Tesla megapack installation

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Tesla Megapack is quickly becoming the flagship stationary energy storage battery system for utility-scale projects, and its ease and speed of installation is a big part of the reason for its success.

Tesla launched "Megapack" last year, and it"s the company"s latest energy storage product, after the Powerpack and the Powerwall. It’s meant as an even bigger option targeting electric utility projects.

The company"s energy storage business has found some success with electric utility companies through the years with its Powerpack, but the competition has been offering bigger options, and Megapack is Tesla’s answer to that.

Tesla designed the system to fit in a container and it simply needs a concrete foundation. Then you just have to drop the giant battery system with a crane, and voil?.

Recent photos from Gigafactory Texas suggest that the buildout of the facility’s Megapack farm is well underway. As per images of the installation, Tesla has so far installed 24 of the 68 Megapacks at the site.

The photos were shared by longtime Gigafactory Texas watcher Jeff Roberts, who has been capturing the developments at the complex since its early days. During a recent drone flyover, Roberts observed that even more Megapacks had been installed at the site’s battery storage area.

A copy of a document from the Lower Colorado River Authority (LCRA) showed that Giga Texas’ battery storage system will be comprised of 68 Megapack batteries that are rated at 2 MW each. The document also indicated that the system is listed as 345 kV.

“The Plant is a Battery Energy Storage System (‘BESS’) facility with one Point of Interconnection to the grid. The Plant nameplate rating will be approximately 163.2-MVA of AC power (with a maximum real power rating of 131.05-MW) at the inverter 480VAC terminals (low voltage),” the document read.

Considering the specs of the Megapack batteries on Tesla’s official website and the fact that the battery installation would be comprised of 68 energy storage units, it would appear that the power of the system would be 131 MW, and its energy would be at 262.1 MWh.

This would make the Megapack installation in Giga Texas larger than the initial iteration of the Hornsdale Power Reserve in South Australia, which featured 100 MW of power and 129 MWh of energy when it was installed in 2017. At the time of its deployment, the Hornsdale Power Reserve was considered the largest battery in the world.

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Tesla recently uploaded a video introducing its latest energy storage project in Angleton, Texas. Tesla installed 81 Megapacks in Angleton totaling 200 MWh of energy.

According to Tesla, theMegapack storage projectwill allow Angleton to participate in the energy storage market and support the Texas grid during outages. Tesla’s video reminded people of the Texas Big Freeze in February 2021, when parts of the state lost power for three days. With Angleton’s Megapack project, Tesla can help support the grid in Texas during events like the Big Freeze.

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