

Asian Productivity Organization

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PROJECT NOTIFICATION

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1. **Project Code:** 08-IN-20-GE-TRC-B
2. **Project Title:** **e-Learning Course on Energy Efficiency**
(based on the Global Development Learning Network of the World Bank platform)
3. **Duration:** Phase 1: 9–12 June 2008
Phase 2: 7–10 July 2008
Phase 3: 22–25 July 2008
4. **Venues:** Phase 1: Bangladesh, Cambodia, Lao PDR, Thailand, Vietnam, and Mongolia
Phase 2: India, Iran, Nepal, Sri Lanka, and Pakistan
Phase 3: Fiji, Malaysia, Philippines, and Indonesia
5. **Implementing Organizations:** APO Secretariat and the following NPOs:

Phase 1

- 1) Bangladesh: National Productivity Organisation, Dhaka
- 2) Cambodia: National Productivity Center of Cambodia, Phnom Penh
- 3) Lao PDR: Small & Medium Enterprise Promotion and Development Office, Vientiane Municipality
- 4) Thailand: Thailand Productivity Institute, Bangkok
- 5) Vietnam: Vietnam Productivity Centre, Hanoi
- 6) Mongolia: National Productivity & Development Center, Ulaanbaatar

Phase 2

- 7) India: National Productivity Council, New Delhi
- 8) I.R. Iran: National Iranian Productivity Center, Tehran
- 9) Nepal: National Productivity and Economic Development Centre, Kathmandu
- 10) Sri Lanka: National Productivity Secretariat, Colombo

11) Pakistan: National Productivity Organization,
Islamabad

Phase 3

12) Fiji: Training & Productivity Authority of Fiji,
Suva

13) Malaysia: Malaysia Productivity Corporation
Petaling Jaya, Selangor

14) Philippines: Productivity and Development Center
Development Academy of the Philippines,
Metro Manila

15) Indonesia: Directorate of Productivity Development
Directorate General of Training and
Productivity Development, Ministry of
Manpower and Transmigration R.I., Jakarta

- 6. Number of Participants:** Up to 20 from each participating country (a total of up to 300 participants)
- 7. Closing Date for Nominations:** **Phase 1: 26 May 2008**
Phase 2: 26 June 2008
Phase 3: 30 June 2008

8. Objective:

To train the participants with the concept, principles and fundamental elements of energy management including: 1) how to carry out energy audits in industries; and 2) a set of energy-efficiency (EE) measures for pumps, boilers, furnaces, cooling towers, and compressors in industries. This course will enable participants to develop preliminary energy management plans for industries to improve EE and will prepare them for receiving advance training.

9. Background:

The implementation of EE projects can directly benefit any organization by enhancing resource efficiency and productivity, thus leading to direct monetary benefits. This also results in environmental benefits such as reductions in greenhouse gas (GHG) emissions.

Corporations in the Asia-Pacific region are faced with the challenge of rising energy costs. For SMEs, energy management is emerging as a critical factor to survive intense competition. This requires a multifaceted approach that includes building corporate capacity, creating a pool of experts, and formulating governmental policies and regulations for promoting EE. To help SMEs in member countries to accomplish this, the APO has renewed its focus on EE and implemented several projects on the topic in 2007 including a workshop on EE and a web-based course on energy management followed by advance training.

Based on the feedback received and experience gained through the previous EE projects, it became evident that energy is a major cost component for organizations in all sectors of the economy. Organizations like industries, commercial establishments, large building complexes, and public utilities can accrue substantial savings in energy bills by adopting EE

techniques, systems, and technologies in their plants, processes, and facilities. Moreover, due to rapid industrialization and urbanization, the energy supply-and-demand gap is widening in member countries, leading to increased costs of production and imports of energy. The major sources of energy are still fossil fuels, mainly coal and oil, which cause emissions of GHG resulting in long-term environmental problems like global warming and climate change, which are against the principles of sustainable development. In view of this, adopting EE practices and procedures is essential.

Under the umbrella of Green Productivity (GP), a concept promoted by the APO, EE has emerged as one of the key areas to be addressed. GP and EE are two complementary avenues that, if combined, offer synergistic benefits that will lead to both environmental and economic benefits.

Recognizing the need for capacity building among industries in member countries, the APO is continuing energy management- and EE-related projects in 2008. This e-training course will cover how energy is used in installations and operations and general EE measures for industrial applications like pumps, motors, boilers, furnaces, and large buildings. The course will also introduce the energy auditing process for such applications and installations. All participants will receive free copy of manual on energy auditing compiled by the APO in 2007. Also, well performing participants will be given priority for advance training.

This course is offered using the World Bank's Global Development Learning Network (GDLN) platform. The APO and the Tokyo Development Learning Center have worked together over the last few years to organize a number of projects utilizing the GDLN. Using the same platform, various distance-learning seminars have been successfully organized for member countries with access to the necessary IT facilities. Based on past success, the same modality is proposed to train more participants from 15 member countries on EE in this three-phase course.

10. Modality of Implementation:

The project will be implemented at GDLN centers in the respective countries. The main faculty comprising two/three resource speakers will deliver presentations from India and Japan. In each phase of the course, there will be four or five country groups of 20 participants each. Each of the country groups will be moderated by a country project coordinator in each GDLN center. The presentations of resource speakers will be interactive, involving exercises and case studies while allowing participants to raise questions. Each group of participants in each country will make presentations to share their experience in implementing EE measures.

11. Scope and Methodology:

Scope

- 1) Overview of the GP concept and methodology
- 2) Understanding energy management and related issues and environmental threats of global concern;
- 3) EE in industries (pumps, motors, boilers, furnaces, cooling towers etc.);
- 4) EE in buildings; and
- 5) Energy audit methodology

Methodology

Online lectures, online discussions, online presentations of case studies, group discussions, site visit, question & answer session, local case studies, etc.

12. Participants:

- (a) Age Preferably between 30 and 50 years.
- (b) Education University degree or equivalent qualification from a recognized institute.
- (c) Present Position Energy professional, industry manager especially from SMEs, building engineer/architect, energy manager/consultant, energy auditor
- (d) Experience At least five years of experience in a related field.
- (e) Language Proficiency Proficiency in written and spoken English is essential.

Note: Participants who perform well will be given preference for attendance at subsequent multicounty energy management-related APO projects.

13. Financial Arrangements:

(a) To be borne by the APO

- (i) All deputation costs for resource speakers to prepare presentation materials and deliver presentations from India and Japan.
- (ii) Rental and other charges of the GDLN centers in Tokyo and other participating countries.
- (iii) Honorarium for a local project coordinator in each of the participating countries, and transportation costs for field visit, if necessary.

(b) To be borne by participating countries

- (i) Local implementation costs.

14. Actions by participating member countries:

Each participating country is requested to nominate up to 20 participants and submit their biodata (the first page of the APO biodata form only). Please ensure that candidates nominated meet the qualifications specified above.

Participating countries will each identify a project coordinator from within the NPO or any other relevant organization with basic knowledge of EE/energy management to coordinate and facilitate course activities at the local level. The coordinators will arrange field visits and moderate group discussions among the participants during the training course in consultation with the NPO and chief resource persons identified by the APO. The group discussions will include experience sharing, views of participants on GP and EE, and review of e-learning sessions. Field visits will be arranged to enterprises where EE-related measures have been or are being put in place. Local project coordinators will also make all necessary arrangements

with the local GDLN center.

(signed)
Shigeo Takenaka
Secretary-General

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