

## M/s Asli Pari – business leader in sewing threads and energy saving



Star-delta drive installed on Ring Frame

*"We started with implementation of first energy measure right after the Energy Audit. The results were so convincing that we duplicated the measure on other machines."*

**Mr. Muhammad Irfan**  
Director, Asli Pari

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

By partnering with **ESPIREnergy**, 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](http://www.espire.com.pk)

### Background

M/s Asli Pari is a textile processing unit situated in Federeal B. Industrial Area, Karachi, Pakistan.

The company produces international standard sewing threads (cotton and polyester) for local market.

### ESPIRE Intervention

In November 2011, Mr. Muhammad Irfan, Director Asli Pari, decided to avail services offered by ESPIREnergy (see description on the left).

Through Energy Audit 15 energy conservation measures were identified with an annual energy saving potential of 3.8 Million PKR.

An Energy Information Software was installed to enable the company to continuously monitor its energy consumption and costs.

An Energy Team was formed and trained and an Energy Management System developed to enable the company to reduce its energy consumption further without external support.

For 6 months the consultant assigned by ESPIREnergy monitored and supported implementation, documented the progress and quantified the realized cost savings.

### Achievements

Asli Pari implemented 6 improvement measures within 6 months which resulted in annual energy savings of 2.75 Million PKR with an investment of only 0.58 Million PKR and a 2.5 months payback time.

To further improve the energy efficiency Asli Pari has 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]
Insulation of steam lines	0.333	0.200
Installation of star delta drives on ring spinning	0.446	0.310
Boiler Tuning to increase Combustion Efficiency	1.823	0.060
Repairing of ineffective insulation	0.044	0.0
Boiler surface insulation	0.030	0.006
Repairing of steam leakages	0.071	0.0
<b>TOTAL</b>	<b>2.747</b>	<b>0.576</b>