MiRIS, Belgium 2 MWp – 5,5 MWh

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John Cockerill energy has constructed the largest battery park on its Seraing site in Belgium. It is made up of 2MWp of photovoltaic panels coupled with 2 types of flow batteries, one lithium-ion battery along with a sodium-sulphide battery, representing a total of 5.5MWh of energy storage. This installation will be managed by an intelligent Energy Management System (EMS) which is considered to be the brain of the system. Its role is to optimize reductions in the energy bill by determining the best moment to charge or discharge the batteries depending on various parameters/factors such as consumer demand, climatic conditions, the market price of energy and numerous other variables.

The produced electricity are being used by John Cockerill head quarter for its own needs. The energy bill may also be reduced by selling the excess electrical energy to the grid (in accordance with regulations), or contributing in primary reserve market using the available energy stored in the batteries. With the objective of determining the profitability of the batteries, John Cockerill has been testing the latter subject to different energy production profiles.

Thanks to our demonstrator, we are able to undertake project simulations. These simulations serve to validate the equipment sizing, provide technical recommendations, and evaluate the performance of the EMS. Another key feature of MiRIS is off-grid operation, enabling us to cover the need in the areas with weak electrical grid.

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