Battery storage standards Slovakia

Wattstor and ENERGE are proud to announce their collaborative deployment of battery storage for ancillary services in Slovakia. Slovakia"s grid just got a boost of stability and innovation thanks to Wattstor"s pioneering 1.5 MW / 1.6 MWh battery energy storage system (BESS), the first of many projects planned for deployment in 2024.

As Slovakia strides towards modernizing its energy infrastructure, Greenbat and Pixii have joined forces to pioneer the first battery storage system certified for primary frequency regulation (FCR) in the V4 countries. This collaboration marks a significant milestone in enhancing grid stability and integrating renewable energy sources in Slovakia.

The pilot project for the construction of the ENGIE Group"s Battery Energy Storage System (BESS) in Velka Ida was completed and started its operation earlier this year. BESS with capacity of 1.25 MW will provide support service for Transmission System Operator (FCR: +/- Frequency Containment Reserve GRID) and ENGIE Balance Group.

Slovakia is in the process of transposing Winter Package legislation to ensure non-discrimination and stop double charging and the RRP will kick-off funding to meet the national energy storage target of at least 30 MW by 2026. The Ministry is involved in the European Battery Initiative aim-ing to achieve cooperation with academia and the

Our battery storage systems use technology from the world"s best manufacturers. We use liquid cooled CATL battery cells in our systems. The failure rate of the battery cells is reduced to 1/ 1,000,000,000 thanks to more than 6,800 quality check points and more than 700 tests performed on each cell, guaranteeing the quality of the battery storage.

In a landmark achievement, Wattstor and ENERGE have successfully implemented a cutting-edge 1.5 MW / 1.6 MWh Battery Energy Storage System (BESS) for ancillary services in Slovakia, enhancing the country"s grid stability and fostering innovation.

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Slovakia"s five OEMs alone will need at least 80 GWh of annual battery capacity in 2035. By including OEMs in the other V4 (CZ, SK, PL, HU), this could grow to hundreds of GWh per year in the 500 km

Slovak battery alliance - energy storage 11 Main battery storage applications are following: Integration with

renewables - focused on increase of local and effective usage of solar/wind or other renewable energy Ancillary services - focused on primary/secondary regulation, support of grid parameters and quality, reduction of asymmetry

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The storage will consist of several smaller units (~32-64MW) located in Slovakia (central Europe). Considering energy density, charge and discharge efficiency, life span, and ecofriendliness of devices, the battery storage shall be based on Lithium-ion technology.

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