

Seraing, 27th October 2022

John Cockerill designs the world's largest HRSG¹ to equip ENGIE's plant in Flémalle (Belgium)

The Awirs power plant (Flémalle, Belgium) will be replaced by 2025 with a new 875 MW combined cycle thermal power plant. Its operator, ENGIE, entrusted John Cockerill with the design and supply of the heat recovery boiler. It will be the largest and one of the most efficient boilers of this type ever installed in the world.

The new gas-steam combined cycle power plant in Flémalle will be commissioned in mid-2025. The site, which from the 1970s hosted the largest thermal power plant in Wallonia, is in a deconstruction phase. It will be upgraded to build a brand-new power plant. With a capacity of 875 MW, it will be able to supply electricity to nearly 700,000 households. It will achieve an efficiency of over 63%, one of the highest in the world for a gas/steam combined cycle power plant, thanks to the John Cockerill boiler, which will produce a third of the power plant energy.

ENGIE chose this type of equipment to produce responsibly and significantly reduce nitrogen oxide emissions. Indeed, the John Cockerill boiler recovers the heat lost by the gas turbine, transforms it into steam and injects it into a steam turbine to generate electricity. A real juggernaut, this boiler will be the largest and most efficient ever designed by John Cockerill's engineers.

Eric Absil, President of John Cockerill Energy Solutions: "In the current context of energy transition, gas/steam power plants are a key element of national energy mixes. Designed to facilitate frequent start-ups and changes of regime, it will also provide all the flexibility necessary to adapt to the significant production fluctuations required by the intermittent side of renewable energies. At John Cockerill, we are proud to contribute to this major project, which will help ensure Belgium's security of energy supply. »

Gilian Deblauwe, Managing Director Thermal Cluster North Europe: « We have made great efforts to develop a state-of-the-art project in Flémalle in order to reduce the impact on the environment and to integrate the plant into local communities. ENGIE has decided to go beyond its obligations by further reducing nitrogen emissions through investments and technical optimizations. We are convinced that the Flémalle plant, which represents an investment of 500 million euros, will be one of the world's best benchmarks in terms of efficiency and emissions control. This project is based on the expertise of several Belgian and European companies, such as John Cockerill, which will supply the boiler and a selective catalytic reduction equipment (SCR). »

For the record, John Cockerill and ENGIE previously collaborated under the same contractual scheme for the construction of the Amercoeur (Hainaut, Belgium) and Dunamenti (Hungary) power plants.

1. HRSG: heat recovery steam generator

The HRSG in figures

- 73 meters long
- 25m wide and 60m high
- 10,500 tons
- Nearly 30,000 pipes made of Inox and other high allied steels, as inconel
- Resistance to steam temperatures over 600°C

About ENGIE

We are a leading global group in low-carbon energy and services. With our 101,500 employees, our customers, our partners and our stakeholders, we are committed every day to accelerating the transition to a carbon-neutral world, thanks to more energy-efficient and more environmentally friendly solutions. Guided by our purpose, we reconcile economic performance and positive impact on people and the planet by implementing our key businesses (gas, renewable energies, services) to offer competitive solutions to our customers.

About John Cockerill

Driven since 1817 by its founder's entrepreneurial spirit and thirst for innovation, the John Cockerill Group is developing large-scale technological solutions to meet the needs of its time: preserving natural resources, contributing to greener mobility, produce sustainably, fight insecurity and facilitate access to renewable energy.

Its offer to companies, states and local authorities takes the form of associated services and equipment for the energy, defence, industry, environment, transport and infrastructure sectors.

With more than 5,000 employees, John Cockerill achieved a turnover of 947.4 million euros in 2021 in 23 countries, on 5 continents.

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