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Demonstrating the Social Benefits of Energy Efficiency in the Philippines

The Department of Energy (DOE) of the Republic of the Philippines has contracted IIEC to provide project implementation support to its Philippine Energy Efficiency Project (PEEP), a two-year project supported by a loan from the Asian Development Bank (ADB).



Consisting of three components - Efficient Lighting Initiative, Efficient Initiatives in Buildings and Industries, and Communication and Social Mobilization - the six key objectives of the PEEP are as follows:

1. Retrofitting of government buildings with efficient lighting systems (ELS) and the establishment of a model for large-scale implementation in the public sector.
2. Distribution of 8.6 million efficient Compact Fluorescent Lamps (CFLs) amongst residential consumers nationwide and demonstration of high efficiency Light-Emitting Diodes (LEDs) technology in selected off-grid rural households.
3. Successful demonstration of efficient street lights and traffic lighting in local government units (LGUs) and the establishment of a model for standardizing public lighting and large scale implementation.
4. Expansion of the capacity of DOE's Lighting and Appliance Testing Laboratory (LATL) to conduct efficiency testing on a wider range of appliances and the accreditation of the laboratory to international standards.
5. Procurement of a Lamp Waste Management facility and the establishment of a business model for collection of lamp waste and the operation of the facility.
6. Establishment of an efficient building rating system in the Philippines for new and retrofitted buildings.

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IIEC Supports ADB in an Innovative Project on Energy Efficiency in Municipalities

IIEC is the lead consultant for an Asian Development Bank (ADB) and Thailand's Provincial Electricity Authority (PEA) project on Mainstreaming Energy Efficiency in Municipalities in Thailand. The objective of the first phase of this two-year project is to identify standard energy efficiency measures applicable to buildings and street lighting in selected municipalities and develop a sustainable business model(s) for large scale implementation incorporating private sector financing models and the Clean Development Mechanism (CDM). Under this project, the IIEC is tasked to support ADB and PEA in:

1. The demonstration of the benefits of energy efficiency projects implemented through customized financing arrangements in the 6 pilot municipalities, i.e. Lumphun, Nongkhai, Udonthani, Banpong, Krabi and Trang.
2. Finalizing a plan for large scale replication nation-wide complimented by enhancing the capacity of PEA and municipalities in energy efficiency project development and implementation.
3. A communication and outreach program covering all sectors of the community.

Point 1 above is currently being implemented by IIEC with a pioneering municipal energy efficiency demonstration project in Trang Municipality, including the installation and operation of Light-Emitting Diodes (LEDs) street lighting. It will be the first-ever LED street lighting demonstration project in Thailand and will be implemented in all six municipalities with a total of 100 LED roadway luminaires to be installed.



▲ Installation of Two LED Street Lighting Luminaires and Verification of Road Surface Luminance

LED technology is considered the next generation of high-efficient lighting as it uses about half as much energy as conventional sodium streetlights, and typically lasts for up to 50,000 hours (almost 6 years of continuous use) instead of 10,000 to 30,000 hours lifetime for the conventional technologies for street lighting applications.

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Addressing the Power Crisis in Malawi

IIEC has been engaged by the UK Department for International Development (DFID) for the design and implementation of a nationwide Energy Efficient Lighting Program (EELP) in Malawi. This is the first large scale Demand-side Management (DSM) program to be undertaken in Malawi and is aimed at addressing the current acute power shortage (around 14%) during the evening peak period. The program entails the procurement of high quality Compact Fluorescent Lamps (CFLs) and direct installation (replacing incandescent bulbs) in the residential, small enterprises and public sector. Electrical retailers will support the program through the sale of CFLs to the private sector at subsidised prices. The program is expected to reduce around 50 MW in peak demand.

To ensure sustainability the program also includes the development of an incandescent bulb phase-out policy, minimum energy performance standards for CFLs and safe disposal guidelines for fluorescent lighting.

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Promoting Energy Efficiency and Cleaner Production Measures in Indian MSMEs

In the framework of the Financial Cooperation between India and Germany, the German Development Bank (KfW) is providing an energy efficiency (EE) and a cleaner production (CP) credit line to the Small Industries Development Bank of India (SIDBI). The credit lines (worth EUR 88.5 million) are targeted for investment loans for EE and CP measures in existing micro, small, and medium industrial enterprises (MSME) in India. The consulting consortium of Adelphi Consult (Adelphi), International Institute for Energy Conservation (IIEC) and Triodos Facet Consulting (Triodos) has been contracted by SIDBI to provide Technical Assistance to both the credit lines. The technical assistance project aims at assisting SIDBI and potential clients of the credit lines to identify, plan, evaluate and implement investments eligible under the two credit lines.

In this context, the consultants have shortlisted 18 clusters in India to organize awareness workshops and promote credit lines. The first workshop in the series was organized in Belgaum Foundry Cluster (BFC), Karnataka on 15 March 2011 in association with SIDBI and Institute of Indian Foundrymen (IIF) – Belgaum chapter. The Workshop was attended by about 100 participants including promoters of MSMEs in the Belgaum area, energy auditors and other stakeholders involved in promotion of EE and CP in MSMEs.

Mr. Shishir Athale, EE specialist from IIEC spoke about specific EE measures and technologies applicable for Belgaum foundries by discussing particular case studies. He recommended that melting process being the major consumer of fuel in foundries (~60%), adoption of EE practices and simple operating practices especially in the areas of moulding, gating and methoding, pouring will increase throughput and save on energy costs.



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IIEC provides Insight on ESCO and Energy Leasing Market in Thailand

The International Finance Corporation (IFC) has assigned IIEC to conduct a comprehensive market Survey on Sustainable Energy Leasing and ESCO Business Opportunities in Thailand. The aim of this project is to identify business opportunities in lease financing combined with Energy Service Companies (ESCOs), Energy Efficiency (EE), Renewable Energy (RE) and Cleaner Production (CP) services and also other energy financing options in Thailand.

On the 19th of May 2011, the IIEC successfully organized a workshop in Bangkok attended by 60 delegates from the commercial banking and leasing sectors, ESCOs, equipment suppliers, utilities and government stakeholders in Thailand (see photograph on the right). The objective was to present and discuss the interim findings of the survey and gather critical feedback from the audience. Comments and suggestions from the workshop will be incorporated into the final recommendations to be presented to the stakeholders in early June 2011.



The IIEC project team has carried out a survey and assessment of the existing regulatory, legal and fiscal frameworks, market drivers and barriers, market potential for energy efficiency and renewable energy. The final project output is to provide recommendations for IFC on potential mechanisms that could enable the uptake of energy lease and ESCO business in EE/RE/CP in Thailand.

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About IIEC

25 The International Institute for Energy Conservation (IIEC) was established in 1984 as a non-governmental (NGO), not-for-profit organization, in order to foster the implementation of energy efficiency in developing countries and countries in transition. IIEC's mission is to accelerate the global adoption of energy efficiency, transport and environmental policies, technologies and best practices to enable sustainable economic and environmental development.

For the past 25 years, IIEC has been providing solutions to the problems posed by the rapid increase of energy demand in developing and industrializing countries. IIEC has an established niche as a provider of novel solutions with the flexibility to work simultaneously with multilateral institutions, governments, academic and research institutes, industry and non-governmental organizations.

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