

Hydrogen Solutions

Production, storage and distribution of green hydrogen



The Power to change the world

johncockerill.com/energy



John Cockerill, a top ranking player in the **energy transition**

An entrepreneurial spirit and the desire to move the world forward have always formed part of the DNA of John Cockerill. Its objective is to provide ever more reliable, higher performing solutions with better respect for the environment. In this world where energy is evolving towards greener, more sustainable and more flexible systems, more suited to the human domain, John Cockerill possesses a wide range of solutions at the service of the energy transition: thermo-solar towers, energy storage, the optimisation of electricity networks, biomass, heat recuperation, energy efficiency, wind turbine maintenance...

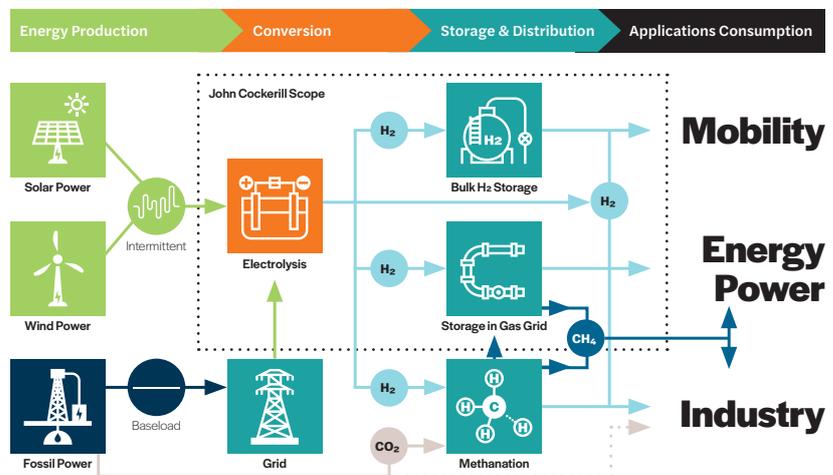
Projects which are perfectly in line with the major issues of this energy transition: decentralisation, decarbonisation and digitalisation.



Hydrogen at the heart of our skills

John Cockerill is able to provide global solutions comprising the production, storage and distribution of hydrogen. The Group can thus respond to the whole range of needs of industry, mobility and the major players in the energy domain.

- Dedicated refueling stations
- Purifiers
- Optimised filling stations according to the specific requirements of users
- Dedicated Energy Management Systems
- Optimisation of refueling stations by modeling application



- 25 years of experience and expertise in hydrogen solutions
- A full range of integrated solutions for the supply of 100% green hydrogen
- A wide array of applications: refueling stations, Power to Gas, industrial applications...
- An integrated laboratory for testing the different configurations, different membrane types...
- The ability to construct 100 MW+ units

Systems, with high **reliability** and **capacity**, recognized all over the world

John Cockerill is a player able to support hydrogen projects with competitive solutions, for growing demands within the green hydrogen Market.

More than 1000 references across the world, within various sectors such as:

- Chemicals
- Glassmaking
- Steelmaking
- Non-ferrous
- Energy
- Mobility
- Semi-conductors
- ...



Production and compression installation for 500Nm³/hour (electrolyser, separators, purifier, compressors)



Full containerized outdoor solutions

John Cockerill is already working **on the world of tomorrow**

- Mobility: multi users filling stations, able to cover a wide range of needs such as logistics hubs, airports activities, maritime and inland waterway bases, truck, bus or taxi captive fleets...
- Industry: reduce CO₂ emissions from the current processes
- Incinerators, biomass
- Power to Gas: the injection of green hydrogen into natural gas networks



HaYrport, a multi-modal refueling station integrated into the Liège Airport eco-system (Belgium)

- A full and tested range of stacks with a capacity of 1 to 1500 Nm³/h
- A charge density of 4000A/m²
- A pressure capacity of up to 50 bars at exit from electrolyser, depending on model
- Tailor made configuration responding to the criteria of each client
- Rapid delivery design based on skids structure, or in containers for easy and fast installation

John Cockerill, in the world



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