



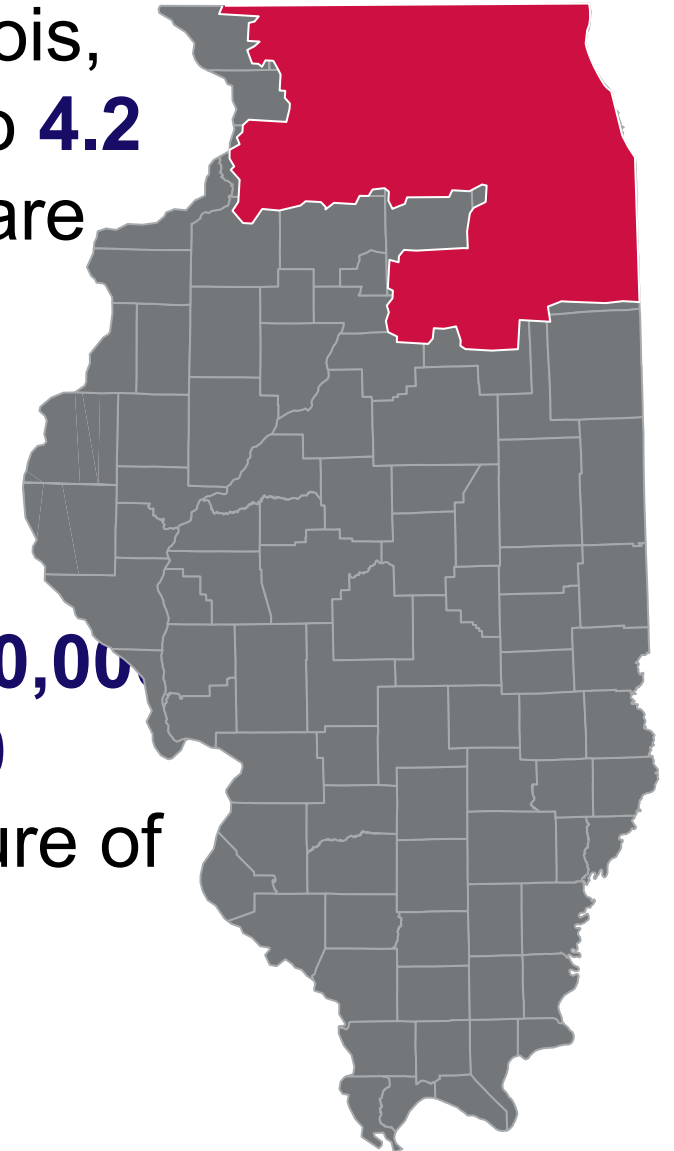
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# SEM and DOE 50001 Ready Combine for Success and Recognition

Martin Jacobson | ComEd Sr. Program Manager

# Powering Northern Illinois

- ComEd is the largest electric utility company in Illinois, responsible for delivering safe and reliable power to **4.2 million homes** and businesses across 11,400 square miles in northern Illinois.
- Over 7,000 employees that manage a network of **90,000 miles of power lines, 1.3 million poles and 1,300 substations** that make up the electrical infrastructure of the nation's third largest metropolitan region.



# ABOUT THE COMED ENERGY EFFICIENCY PORTFOLIO

BY THE NUMBERS FROM 2008 TO Q3 2025



**\$12.74**

billion on customer bills saved

**107.59**

million Net MWh saved

**8.51**

million cars off the road for a year



**36.51**

million acres of trees planted

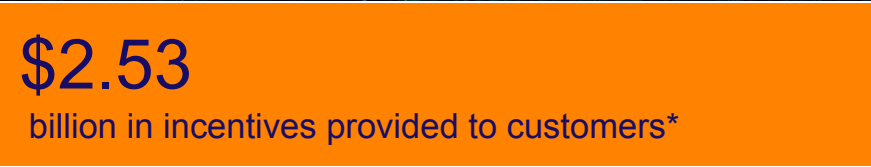
**80.49**

billion pounds of CO<sub>2</sub> reduced



**167.62**

million efficient bulbs sold



**\$2.53**

billion in incentives provided to customers\*



**543,336**

assessments completed

**182,177**

business projects completed

**14,815,538**

rebates & incentives provided



**12.47**

million homes powered for one year

\*Based on lifetime net MWh savings realized through CY2024. Incentives for the ongoing year is based on applied percentage of about 65%

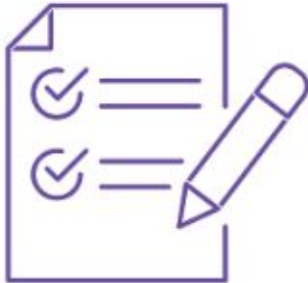
# What is SEM?

Strategic Energy Management (SEM) is a system of organizational practices, policies, and processes that creates persistent energy savings by integrating energy management into business practices – just like you would with quality assurance, safety, or productivity.

SEM focuses on changes in daily operations that engage staff at all levels of an organization in energy efficiency activities.



Group workshops and trainings



Energy assessment



Optimization of existing equipment and operations



Energy performance tracking



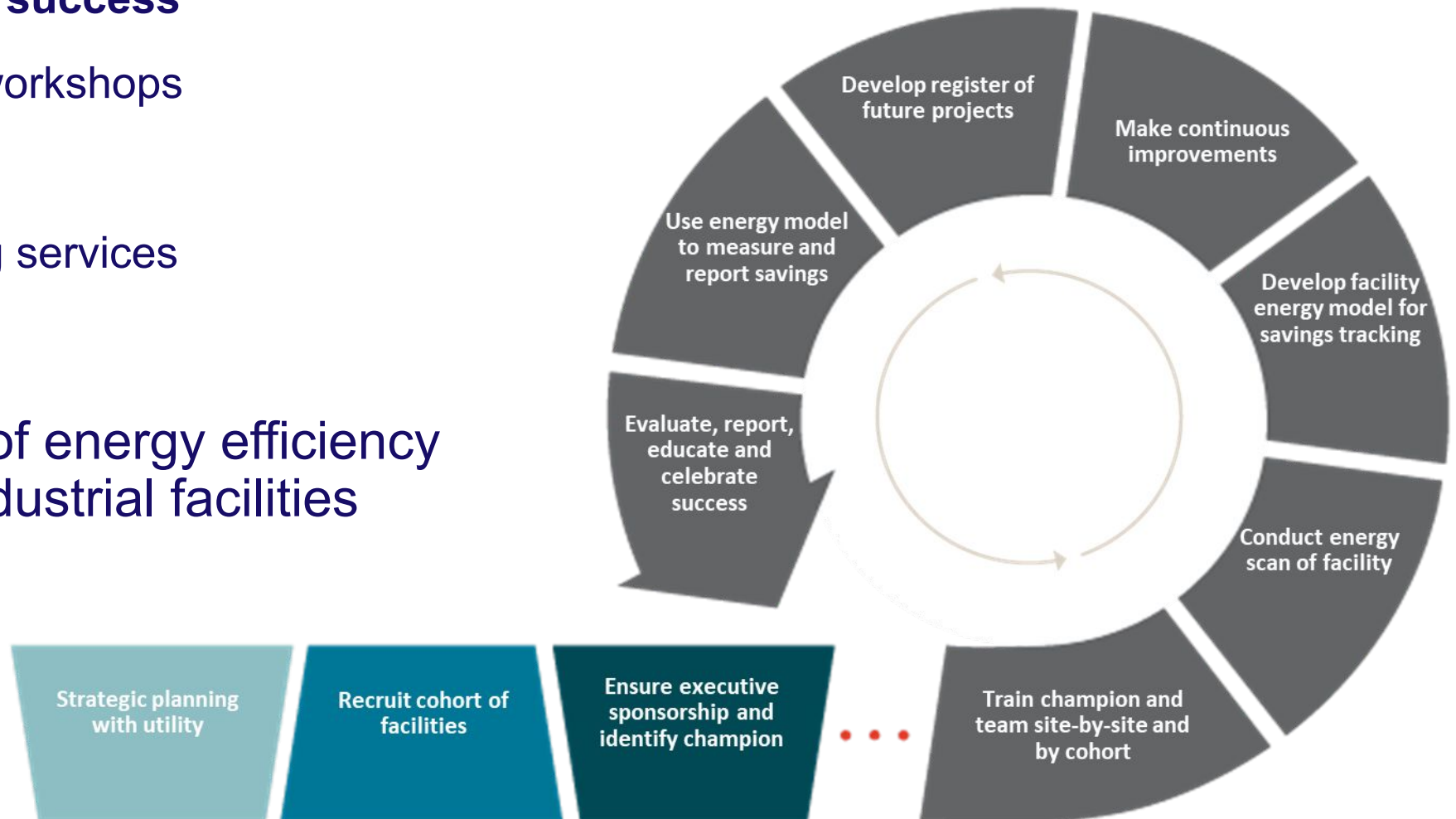
On-site support

# How does the SEM program work?

## A continuous cycle of success

- Collaborative group workshops
- One-on-one coaching
- Technical/engineering services

Creating a culture of energy efficiency  
in commercial & industrial facilities



# Benefits of SEM

- Provides a **clear pathway** to increased productivity, operational efficiency, profitability and competitive advantage.
- Enables energy-intensive businesses to significantly **reduce energy consumption**.
- Helps build strong **partnerships and relationships** between customers and energy efficiency program providers, resulting in increased velocity of capital projects.
- Results in **non-energy benefits** that accompany energy saving projects



# ComEd SEM's DOE 50001 Ready Cohort

- **First Cohort of its Kind!** The ComEd SEM DOE 50001 Ready cohort brings SEM's cohort approach to the DOE's 50001 Ready framework.
- Utilizing the DOE **50001 Ready Navigator**, the Ready cohort guides organizations through structured energy management practices, reinforcing SEM's continuous improvement approach.
- **Key Cohort Elements:**
  - Support customers to actively complete and submit all 50001 Ready tasks
  - Task integration to SEM, including monthly meetings
  - Webinars and office hours that teach and engage participants
  - Upon 50001 Ready recognition, participants earn a **\$5,000 incentive** through the ComEd SEM offering

# The Pathway to Energy Performance Improvement

**Commitment to Energy  
Performance Improvement**

## **Pathway to Success**

50001 Ready creates the pathway to meet your goals

## **Future Goals**

50001 Ready will adjust to fit your changing needs



## **Continual Improvement**

50001 Ready uses a proven methodology to achieve continual success

## **Establish Business Goals**

50001 Ready helps you set realistic goals



# DOE 50001 Ready supports Continuous Improvement

- Enables organizations to increase their competitiveness by achieving sustained energy savings through a self-paced, cost-free approach and self-validation, eliminating the need for external audits or certifications.
- Complements and strengthens an organization's Strategic Energy Management (SEM) participation.
- Helps organizations **systematize existing energy workflows** and build the internal processes needed for long-term persistence in managing their Energy Management System (EnMS).
- The cohort recognizes facilities and organizations committed to implementing an ISO 50001:2018-based energy management system.



# SEM Connections with DOE 50001 Ready



	Section: Context of the Organization		Section: Planning		Section: Support		Section: Performance Evaluation
	Task 1: An EnMS and Your Organization		Task 7: Risks to EnMS Success		Task 14: Competence and Training		Task 20: Monitoring and Measurement of the EnMS
	Task 2: People and Legal Requirements Affecting the EnMS		Task 8: Energy Data Collection and Analysis		Task 15: Awareness and Communication		Task 21: Monitoring and Measurement of Energy Performance Improvement
	Task 3: Scope and Boundaries		Task 9: Significant Energy Uses (SEUs)		Task 16: Documenting the EnMS		Task 22: Internal Audit
			Task 10: Improvement Opportunities		Section: Operation		Task 23: Management Review
	Section: Leadership		Task 11: Energy Performance Indicators and Energy Baselines		Task 17: Operational Controls		
	Task 4: Management Commitment		Task 12: Objectives and Targets		Task 18: Energy Considerations in Design		Section: Improvement
	Task 5: Energy Policy		Task 13: Action Plans for Continual Improvement		Task 19: Energy Considerations in Procurement		Task 24: Corrective Actions
	Task 6: Energy Team and Resources						Task 25: Continual Improvement

Legend: Green Check – In SEM Purple Check – Partial SEM No Check – NO Overlap

# Avient Colorants USA LLC Case Study

[DOE-LBNL Published Business Cased](#)



## Solutions

Avient's West Chicago facility, with roughly 130 employees, became the company's first site to pursue DOE 50001 Ready recognition. Through participation in the DOE 50001 Ready Cohort Training—facilitated by CLEAResult and ComEd—the site implemented a structured, ISO-aligned energy management system using the 50001 Ready Navigator.

The Navigator centralized tasks, tracked progress, and identified existing practices that already met 50001 Ready requirements, reducing implementation time and supporting expansion to additional Avient facilities.

## Key Takeaways: Implementing a 50001 Ready Energy Management System

- ▶ **Built-in resources:** The 50001 Ready Navigator provided a single location where Avient staff could organize and consolidate all of their tasks and progress. In reviewing the Navigator's sub-tasks, staff learned that they had already achieved several milestones, which cut down on the time required to implement an energy management system. This tool offered clear guidance regarding energy savings projects and other means of energy use improvement at Avient.
- ▶ **Corporate alignment:** Having shared goals around sustainability and cutting energy costs, particularly regarding how those costs manifested in electrical bills, ensured that West Chicago's efforts would be supported at the corporate level. This alignment led to Avient's involvement in the 50001 Ready program, including the projects it would take to achieve recognition and to sustain continual improvement.

**“Combining the SEM cohort with 50001 Ready helped us achieve corporate goals.”**

—Paige Stuart, Maintenance Manager and Energy Champion  
Avient Colorants



Energy reduction discussions during staff operations meeting. Photo credit: Ed Stromeck, EHS Manager at Avient (West Chicago).

**“The 50001 Ready Navigator provided a single location where you could organize and consolidate all of your tasks and progress.”**

—Paige Stuart, Maintenance Manager and Energy Champion  
Avient Colorants

# Tracking Progress

- **26 participants** are signed up on the **50001 Ready Navigator** tool in various stages of completion, with numerous participants hoping to sign up in the new year. [50001 Ready | Partner Dashboard](#)

- **279 Tasks** completed as of 12/31/2025.

Associated Projects		
Task Progress	Cohort (internal title)	Last Action
20% 	2024 SEM Cohort1	09/23/2025
4% 	2024 SEM Cohort1	08/20/2025
100% Submitted for Recognition: 01/05/2026	2024 SEM Cohort1	01/05/2025
100% ★ 50001 Ready Recognized: 02/14/2025	2024 SEM Cohort1	12/10/2025
16% 	2024 SEM Cohort1	01/08/2025
8% 	2024 SEM Cohort1	10/30/2025
28% 	2024 SEM Cohort1	10/30/2025
8% 	2024 SEM Cohort1	10/30/2025
88% 	2024 SEM Cohort1	09/12/2025
100% ★ 50001 Ready Recognized: 03/19/2025	2024 SEM Cohort1	12/19/2025
20% 	2024 SEM Cohort1	10/27/2025

# Program Success

- **7 SEM participants** have been **recognized** for 50001 Ready and earned the **\$5,000 incentive** SEM incentive.
- **3 SEM participants** have completed all tasks and are eligible for recognition in 2026.





# Thank you

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Please visit us at [ComEd.com/SEM](https://www.comed.com/SEM)

Learn more about DOE 50001 Ready at [50001 Ready](#)

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