Czech republic energy storage for backup power

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The Czech group DECCI has started the construction of a modern source of support services of power balance (SVR) with a total capacity of 30 megawatts called Energy nest. Construction began on March 30, 2023, with the goal of this hybrid source being put into operation in May 2024. At the moment of commissioning, it will become a flexible energy source with the largest battery storage in the Czech Republic. The Energy nest hybrid resource is implemented in the cadastre of the village of Vra?any, district of M?ln?k.

The company Siemens, s.r.o. is participating in the project as the contractor of the hybrid source, the main technology suppliers are the company Centrax Ltd, UK and SMA Altenso, GmbH. However, space is also given to Czech experts, namely the Czech Institute of Informatics, Robotics and Cybernetics, CTU, which develops control algorithms based on machine learning for the project.

The hybrid power source will include battery storage with a capacity of 20 megawatts and a capacity of 22 megawatt hours, and combustion turbines with a total capacity of 30 megawatts technically derived from aircraft engines, which will ensure a high level of flexibility with minimal operating costs. The hybrid source will be capable of providing any combination of SVRs, namely automatic frequency regulation (FCR) backup, automatic activation power balance regulation backup (aFRR+) or manual activation power balance regulation backup (mFRR+) up to a total power of 30 MW.

The Energy nest hybrid source was designed in accordance with the concept of modern energy and promotes the idea of separating the production of electricity from the provision of SVR. A conventional SVR source (e.g. a coal-fired power plant) must be in continuous operation when providing SVR, in contrast, Energy nest can be kept in standby mode outside of service activation with a minimal emission footprint and without inefficient fuel use.

The Energy nest technological solution is designed in such a way that in the future it will be possible to use green hydrogen as a fuel. The hybrid resource concept will thus support the achievement of national climate goals.

About the DECCI groupThe DECCI Group is an energy group that belongs to the pioneers of the renewable resources industry in the Czech Republic. He perceives the importance of innovative energy solutions and their integration into everyday life. It focuses on projects in the field of modern energy in terms of production, accumulation and distribution.

About the AKU-BATThe DECCI Group is a founding member of the Association for Energy Storage AKU-BAT, which brings together the most important entities active in the field of energy storage and is a founding member of the Union of Modern Energy. AKU-BAT supports the cooperation of its members in the

entire spectrum of services, from the use of storage in industry, energy or as an element of flexibility, through e-mobility to the development of hydrogen technologies.

Martin V?clavek is a graduate of the Technical University of Ostrava and has been working for a long time in managerial positions in companies in Northern Moravia. He has been the CEO and Managing Director of ?EZ Energo s.r.o. since 2021, and in 2022, he became the Chairman of the Board of COGEN Czech - the association for combined heat and power production.

o Managing future risks. Even if the energy crisis seems to be on the wane, it is not worth neglecting possible future risks, such as fluctuations in energy prices and sudden changes in supply.

o Regulatory pressures on environmental protection and sustainability may increase in the future. Overall, even in a period when the energy crisis may be subsiding, it is still wise and strategic to focus on efficient and sustainable energy practices. This will have a positive impact not only on the economy of companies and institutions, but also on the environment and society as a whole.

The complexity of energy-saving solutions is not cheap, and not everyone is able to allocate investment for them. Can you help with this problem?Comprehensive energy-saving solutions require significant investment. However, this is where we are ready to help our customers and find suitable and sustainable financial models for them.

Our goal is to ensure that our energy solutions deliver long-term value and return on investment. That is why we offer our customers financing for all investment and operating costs, allowing our customers to enjoy the benefits of modern technology without significantly impacting their financial situation.

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