

21st September 2021

First electric recharge for a Renewi waste collection truck at John Cockerill

On 21st September 2021 in Seraing, John Cockerill demonstrated the recharging of a RENEWI electric truck via MiRIS, its green energy storage and management station. This first is a new milestone for both partners, John Cockerill and RENEWI, in favor of the development of green mobility in Wallonia. The operation took place in the presence of Gilles Foret, Liège's alderman for Ecological Transition, Mobility, Cleanliness and the Digital Economy.

The partnership between RENEWI and John Cockerill aims to reduce the CO2 emissions of the RENEWI fleet. It started in 2020 with a test phase with a first 100% electric truck, followed by a second series of tests with 100% electric vehicles of different tonnages to be recharged from MiRIS, the photovoltaic energy production and storage platform set up by John Cockerill in Seraing. Today's demonstration is an important milestone towards RENEWI's zero-emission collection goal: the energy that MiRIS produces and stores is 100% solar, which guarantees that RENEWI's trucks are completely carbon-free. Eventually, John Cockerill and RENEWI may extend their collaboration to hydrogen mobility, a technology in which John Cockerill is already well positioned.

Antonio Bellver, Business Development & Sales Manager: "At John Cockerill, we are pursuing our ambition to decarbonize human activities and act against climate change. It makes sense to support RENEWI in its transition to a green energy truck fleet. To be able to charge RENEWI's trucks, we have adapted MiRIS to other, more powerful chargers. Our goal is to deploy MiRIS equivalents wherever needed and thus install green charging centers for 100% electric trucks and buses."

Laurent Dauge, Director South Renewi Belgium: "In order to become a leader in zero emission collection, Renewi continues to invest in a more environmentally friendly fleet of vehicles through the acquisition of Zero Emission Vehicles - ZEV, in order to reduce the total carbon impact of our operations. This initiative is totally in line with our strategy as the world tries to limit global warming to less than 2 degrees, it is more urgent than ever to develop a circular economy by recycling more and more of our waste."

MiRiS: an innovative microgrid that continues to grow

MiRiS is an electrical microgrid project that combines renewable energy production with battery storage. The particularity of MiRiS, which makes it a unique project in Europe, is the diversity of the installed battery storage systems and the great flexibility of the possible configurations of the electrical network which constitutes it. Currently MiRiS has green energy production from a 2 MW photovoltaic system installed on the roofs of the John Cockerill headquarters workshops. The storage capacities add up to four different technologies, for a total of 2.5 MW of power and 5.5 MWh of energy capacity. The system is installed on a power grid that can replicate different configurations: grid-connected, islanded or in situations of weak or failed grids. The system is controlled by an intelligent software developed by John Cockerill. Precise measurements, collected through a secure and efficient communication system, allow real-time monitoring of the equipment. Computer algorithms and forecasting models optimize the energy flows exchanged

between renewable production, battery, consumption site and the electrical grid, to which the excess energy is sold. Launched in 2018, the MiRIS project powers the Group's Headquarters with renewable electricity and helps greening John Cockerill's vehicle fleet.

John Cockerill, leader in the energy transition

John Cockerill is a global player in the energy transition. With more than 200 years of experience in energy and industry, it designs and integrates innovative technological solutions to facilitate access to low-carbon energy. These technologies and expertise are dedicated to the production, storage and distribution of electricity from renewable energy sources and to optimizing the efficiency of power plants. They apply to steam gas, hydraulic, hydrogen, solar, nuclear, wind and biomass energy.

To complement its commitment to the fight against climate change, John Cockerill also deploys solutions to combat insecurity, produce responsibly, preserve natural resources and contribute to greener mobility. In 2020, it achieved a turnover of 1.01 billion euros in 19 countries on 5 continents.

About Renewi Commercial Belgium

Renewi Commercial Belgium has a complete national coverage in Belgium with about 30% market share being the largest waste collection and treatment operation with a No. 1 position in most waste segments. Our 2,000 Belgian employees process 3 million tons of waste each year at more than 40 operating sites. Our mission is to protect the world by giving new life to used materials and our business and sustainability strategies are consistent in helping us achieve this goal.

For Renewi, waste is a mindset and an opportunity. Our many years of knowledge and experience, combined with a wide range of services, allow us to offer sustainable and practical recycling solutions. We use innovation and the latest technology to transform waste into useful materials such as paper, metal, plastic, glass, wood, building materials, compost and energy. In other words, we turn today's waste into tomorrow's raw materials. The result of our work is less waste and contamination, smarter use of scarce raw materials and reduced carbon emissions. This means that we contribute to a cleaner circular world in which we no longer "waste".

John Cockerill, enabler of opportunities

Driven since 1817 by the entrepreneurial spirit and the thirst for innovation of its founder, the John Cockerill Group develops large scale technological solutions to meet the needs of our time: preserving natural resources, contributing to greener mobility, producing sustainably, fighting against insecurity and facilitating access to renewable energy.

Its offering to enterprises, States and communities comes in the form of services and associated equipment for the energy, defense, industry, environment, transport and infrastructure sectors.

Driven since 1817 by the entrepreneurial spirit and thirst for innovation of their founder, the 5 000-strong workforce of the Group enabled it to achieve turnover in 2020 of 1.01 billion Euros in 22 countries across 5 continents.

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