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JOSKIN entrusts John Cockerill with the implementation of an energy system for the production, storage and consumption of green electricity

In 2023, John Cockerill will equip the JOSKIN facilities with an integrated energy system comprising photovoltaic panels, storage batteries, electric vehicle charging stations, as well as the management and intelligent control of the whole system. This innovative energy system will enable JOSKIN to reduce its energy bill and maximize its self-consumption of renewable energy.

JOSKIN, with more than 50 years of experience and more than 120,000 machines sold throughout the world, puts its resources at the service of farmers by proposing products that are increasingly adapted to their needs and to the evolution of the agricultural world. To achieve this mission, JOSKIN constantly invests in each stage of the design and production of their machines and in the development of their production tools. In this respect, JOSKIN has entrusted John Cockerill with the design and supply of an innovative energy system which will be in operation by the beginning of 2024 at their historic site in the Liège region.

John Cockerill, a specialist in integrated solutions for renewable energy, will carry out this project, which includes the design, delivery and installation of photovoltaic panels, stationary storage batteries, charging stations for electric vehicles, as well as the management and control of all the equipment by the EMS (Energy Management System), developed by its engineers.

This energy system will enable JOSKIN to maximize the self-consumption of its own electricity production and to participate in network services for ELIA, i.e. to provide stability and balance to the electricity network according to supply and demand. Finally, the electricity produced by the Soumagne-based company can be redistributed to the grid in case of surplus production.

A player in decarbonization for many years, John Cockerill built Europe's largest industrial pilot for electricity production and storage, MiRiS, on its industrial site in Seraing in 2018. This is an energy system similar to the one that will be installed at JOSKIN. This installation, composed of 6500 photovoltaic panels with a power of 2 MWp and a storage capacity of more than 2.5 MW / 5.5 MWh, includes several storage technologies (Lithium-ion, sodium-sulfur, and flow batteries). This installation has been operational for 5 years and covers 80% of the energy needs of John Cockerill's Belgian headquarters in Seraing and can be connected to the medium-voltage grid for injection and withdrawal.

These green energy production, storage and recovery solutions developed by John Cockerill allow to combine the various use cases required by the operation of an industrial site, to erase the intermittence of production linked to renewable energies, to increase revenues by adding services to the network and finally to reduce the energy bill by decarbonizing activities.

Didier Joskin, Managing Director of Ets JOSKIN: *"At a time when energy management is a real economic and social issue, we have sought to better control this problem. Although expanding our photovoltaic park was an obvious choice, we wanted to go further in this process. John Cockerill then proposed a real solution for storing and managing our green electricity. These installations will be a real added value for JOSKIN: they will not only allow us to increase our energy self-sufficiency*

but also help the grid operator to meet the present and future challenges of increasing renewable energy production. The MiRiS pilot site has been a real asset in convincing us of the maturity of such a project. We are looking forward to putting the first three Joskin Eco Power Stations into operation as soon as possible and to further contribute to the necessary energy transition."

Dieter Hasevoets, Senior Vice-President of John Cockerill Integrated Renewable Solutions: *"This new order is in line with John Cockerill's mission to facilitate access to renewable energy and thus contribute to meeting the challenges of global warming. It is also a great opportunity for the Liège region, allowing two historic companies to join forces and work together for a low-carbon future. This project will allow Establishments JOSKIN to reduce their energy bill, while maximizing the self-consumption of renewable energy and generating additional revenue through grid services."*

The project in figures

- 4200 photovoltaic panels
- 12 electric charging stations of 22 kW and 1 station of 120 kW
- 3 container batteries (capacity: 1.8 MW)
- Production of 1.8 MWp
- Storage of 5.5 MWh of energy at full load

John Cockerill, enabler of opportunities

Driven since 1817 by the entrepreneurial spirit and passion for innovation of its founder, the John Cockerill Group develops large-scale technological solutions to meet the needs of its time: preserving natural resources, contributing to greener mobility, producing responsibly, enhancing security and facilitating access to renewable energy.

Its offer to businesses, governments and communities consists of services and associated equipment for the sectors of energy, defence, industry, the environment, transports, and infrastructures.

With over 6000 employees, John Cockerill achieved a turnover of € 947.4 million in 2021 in 23 countries, on 5 continents.

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