

# Off-grids

The smartest way towards green electricity consumption

## You want to:

- Reduce fuel consumption
- Provide green, cost-effective and reliable power generation
- Reduce exposure to energy price volatility and fluctuation
- Optimize renewable energy penetration rate
- Avoid costs for grid extension
- Alleviate renewable energy intermittency with energy storage and fossil-based dispatchable power generation
- Facilitate fuel logistics and equipment maintenance
- Promote ESG approach

## You are active in:

- Utilities & developers, IPPs with decentralized facilities
- Extractive industries (mining, quarries, cement factories)
- Agro industries
- Food & Beverage

## John Cockerill's Integrated Energy Systems are the Solution!

We offer:

- A comprehensive and integrated energy system, in isolated or remote areas, combining technologies, sized and designed to optimize fuel savings and provide green, cost-effective energy
- A solution managed by an Energy Management System (EMS) to optimize asset lifecycle
- A solution made of proven technologies, which are modular for future expansion
- Cutting-edge technologies provided by premier suppliers
- A proven track record, based on industrial references and on the John Cockerill MiRIS green energy station that displays John Cockerill's expertise in the design, implementation, and operation of a micro-grid in real conditions



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## Market Applications

- Remote markets with:
  - Poor rate of electrification
  - High fuel prices
  - Decentralised and isolated power generation units
  - High cost for grid extension

## Your Benefits

- Save on fuel expenditures
- Reduce exposure to energy price volatility
- Provide a reliable, cost-effective and green energy
- Promote and highlight ESG objectives and KPIs

## Key Features

- Power system from 1 MW/2 MWh up to 30 MW/60 MWh
- Main technologies:
  - Solar photovoltaics: rooftop, ground mounted, carport, floating
  - Batteries Energy Storage System (BESS): Li-Ion, NaS
  - Gensets
  - Energy Management System (EMS)



## Our Approach

From diagnostic, feasibility study, concept design, to EPC delivery, financing and O&M services, John Cockerill supports its clients on the whole value chain with a one-stop-shop, enabling them to achieve their targets in terms of performance, safety, delivery, and financial return.



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