



Dollars to \$ense

ENERGY MANAGEMENT WORKSHOPS

January 29, 2014

oee.nrcan.gc.ca/workshops



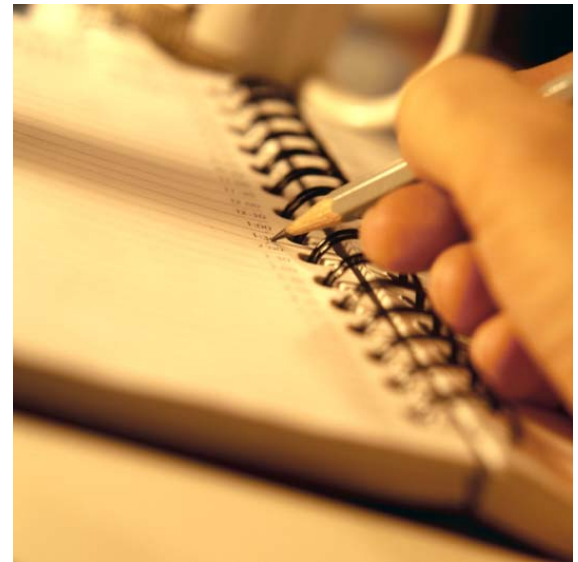
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Presentation Outline

- Introduction
- Summary of D2\$ Workshops
- Program Delivery Mechanism
- Performance Measurement
- Results
- Challenges and Opportunities
- Looking Forward





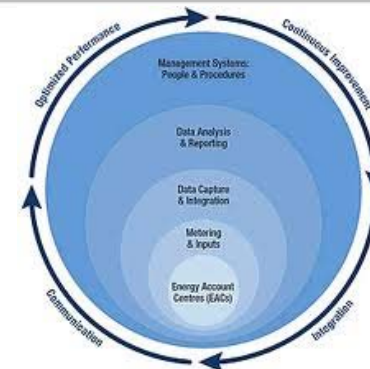
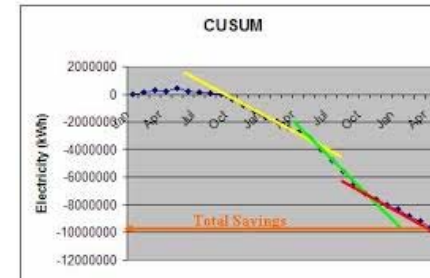
Introduction



Dollars to \$ense Workshops

Summary of D2\$ Workshops

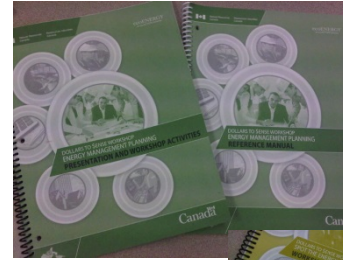
- Six standard workshops



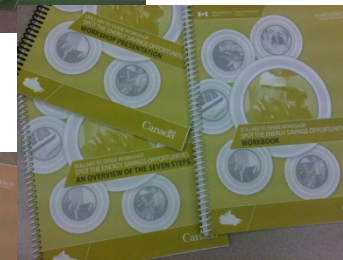
- Customized workshops designed to meet an organization's specific needs

Six Standard Workshops

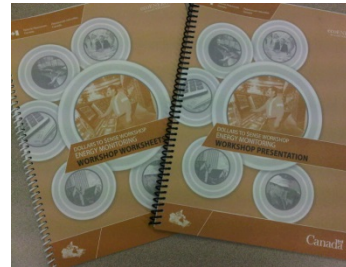
1. Energy Management Planning



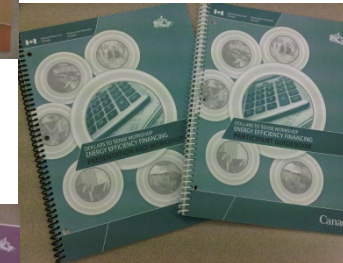
2. Spot the Energy Savings Opportunities



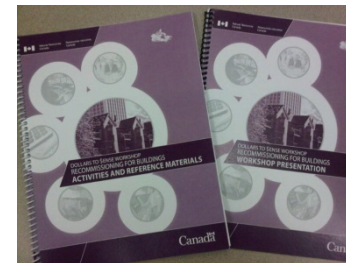
3. Energy Monitoring



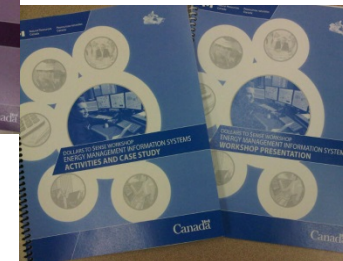
4. Energy Efficiency Financing



5. Recommissioning



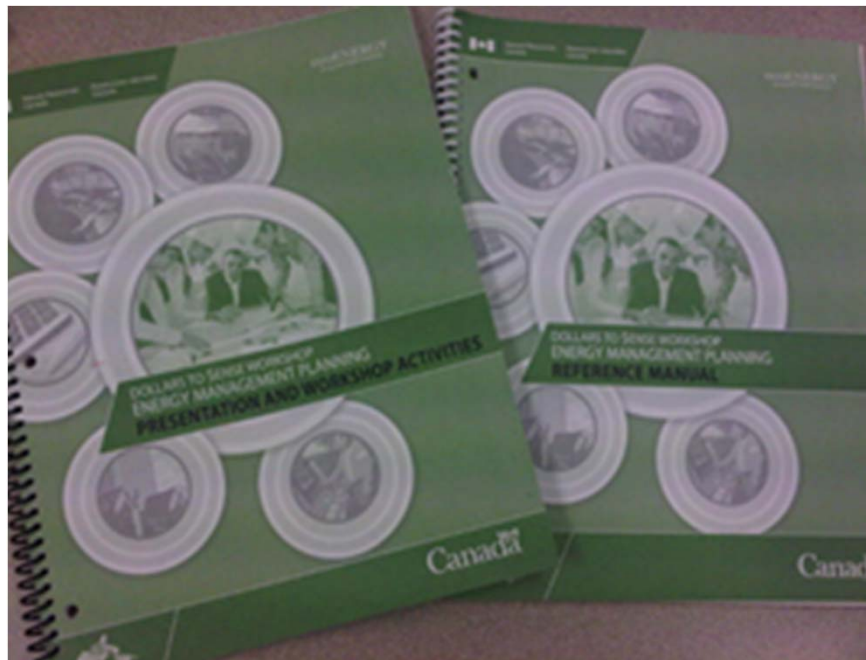
6. Energy Management Information System



Energy Management Planning Workshop

Objective:

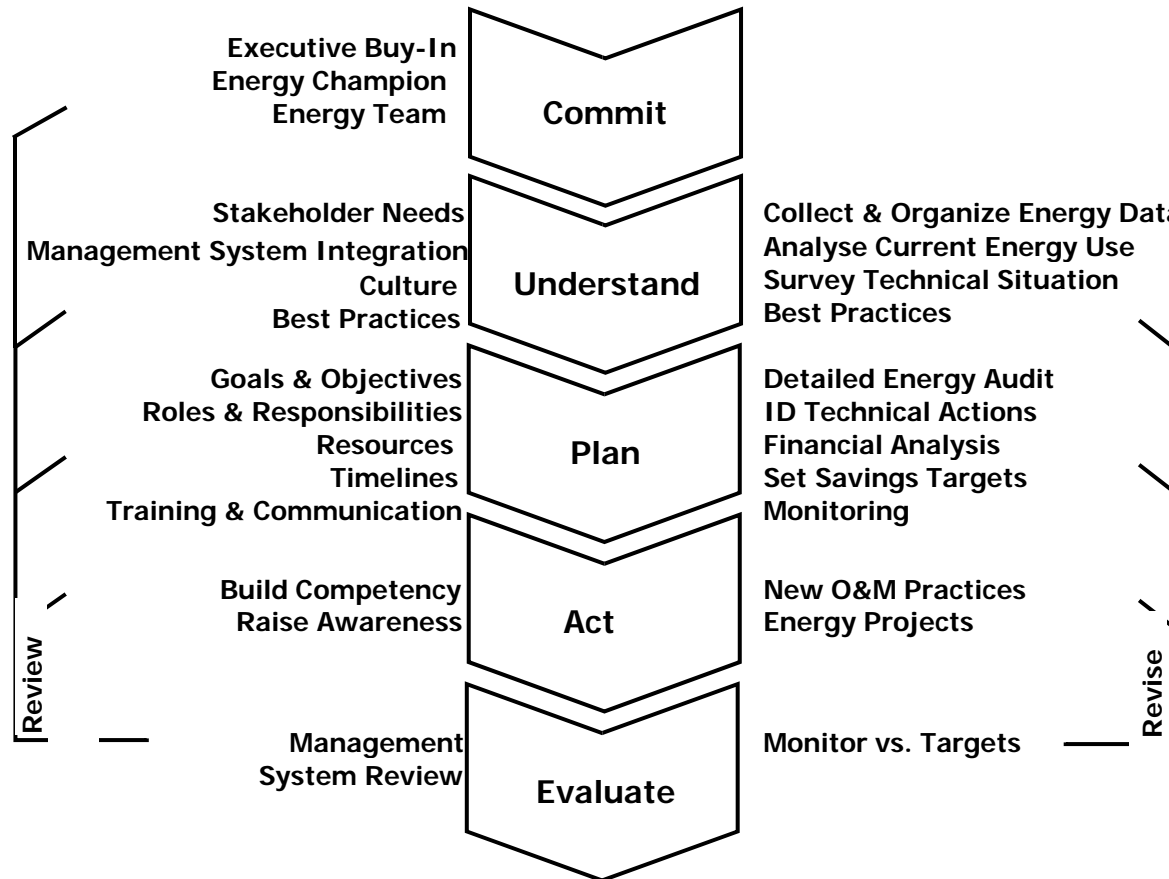
To provide tools to build a framework for integrating energy management into an organization



Energy Management Framework

Organizational
"Building a Management System"

Technical
"Taking Energy Action"



Celebrate and Recognize Achievements !

What does an Energy Management Plan include?

1. Energy Policy
2. People (Roles & Responsibilities)
3. Energy Use & Monitoring
4. Energy Savings Opportunities
5. Timelines
6. Training & Communication
7. Financing
8. Evaluation

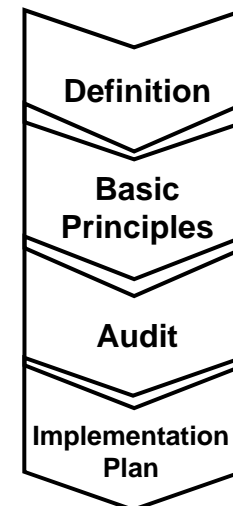


Energy Management Information Systems (EMIS) Workshop

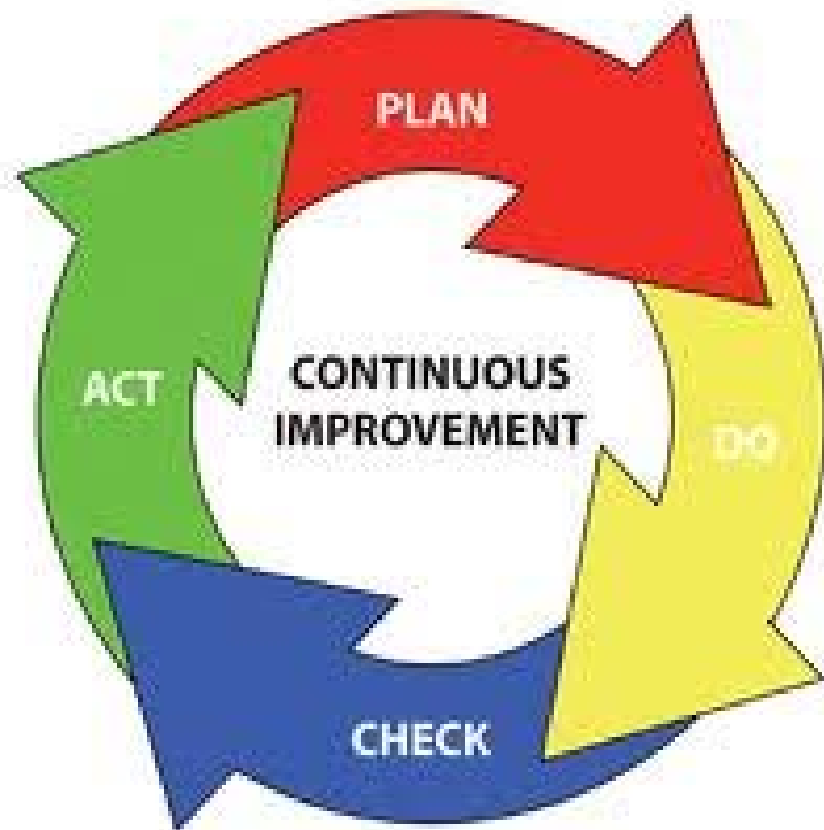
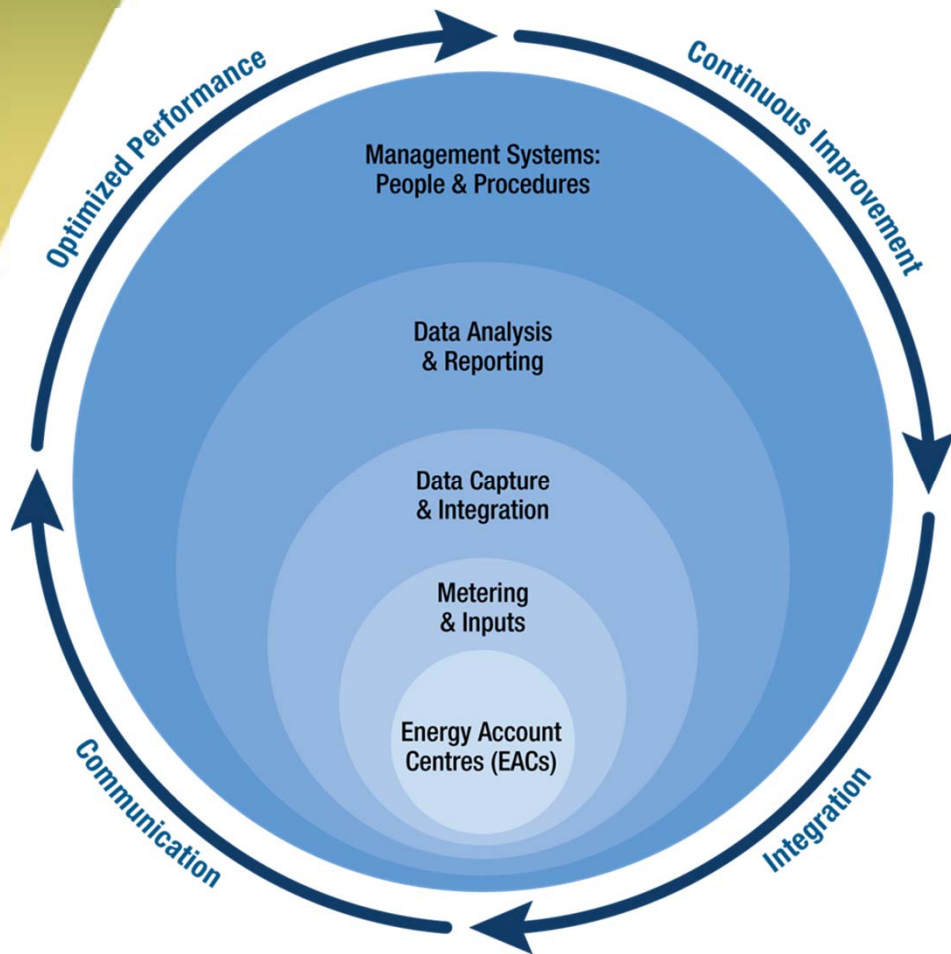
► Objectives

To provide an overview of EMIS, how it saves money, the stages of EMIS development, and how to build a business case for EMIS using the toolkit.

To show that EMIS is not a project, it is continuous improvement and it supports ISO 50001 implementation



EMIS supports ISO 50001



Knowledge and Skills for Implementing EnMS

1. Initiating an Energy Management Program

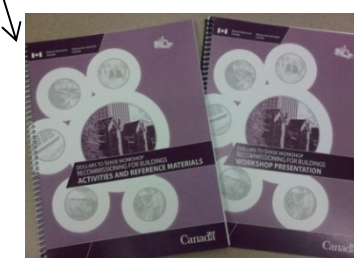
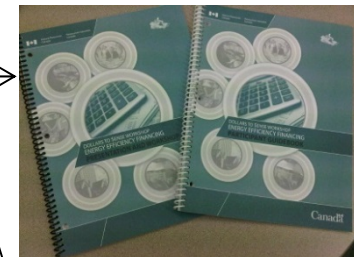
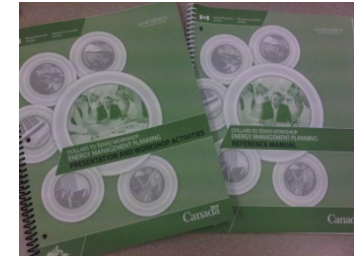
2. Conducting an Energy Review

3. Energy Management Planning

4. Implementing Energy Management

5. Measurement and Verification

6. Management Review



Program Delivery Mechanism

- ▶ Energy Management Workshops
- ▶ Energy Efficiency Webinars
- ▶ Other



Performance Measurement

- ▶ Better Energy Efficiency Reporting System



- ▶ Workshop Evaluation

- ▶ Follow-up Survey



Results

- Over 26,000 participants



- \$160M in annual energy savings
- 1.1 MT of avoided emissions



Challenges and Opportunities

▶ Commitment



▶ Constraints



▶ New delivery mechanism

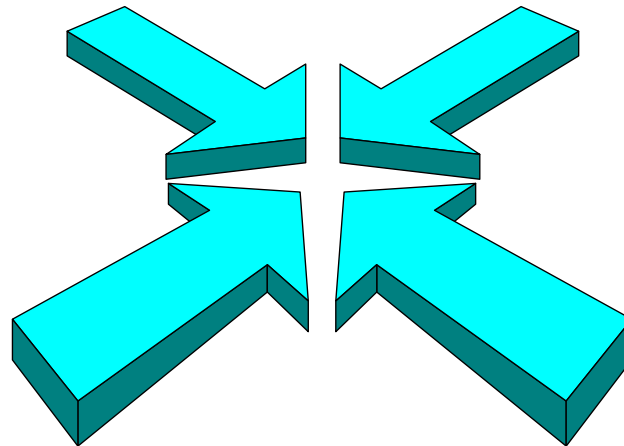


▶ Outreach

Looking Forward

Direct and indirect energy savings

Comfort, productivity and safety increases



Reduced O&M

Increased reliability

Environmental impact reduction

Energy Management Works

- **Industry** – CIPEC Annual Report

<http://www.nrcan.gc.ca/energy/efficiency/industry/cipec/5153>

- **Buildings** – Case studies

<http://www.nrcan.gc.ca/energy/efficiency/buildings/research/publications/3943>

- **D2\$ Workshops**

- oee.nrcan.gc.ca/workshops



Natural Resources Canada Office of Energy Efficiency

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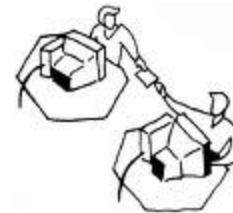
Financial Incentives



Technical
Information/Support



Regulations and
Standards



Leadership and
Networking
Opportunities