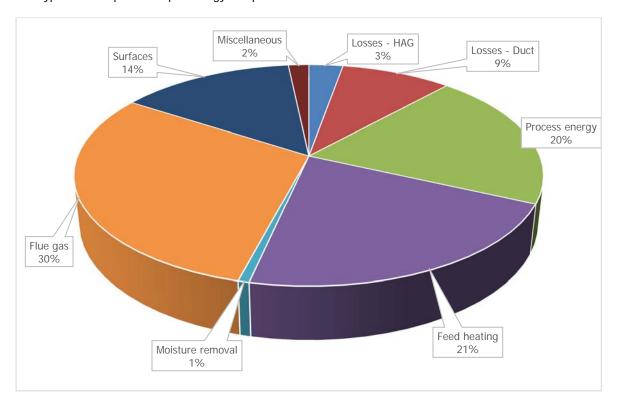
Case Study: Heat & Mass Balance Study: Calciner

SENERGY Consultants (P) Ltd

Background:

While conducting energy audit for the ceramic industry; the heat & mass balance study was carried out for a claciner. The typical breakup of the input energy is represented as under.



Scenario:

The system comprised of furnace oil fired hot air generator, supplying heat to the calciner, operating at 950 °C.

- The heat loss from the connecting duct was observed to be very high
- The heat losses through the exhaust were observed to be higher than design value.

Improvement Measures:

The above concerns and issues were addressed by taking the following measures.

- Redesigning the connecting duct
- Installing additional heat recovery system to preheat the combustion air.

Outcome:

• The overall furnace oil consumption reduced by 15%.

SCPL-CS-23

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