

Energy Manager Training for Capacity Building of Industry Professionals



Energy Manager Training Session

"The Energy Manager Training program was a unique program in which complete practical approach was adopted which has helped us to reduce external reliance for energy audits."

Masood Abbas Khan
Director, Al-Hadeed Industries.

ESPIRE is a partnership project between bfz gGmbH, Business associations, and SMEDA.

By partnering with **ESPIREenergy**, industries are leveraging their own efforts to save energy and thus reduce costs, by adopting the following three services:

- ▶ External **Energy Audit (EA)** for status quo analysis of energy consumption and recommendations for energy saving measures
- ▶ Installation of **Energy Information System (EIS)** for continuous measurement and monitoring of energy consumption and costs
- ▶ Implementation of **Energy Management System (EnMS)** in the factories for continuous control and reduction of energy consumption and costs with own staff.

▶ www.espire.com.pk

Background

Pakistan Hoisery Manufacturers and Exporters Association (PHMA) is one of the largest and oldest Business Membership organisation of Pakistan representing the largest exporting sector of Pakistan.

PHMA has four offices across Pakistan and has one in New York, USA. PHMA along with bfz gGmbH international division has established a technical support cell (TSC) to facilitate its member textile units in terms of capacity building of Human Resource through trainings and technical testing of major energy consuming equipments.

ESPIRE Intervention

In July 2013, PHMA Technical Support Cell, along with SMEDA and bfz gGmbH organized two days Energy Manager Training with the aim of internal capacity building of industries to become self-sufficient for conducting energy audits. 9 participants from 4 industries have participated in the program and has gone through extensive learning sessions on Electrical Energy Audits, Thermal Energy Audits and Energy Management System. The trainers have shared their industry experience with the participants.

Through Energy Manager Training program two companies have conducted Internal Energy Audits and 12 energy conservation measures were identified with an annual energy saving potential of more than 0.2 Million PKR.

A monitoring visit was also conducted by PHMA TSC to verify the savings and implementation status.

Achievements

Al Hadeed Industries have implemented 7 improvement measures within 2 months which resulted in annual energy savings of 0.105 Million PKR with no investment.

Another company MEB, has implemented 3 improvement measures and have saved 0.06 Million PKR without any investment.

To further improve the energy efficiency both companies have developed an Energy Policy and developed an energy team which is monitoring energy consumption and implementing energy saving measures without external support.

ENERGY SAVING MEASURES [implemented within first 6 months]	ENERGY SAVING [M-PKR/year]	INVESTMENT [M-PKR]
Lighting system improvement	0.078	0.00
Compressed Air Leakages	0.052	0.00
Insulation of Steam lines	0.02	0.01
Insulation of steam lines	0.015	0.007
TOTAL	0.165	0.017