

25% energy savings delivered through real time monitoring and optimised compressor operations!

Background

India's largest linen producer embarked on a comprehensive sustainability drive to save energy in all their operating plants. As a part of this process, they are implementing a program across their production infrastructure equipment such as boilers, chillers, compressors, etc. to simultaneously improve uptime and reduce wastage.

Business Requirements

The company wants to:

- Develop and standardise processes for energy measurement, tracking, and reduction as a part of their organisational goals
- Digitise reports as far as possible to minimise time spent and errors inherent in manual reporting
- Identify opportunities for savings in their boilers, compressors and other production infrastructure and reduce costs without impacting the quality or quantity of outputs

Solution

The company partnered with EcoAxis to implement axisCONSERVE 4.0 on their boiler, 14 compressors and also build an energy management system (covering 225 energy meters) at one of their plants in India.

axisCONSERVE 4.0, a product built on Industry 4.0 technologies, monitors critical operating parameters of industrial utility equipment in near real time to deliver deep actionable insights to optimise operating costs and increase equipment life.

Benefits

- Post deployment of axisCONSERVE 4.0, the company was able to view reports and analytics digitally which eliminated manual effort and provided role specific reports and analytics based on the same data
- The loading and unloading patterns of one compressor indicated that it was underutilised. Optimising the operations of this compressor resulted in **savings of approximately 300 kWh/day** without starving any of the production processes of compressed air
- Correlating the compressed air needs of the production load with settings of various operating parameters over a period of several days helped identify opportunities to optimise the settings further
 - A set of recommendations by the EcoAxis team that focused on optimal operations based on insights derived from axisCONSERVE 4.0 led to additional **savings of almost 880 kWh/day**
- **Energy consumption on 2 compressors was 4599 kWh/day. Insights from axisCONSERVE 4.0 helped save 1180 kWh/day. That's a cool 25% savings without any investment!**

The ability to understand operating patterns and deviations enabled the customer to take quick action based on the insights provided by axisCONSERVE 4.0. **EcoAxis helped the customer consume less while producing more.**