

M/s Soorty Enterprises – Energy Efficiency is Way Of Life



Insulated steam pipes

"Energy Conservation is important as saving energy means saving money by lowering the energy bill. But energy conservation is also important from an environmental perspective. Reducing energy consumption leads to reduced greenhouse gas emissions thus helping to prevent climate change."



Mr. Sarfraz Cheema
General Manager Soorty

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

By partnering with ESPIRE energy, 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

M/s Soorty Garments Apparel is a leading garments manufacturer situated in K.A.T.I. Karachi, Pakistan, producing highest quality of fashion garments for three decades. Soorty Garments Apparel has been manufacturing for world leading brands and is adhering to international standards like ISO 9001:2008, WRAP, SA 8000, OEKO TEX 100, and GOTS.

ESPIRE Intervention

Energy efficiency has been identified as another important topic and the management of Soorty Garments Apparel decided in January 2012 to avail services offered under Espire energy.

Through Energy Audit energy conservation measures were identified with an annual energy saving potential of 4.537 Million PKR. An Energy Information Software was installed to enable the company to continuously monitor its energy consumption and costs. Energy Management System was developed to enable the company to reduce its energy consumption further without external support. For 6 months the consultant assigned by ESPIRE energy monitored and supported implementation, documented the progress and quantified the realized cost savings.

Achievements

Soorty Garments Apparel implemented 7 improvement measures within 6 months which resulted in annual energy savings of 3.345 Million PKR with an investment of only 1.138 Million PKR and a 4.08 months payback time.

To further improve the energy efficiency Soorty Garments Apparel has developed an Energy Policy and developed an energy team which is monitoring energy consumption and implementing energy conservation measures without external support.

ENERGY SAVING MEASURES [implemented within first 6 months]	ENERGY SAVING [M-PKR/year]	INVESTMENT [M-PKR]
Boiler Tuning to increase combustion Efficiency	0.33	0.06
Insulation of Condensate return and Steam Lines	0.429	0.178
Repairing of Ineffective Insulation	0.216	0.15
Repairing of Steam Leakages	0.225	0.0
Condensate Recovery	1.33	0.025
Management of Unnecessary Lights	0.39	0.0
Repairing compressed Air Leakages	0.425	0.0
TOTAL	3.345	0.413