

Media Release

Voith Paper

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Paper manufacturers increase energy efficiency through customized audits and process analysis from Voith

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- Energy audits performed by Voith Paper have achieved significant energy savings in areas such steam and condensate, air handling and vacuum systems
- Papermakers can choose from a variety of energy audits, including desktop audits, on-site overview audits and detailed on-site audits
- Customers are reporting a 10 to 20 percent savings on their total energy costs

HEIDENHEIM. Voith Paper is helping paper manufacturers significantly increase their energy efficiency. Using customized auditing and process analysis methods, the leading full-line supplier offers innovative solutions to improve processes and increase efficiency. This allows paper manufacturers to understand the big picture of their energy consumption and find clear ways to reduce it.

"An on-site overview audit provides the customer with an up-to-date overview of the main energy saving measures and opportunities," says Eduardo Fernandes, Process Engineer Sustainability Audits at Voith Paper. "Using specially developed toolboxes and checklists covering 20 key areas, the energy savings are assessed, including a project list and an estimate of the investment budget and payback period. The results provide a valuable baseline and work list for the future. Typically, energy savings are in the range of 10 to 20 percent of current total energy costs. Especially in light of rising energy costs and sustainability requirements, an energy audit is a good choice."

Voith offers a range of services, including desktop audits, on-site overview audits and detailed on-site audits:

- **Desktop audits** use customer information such as equipment data and trends to provide an effective overview of energy consumption and identify ways to reduce it. The paper manufacturer receives a report with analysis, industry benchmarking, best available technologies and possible optimization projects. For example, with a successful energy audit for an Asian paper mill, Voith experts identified 34 projects that saved 20 percent in energy costs and reduced the carbon footprint by 35.7 percent.
- The **on-site overview audit** is designed to provide a comprehensive overview of energy consumption and a detailed analysis. This service solution includes, for example, collecting details from on-site systems, reviewing documents and assessing leakages and bottlenecks. A successful overview audit in Germany resulted in a reduction of more than 30 percent in gas consumption and savings of almost 18 percent in electrical energy. To achieve this, 28 individual projects were successfully implemented.
- A **detailed on-site audit** includes the collection of details from specific systems such as vacuum, steam, condensate and air treatment. With the help of special on-site measurement tools, a realistic operating scenario and a detailed study of the specific system are created. The report includes a calculation design as well as innovative ideas for process improvement and increased energy efficiency. Voith also offers support in the implementation of the projects. For example, thanks to a detailed audit at a paper mill, potential improvements in the vacuum system were identified. By making simple adjustments and without capital expenditure, energy savings of 21 percent were subsequently achieved.

Papermaking for Life sustainability program

As part of the "Papermaking for Life" innovation and development offensive, Voith Paper is presenting versatile technologies and initiatives that lead to more efficient and sustainable processes in papermaking. The focus is on water, energy and fiber savings as well as digitalization, innovations and partnerships as levers for more sustainable production. Another focus is on Voith's own activities at its locations worldwide. Learn more about Voith Paper's innovations in the area of sustainability: voith.com/papermaking-for-life/energy.

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About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 20,000 employees, sales of € 4.3 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

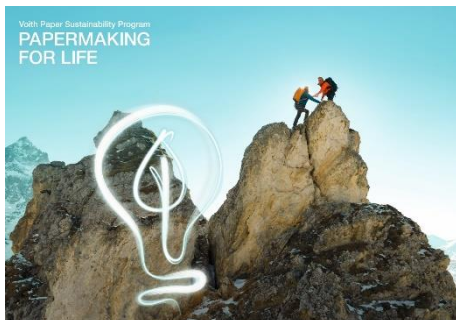
The Group Division Voith Paper is part of the Voith Group. As the full-line supplier to the paper industry, it provides the largest range of technologies, services and products on the market and offers paper manufacturers holistic solutions from a single source. The company's continuous stream of innovations facilitates resource-conserving production and helps customers minimize their carbon footprint. With its leading automation products and digitalization solutions from the Papermaking 4.0 portfolio, Voith offers its customers state-of-the-art digital technologies to improve plant availability and efficiency for all sections of the production process.

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