

SPECTRAL PARTNERS WITH GIGA STORAGE FOR THE MOST POWERFUL BATTERY SYSTEM IN THE NETHERLANDS

Amsterdam, The Netherlands – 16 June 2020 - Spectral partners with GIGA Storage to optimize and steer the large-scale, GIGA Rhino, battery - a 12 MW grid-connected battery provided by NEC. The GIGA Rhino battery will be the most powerful energy storage project in the Netherlands with the storage capacity of the annual electricity consumption of 5,000 households. Spectral will be implementing a Smart Energy Control System (SECS) – which is a sophisticated smart energy platform that optimizes the performance of the battery and facilitates integration with the electricity markets and deliver ancillary services to the grid.



Artistic rendering of the GIGA Rhino battery system in Lelystad, Netherlands, next to the Neushoortocht wind farm.

The uniqueness of the GIGA Rhino battery system

The GIGA Rhino battery system will be located at the Wageningen University & Research test center in Lelystad next to the Neushoortocht wind farm. Once installed it will be the most powerful battery storage installation in the Netherlands. The GIGA Rhino battery will be controlled to maximize the local production of renewable energy sources which are installed behind the same connection point to Tennet's high voltage grid. With its 12 MW of power, the GIGA Rhino battery system will have a significant impact on our national grid stabilization and will make an important contribution to reducing CO2 emissions. Over the coming years, the site will grow into one of the largest hybrid renewable + storage power plants in the world, with a total of 120 MW of solar and 138 MW of wind. The battery will also be coupled with different energy and capacity markets to facilitate ancillary services, balancing the national electricity grid.

Spectral's value add

Giga Storage selected Spectral to be the end-to-end system integrator and smart energy platform provider for this project, which is the launching project for Giga Storage and the first of many. With the implementation of Spectral's SECS platform, the performance of the GIGA Rhino battery will be optimized while making the connection with the electricity markets to

deliver to several energy markets and ancillary services. By integrating with the GIGA-Cloud platform, the market pricing forecast will further optimize the revenues generated by the GIGA Rhino battery.

After the integration of GIGA Rhino, Spectral provided platforms that optimizes the performance of the batteries and facilitates integration with the electricity markets for more than 40% of the batteries in the Netherlands, thereby taking a nationally prominent role in this market segment.

Ruud Nijs, CEO of GIGA Storage: *“The GIGA Rhino battery is our first flagship project and we are already preparing the next one. To realize these kinds of high tech renewable energy projects we need innovative and market-leading partners to team up with. Spectral has proven to be an international frontrunner in this segment and we are pleased to have them on board as the end-to-end systems and smart energy platform integrator. We are looking forward to establishing a long term and impactful partnership with Spectral.”*

Unlocking the value of flexibility

As the energy transition moves forward the need for flexibility is paramount for market parties like grid companies and energy retailers. Energy assets, such as large scale grid-connected batteries, when intelligently steered and connected with the different energy markets, can make the difference by rapidly responding to price signals and network conditions. These smart energy services are making a positive impact on our (inter)national electricity grid by contributing to fossil fuel phase-out and enabling higher penetration of renewable energy sources.

Tom Westra, Co-Founder & CCO at Spectral: *“Spectral, as a mission and purpose-driven company, is excited to collaborate with partners like GIGA-Storage to scale up the application of hybrid renewable power plants and to apply our cutting-edge technology to revolutionize the energy transition.”*

Key partners

Key partners for the GIGA Rhino battery system project include NEC (battery supplier), ENGIE (installation), Windnet (owner of the local grid connection), and the RVO (granted the DEI subsidy for this project).

About GIGA Storage

GIGA Storage realizes large-scale energy storage in Europe. Investments are made in projects for both energy supply optimization and grid stability. GIGA Storage aims to become the market leader in energy storage in Europe. Learn more at www.giga-storage.com

About Spectral

Spectral is an Amsterdam based end-to-end systems and platform integrator in the smart energy domain. With a strong focus on developing and implementing the next generation of integrated smart energy control systems, we aim to revolutionize the energy transition in creating smart grids, smart assets, and smart buildings. More info can be found at <https://spectral.energy>

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