

## M/s Rajby Industries – Continuous Improvement Assures Success



Steam Flow Meter Installed

*"The initiative is very useful and at perfect time due to prevalent energy crisis and rise in energy cost. Their consultants are professional and focused that has helped in successful implementation at our Unit."*

**Mr. Atiq A. Kochra**  
General Manager, Rajby 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](http://www.espire.com.pk)

### Background

Established in 1989, Rajby Industries is a vertically integrated garment manufacturing organization. Rajby Industries has been a pioneer and market leader in manufacturing of woven bottoms with specialty now in Denim Jeans and Casual Bottoms, which are principally exported to some of the top and distinguished garment houses in North America and Europe. In an effort to strive for higher level of energy efficiency and cost control, Rajby Industries, General manager, Mr. Atiq Kochra, contacted bfz to take benefit from Espire energy.

### ESPIRE Intervention

Through Energy Audit 26 energy conservation measures were identified with an annual energy saving potential of 10.393 Million PKR. 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 ESPIREnergy monitored and supported implementation, documented the progress and quantified the realized cost savings.

### Achievements

Rajby Industries implemented 16 improvement measures within 6 months which resulted in annual energy savings of 3.903 Million PKR with an investment of only 0.755 Million PKR and a 2.32 months payback time.

To further improve the energy efficiency Rajby Industries 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<br>[implemented within first 6 months] | ENERGY SAVING<br>[M-PKR/year] | INVESTMENT<br>[M-PKR] |
|---|-------------------------------|-----------------------|
| Boiler Tuning to increase combustion Efficiency               | 1.160                         | 0.06                  |
| Fixing Steam Leakages   | 0.843                         | 0.00                  |
| Insulating Valves   | 0.671                         | 0.428                 |
| Managing Lights & Using Efficient Lights                      | 0.368                         | 0.109                 |
| Repairing compressed Air Leakages                             | 0.273                         | 0.0                   |
| Insulating Steam Lines  | 0.195                         | 0.065                 |
| Insulating Condensate Lines                                   | 0.194                         | 0.086                 |
| Fixing Steam Traps  | 0.172                         | 0.0                   |
| <b>TOTAL</b>  | <b>3.876</b>                  | <b>0.748</b>          |