

Success Story Carl Eichhorn

Automated energy and resource management at Carl Eichhorn via digital platform openpack

With openpack, Carl Eichhorn now keeps track of the energy consumption of its machines at a central location.



The Carl Eichhorn company collects its energy data in an automated way through post-networking: energy measurement data is captured via IIoT boxes and transmitted to the digital platform openpack. This gives the company control over its current energy and resource consumption at a glance, identifies potential savings and can respond more quickly to deviations.

The initial situation

The well-known family-owned company got into conversation with the team behind openpack. They discovered that there was a need for a simple solution for the energy and resource management of the machines. After all, providing evidence for certifications such as ISO 50001 is a time-consuming process: In practice, the data collection and evaluation for this is extremely cumbersome. The corrugated board manufacturer wanted a solution that would make it easier to break down the energy consumption of the machines and identify potential savings in the future.

"Massive" significance of digitalization

The openpack team recommended digital data capturing with the openpack platform. With this, openpack was preaching to the choir at Carl Eichhorn. Because the company estimates the impact of ongoing digitalization on its business as "massive." "In order to be able to offer a mass product like corrugated board efficiently and cost-effectively, all areas of corrugated board production must be more automated than ever before," says Managing Director Martin Keirath. For the corrugated

Company

Carl Eichhorn KG Wellpappenwerke

Number of employees

approx. 280

Locations

Jülich-Kirchberg and Niederbrechen near Limburg an der Lahn

Homepage

www.carl-eichhorn.de

Mission

Automated energy and resource monitoring

board manufacturer, though, the focus is not only on machines. For Carl Eichhorn, it is in particular the fast and complete provision of all data available in the plants that makes a difference.

Operationally, the company thinks it is already pretty far along in terms of digitization, regularly testing new technologies and automating its processes. "We want to play an active role in shaping the digitization of our industry and provide feedback on what is needed at all on a plant-specific basis," says Keirath. He sees great need in technical maintenance and the interaction of systems. He expects to witness trend-setting, digital simplifications for the corrugated board industry in the next five years.

Martin Keirath about the reasons why the company chose openpack: "We were convinced by the open platform and the highly committed team behind openpack. The combination of openpack and the systems connected to it makes for a well-rounded overall package for more speed."



"The quickness of the implementation of the measures was impressive. I generally experienced the team behind openpack as fast, solution-oriented and powerful."

Martin Keirath
Managing Director Carl
Eichhorn KG Wellpappenwerke



Administration building Carl Eichhorn KG (Photo: Carl Eichhorn KG)

Energy monitoring professionalized

The task was to capture energy data such as voltage and current curves, active power and much more in as uncomplicated a way as possible and forward it to openpack.

The data converge in the platform. In the long term, the intention is to build up a database that will enable anomalies and deviations to be detected at an early stage. The suggestion was to start by retrofitting the FFG 8.20 inline machine. Together, a concept was developed for the planned post-crosslinking.

Post-crosslinking from Carl Eichhorn

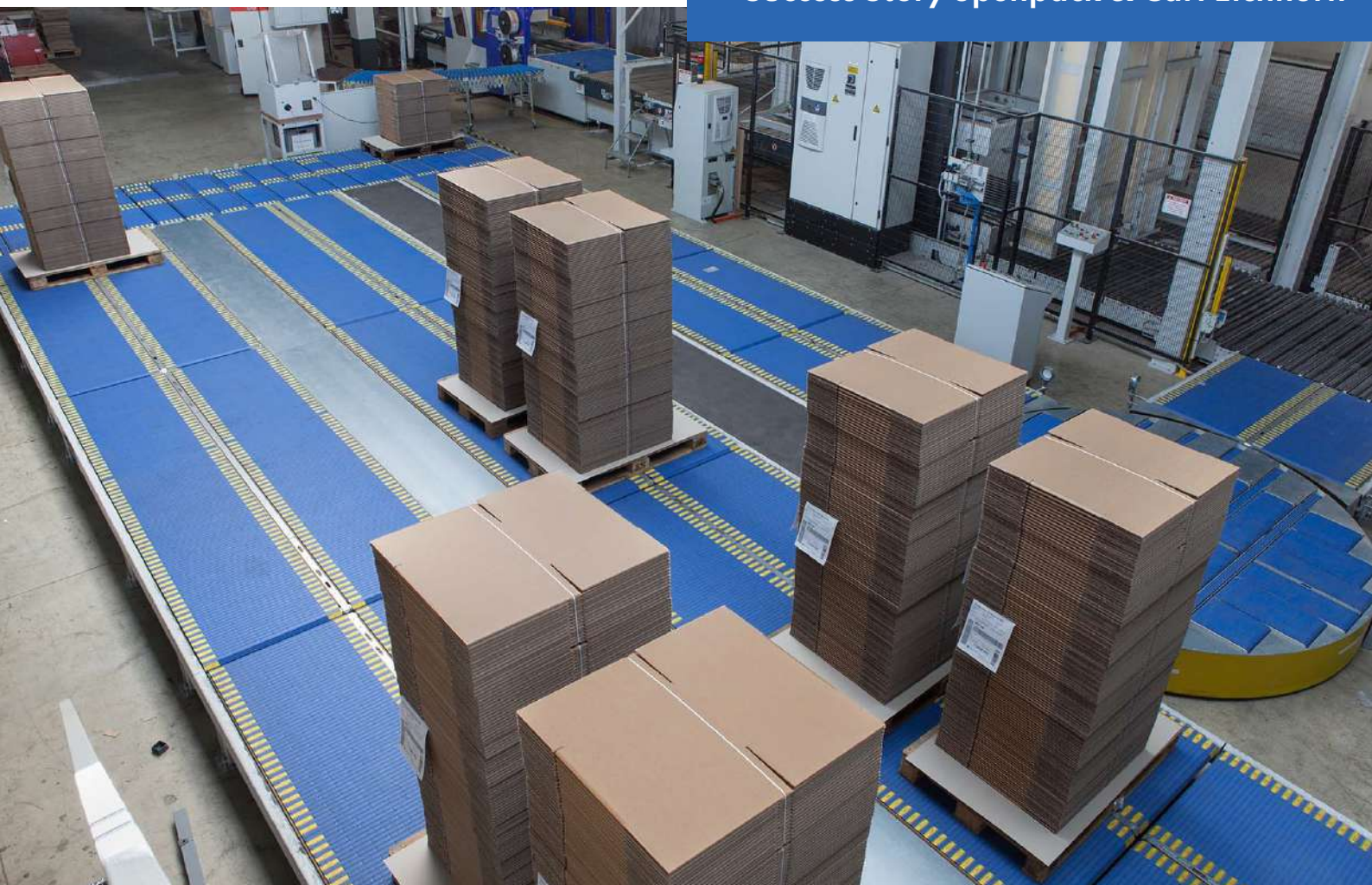
openpack brought a reliable partner on board: mCloud Systems. The company specializes in sensor communication and IoT scenarios with

robust communication connections and simple integration options. Together, they started working on the project. The keyword was retrofitting - modernizing and updating existing plants and machines.

The ready to use IIoT boxes and the current measuring clamps for recording were mounted on the machine within a short time and with little installation effort. The boxes can be mounted flexibly to the machines and transmit the measured data wirelessly to openpack. The measurement is galvanically isolated, which does not interfere with the machine and avoids the risk of downtime due to the measurement equipment.

Improved efficiency & energy costs in view

The data from the FFG 8.20 machine is now automatically



transferred to the connected openpack platform. The result for Carl Eichhorn: greater efficiency and an accurate overview of energy requirements and costs. It is now possible to see at a glance where potential savings lie dormant - previously unthinkable.

Managing Director Martin Keirath is satisfied: "What I like about the platform is its simple structure, which is easy for any user to handle. And we can quickly access operating instructions, machine data, production information, or machine repair times, for example."

The solution was also implemented quickly. "The quickness of the implementation of the measures was impressive." The way is open for further joint projects in the future, with openpack and Carl Eichhorn acting as sparing partners. "I have experienced the team behind openpack as fast, solution-oriented and powerful. We will continue to inspire each other," says Keirath.

"In our ongoing use of the platform, we will identify what else we need and certainly develop many more exciting ideas with the team."

Do you also want to quickly take advantage of the opportunities of digitalization and increase the productivity of your factory?

We look forward to hearing from you via e-mail at info@openpack.net or by phone on + 49 151 44028-884.



 SCAN ME