



ACelli

DIGITAL SOLUTIONS FOR ENERGY MONITORING



Berry Global Group Inc., headquartered in Evansville, Indiana, is a Fortune 500 company and a leading global supplier of a broad range of innovative rigid, flexible and nonwoven products used every day within consumer and industrial end markets. Berry Global partners with its customers to provide them value-added protective solutions that are increasingly light-weighted and easier to recycle or reuse. The company serves a wide range of markets, including the beverage, construction, filtration, food, healthcare, household and hygiene sectors.

- N° of employees: 47.000+
- N° of structures: 290+ across the globe
- Industrial sector: Packaging & protection solutions

1 THE CHALLENGE

In recent years, the Italian branch of the Berry Group has come into contact with Extreme Automation due to its need to develop an energy monitoring system that was robust and versatile at the same time. Added to this was the need to monitor production processes and compare them with energy data in order to expand the range of possible analysis and to use a reporting system that facilitates sharing.

2 THE SOLUTION

The solution developed by Extreme Automation is based on the “Energy” module of the OMNIA DP cloud platform. The use of existing applications adaptable to the specific problem have made it possible to create a reliable and highly customized solution capable of providing all the information the customer needs with an attractive and intuitive graphic interface.

The IoT platform has been structured in such a way as to retrieve data from existing sensors, thus managing to be flexible and open without further cost increases on the part of the customer.

All the machines in the plant were also digitized, both the A.Celli branded ones and those manufactured by other suppliers, with different levels of automation. This process has allowed a complete data collection able to guarantee a real-time analysis of the yield of the plants and production data, which are shared through the sending of automatic reports.

Finally, the interfacing of OMNIA DP with the company ERP enabled a complete correlation between management and industrial data, allowing a clearer and more immediate usability of the inputs coming from production.



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ENERGY & PROCESS
MONITORING



3 THE RESULTS

Thanks to the solution developed, it was possible to monitor in real time all the critical points of the systems in order to optimize consumption where possible without having to wait for the supplier's final reports.

The diagnostics and timely detection of anomalies, such as leaks in the compressed air circuit, made it possible to make the necessary corrections with significant benefits. In general, an energy diagnostic system distributed in this way allowed Berry to rationalize consumption by limiting it to what is strictly necessary and to quickly highlight anomalies by setting alarms via email to be sent to department managers and Energy Manager.

The possibility of receiving production data from the existing lines and specific product parameters from the management system has made it possible to correlate consumption with industrial specificities. In this way, the specialized team can carry out the necessary analysis with consequent optimization of the production processes from an energy point of view.

All this was also possible thanks to a really clear and tailor-made interface, which allowed easy interpretation of the huge amount of industrial data greatly simplifying daily work.

4 THE CUSTOMER'S STATEMENT

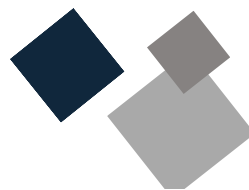
“ The technological solution is allowing us to quickly identify and correctly prioritize the implementation of energy saving initiatives, in many cases with minimal costs ”



Vincenzo Barriciello
Terno d'Isola, Berry Global
Plant Sr. Director



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