Energy Management Working Group (EMWG)

Objectives

The EMWG aims to optimise global energy use and minimise emissions across industrial facilities and commercial, public sector and institutional buildings, largely by encouraging sector stakeholders to pursue continuous energy efficiency improvements through implementation of energy management systems (EnMS), such as the ISO 50001 standard.

In parallel, the EMWG works with the private sector, NGOs, accreditation bodies, and international and regional programmes to strengthen and support cohesive national and regional energy and climate strategies. Often, this involves facilitating development of policies and programmes that address implementation barriers and improve access to technical resources.

2018 - Policy best practices and practical action for energy management

With a strong focus on global ISO 50001 energy management system trends, the EMWG boosts global awareness of the benefits of EnMS and their potential to reduce costs, energy use and CO₂ emissions. In 2018, the EMWG:

- Held the third round of the Energy Management Leadership Awards, which drew entries from 50 organisations from around the world. Three Award of Excellence winners were recognised during the 9th Clean Energy Ministerial (CEM9) (Copenhagen, Denmark / May 2018).
- Continued to enhance Energy Professionals International ISO 50001 Lead Auditor Certification, a globally available credential for ISO 50001 Lead Auditors.
- To help countries to estimate energy and emissions savings, promoted use of the ISO 50001 Impact Estimator Tool developed by the EMWG’s ISO 50001 Global Impacts Research Network.
- Encouraged integration of latest technical developments and policy best practices in national programmes; launched Phase II of the North American Energy Management Pilot Programme, led by the Commission for Environmental Co-operation; and concluded the Asia-Pacific Economic Cooperation (APEC) project, Enhancing Regional Conformity Assessment to Ensure Successful ISO 50001 Standard Outcomes.
- Executed an EMWG strategy review to evaluate member priorities on energy management and identify new areas of work for the Task Group.
- Disseminated information on the ISO 50001 standard by publishing case studies, hosting webinars, training workshops and other events, and presenting at international conferences.

2019 - Strengthening awards, accreditation and certification

In addition to advancing its ongoing initiatives, in 2019 the EMWG will focus on:

- Evaluating and awarding the 2019 Energy Management Leadership Awards competition, adding to more than 120 award-winning case studies describing ISO 50001 use and benefits in sites across 100 countries and economies.
- Supporting development of the International Accreditation Forum database of ISO 50001 and other management system certifications, largely by engaging with certification and normalisation bodies and by developing recognition programmes to prompt organisations to seek certification.
- Facilitating ongoing dialogue among member (and non-member) governments, the private sector, standards bodies, and other partners through member webinars and international events such as the CEM10 meeting, G20 events through IPEEC, and ISO Technical Committee 301 meetings.

Membership

Lead Members: Canada • United States

Participants: Argentina • Australia • Chile • China • Denmark • European Commission • Germany • India • Indonesia • Japan • Mexico • Republic of Korea • Saudi Arabia • South Africa • Sweden • United Arab Emirates
Impact: Energy Management Leadership Awards deliver global recognition

Experts estimate that if 50% of projected global industrial and services sector energy consumption were managed under ISO 50001 by 2030, it would generate cumulative primary energy savings of 105 EJ, deliver cost savings of nearly USD 700 billion and reduce emissions by 6.500 million tonnes of CO$_2$ (MtCO$_2$). The avoided CO$_2$ emissions in 2030 alone would be equivalent to removing 210 million passenger vehicles from the road.

Through the annual Energy Management Leadership Awards Programme, the EMWG recognises leaders in the industrial, commercial and institutional sectors for improving energy performance across their organisations by implementing ISO 50001.

In 2018, the EMWG recognised 50 organisations across 103 countries. Each organisation developed a case study that shared valuable insights on best practices, successes and other benefits achieved by meeting the ISO 50001 standard in one or more facilities. Collectively, they reported annual energy cost savings of USD 383 million and emissions reduction of 4.3 MtCO$_2$—equivalent to taking 916,000 passenger vehicles off the road.

In preparation for 2019 awards, the EMWG refined programme requirements and awards criteria to reflect lessons learned and incorporate updates from the ISO 50001:2018 standard.

Next challenge: By 2020, achieve 50,001 certifications globally for ISO 50001, thereby providing greater reliability of outcomes.

Building a solid foundation for EnMS

The EMWG has multiple achievements to boast since its establishment in 2010. Fundamental to its work has been the Energy Management Campaign, which aims to reach 50,001 certifications to the ISO 50001 standard globally by 2020. The Working Group has secured voluntary commitments to take action that promotes and accelerates ISO 50001 implementation from governments (including one municipality), companies and international organisations. Partners also endorsed the EMWG’s key principles for quality implementation of ISO 50001, and agreed to track and share progress toward their commitments.

In parallel, the EMWG created the Energy Professionals International ISO 50001 Lead Auditor Certification, which establishes a standardised, high level of knowledge and skills. Improved competency of ISO 50001 auditors boosts confidence in ISO 50001 certification outcomes and ensures that companies, governments and other end-users have robust ISO 50001 systems in place. The Working Group also provided recommendations to the International Accreditation Forum.

100 International webinars
21 International workshops
138 EnMS case studies
27 Public commitments on ISO 50001 action

Read the full report