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04 | FEASIBILITY STUDY FOR EFFICIENCY IMPROVEMENT OF AN INDUSTRIAL POWER PLANT



Type of project / service: Feasibility Study

Client: Kartonfabrik Buchmann GmbH

Location: Annweiler, Germany

Project scope: 8 man-months

Project description:

The pulp and paper industry is one of the most resource intensive basic industries. Energy in the form of steam and electricity has to be provided as efficiently and cost-effectively as possible. REINSTEIN was tasked with the preparation of a feasibility study to identify potential areas of energy efficiency improvement in the pulp and paper mill's own power plant.

First, the project goals were determined in a customer workshop. In interviews with employees and by analysing the documentation available, the weak points of the facility could be identified. In addition, REINSTEIN collected its own measuring data.

Afterwards, the enhancement proposals resulting from the analyses and inspections were firmed up. Over a prolonged period of time, a multitude of production conditions

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and plant operation modes including specific incidences could be reviewed. The technical specifications for various scenarios were developed, and budget quotations for the individual work packages obtained and reviewed.

Project result:

The study proves that the mill's own electricity production can be further enhanced. Moreover, the thermal losses, which are already low, can be further reduced. In addition, the study shows that the necessary investments will already amortise themselves within three to five years. REINSTEIN's study enabled the customer to assess the profitability of his investments in great detail.