Industrial Energy Efficiency Programme
Harnessing expertise, technologies and knowledge networks to ensure sustained performance improvements in global industrial energy use

The UNIDO Industrial Energy Efficiency (IEE) Programme builds on more than three decades of experience and unique expertise in the field of industrial development and technology transfer. It represents a pillar of the Green Industry model that underpins UNIDO’s mandate for inclusive and sustainable industrial development.

The UNIDO IEE Programme combines policy and normative development support services with capacity-building for all relevant market players, demonstration and deployment of best-available technologies with platforms for replication and scaling-up. It aims at removing key barriers to energy efficiency improvement in industries and ultimately transforming the market for industrial energy efficiency.

The UNIDO IEE Programme is structured around the following thematic areas:

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Energy management systems and efficient operations: Integrating energy efficiency in industry daily practices

The UNIDO Global Energy Management Systems (EnMS) Programme is a flagship initiative that promotes the uptake of energy management systems in the industrial sector. The programme equips local energy efficiency practitioners and industry personnel with the knowledge, skills, methodologies and tools required to identify and implement energy efficiency practices and aims at creating a culture of energy efficiency within organizations.

The EnMS Programme effectively integrates the UNIDO Energy System Optimization Programme. Evidence shows that energy utilities such as compressed-air systems, steam systems and others offer average efficiency gains of 10-30 per cent when performance is optimized from a system perspective, very often with interventions that are largely operational and no/low-cost.

Achievements as of June 2015 are:
- Active in 17 countries
- Over 3,500 companies assisted
- Over 700 national experts trained
- Average organization-wide energy savings in first year of EnMS implementation of 5-15 per cent, without capital investment
- More than 3,000 GWh of energy saved over four years
- Multiple non-energy benefits including waste reduction, increased productivity and quality gains, innovation and job creation.
Developing and implementing supportive policies and standards to drive industrial energy efficiency

The programme also supports government and its institutions in formulating integrated energy efficiency policy packages targeting industry. These policies are suited to the national context and aim at motivating industry to adopt energy efficiency and at promoting energy efficiency as a means to improved competitiveness.

Benchmarking the industrial sector’s energy use can provide valuable insights on energy efficiency improvement potentials and technology needs.

Evaluating energy efficiency potentials for industrial subsectors, energy consuming systems to determine the costs of implementation of optimization measures.

Standards and technical regulations to promote the manufacture and use of energy efficient industrial equipment.

These tools are important for policymakers in designing sector and/or technology specific energy efficiency supporting schemes (technical assistance, capacity-building, fiscal incentives, etc.).
Programme components:

Working together with counterparts, stakeholders and partners to catalyse lasting impact

**Providing policy and institutional support**
Strengthening policy and regulatory frameworks for better, more sustainable and efficient energy performance in industry

**Building knowledge and skills**
Integrating energy efficiency in the day-to-day operations of industry; saving energy and reducing GHG emissions

**Demonstrating and upscaling sustainable practices**
Accelerating the adoption and widespread dissemination of best available practices and technologies in industrial energy efficiency

Support innovation  Enhance competitiveness  Create green jobs  Improve environmental performance
About UNIDO

The United Nations Industrial Development Organization (UNIDO) is a specialized agency of the United Nations. Its mandate is to promote and support inclusive and sustainable industrial development (ISID) in developing countries and economies in transition, and work towards improving living conditions in the world’s poorest countries by drawing on its combined global resources and expertise.

UNIDO’s activities in the field of energy are driven by challenges, opportunities and concerns over energy poverty, energy security and climate change issues. UNIDO’s Energy Programme follows a targeted approach to “powering” inclusive and sustainable industrial development through the following strategic focus areas:

- Providing client countries with policy advice and integrated sustainable energy solutions for the industrial sector
- Promoting technology innovation, transfer and demonstration in sustainable energy systems and technologies
- Championing industrial energy perspectives in the global debates about sustainable industrial development and climate change mitigation and adaptation

For more information on the UNIDO Energy Programme, contact: energymanagement@unido.org or visit our website: http://www.unido.org/en/what-we-do/environment/energy-access-for-productive-uses/industrial-energy-efficiency.html