PROJECT NOTIFICATION

Ref. No.: 21-CP-21-GE-TRC-B-PN2100096-001

Date of Issue	02 November 2021
Project Code	21-CP-21-GE-TRC-B
Title	Training Course on Energy Audits and Management
Timing and Duration	20–24 December 2021 (five days)
Hosting Country(ies)	India
Modality	Digital Multicountry
Implementing Organization(s)	National Productivity Council, India and APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	38
Local Participants	12
Qualifications of Participants	Trainers, consultants, SME managers, industry professionals, auditors, academicians, and researchers working in energy conservation, energy efficiency and management, energy audits, and operations and maintenance of energy-consuming equipment
Nomination of Participants	All nominations must be submitted through National Productivity Organizations of member countries
Closing Date for Nominations	6 December 2021

1. Objectives

a. Understand the global energy scenario with emphasis on energy conservation for environmental protection, productivity enhancement, and enterprise profitability.

b. Learn about the operating principles of and performance assessment approaches to energy-consuming utilities.

c. Impart knowledge on best operating practices and emerging technological advances contributing to energy conservation efforts.

2. Background

According to the 2021 World Energy Balances report published by the International Energy Agency, more than 75% of the total primary energy supply is from nonrenewable sources, i.e., coal, oil, and natural gas. There has been an exponential rise in the overall consumption of energy globally due to rapid urbanization and industrialization leading to economic progress. Industry, which is the backbone of the economy, is one of the major consumers of primary energy while it adds value to raw materials and converts them into goods to meet end-user demand.

However, the use of limited fossil fuels leads to negative environmental impacts like greenhouse gas emissions and pollution, which contribute to climate change. To remain competitive and resilient in the face of fluctuating global energy costs, manufacturing enterprises need to enhance energy productivity levels by increasing the ratio of output per unit of energy consumption. This will have a cascading positive impact on profit margins and conserving limited natural resources. Enterprises can manage and reduce energy consumption through various approaches. Energy audits and management studies provide insights into gaps to be addressed in terms of operating practices and viable technological options to achieve energy savings and monetary benefits.

Recognizing the significance of energy conservation in improving the productivity of enterprises with minimal environmental impacts, the APO has implemented workshops, training courses, observational study missions, e-learning courses, and demonstration projects specifically on energy efficiency and conservation. By publishing training manuals and conducting Productivity Talks series focusing on energy, efforts are being made to provide SMEs a pathway toward robust, sustainable growth. However, continued efforts are essential in building up professionals and technocrats to guide industry, especially SMEs, in becoming energy conscious and mitigating the adverse impacts of climate change. This training course will provide practical insights to participants while bridging the gap between theoretical know-how and practical ways to address energy challenges.

3. Scope, Methodology, and Certificate of Attendance

The duration of each day's sessions will be around three hours comprising presentations by experts, group discussions, and other relevant learning methods. The indicative topics of the presentations are:

Day 1:
- The global energy scenario and consumption trends
- Meeting the UN SDGs through energy conservation

Day 2:
- Managing and conserving energy through audits
- Instruments and metering for energy efficiency studies
- Energy policy and planning at enterprise level

Day 3:
- Financial mechanisms for implementing energy-saving projects
- Problem solving and group work

Day 4:
- Performance assessment of thermal and electrical utilities
- Online tools facilitating energy management applications

- Problem solving and group work

Day 5:
- Emerging technologies to mitigate greenhouse gas emissions
- Problem solving and group work

The detailed program and list of speakers will be provided two weeks prior to the sessions with announcement of the names of the selected participants.

The participants are required to attend all sessions. This full participation is a prerequisite for receiving the APO certificate of attendance.

4. Financial Arrangements

a. The APO will meet the assignment costs of overseas resource persons and honorarium for up to two local resource persons.

b. The host country will meet the costs for a virtual site visit(s), either broadcast live or recorded as applicable.

5. Implementation Procedures

Please refer to the implementation procedures for APO digital multicountry projects circulated with this document.

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Secretary-General