



# ENERGY MANAGEMENT WORKING GROUP

**Clean Energy Ministerial – Clean Energy Solutions Center Webinar  
CEM Energy Management Leadership Awards**

13 January 2016



# ENERGY MANAGEMENT LEADERSHIP AWARDS



**2016 Energy Management Leadership Awards**

**CALLING ALL GLOBAL LEADERS IN CLEAN ENERGY**

The Clean Energy Ministerial invites your company or organization to compete for a prestigious global award by sharing your experiences in implementing energy management strategies through ISO 50001.

Winners will be honored at the Clean Energy Ministerial (CEM7) meeting in June. This high-profile event will gather clean energy leaders and partners from around the world, including energy ministers from the 24 governments active in CEM.

**Clean Energy Ministerial Meeting**  
San Francisco, CA  
1-2 June 2016

**APPLY BY: 1 MARCH 2016**

## Agenda

- CEM Energy Management Working Group
- ISO 50001
- Energy Management Leadership Awards



# CLEAN ENERGY MINISTERIAL (CEM)

The Clean Energy Ministerial (CEM) is a high-level global government forum focused on accelerating the transition *to a global clean energy economy*.

>90% of Global Clean Energy Investment    > 80% of Global GHG Emissions

The CEM is focused on three global climate and energy policy objectives:

- Increase energy efficiency worldwide
- Expand clean energy supply
- Enhance clean energy access





# ENERGY MANAGEMENT WORKING GROUP (EMWG)

## OVERVIEW

The EMWG leverages the extensive expertise of its member countries to **accelerate the adoption and use of energy management systems (EnMS) such as ISO 50001** in industry and in commercial buildings worldwide.

**Membership:** Government representatives from ministries leading domestic energy efficiency efforts in the public, commercial and industrial sectors.

**Partners:** EMWG also partners with a range of other organizations promoting energy efficiency and energy management (i.e., UNIDO, International Organization for Standardization, Institute for Industrial Productivity, etc.).

[www.cleanenergyministerial.org/energymanagement](http://www.cleanenergyministerial.org/energymanagement)

The EMWG is an initiative of the Clean Energy Ministerial (CEM) and a task group of International Partnership for Energy Efficiency Cooperation (IPEEC).



Australia



Canada



Chile



China (observer)



European Commission



India



Indonesia



Japan



Korea



Mexico



South Africa



Sweden



United States



# INTERNATIONAL PARTNERSHIP FOR ENERGY EFFICIENCY COOPERATION (IPEEC)

IPEEC is an international government forum that provides global leadership on energy efficiency by facilitating implementation of policies and programs to yield energy efficient gains.

IPEEC is dedicated to facilitating rapid deployment of energy efficiency worldwide and promoting information exchange on best practices to facilitate initiatives that improve energy efficiency.





# ENERGY MANAGEMENT SYSTEMS

## WHY THE ISO 50001 INTERNATIONAL STANDARD?

- ISO 50001 is a global standard that draws from best practices around the world. Developed by over 50 countries.
- Provides a framework for managing energy and continual improvement, with business-friendly practices
- Goes beyond projects, and promotes institutional change within organizations to ensure energy efficiency is integrated into day-to-day operations.
- Applicable to any organization that uses energy
- Many countries adopting ISO 50001 as national standard
- Global best practice standard for energy management that can help measure real progress toward energy efficiency goals at national and international levels.



**11,000+ certified sites worldwide as of Sept. 2014**

# LEADING ORGANIZATIONS ARE USING ISO 50001 TO ACHIEVE ENERGY, GHG EMISSIONS GOALS



These early adopters are demonstrating the business value and paving the path for efficient, effective implementation. Their stories need to reach others to drive greater savings worldwide.



# RECENT EMWG CASE STUDIES

## ISO 50001 CERTIFIED



### Chrysler – Brampton Assembly Plant (Canada)

- Automotive assembly plant, ISO 50001 certified
- **Annual energy savings exceed CAD\$2 million**
- All Chrysler Group manufacturing plants plan to be certified



### Cummins – Rocky Mount Engine Plant (U.S.)

- Engine manufacturing facility, ISO 50001 and Superior Energy Performance (SEP) Gold certified
- **Saves USD\$716,000 annually**
- Management more receptive to projects due to externally-verified energy savings; energy projects received funding during times of economic downturn

[www.cleanenergyministerial.org/Our-Work/Initiatives/Energy-Management/Case-Studies](http://www.cleanenergyministerial.org/Our-Work/Initiatives/Energy-Management/Case-Studies)





# ENERGY MANAGEMENT WORKING GROUP

## RECOGNIZING LEADERSHIP



- **Showcase leading companies** that have a certified ISO 50001 EnMS
- **Document the path to success** to guide others
- **Raise global awareness of the benefits of energy management**
- Accelerate broad implementation of these proven systems to **help meet organizational, national and global energy and climate goals**



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## GLOBAL LEADERSHIP AND CASE STUDY AWARDS PROGRAM



### Overview:

The Clean Energy Ministerial invites your company or organization to compete for a prestigious global award by sharing your experiences in implementing energy management strategies through ISO 50001.

Organizations are invited to submit case studies for recognition. Entries will describe ISO 50001 implementation and results.

**Submission deadline:**  
**1 March 2016**

Juried selection process by a committee of EnMS experts from around the world.

Award recipients will be notified in April 2016 and publicly announced in June 2016.

These awards are managed by the CEM EMWG.



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## GLOBAL LEADERSHIP AND CASE STUDY AWARDS PROGRAM



### Benefits :

- **Recognition** on a global scale from program in high level forum with support from energy ministers
- **Demonstrate commitment and leadership** to customers, investors, employees, etc.
- **Affirmation of leadership by trusted third parties** on their behalf: governments, press, international organizations, etc.
- **Each organization receives award** for contributing a quality case study

### Eligibility:

- **Third-party certification to ISO 50001** - Organizations around the world in the industrial, commercial or public sectors that have achieved third-party verification of quality EnMS implementation; ISO 50001 certification required



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## AWARD CATEGORIES

### CEM Award of Excellence in Energy Management

- An award of excellence will recognize not only achieved savings but also organizations' efforts to transform the way they are using energy. The awards aim to acknowledge organizations of various sizes, types, sectors, and geographies.
- The three top winners will be honored at the Clean Energy Ministerial (CEM7) in San Francisco, CA, 1-2 June 2016.

### National Energy Management Awards

- Governments may honor organizations submitting top entries from their countries.

### Energy Management Insight Awards

- All qualifying entries will be recognized for helping to build global insight on the benefits of energy management systems.

#### Clean Energy Ministerial 7 (CEM7)

1-2 June 2016, San Francisco, California, USA



The United States will host the seventh Clean Energy Ministerial (CEM7) in San Francisco, California, on June 1-2, 2016. The annual meeting of energy ministers and other high-level delegates from the 23 CEM member countries and the European Commission will provide an opportunity for the major economies to collaborate on solutions that advance clean energy globally and demonstrate tangible follow-up actions to COP21.

In addition to U.S. Secretary Moniz, CEM7 is expected to include global energy leaders such as China's Minister of Science and Technology Wan Gang, European Commissioner for Climate and Energy Miguel Arias Cañete, and India's Minister of Power, Coal & New & Renewable Energy Piyush Goyal. Leaders from the business and investment community working in clean energy are also expected to participate as well as leaders from international energy organizations, foundations, research institutes, and academia.

Read the CEM7 press release: U.S. Energy Secretary Moniz Announces San Francisco as Site of Seventh Clean Energy Ministerial (CEM7)

#### Featured Resources

##### Videos



President Obama Announces the U.S. Will Host the Seventh Clean Energy Ministerial

[www.cleanenergyministerial.org/Events/CEM7](http://www.cleanenergyministerial.org/Events/CEM7)



CEM6 attendees: Ministers and senior officials from Australia, Brazil, Canada, China, Denmark, the European Commission, Finland, France, Germany, India, Indonesia, Italy, Japan, Korea, Mexico, Norway, the Russian Federation, Saudi Arabia, South Africa, Sweden, the United Arab Emirates, the United Kingdom, and the United States.



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## ONLINE RESOURCES





- **Website:** [www.cleanenergyministerial.org/Energy-Management-Leadership-Awards](http://www.cleanenergyministerial.org/Energy-Management-Leadership-Awards)
- **Fact Sheet** to download and share
- **Official Rules** with full award program details, including how to apply, submission deadline, selection process, evaluation criteria, etc.
- **Frequently Asked Questions (FAQs)**
- **Case Study Template** to use when preparing award entry, incorporates evaluation criteria, associated point values, content guidance, and format
- **Apply Today** page to start the process

# ENERGY MANAGEMENT LEADERSHIP AWARDS

## HOW TO APPLY

- Organizations must submit an entry form and a completed case study using the **Case Study Template**
- Case study entries must:
  - Be completed in English
  - Not exceed 8 pages. 4-6 pages in length is recommended. Shorter or longer entries will be accepted
  - Include a copy of your current ISO 50001 certificate
  - Be submitted by March 1. Early submissions are encouraged

### Entry Form and Case Study Template for the CEM Energy Management Leadership Award Program

Please complete this form to be considered for the 2016 CEM Energy Management Leadership Awards. See the [Awards Program webpage](#) for details. This program is administered by the CEM Energy Management Working Group (EMWG).

<p><b>TO APPLY:</b> Email your entry no later than <b>March 1, 2016</b> to <a href="mailto:EMWG@enecanada.com">EMWG@enecanada.com</a>. All Entries must be submitted in English. Each entry must include:</p> <ol style="list-style-type: none"> <li>1. A fully completed entry form</li> <li>2. A copy of your current ISO 50001 certificate</li> <li>3. A case study, must be completed using the standard format provided in the official template</li> </ol>	<p>All eligible entries that meet the evaluation criteria will be:</p> <ol style="list-style-type: none"> <li>1. Awarded the Insight Award</li> <li>2. Considered for national awards (see participating countries)</li> <li>3. Considered for the CEM Awards of Excellence</li> <li>4. Included on the EMWG website database</li> </ol>
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Early submissions are encouraged, to ensure the eligibility of your entry. Upon receipt, each entry will be reviewed for completeness. If entries are incomplete, the Secretariat will notify the submitter of missing information, and the submitter may resolve the issue and re-submit or any time up to the submitter deadline March 1, 2016.

#### 1. Organization Information

ORGANIZATION NAME		ORGANIZATION WEBSITE	
SUBMITTER'S NAME <input type="checkbox"/> MR. <input type="checkbox"/> MRS. <input type="checkbox"/> MS.		SUBMITTER TITLE	
SUBMITTER'S TELEPHONE HOME NUMBER		SUBMITTER'S EMAIL	
NAME OF SITE(S) FEATURED IN CASE STUDY (IF A SUBSET OF PARENT ORGANIZATION)		SECTOR <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Public	
ADDRESS		COUNTRY	

#### 2. ISO 50001 Certificate (please attach a copy of your certificate with this entry form)

SCORE OF ISO 50001 CERTIFICATE	
NUMBER OF SITES CERTIFIED TO ISO 50001 ON THIS CERTIFICATE <input type="checkbox"/> one <input type="checkbox"/> two <input type="checkbox"/> three <input type="checkbox"/> more (please specify):	
ISSUE DATE OF ISO 50001 CERTIFICATE	NAME OF ISO 50001 CERTIFICATION BODY

#### 3. Case Study (please complete by using the [official case study template](#) on page 2; the evaluation criteria and associated points are in **red font**; and content guidance is shown in gray font)

**Acknowledgment Statement:** I acknowledge that I have reviewed the information provided by my organization on this case study award entry. By providing my name below, I affirm that these documents contain no untrue statement of a material fact and I permit the information to be disclosed publicly in accordance to the program's [official rules](#).

Submitter's Name: \_\_\_\_\_ Date: \_\_\_\_\_

<http://www.cleaneconomyministerial.org/Energy-Management-Leadership-Awards>



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## CASE STUDY TEMPLATE

- The **Case Study Template** provides:
  - Required layout, fonts, and formats to be used when developing your case study
  - Evaluation criteria and point values associated with content
    - Displayed in **red text** throughout the template
    - Used by the judges to score the entry
  - Guidance on content with example of topics to address
    - Displayed in **gray text** through the template

CASE STUDY TEMPLATE

### Global Energy Management System Implementation: Case Study

Country

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#### Organization Name

*Add byline here: e.g., achievement by company or facility.*

Add Photo

Include caption

#### Business Benefits Achieved

Add text here

**1.1. Business Benefits (Summary) – up to 15 points** (e.g., achieved energy performance improvement, cost savings, CO<sub>2</sub> reduction, and non-financial benefits)

Summary of organization and its accomplishments, business benefits, such as annual energy savings and energy cost savings, and CO<sub>2</sub> reduction resulting from EnMS efforts.

For cost savings, use local currency and label the currency used, at least for first instance.

--Delete these boxes for final submission --

*“Add quote from organization about its achievement and success through ISO 50001.”*  
 --Name of representative, title

**2.3. Quotes – up to 5 points** (e.g., describing business value of ISO 50001 or its usefulness)

Can be placed wherever appropriate throughout case study.

**2.1. Keys to Success – up to 5 points** (e.g., insights to help others successfully implement)

**1.2. Drivers/Business Case – up to 5 points** (e.g., corporate strategy, business rationale, association or international program)

**IDEAS!** For example, this could include:

Energy’s role in corporate strategy: Characterize significance of energy in the company’s business strategy.

Drivers: Reason energy management was implemented, e.g., internal factors, such as long-term corporate goals, etc.; external factors, such as regulatory environment, price of energy, etc.; non-energy drivers such as reputation or brand motivation, etc.

**Energy management program:** Name and description of national, regional, or local government program that requires or encourages energy management.

**History of energy reduction approach:** Describe the prior approach to reduce energy use and how it changed as a result of ISO 50001.

#### Business Case for Energy Management System

Add text here

#### Keys to Success

- Bulleted format is recommended.
- A
- B
- C

#### 2.1. Keys to Success – up to 5 points

(e.g., insights to help others successfully implement)

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#### Case Study Snapshot

Industry	
Location	
Energy Management System	ISO 50001
Product/Service	
Energy Performance Improvement (%)	**Calculate using the formula below
Annual energy cost savings	
Cost to implement	
Payback period	

**\*\*Energy Performance Improvement (%) (EPI %) should be determined by using the following formula:**

$$EPI \% = \frac{\text{Baseline Period Energy Consumption} - \text{Reporting Period Energy Consumption}}{\text{Baseline Period Energy Consumption}}$$

Where the baseline period energy consumption and reporting period energy consumption are accounted for being for the same organizational boundary (ygs) and the two periods are equivalent in length. Energy consumption of either period may be normalized when appropriate. ISO 17747 provides additional guidance on the determination of energy savings and the calculation of EPI %.

--Delete this box for final submission --

#### Company (or Facility) Profile

Add text here

1

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2



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## EVALUATION CRITERIA

- Each Case study is evaluated based on content criteria
- Points are associated with topics that meet two criteria:
  1. Describe ISO 50001 implementation and resulting business benefits (9 topics, 80 points possible)
  2. Provide advice, tips, and visuals (4 topics, 20 points possible)
- A panel of experts will use the evaluation criteria to score entries (100 points possible)

Evaluation Criteria	Insight Awards	CEM Award of Excellence & National Awards: Points available
<b>1. Describes high-quality and replicable description of ISO 50001 implementation and resulting business benefits:</b>	Addresses each of the evaluation criteria? Yes/No	<b>80 points possible</b>
1.1. <b>Business benefits</b> (e.g., achieved energy performance improvement, cost savings, CO <sub>2</sub> reduction, and non-financial benefits)		up to 15
1.2. <b>Drivers/Business Case</b> (e.g., role in corporate strategy, business rationale, associated national or international program)		up to 5
1.3. <b>Organizational</b> (e.g., top management support, involvement, roles, decision-making, and resources provided; EnMS team leader and key team members and their respective divisions/departments and roles)		up to 10
1.4. <b>Energy review and planning</b> (e.g., process of understanding energy consumption & use, energy review, analysis, decision-making on where to focus resources, and action planning)		up to 10
1.5. <b>Development and use of professional expertise, training, and communications</b> (e.g., use of trained and certified professionals, employee training, engagement & communications)		up to 10
1.6. <b>Tools &amp; Resources</b> (e.g., tools & resources used implementation, measurement, analysis, monitoring; leveraging of other internal corporate or facility resources, systems, or business improvement methodologies (e.g., ISO 90001, ISO 14001, Lean Manufacturing, Six Sigma, etc.; external assistance received such as resources from government, energy service companies, utilities, suppliers, etc.)		up to 5
<b>2. Provides useful advice and tips, compelling quotes, and visuals:</b>	All included? Yes/No	<b>20 points possible</b>
2.1. <b>Keys to Success</b> (e.g., tips and insights to help others successfully implement ISO 50001)		up to 5
2.2. <b>Lessons Learned</b> (e.g., insights, advice on lessons learned related to EnMS, such as barriers and challenges encountered and if possible, solutions or measures to succeed)		up to 5
2.3. <b>Quotes</b> (e.g., quotes on value of ISO 50001 or its usefulness)		up to 5
2.4. <b>Visuals</b> (e.g., photos of energy team, employees, facility and charts, graphs or tables illustrating cost-benefit analysis or other topics)		up to 5
<b>Total</b>	Yes/No	<b>100 points possible</b>





# ENERGY MANAGEMENT LEADERSHIP AWARDS

## SELECTION PROCESS

**Case study submissions from around the world**

### Secretariat Review

Entries that meet requirements are accepted and move forward.

### Expert Review & Scoring

Experts review & score case studies

Secretariat tabulate results

Highest scoring submissions move forward as finalists for the Excellence Awards

### Energy Management Insight Awards:

All qualifying entries earn this award for sharing high-quality, replicable description of ISO 50001 use and results to help accelerate global achievement of energy and carbon targets

### CEM Awards of Excellence

Experts meet to review and discuss finalists and select 3 winners for Awards of Excellence

National Awards Countries offering national awards receive case studies from their countries with scores; and announce national awards for highest scoring case study (optional: additional national criteria)



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## EXPERT REVIEWERS

**Countries are nominating EnMS experts, one for the selection committee, and a backup who will be activated if needed.** In addition, TC 242, UNIDO, and SE4ALL will also be invited to identify experts.



### Experience/Expertise:

- Serves on ISO TC 242
- Serves on country advisory group or mirror committee to ISO TC 242

Or

- Minimum 2 years of experience with management systems implementation or auditing
- Certified by national energy management professionals program (for ISO 50001 implementation or auditing)



# ENERGY MANAGEMENT LEADERSHIP AWARDS

## EXPRESS YOUR INTEREST

- Organizations interested in applying should send full name, point of contact, email, company and country affiliation to [EMWG@energetics.com](mailto:EMWG@energetics.com).
- This ensures you will receive important updates or clarifications. This does not obligate participation.



# ENERGY MANAGEMENT LEADERSHIP AWARDS



## CALLING ALL GLOBAL LEADERS IN CLEAN ENERGY

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