

Citizen participation: Storengy Deutschland presents innovative energy solution project Aquilon in Wallstawe

Berlin, June 07, 2023. At the invitation of the mayor of the Wallstawe municipality, Storengy informed citizens about the central cornerstones of the planned "Aquilon" energy solution project as part of a public participation event. This will be implemented at the Peckensen natural gas storage facility operated by the company in Wallstawe.

Since July 2021, Storengy Deutschland, ENGIE Laborelec and Skysails have been working on the implementation of the joint innovation project, for which funding from the European Union (EU) Innovation Fund has been provided.

This makes the project one of a total of 32 small-scale and innovative decarbonization projects in the EU dealing with the market establishment of low-carbon technologies for energy-intensive industries, hydrogen, energy storage and renewable energies.

An innovative solution

Here's the idea behind it: Instead of using conventional wind turbines, the energy is generated with an efficient, innovative and safe stunt kite, also called Airborne Wind Energy (AWE). In this way, part of the storage facility's electricity needs can be met with renewable energy in the future.

"A stunt kite can reach flight altitudes that far exceed the height of a conventional wind turbine. In these higher layers of air, the wind strength tends to be higher and more consistent, so more renewable electricity can be generated," says **Christophe Merlo, Business Development Manager and Project Manager** at Storengy Germany.

This integrated solution combines renewable energy generation (wind and solar) and storage using a redox flow battery. Constant electricity production is generated using an intelligent energy management system to power the natural gas storage with renewable energy.

An important contribution to climate neutrality

Aquilon can avoid 100 percent of greenhouse gas emissions compared to conventional technologies and thus makes an important contribution to climate neutrality. Thanks to this solution, 1 GWh of electricity is produced at the storage facility. This could supply 250 households with electricity for a year. AWE turbines also require only a fraction of the material of conventional wind turbines. This reduces investment costs and has a positive impact on environmental compatibility.

Lutz Rebohle, Head of Approvals at Storengy Germany, was very pleased with the lively turnout at the event: "We take our responsibility as an industrial company in the region very seriously and stand for transparency and willingness to engage in dialog. In this sense, I am pleased about the numerous

participants as well as the open and objective exchange. That's how it should be and that's how we want to continue it."

About the Peckensen storage site

At its [Peckensen site](#), Storengy Deutschland operates a cavern storage facility with a working gas volume of around 344 million standard cubic meters distributed over five storage caverns. With five compressors, the injection capacity is 315,000 standard cubic meters per hour, while the maximum withdrawal capacity is 860,000 standard cubic meters per hour. The storage facility is optimally connected to the Steinitz grid interconnection point and the Ontras transport network via two high-capacity connecting pipelines. Peckensen is Storengy's largest cavern storage facility in Germany.

About Storengy Germany

Storengy Deutschland, a company of the ENGIE Group, is one of the leading gas storage companies in Germany. With around 150 employees across Germany, we are a reliable partner for storage services: We plan, build and operate storage facilities and market their storage capacities. Our mission is to generate and store climate-neutral energy in order to sustainably supply tomorrow's generations. To this end, we develop innovative solutions for the storage of hydrogen and the generation of renewable gases. The company is headquartered in Berlin.

About Skysails

[SkySails](#) is the technology leader in the field of airborne wind turbines. With a multi-skilled and highly interdisciplinary development and engineering team, they are pioneers in the relatively young and highly innovative field of high-altitude wind energy. Their systems enable the deployment of renewable energy in previously untapped markets while simultaneously increasing the effectiveness of already installed energy solutions through hybridization. Skysails technology is poised to become a significant component of a sustainable energy strategy.

About ENGIE Laborelec

[ENGIE Laborelec](#) is a leading center for research and development in the field of electrical power engineering. With the skills of 280 highly specialized engineers and technicians, the company operates along the entire electricity value chain, serving a wide range of customers in the fields of generation, transmission, distribution, storage and end-use, with a particular focus on the energy transition and the 3 Ds - decentralization, decarbonization and digitalization.



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