



Seventh International Forum on Energy for Sustainable Development

18 - 21 October 2016, Baku, Azerbaijan

JW Marriott Absheron Baku Hotel

Global Energy Efficiency Accelerator Platform and Progress in Accelerating Industrial Energy Efficiency

*Business and policy value through Energy Management Systems in
industry*

19 October 2016, 14:00 -18:00

Workshop co-organizers: United Nations Industrial Development Organization (UNIDO), Copenhagen Centre on Energy Efficiency (C2E2), and United Nations Economic Commission for Europe (UNECE)

This event will focus on the **Industrial Energy Efficiency Accelerator** and its work to promote and support accelerated dissemination of Energy Management Systems (EnMS) in line with ISO 50001 and other best available policies and technologies in collaboration with UNIDO, the Carbon Trust and other partners.

The Industrial Accelerator is part of the Global Energy Efficiency Accelerator Platform, which is a public-private partnership to scale-up energy efficiency policy, action and investment. The Platform aims to contribute to the doubling the global rate of energy efficiency improvements by 2030. The Platform provides governments and the private sector with the means for engaging with a variety of stakeholders whose knowledge of technologies, markets, financial instruments and implementation approaches can support scaling-up of energy efficiency actions in different sectors. The Platform helps to drive action and commitments by national and sub-national leaders. A brief overview of the progress on the existing accelerators, namely Industry, Vehicle Fuel Efficiency, Appliances and Equipment, Lighting, Buildings Efficiency and District Energy will be provided.

Today industry accounts for more than a third of global energy consumption and greenhouse gas (GHG) emissions and will drive global growth for new energy demand over the next decades. To meet the climate change mitigation targets and sustainable development objectives set by the international community through the Paris Agreement and the new Sustainable Development Goals (SDGs), industry will have to significantly increase its energy efficiency and progressively switch from carbon-intensive to low-carbon or carbon-free fuels and energy sources. It is estimated that widespread adoption of energy efficiency measures in global industry could reduce

industrial energy use by over 25%, representing 3.92 Gigaton of CO₂. While the challenge remains daunting, there are policies, technologies, best practices and other instruments available to industry, policy-makers and the international community to support and enact such industry transition. The need is to accelerate global dissemination and implementation of existing best-available technologies and practices while nurturing break-through innovations.

Energy Management Systems (EnMS) have emerged over the last two decades as proven best practice methodology for organizations to achieve sustainable energy efficiency and continually improving energy performance, especially in industry. EnMS in line with ISO 50001 provides a methodology for introducing in organizations systematic and structured approach to the management of energy in all its forms (electricity, heat, fuels, etc.) and at all levels of an organization (management, policy, planning, operations, design, procurement, investments, etc.). EnMS implementation requires organizations and their employees to build new knowledge, expertise and skills. It requires willingness to challenge and openness to change established procedures, processes and work behaviours with the objective to improve energy performance, increase productivity and enhance competitiveness.

UNIDO will provide information about its industrial energy efficiency programme, which supports enterprises in developing and emerging economies in the implementation of EnMS, thereby helping them improve their energy performance, productivity and environmental sustainability. The workshop offers an opportunity for discussion between industry representatives who benefited from UNIDO technical assistance for EnMS implementation, energy efficiency experts and policy makers about the business and policy value generated by EnMS implementation. It will also allow frank conversation about challenges and obstacles for practitioners, service providers and policy makers to achieve required dissemination of EnMS and associated impact, including doubling the rate of energy efficiency in the industrial sector.

AGENDA

Draft 3 October 2016

Sessions	Duration	Title	Speaker
Session 1 14:00 – 15:45 Accelerating energy efficiency in industry	10 min	The Global Energy Efficiency Accelerator Platform: Overview of Progress	Mr. Tim Farrell, Ms. Ksenia Petrichenko, C2E2
	30 min	The Industrial Energy Efficiency Accelerator	Mr. Al Karim Govindji, Carbon Trust, Mr. Robert Tromop, Managing Director, Efficient Energy International Limited
	20 min	Enabling policies to support industrial energy productivity	Mr. Padu S. Padmanabhan, Visiting Researcher, KAPSARC
	25 min	Energy Management Systems – Solving the Technology * People / Data Equation	Mr. William McLaughlin – UNIDO International Lead EnMS Expert
	20 min	Discussion, Questions and Answers	
Coffee Break: 15:45 – 16:15			

Session 2 16:15 – 18:00 The business and policy value of energy management systems in industry	20 min	EnMS Implementation in Coal Mining: The Experience of Kuzbassrazrezugol	Mr. Alexander Rodionov, Chief Power Engineer, JSC Coal Company “Kuzbassrazrezugol”, Russian Federation
	20 min	EnMS Implementation in Refractory Materials Manufacturing: The Experience of Vardar Dolomit	Mr. Zlatko Gjurchinoski, Energy Manager, Vardar Dolomit, the former Yugoslav Republic of Macedonia
	15 min	Policies and Global Uptake of EnMS: Opportunities and Challenges	Mr. Marco Matteini, UNIDO Industrial Energy Efficiency Division
	10 min	Policy Maker Meets the Engineer: Gaps, Challenges and Ways to Overcome Them	Mr. Hannes Mac Nulty, Development Manager, Sustainable Energy Solutions, BG Consulting Engineers
	20 min	Discussion, Questions and Answers	
	20 min	Conclusions and Recommendations	

About UNIDO

The United Nations Industrial Development Organization is a specialized agency of the United Nations whose mandate is to promote and support Inclusive and Sustainable Industrial Development (ISID). Within its Industrial Energy Efficiency (IEE) Programme UNIDO partners with governments and enterprises of developing and emerging economies to improve frameworks for IEE, building capacity and implementing best-available technologies that improve energy performance, productivity and environmental sustainability of industry. UNIDO initiated the international process that led to the development of the international standard *ISO 50001 Energy management systems – Requirements with guidance for use*. As of July 2016 the UNIDO Global EnMS Programme is active in 17 countries where it works with government counterparts, energy efficiency service providers and industrial enterprises to build market demand and capacity for EnMS implementation as well as policy programmes promoting and supporting broader dissemination of EnMS.

About C2E2

The Copenhagen Centre on Energy Efficiency is a joint activity of the Danish Government, the United Nations Environment Programme (UNEP) and the Technical University of Denmark (DTU) dedicated to accelerating the uptake of energy efficiency policies and programmes at a global scale. The C2E2 hosts the Secretariat for the Global Energy Efficiency Accelerator Platform under the United Nations Secretary General’s Sustainable Energy for All (SEforALL) initiative. The C2E2’s prime responsibility is to support action towards the SEforALL energy efficiency target of doubling the global rate of improvement in energy efficiency by 2030.