

Estonia energy storage technologies

One of the Estonian future unicorns, Skeleton Technologies announced the building of a fully automated, digitalised manufacturing plant in the Leipzig area, Germany, to lower the production costs by almost 90% in 5 years.

The next-generation supercapacitor cell factory is scheduled to start production in 2024 and produce up to 12 million cells a year, which is 40 times more than Skeleton's first factory in Saxony, Germany that will continue as an R& D factory in the future. From the total investment of 220 million euros, EUR100M will be invested in manufacturing equipment in the Leipzig area and EUR120M for scale-up and R& D.

Furthermore, Skeleton has started a technology partnership with the European largest industrial manufacturing company Siemens. The aim of the partnership is the digitisation of Skeleton's entire value chain and scale up the production of next-generation supercapacitors. Siemens supports with its comprehensive Digital Enterprise portfolio as well as domain know-how in industrial battery cell production.

"With our supercapacitors with the highest power density in the industry, we see great potential for further cooperation with Siemens, especially in the areas of mobility, grid stability and heavy-duty applications," notes Skeleton's co-founder and CEO Taavi Madiberk.

Skeleton and Siemens both believe that the global economy is undergoing structural changes in some of the largest CO2 emission sources such as power generation, transport, and industry. Supercapacitors are a key element in drastically reducing emissions in these sectors.

"Electrification and decarbonisation require key enabling technologies and supercapacitors are one of them," says German Parliamentary State Secretary Michael Kellner. "Skeleton's use of their own patented "curved graphene" material strengthens the European energy storage ecosystem and value chain," Kellner adds.

What is it like to run a business in Estonia? How to benefit from the e-solutions and the efficiency of our business culture? What are the opportunities in specific sectors? Who to partner up with?

The Estonian Investment Agency's team is happy to help you via its complimentary e-Consulting service, organize online or offline follow-up events such as virtual investment visits and guide you through the fairly simple process of investing in Estonia.

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