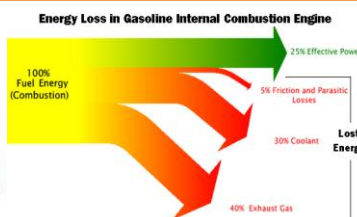


Training Workshop on Energy Efficiency & Auditing

Pakistan Hosiery Manufacturers & Exporters Association – PHMA in collaboration with Bfz gGmbH Germany and SMEDA Government of Pakistan are organizing two days training workshop on Energy Efficiency & Auditing + two days Audit/follow-up. The workshop has been designed based on the current energy crises faced by the Pakistani industries and its main objective is to equip the industrial professionals with the latest techniques and knowledge to resolve their problems so that the industry may work economically more efficient and ecologically sustainable by application & practicing of sustainable improvement techniques.



Contents of Theoretical Session (2 days)

Energy Management System

- ✓ Concept of Energy EnMS Energy Audit (EA)
- ✓ How to determine scope & use EA instrumentation and Energy information System Software (EIS)

Energy Saving Opportunities in Electrical Systems

- ✓ Cover Electrical, power generation, electrical power distribution, P.F.

- ✓ Load management, capacitors, harmonics, motors, VFD's and compressors
- ### Energy Saving Opportunities in Thermal Systems
- ✓ Steam Generation, distribution
 - ✓ Combustion Efficiency
 - ✓ Waste heat recovery boilers, Economizers, & Condensates return system.
 - ✓ Thermal distribution system

Detail of Practical Session / Audit (2 days)

Energy Audit of participant's company

Consultant will perform one day audit of thermal & electrical utilities of participant's company & give recommendations for the potential Energy saving opportunities. Briefing on EA equipment (to check Motor loading Efficiency, water testing, Air leak test, boiler testing & Power factor test) will also share with participant during audit.

Follow-up visit by ESPIRE Lead Auditor team

ESPIRE team will perform one day follow-up visit at company to check the implementation and outcome of Consultant's suggestions after 30 working days of Energy Audit. Each participating company have to prepare a report which will be reviewed in follow-up visit by ESPIRE team.

Designed For:

Electrical / Mechanical / Utility Managers and staff, Industrialists, Engineers and Energy Practitioners

Methodology:

Lectures, Case Studies / practical examples, Audit of participant's company, Evaluation and follow-up

Dates: June 19 & 20, 2013

Date for company audit will be decided with consensus of participants

Time: 0900 hrs – 1730 hrs

Venue: 37-H Block -6 PECHS, Karachi

Resource Persons:

Consultants from Green Energy Associates who have specialized expertise in conducting Energy Audits, implementing Energy Management System & EIS software will be conducting the session. The key resource persons for the session **SAJID M. LAKHAN** have about eight years experience in deploying Energy Efficiency Measures in diversified sectors companies, **SYED M. FAISAL HASHMI** has Masters in Energy Conservations from Germany with good experience in Thermal Utilities, , **NAJAF AHMED** and **ZEESHAN GULZAR** have speciality in Flue gas Analysis and Electrical / power generation respectively.

Fee: PKR 11,500/per participant will be paid in advance by cash or cheque with the name of "PHMA". Cost include training material, Lunch & tea

Certificate: After completion of successful training sessions, each participant will be entitle of "Certificate of Energy Practitioner" which will be issue to only those participants who implemented Energy Efficiency Measures at their own organizations and submit the report/results to PHMA/SMEDA/Bfz within 1.5 month after Audit.

Mr. Imtiaz Ahmed / Mr. M. Naveed

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Seats are limited

For registration, please Contact following persons

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