Grid-scale energy storage ljubljana

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A Tesla-powered Slovenian energy company has just launched its third–and largest–Megapack project to date, helping support 70 percent of the country’s energy grid.

Slovenia’s NGEN first started utilizing Tesla Megapacks for energy storage and grid stabilization in 2019. The country became the first in the Balkin Peninsula to install a grid-scale battery storage unit with the implementation of 126 Tesla Powerpacks capable of a 22.2 MWh capacity. It was the first project NGEN launched using Tesla Megapacks.

In 2020, NGEN upped the ante by installing an even larger project. The second project would consist of twelve Tesla Megapacks to provide NGEN with a 30.2 MWh capacity, helping support the grid, which extends from Turkey to Norway. The grid is fed with alternating current, which has a frequency of approximately 50.0 Hz, NGEN told us.

NGEN announced it would open its third battery storage project, costing EUR16 million. Its largest yet, the new energy storage expansion project will be a 20MW/40MWh Megapack system. With the new project, NGEN now has over 60MW of flexibility available.

NGEN said the need for constant expansion is justified by centralized power grids. Any faults in the grid could cause a blackout, and since many grids expand across several countries, the effects of a blackout could be detrimental. Issues in grid stabilization could cause a continental outage, leaving most European residents without power.

Although the company is currently involved with several grid and large-scale energy stabilization projects, it said that it also has its focus on individual households, which it plans to utilize Tesla Solar and Powerwall for. The company said it has already prepared a package for customers to consider, which would offer a better deal for the combination of a solar array and Powerwall for excess energy storage.

NGEN, a developer based in Slovenia, has celebrated the installation of a 22MWh grid-scale battery energy storage system (ESS) supplied by Tesla in what is thought to be the product's first deployment in the Balkans.

The company tweeted that an official opening event had taken place on 10 October for the battery, which is claimed to also currently be the largest Tesla Powerpack battery system in Europe, although not the largest ESS project on the continent by any provider.

Energy-storage.news emailed NGEN to request confirmation and for more information this morning, receiving confirmation that information provided has been accurate, while the site also got a promise from NGEN to

speak in more depth with the company in the near future from the company's leadership team.

In the meantime, regional news outlet Balkan Green Energy News offered a brief report on the project, which is in Jesenice, north-west Slovenia. The site reported that the battery energy storage system (BESS) will be used to balance grid frequency in the area and could help integrate much larger shares of renewable energy onto the grid, also reporting that NGEN said its next system will be constructed in Slovenia within eight months.

The Balkan Green Energy article also said NGEN is seeking to also assist others in executing their own ESS projects, which could see NGEN installing and operating plants as well as providing software and offering technical assistance.

The Jelenice project may also end upbeing one of the final really large Tesla projects to use the Powerpack at grid-scale, with the company having recently launched Megapack, which is a modular system solution available in 3MWh 'blocks' and intended for utility use.

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