

## Thesis

### Project 1: Energy & Resource Optimization of the production unit

Company: Cascades Djupafors AB



#### Extent

Master or bachelor level, suitable for one or two students working together.

#### Field of study

Mechanical or Chemical Engineer with specialization in polymeric materials, wood/paper, process development and energy/energy efficiency.

#### Planned start and duration

Spring and summer 2013.

#### Task

##### *Description*

Cascades is a Canadian group of companies specializing in the manufacture and conversion of pulp and paper products. The group consists of approx. 120 companies in North America and Europe. Cascades Djupafors AB are included in the division for manufacturing of cardboard for packaging both dry and liquid food.

Cascades Djupafors AB has approx. 150 employees in Kallinge and produce approx. 60 000 tons of cardboard for the European market. The company has a strong environmental profile and an explicit goal to combine environmental responsibility with economic efficiency and sustainability that meets both the shareholders, customers and employees' expectations.

##### *Background*

Production of cardboard and paper is very energy-intensive processes, which also means that a big part of the energy produced is released into the atmosphere as waste heat in various forms.

Cascades Djupafors now want to start up a thesis to investigate the possibility to cost-effectively recycle more of this energy. The assignment should therefore be to consider

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the possibility of using existing and/or new heat recovery system, which in combination with the optimization of existing processes may enable an improved recovery of energy/heat.

In addition, it may also be interesting to investigate whether these changes also may include a reduction in consumption of water and other resources.

The assignment should also include the theoretical and practical review of existing processes needs and limits, in order to find optimization opportunities that contribute to improved energy and resource recovery.

It is also desirable that the assignment results in an activity- & task list that shows expenditure, resource requirements and estimated time required for the various proposals.

## Location

Kallinge. The work is possible to perform partly at distance.

## Language

The thesis should preferably be in English.

## Expenses

Expenses might be reimbursed after agreement.

## Please contact

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## Application

Register your interest by sending your CV, cover letter, course list and references to the contact person at Cefur: [martina.lindgren@ronneby.se](mailto:martina.lindgren@ronneby.se)  
Application and selection is ongoing.