

**SHRINIWAS ENGINEERING AUTO COMPONENTS
PRIVATE LIMITED
Navlakh Umbre, Pune (Maharashtra)**

Unit Profile

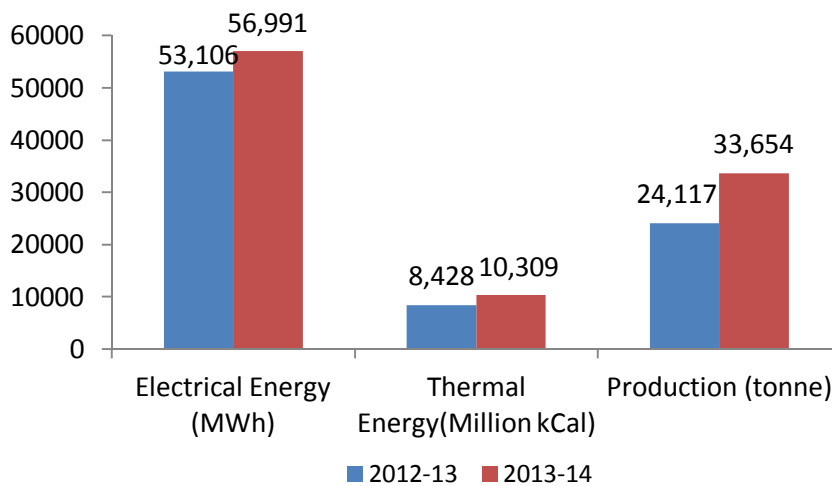
SEACO group was founded in 1986. Machining Units are set up in Bhosari, Talawde, Maval, Uttarakhand & Talegaon. Talegaon, Pune Unit is High Pressure Molding Line foundry established in 2008. The Unit is having two Kunkel Wagner High Pressure Molding Lines with a molding capacity of 120,000 tons per annum (10,000 tons per month).

Energy Consumption

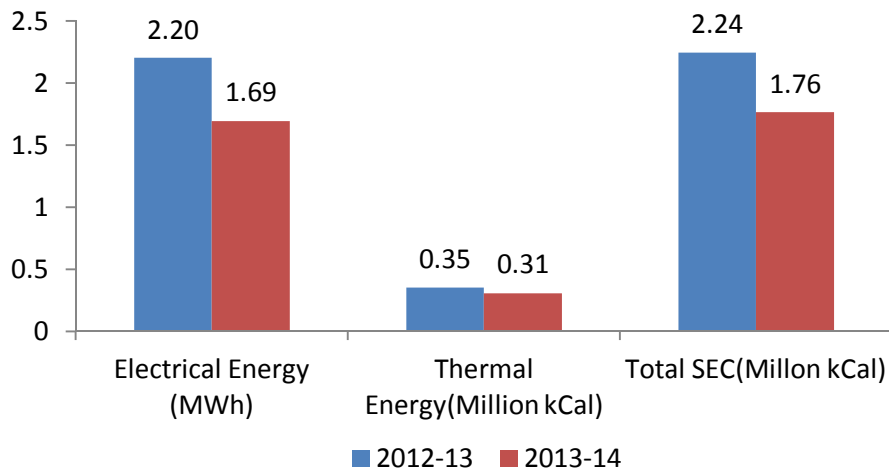
The following bar charts depict

- Total Energy Consumption and Production Trend in 2012-13 and 2013-14
- Specific Energy Consumption drop in year 2013-14 in comparison to 2012-13

Total Energy Consumption and Production Trend



Specific Energy Consumption Trend



Energy Conservation Measures Taken

SEACO strengthened its commitment towards saving energy in year 2013-14 with following actions –

1. Approved and implemented 6 energy conservation projects
2. Approved online Energy Monitoring System which will give much more actionable data to the team to save energy. Online EMS is getting implemented in 2014-15
3. Appointed an Energy Management Consultant to conduct energy audits, energy conservation projects, create the energy conservation culture across the organization.

Following Projects were implemented during the year 2013-14

Project 1 – Molding Line Cycle Time Reduction

The Productivity of molding section was improved from 40 boxes/hour to 60 boxes/hour by increasing automation and other changes. The changes resulted in energy saving of 51.96 Lakh kWh per year.

Project 2 – Yield Improvement

1% Yield improvement was made by reducing the unnecessary parts of the casting. This resulted in energy savings of 24.43 Lakh kWh per year. Details are given the annexure document.

Project 3 – Casting Rejection Rate Reduction

Casting rejection was dropped from 9.86% from 5.21% through training of floor staff and rigorous process implementation. This has result into energy savings of 34.74 Lakh kWh.

Project 4 - Heat Loss and Superheating Reduction

The travel distance from tapping to pouring was reduced which resulted in to the following

- Superheating was reduced by 82 degree Celsius.
- Heat losses were reduced by reducing the travel time from tapping to pouring
- Reheating requirements of liquid metal also reduced by almost 50%
- This project resulted in energy saving of 5.95 Lakhs per year

Project 5 - Plant utilization improvement

Plant utilization was improved by 16.63% which resulted into energy saving of 54 Lakh kWh per year. The reason for utilization improvement was higher order flow.