100 kWh envision aesc energy storage

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Chinese multinational Envision Energy has unveiled the world"s most energy dense, grid-scale battery energy storage system packed in a standard 20-foot container.

Shanghai-headquartered Envision Energy launched its latest grid-scale energy storage system at the third Electrical Energy Storage Alliance (EESA) Energy Storage Exhibition held in China last week. The product"s energy density stands at 541 kWh/m^2, making it the leading one in the industry to date.

The product release follows the launch of the 6.25 MWh energy storage system by CATL in April and several other companies launching 6 MWh+ storage systems packed in a standard 20-foot container, ushering in a new energy density era for the battery energy storage systems.

However, Envision"s latest product far surpasses all earlier system-level achievements. It packs more than 8 MWh using 700 Ah lithium iron phosphate battery cells made by Japan-headquartered AESC, in which Envision holds a majority stake.

"We made a huge jump from 315 Ah battery cells used in our previous generation products to 700 Ah and we did this to lower the cost on the system level," a company representative told ESS News at the show in Shanghai.

The latest generation product has an energy density of more than 440 Wh/l, a roundtrip efficiency of 96%, and a cycle lifetime of nearly 16,000 charge-discharge cycles.

On 8th November, the first batch of batteries of Envision AESC (Cangzhou) Zero-Carbon Intelligent Industrial Park project was successfully rolled out of the production line, which is the first battery super factory completed and put into production in Beijing, Tianjin and Hebei so far, and also marks the official

commissioning of the first phase project of Envision AESC (Cangzhou) Zero-Carbon Intelligent Industrial Park.

It is understood that Envision AESC Cangzhou Plant has a total planned capacity of 30GWh, which will be built in two phases to produce industry-leading power batteries and energy storage batteries to be delivered to domestic and international head car companies and energy storage users. The project started construction in November 2022. Phase I investment of 7 billion yuan, covers an area of 385.79 acres, with a total construction area of about 170,000 square metres, and the construction of four 10GWh battery production lines.

The second phase of the project invests 14 billion yuan, reserving 310 acres of land on the west side of the first phase of the project to expand the 20GWh battery production line, and the project planning, design and development and construction mode will be determined according to the market orders in the second half of this year, and is expected to be constructed in 2025. After the two-phase project reaches full production, the annual output value will be about 36 billion yuan, tax payment will be about 1.8 billion yuan, and employment will be driven by 4,500 people.