



INSIDE THIS ISSUE

- 1 *First energy management system training kicks off*
- 2 *The Practical Guide for Implementing an energy management system is now in Arabic*
- 3 *IEE starts a national energy efficiency policy & strategy*
- 4 *Energy benchmarking for industrial sector*
- 5 *IEE launches national program for EnMS: The M&V protocol and the compliance with ISO 50001*

It is our pleasure to introduce this first newsletter of the Industrial Energy Efficiency Project (IEE) which is implemented by the United Nation Industrial Development Organization (UNIDO) in full cooperation with the Egyptian Environmental Affairs Agency, the Industrial Development Authority, the Egyptian Organization for Standardization, the Industrial Modernization Center and the Federation of Egyptian Industries. The project aims at facilitating energy efficiency improvements in the Egyptian industrial sector. The IEE Project started in January 2013 with an ambitious plan to make an impact on how Egyptian industries manage energy through an integrated approach that will not only focus on technical improvement, but also improvement on policy, management operations and financing.

Why Energy Efficiency? Energy efficiency is a proven strategy to lower emissions and reduce energy use and costs. In Egypt, energy demand is expected to exceed energy supply by 15% within the next decade. Energy use by the industrial sector is approximately one-third of total annual energy consumption in Egypt. Industrial energy efficiency represents a significant opportunity for energy savings as a way to bridge the gap between expected energy demand and energy supply in the country.

The IEE Project aims to support the development and implementation of a national energy management standard and energy efficiency services for Egyptian industry. A core principle of the project is the establishment of a cadre of experts in energy management and system optimization that can assist Egyptian industries in developing and implementing energy efficiency

improvements projects. Moreover, the project will result in high awareness by industry on the needs and benefits of energy efficiency and streamlined procedures. This approach is expected to result in significant increase in the number of companies investing in IEE improvement projects.

This newsletter is launched with the aim of reaching not just our project partners and stakeholders, but also a wider audience seeking information about IEE Project activities. Featuring key project events, news and training activities, our newsletter will also highlight the most important news about energy efficiency.

We look forward to producing an attractive, informative and useful newsletter. We welcome feedback on this issue and contributions to future issue of the newsletter.

Industrial Energy Efficiency Project – Egypt

41, Street No. 9, Maadi, Cairo, Egypt
Tel: 202-2380 0357
Fax: 202-2359 3204





First energy management system training kicks off

The Industrial Energy Efficiency Project (IEE) organized its first energy management system training during the period from 6 to 19 of September 2013 with the objective of familiarizing the trainees with the economic and strategic benefits of energy management systems and the basics for the provision of EnMS technical assistance.

The IEE Project aims at building local capacity for energy efficiency services on energy management and system optimization in order to create adequate supply of sufficient and quality services that is required for a well-functioning local market of EE consultancy.

To enhance awareness in industry on energy management, the IEE Project provided the EnMS training over two sessions, one for a group of energy and environmental consultants as well as governmental professionals, and the second for industry owners, senior managers and energy engineers of industrial companies in the energy intensive sectors.

Thirty-four candidates participated in the first training. Some of them, the most suitable local experts, will receive further relevant training to become local trainers in their perspective fields. They would subsequently assume roles as “National Energy Management Experts” and become certified energy management experts.

The second group consisted of 29 trainees from 15 companies of different industrial sectors including aluminum, iron & steel, cement, ceramics, chemicals, fertilizers, and paper. This training also targeted facilities in 9 different governorates; Cairo, Giza, Dakahlia, Qualubeya, Menofeya, Suez, Alexandria, Qena and Aswan.



“It is not difficult to reduce energy consumption in most organizations,” was the central message of the training, that aimed at: 1) building enterprises’ and EE consultants’ understanding of energy management systems in line with ISO 50001 and their benefits and resource requirements for implementation; and 2) enabling enterprises to develop a high-level project management plan to implement EnMS.

Energy efficiency has demonstrated that it saves industrial firms money, reduces production and product costs, increases reliability of operations, and has a positive effect on productivity and competitiveness.

63 Trainees

15 Companies

9 Governorates



The Practical Guide for Implementing an energy management system is now in Arabic



The IEE Project is pleased to announce that UNIDO's Practical Guide for Implementing an energy management system, is now available in Arabic. The IEE provided a translation effort of this Practical Guide which, in its English version, has gained much attention in the professional arena worldwide.



The purpose of this Guide is to help organizations of all sizes to improve their energy performance in a logical, controlled and systematic way, thereby saving energy and reducing costs. This Arabic version tries to introduce the process of implementing an energy management system as simple as possible.

The Practical Guide is based on the approach and structures of a number of energy management system standards, including ISO 50001:2011 Energy Management Systems. The energy management system approach has a long and proven success record across all industry sizes and sectors. The information presented in the Guide has been structured to align with other popular industry management systems.

The Guide is structured as closely as possible with how an organization would go about designing, implementing and operating an energy management system in practice. It includes a number of tools (spreadsheets, samples and templates) provided to help with the implementation of an EnMS. Such supporting material is also found in the CD that accompanies the Guide.

IEE starts a national energy efficiency policy & strategy

Energy efficiency is an immediate and effective way of reducing the cost of industrial production as well as reducing greenhouse gas emissions. A wide range of low-cost policy measures have proven to be effective in improving energy efficiency.

In order for significant changes to occur in Egypt, this must be supported by incorporating energy efficiency considerations into the decision-making process. It also means that businesses must equally rise to the challenge by boosting their cooperation to supplement the collective efforts.

During this quarter, The IEE has taken effective steps towards the development of a national policy and strategy for energy efficiency in order to accelerate energy efficiency efforts across the country and to help business prepare for the introduction of the energy efficiency improvements.

Streamlined roles and responsibilities for energy efficiency consultants, on national and international levels, have been formulated by the IEE Project to develop a short/medium term strategy that will provide a clear road map for the

industrial energy efficiency for the next ten years. The strategy is expected to identify vision, goals, priorities and rationale behind, while outlining the status quo in Egypt with a focus on:

- Energy intensity and energy availability
- Energy supply (primary and sectorial usage)
- Measurement of energy efficiency
- Energy efficiency initiatives

On policy level, the IEE Project consultants will review the international experience in IEE Policy and prepare a policy recommendations report that is relevant to the situation in Egypt. A policy development methodology and approach will also be provided.

To further support the policy and strategy formulation, a "Think Tank" will be formed including a group of experts and representatives from relevant ministries, private sector and NGOs. The IEE Project will organize several stakeholders' consultations to ensure the ownership of the government over the produced deliverables.



Energy benchmarking for industrial sector

In collaboration with Egyptian Industrial Development Authority (IDA), the IEE Project has recently embarked on the development of Egypt's Industrial energy database and energy consumption benchmarks for three sectors; iron & steel, fertilizers and cement.

The activity comes under the IEE's Component 1 that aims to advance a national program that helps define energy benchmarks and implement ISO-compatible Energy Management Standard for Egypt's industry.

To provide support for the development and implementation of a national energy management standard and energy efficiency services, the IEE is now working closely with the IDA, the leading agency for benchmarking activities under the Ministry of Industry and Foreign trade.

The IDA, a partner of the IEE, is providing general industrial data and statistics as well as industrial production and consumption data. The IEE national and international consultants will advise the IDA on the collection of meaningful data and how to make



best use of such data, whereas the IDA, being the manager of the data, will make the data available to other agencies and the public.

The IEE aims to support the improvement of data gathering on energy efficiency and greenhouse gas emissions in industry and address the lack of reliable data on the energy performance of the industrial subsectors.

More sectors will be added after the issuance of the benchmarking reports of the first three sectors.

IEE launches national program for EnMS: The M&V protocol and the compliance with ISO 50001



In cooperation with the Egyptian Organization for Standardization (EOS), the IEE Project has taken positive steps towards developing a national program to implement an ISO energy management standard for industry and a measurement and verification (M&V) protocol in compliance with EnMS.

The adoption of ISO 50001 will provide organizations and companies with technical and management strategies to increase energy efficiency, reduce costs, and improve environmental performance.

To build knowledge and in-depth technical capacity for industrial energy efficiency, the Project's international and national experts will support the ongoing awareness activities by EOS through providing technical support and training of trainers (TOT) for

the customization of training materials and approach. The IEE Project will also provide energy audits and work closely with the EOS to develop a Measurement and Verification Protocol, an essential element of certifying facilities for energy efficiency.

This M&V Protocol for industry will offer a best practice methodology to 1) verify the results and impact from implementation of ISO 50001; 2) track energy performance changes over time for an industrial facility; and 3) document energy performance normalized to production and other relevant variables.

Although ISO 50001 is originally intended for industry, the standard will apply to any type of organization wishing to effectively manage its energy uses and efficiency.

