

One of the largest integrated coffee cultivation and processing companies identified opportunities to reduce energy and utilities consumption by ~INR 2.5 Crore /annum

INDUSTRY	REGION
FOOD AND BEVERAGE	APAC- INDIA
INSTANT COFFEE PLANT	18000 MT/Annum

CHALLENGE

- High consumption of Electricity and Boiler Fuel in Energy spend (Electricity – 37% and Boiler – 46%)
- Manual measurement and reaction approach to events
- Focus on reducing energy consumption across the process value stream

APPROACH

Bosch Software and Digital associates adopted a three phased approach comprising of

- solution design & benchmarks
- hardware installation & field wiring
- technology deployment
- and change management & benefits to deliver tangible saving across energy and utilities circuits.

Bosch deployed its DEEPSIGHTS platform integrating the existing steam meter data Boiler, SCADA and Ammonia SCADA (via BACnet and ModBus protocol),and installing additional sensor for data acquisition.

SOLUTION AND OUTCOME

Solution design established 7 focus areas and use case implementation with targeted saving :

1. Energy optimization by monitoring idle losses 16 – 24 Lakhs INR
2. Utilities monitoring for key metrics – Coal, Steam, Energy, HSD,LPG and Water
3. Coal optimization in boilers 85 – 135 Lakhs INR
4. Steam optimization 51 – 88 Lakhs INR
5. HSD (Diesel) optimization
6. Performance monitoring of ARP plant 0.8 – 1.2 Lakhs INR
7. Machine productivity improvement – nonproductive usage pattern analysis

Bosch used is experience in energy management, proven IT-OT digitization expertise and DEEPSIGHTS platform **to identify 2.0 CR to 2.5 CR INR per annum.**