Grid-scale energy storage czech republic

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While the goal of EU funds is to support a sustainable low-carbon-emission economy and ensure energy security by utilizing alternative energies, the Czech approach is different. As described in the State Energy Policy, the future Czech energy mix will be primarily based on nuclear power with a goal of reaching 50% of the energy supply with nuclear.

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The project in Vra?any, M?ln?k, combines 30MW of BESS with another 22.4MW of gas generators to provide grid balancing services to the transmission system. Construction started in April last year and a May 2024 operation date was targeted.

Darina Merdassi, Decci"s director said the project would be able to provide the same balancing services as a 300MW lignite power plant, and that projects like it were key to moving away from coal, which still provides 60% of power in the Czech Republic (sometimes referred to as "Czechia").

Specifically, Energy Nest will provide automatic frequency regulation backup (FCR), automatic activation power balance regulation backup (aFRR+) and manual activation power balance regulation backup (mFRR+), the announcement said. It will initially only bid in up to 30MW of its capacity, but this may increase to the full 52.4MW in future.

Technology company Siemens built the project while the main technology suppliers were turbine manufacturer Centrax and inverter company SMA. Local consulting firms Euroenergy, Nano Energies and OSC were also involved in the project while the Czech Institute of Informatics, Robotics and Cybernetics developed a customised control system.

It comes seven years after Energy-Storage.news reported on the first grid-scale lithium-ion BESS in the Czech Republic, deployed by system integrator Alfen.

Energy-Storage.news" publisher Solar Media will host the 2nd Energy Storage Summit Central Eastern Europe on 24-25 September this year in Warsaw, Poland. This event will bring together the region"s leading investors, policymakers, developers, utilities, energy buyers and service providers all in one place, as the region readies itself for storage to take off. Visit the official site for more info.

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With coal dominating the energy mix, the Czech Republic has traditionally enjoyed low electricity prices and a steady supply of domestic fuel. However, the recent energy crisis, together with pressure from stakeholders and regulatory bodies to decarbonise, has triggered an unprecedented shift in the country"s energy market.

Between 2019 and 2020, coal production decreased by 24%. This downward trajectory continues as the country rapidly increases its installed renewable generation capacity. But as onsite generation and energy efficiency initiatives become widespread, how can Czech organisations make the most of their renewable generation assets?

The timing is right in the Czech Republic to accelerate the clean energy transition. Countries worldwide are seeking to reduce their carbon footprint, and the Czech Republic is no exception. There is a huge potential for solar installations, with ideal climate conditions and substantial funding coming from the EU.

The situation is similar in other areas of Central and Eastern Europe, where Wattstor has already completed a number of successful renewable energy installations - such as Poland, Croatia and Slovakia.

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