

CASE STUDY

A Tyre Manufacturer in Western India



Problem

The plant had a higher specific energy consumption against industry benchmark which meant higher fuel consumption and higher operating costs.

Objective

- To improve specific fuel consumption
- To select the proper traps for processes
- To put in place a proper monitoring and correction system for steam leaks

Solution

- Upgradation of the condensate and flash recovery system with steam operated pumping trap and flash vessel
- Replacement of TD traps with float traps on platten / dome presses for optimum steam consumption and reduced batch time
- Installation of pressure reducing station on HP steam line
- Proper insulation of steam and condensate line to reduce steam losses
- Optimising monitoring and correction system for steam leaks.
- Replacement of leaky lines with new lines
- Implementation of ash reburning system to improve specific fuel consumption

Benefits

Reduction of specific fuel consumption from 284 kg pet coke / MT of tyre to 254 kg pet coke / MT of tyre production resulting in savings of 2040 kgs / day of pet coke