**Project Summary**

**Project Background**
ORTA Anadolu textile company in Bahrain intends to identify opportunities for energy saving measures that can both help increase company profitability and reduce emissions of carbon dioxide. Turkish Company ORTA Anadolu Textile Bahrain Company started manufacturing of denim fabric operations in Bahrain in 2010. The site is preparing for expansion and will make some major changes to the production facilities.

**Project Objectives**
The aim of the work was to identify the utilities savings opportunities at Sitra Denim, Bahrain. Summary information at the facility and utilities have been provided, and based on this, a detailed energy audit was implemented with a short walk-through audit and a detailed audit.

**Project Results**
Following the management meeting and presentation of results of the walk-through the auditor undertook a detailed audit with focus on the prioritised savings opportunities. Energy savings opportunities were separated into two different groups, those that can be classed as low to medium cost opportunities and are fairly simple to implement, and those that need significant investment and require a good deal of external assistance to implement.

Compressed air and air conditioning are a major cost in energy to ORTA but some very simple low cost measures will help to make significant savings. Also included in the low cost initiatives are lighting, steam system improvements and better electric motor management.

Fuel costs will increase significantly in 2016 and as a result the savings identified will provide approximately 55% savings on the fuel bill with a very large proportion of this as a result of the implementation of CHP.

It was recommended to appoint an Energy Champion to undertake new energy management work in order to ensure that focus is maintained and savings measures are undertaken quickly.

**Services Provided**
- Preparation of a factory questionnaire
- Implementation of a walk-through audit and a detailed energy audit
- Delivery of a full pledged energy audit report
- Preparation of an action plan including low/medium and high cost saving opportunities
- Proposal for an implementation plan