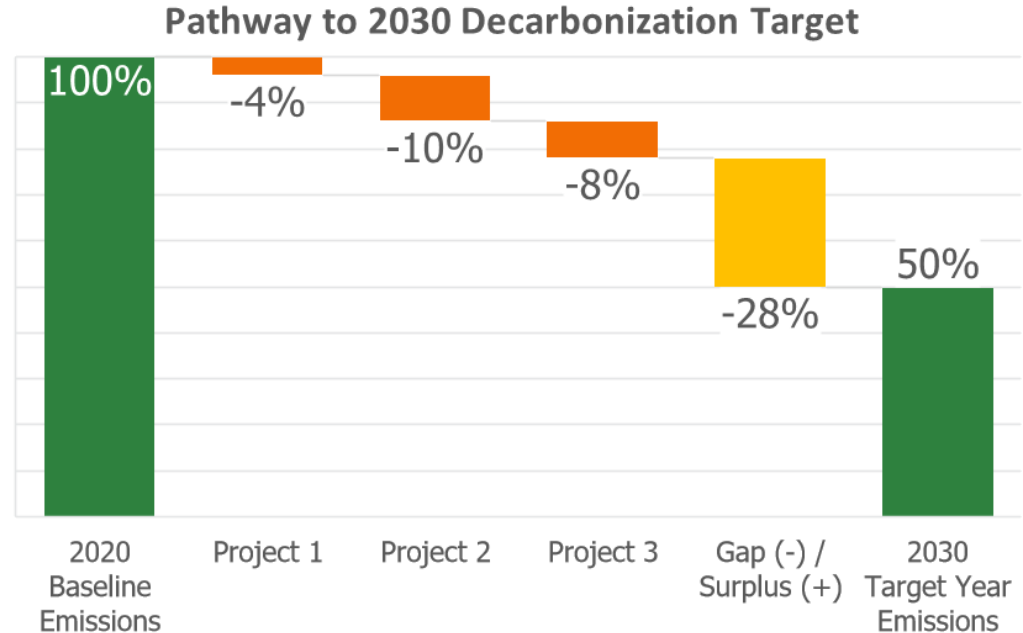


Industrial Pathway to Decarbonization

Developing an achievable plan for 50% GHG emission reduction target.

Key success factors:

- Laid out planned and identified projects to see how big a gap there was between current path and targets
- Benchmarked facilities to learn from high performers
- Conducted studies and pilots to fill the gap



CLF Office Electrification

Large office building renovation included electrification of space heating and hot water.

Key success factors:

- Aligned renovations with end-of-life replacement of major systems and deferred building maintenance.
- Staff engagement pushed for decarbonization and improved comfort.
- Treatment of asset depreciation as operating expense.





Aligning with staff values

Evaluating total cost of ownership

Treatment of asset depreciation as operating expense

Tracking progress towards long-term goal



Commitment to building standards

Early feasibility planning

Identifying gaps in roadmap

Aligning with capital end-of-life plans

Benchmarking facilities

Piloting and rolling out projects

Applying an EM Framework to Non-energy Goals



Pg. 4

May need special considerations to:

1. Accommodate different sustainability goals, and
2. Ensure those goals do not end up competing with energy or each other for resources or priority status.

Which goals do you want to focus on applying an energy management framework to support?



Which components would you like to discuss?

- 1st Management Commitment
- 2nd Planning
- 3rd Opportunity Identification & Implementation
- 4th Monitoring & Reporting
- 5th Operational Integration
- 6th Employee Engagement

Management
Commitment

Planning

Opportunity
Identification &
Implementation

Monitoring &
Reporting

Operational
Integration

Employee
Engagement



Management Commitment

- Setting targets and goals
- Establishing an energy team
- Allocating resources
- Maintaining accountability



Chat Q&A People **Raise** React View Notes



Planning

- Energy mapping
- Energy management assessment
- Action plans
- Opportunity register



Pg. 4

Chat Q&A People **Raise** React View Notes



Opportunity Identification & Implementation

- Hunts for energy waste
- Audits
- Data analysis
- Implementation processes
- Commissioning

Chat Q&A People **Raise** React View Notes





Monitoring & Reporting

- Monitoring KPIs
- Regular reporting to staff and management



Chat Q&A People **Raise** React View Notes



Operational Integration

- Design
- Procurement
- Operations
- Maintenance



Chat Q&A People **Raise** React View Notes



Employee Engagement

- Awareness
- Input and feedback
- Participation



Chat Q&A People **Raise** React View Notes



Free expert support available through Save on Energy!



For more information:
trainingandsupport@ieso.ca

Post your questions on the [Energy Manager Learning Platform](#) discussion forum to get advice, coaching and support on:

- ❑ Establishing or improving **energy management best practices**
- ❑ Identifying and implementing **industrial energy-efficiency projects**

Register for the Energy
Manager Learning Platform
(emss.goldfin.ca)



What will you do in the next week?

To start applying this framework to other sustainability goals.

