



Dated: 05/09/2009

Subject: One Day Training program on Energy Conservation in Textile Sector

Dear Sir,

Conservation of energy is an essential step to overcome the mounting problems of the worldwide energy crisis and environmental degradation. In particular, our country stakeholders are looking to increase their awareness on energy wastages in their units. However, usually only limited information sources on the rationale use of energy are available.

In textile plants, appreciable amounts of energy could be saved or conserved at the energy supply side by appropriate steam distribution management, adjusting the air/fuel ratio in the boilers, improvement in power systems, installing cogeneration and waste heat recovery system etc.

While realizing the significance of energy saving potential in Textile Sector, SMEDA & BFZ (Berufliche Fortbildungszentren der Bayerischen Wirtschaft) GmbH Germany is going to organizing a training program on 22nd October 2009 at Marriot Hotel for industrial managers, engineers and maintenance staff who are directly responsible for energy management systems in their units. It is particularly important that they shall acquire practical knowledge of the currently available energy conservation techniques and technologies.

It is expected that this training program will be highly valuable for the stakeholders and professionals related to Textile Sector. You are invited in this event with your technical team. An earlier confirmation will enable us to finalize necessary arrangements.

Important details about the Trainings are attached here.

With best regards,

Muslim Raza Rajwani
Provincial Chief
SMEDA Sindh



SMALL & MEDIUM ENTERPRISE DEVELOPMENT AUTHORITY

REGISTRATION FORM

ONE DAY TRAINING WORKSHOP ON ENERGY CONSERVATION IN TEXTILE SECTOR

Organized By
Small And Medium Enterprise Development Authority (SMEDA)
MINISTRY OF INDUSTRIES & PRODUCTION, GOVERNMENT OF PAKISTAN

Program - Venue		Ambassador III,Marriot Hotel,22 nd October 2009
Participant Name	Mr./ Ms.	
Designation		
Company / Organization		
Postal Address		
Mobile No.		
Fax No.		
Email 1		
Email 2		
Payment Details	Pay Order No:	
	Date:	
	Amount:	



SMALL & MEDIUM ENTERPRISE DEVELOPMENT AUTHORITY

TECHNICAL WORKSHOP/TRAINING PROGRAM ON

Energy Conservation for Textile Sector

City	Date	Timing	Venue of Workshop
Karachi	22 nd October 2009	9.30 AM to 5.30 PM	Ambassador III, Marriot Hotel

2. Objective of the Workshop

Capacity building of industry people for Energy Saving.

3. Who should attend?

The workshop will be very useful for senior / middle level executives from industry and practitioners of the textile mills, who are involved in:

- Design, planning and operation of Textile mills;
- Energy management and energy auditing professionals to comply with provisions of the Energy
- Energy Audit firms and energy efficient Technology providers

A general basic knowledge of Textile mill's processes / engineering and utilities requirement is necessary to follow the lectures by experts.

4. Speaker

- 1) DUCON (Energy Management Systems)
- 2) FND (Fahim Nanji Desouza) Engineering Consultants.

5. Registration Charges:

Only 2500/= will be charged to per participant
(Lunch and two time tea will be served with cookies)
Certificate will be awarded to Participants.

5. Major Topics for Workshop technical sessions

ELECTRIC GENERATION & TRANSMISSION

1. GENERATORS

- Types of Generators
- Efficiency Calculations
- Optimization of Fuel Consumption

2. TRANSMISSION & DISTRIBUTION

- Active & reactive power
- Transformers
- HT & LT Panels
- Transmission Cable Selection
- Switch Gears
- Earthing
- Load management
 - Peak load reduction
 - Power factor improvement
 - Economic Load Dispatch
 - Energy management control systems

3. COGENERATION

- Need for Cogeneration
- Principle of Cogeneration
- Technical Options for Cogeneration
- Classification of Cogeneration Systems

STEAM GENERATION & DISTRIBUTION

4. BOILERS

- Types of Boilers (Fire Tube & Water Tube)
- Basics of combustion systems – excess air control
- Boiler efficiency improvement – blowdown management, condensate return,
- Combustion controls

5. STEAM DISTRIBUTION SYSTEM

- Steam Traps – Purpose And Testing
- Steam Leakages

6. WASTE HEAT RECOVERY

- Objectives & Design Criteria
- Types and maintenance of heat exchangers
- Recuperators; economizers

7. INSULATION

- Types of insulation
- Heat flow calculations
- Economic levels of insulation
- Passive thermal energy
- Process insulation

ADJUSTABLE SPEED DRIVES

8. MOTORS

- How motors work
- High-efficiency motors
- Examples of cost-effective motor changes
- Use of adjustable speed drives
- Improved motor belts and drives
- Adjustable speed drive alternatives:
- Eddy current clutches, permanent magnet clutches, variable frequency drives, inlet and outlet vane control, etc.
- Harmonics and other power quality issues
- Efficiency Improvement Measures
- Motor Selection

9. PUMPS

- Types of Pumps
- Optimum Selection of Pump
- Load Management of Pumping Circuit
- Efficiency improvement
- Blowers

6. For Information

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For more details about workshop contents and outline just log on to www.smeda.org.pk

7. Registration:

Please send filled in Nomination form and attached questionnaire along with workshop fee to the coordinator in cash form in favor of “**SMEDA**”.