

The Arjo Wiggins Bessé-sur-Braye Mill is one of the leading mill in environmental management.

CASE STUDY

PAPER MILL BENEFITS FROM INCREASED ENERGY EFFICIENCY OVER 12% VIA InTo TOOL

“The comprehensive understanding of the complexity and the factors that impact on our energy efficiency is very critical. After the pilot project we know the well-defined items for the further energy efficient improvement.” Mill Technical Director.

The main target of the pilot project was to improve the current measurement system on energy efficiency even further in two paper machines. The key objectives of the pilot project were:

- ✎ Define the key areas in the energy efficiency for the further development actions to increase productivity.
- ✎ Prioritization of the most promising development areas in energy savings and energy efficiency.
- ✎ To identify the cost effective solutions and/or mitigation actions for the further development in the energy efficiency.

CHALLENGE

The site professionals indicated that the unexpected variances in the energy efficiency measurements. In addition, it was assumed that the current measurement system is not fully optimized to provide the accurate information for the site management.

SOLUTION

- ✎ 26 individual development ideas were identified during the analysis that based on the site interviews.
- ✎ After Robust Portfolio Modeling and comprehensive data analysis TOP 5 was identified (i.e. the most beneficial ideas for energy efficiency development based on the decision-making criteria and evaluation).
- ✎ Improvement plan that indicates the key activities to further improve the total energy efficient.

BENEFITS

Several benefits were realized during the pilot project and the after the project. The results of the pilot show improvement in productivity and competitive advantage. The realization of the identified benefits is based on the better and faster information flows and action in the whole production chain.

In addition, more optimized daily production via modern automation solutions help the site management to maintain and further develop the production and product uniform in the future. InTo tool also enabled to 43 cross-functional team members from the site to share their wide experiences and remarkable know-how on the further production process development. This forum of these professionals is also playing a key role in order to fully realize the benefits in the focus areas.