



WALMER ENERGY

Estonian Super Smart Capacitor





Overview

What are skeleton supercapacitors used for?

Founded in 2009, Skeleton's supercapacitors are used in transport, grid, industrial, and automotive applications and allow to reduce CO2 emissions and save energy.

Where are the three Estonian scientists now?

Next year, Skeleton will open the largest supercapacitor factory in Europe, producing twelve million cells a year. As the new generation of engineers is taking over, the three Estonian scientists are remaining in their small town in Tartu where it all started. Marian Männi is an Estonian investigative journalist.

What are supercapacitors & Super batteries?

Supercapacitors in industry standard D60 and D33 form factors, offering reliable high power, low ESR (1S 0.2-1.6mΩ) with 20+ years of lifetime. SuperBatteries fills the gap between supercapacitors and Li-ion batteries, offering the ideal combination of energy, power, and safety.

Why are supercapacitors important?

Supercapacitors are essential for producing and storing green energy. The curved graphene invented by Leis, Arulepp and Perkson made the existing supercapacitors much more efficient. They could keep and provide bursts of energy better than other commercial carbons, withstanding over one million charge cycles.



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Estonia's Skeleton Technologies bag EUR108M ...

Oct 16, 2023 · Tallinn-based Skeleton Technologies, a company that manufactures and develops high-energy and power-density ...

How was the best supercapacitor invented?

Nov 24, 2022 · Three Estonian inventors put the theory into practice - and it worked! It brought them one of Europe's most prestigious innovation ...

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Estonian team wins European Inventor Award ...

Jun 22, 2022 · The European Patent Office (EPO) today distinguished Estonian researchers Jaan Leis, Mati Arulepp and Anti Perkson with the ...

High power energy storage solutions , Skeleton

5 days ago · Skeleton Technologies is the world's leading manufacturer of graphene-based supercapacitors. Rebuilding industry for a net-zero future.

How the Estonian researchers invented the best supercapacitor

Dec 20, 2022 · Decades of work and collaboration led to a green energy storage solution - Estonian researchers Jaan Leis, Mati Arulepp and Anti Perkson found a way to use curved ...

Estonia's Skeleton Technologies invests ...

Estonia's energy storage company Skeleton Technologies invests 220 million euros to build the world's largest and fully automated supercapacitor ...

Estonian company opens nearly quarter-billion-euro ...

Nov 28, 2025 · The Estonian company Skeleton has opened a EUR220 million supercapacitor factory in Leipzig to support artificial intelligence data centers and stabilize Europe's power grids.

How the Estonian researchers invented the best ...

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Skeleton to build Europe's largest supercapacitor factory ...

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Skeleton Technologies

Skeleton Technologies, founded in Estonia in 2009, specializes in advanced energy storage solutions using Curved Graphene. Offering supercapacitors and SuperBattery technology, ...

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