

Energy analysis of aluminum coil kiln**Type of work**

Energy analysis of kiln process for thermal treatment of aluminum coils.

Concept description

The kilns consist of 6 sections with a total capacity of 8 aluminum rolls of 6 ton each. The thermal treatment process is a step towards obtaining the required product quality. The heating/cooling procedures, regulation of the process and energy consumption/losses were analyzed.

Client

Hydro Aluminium Rolled Products AS, Holmestrand, Norway.
 Project cost: 0.1 MNOK
 Project duration: Started in March and finished in April 2008.

Nebb Engineering delivery

- Analysis of batch cycles
- Energy consumption/loss analysis
- Recommended actions
- Energy analysis report
- Alternatives for cycle procedure
- Alternative heat sources

The project was an initial analysis, where a deeper, more thorough analysis of the different kilns would be a natural next step.