

ENERGY MANAGEMENT WORKING GROUP

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

13 January 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

> 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

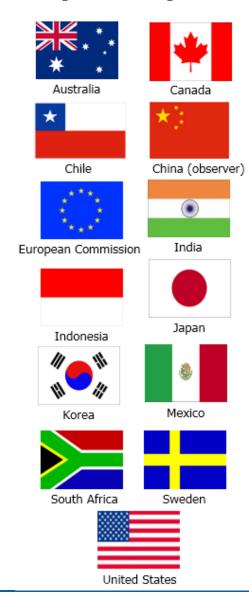
The EMWG leverages the extensive expertise of its member countries to accelerate the adoption and use of energy management systems (EnMS) such as ISO 50001 in industry and in commercial buildings worldwide.

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

<u>Partners:</u> 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

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









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













TATA STEEL





















































GENERAL DYNAMICS



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.









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 externallyverified energy savings; energy projects received funding during times of economic downturn

www.cleanenergyministerial.org/Our-Work/Initiatives/Energy-Management/Case-Studies







ENERGY MANAGEMENT WORKING GROUPRECOGNIZING LEADERSHIP



- Showcase leading companies that have a certified ISO 50001 FnMS
- 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







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.



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 AWARDSONLINE RESOURCES



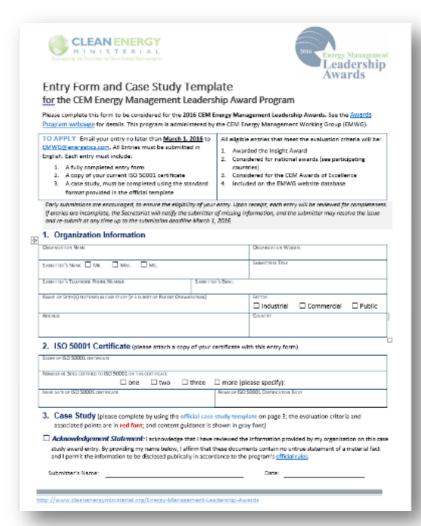
- Website: <u>www.cleanenergyministerial.org/Energy-</u> <u>Management-Leadership-Awards</u>
- Fact Sheet to download and share
- Official Rules with full award program details, including how to apply, submission deadline, selection process, evaluation criteria, etc.
- Frequently Asked Questions (FAQs)
- 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



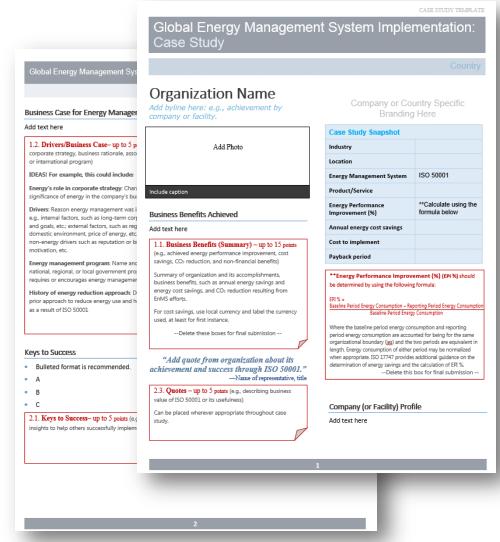






CASE STUDY TEMPLATE

- 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





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
Describes high-quality and replicable description of ISO 50001 implementation and resulting business benefits:	Addresses each of the evaluation criteria? Yes/No	Awards: Points available 80 points possible
1.1. Business benefits (e.g., achieved energy performance improvement, cost savings, CO ₂ reduction, and non-financial benefits)		up to 15
1.2. Drivers/Business Case (e.g., role in corporate strategy, business rationale, associated national or international program)		up to 5
1.3. Organizational (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. Energy review and planning (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. Development and use of professional expertise, training, and communications (e.g., use of trained and certified professionals, employee training, engagement & communications)		up to 10
1.6. Tools & Resources (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
2. Provides useful advice and tips, compelling quotes, and visuals:	All included? Yes/No	20 points possible
2.1. Keys to Success (e.g., tips and insights to help others successfully implement ISO 50001)		up to 5
2.2. Lessons Learned (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. Quotes (e.g., quotes on value of ISO 50001 or its usefulness)		up to 5
2.4. Visuals (e.g., photos of energy team, employees, facility and charts, graphs or tables illustrating cost-benefit analysis or other topics)		up to 5
Total	Yes/No	100 points possible





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 highquality, 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)







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.
- This ensures you will receive important updates or clarifications. This does not obligate participation.







www.cleanenergyministerial.org/Energy-Management-Leadership-Awards



