SKELE+ON
TECHNOLOGIES

Powering **Energy Savings** With **Ultracapacitors**

Skeleton Technologies helps to save energy. We do it with our market-leading ultracapacitors, ultracapacitor modules, and full energy storage systems. Our technology enables companies to reach significant energy savings in a wide variety of industries ranging from automotive, transportation, and maritime, all the way to renewable energy, power grids, industrial applications, and aerospace.

Our competitive advantage is "curved graphene", our proprietary carbon material, which is the basis for all our products. It provides our cells, modules, and systems with four times the power density and twice the energy density compared to similar products on the market.

SkelCap

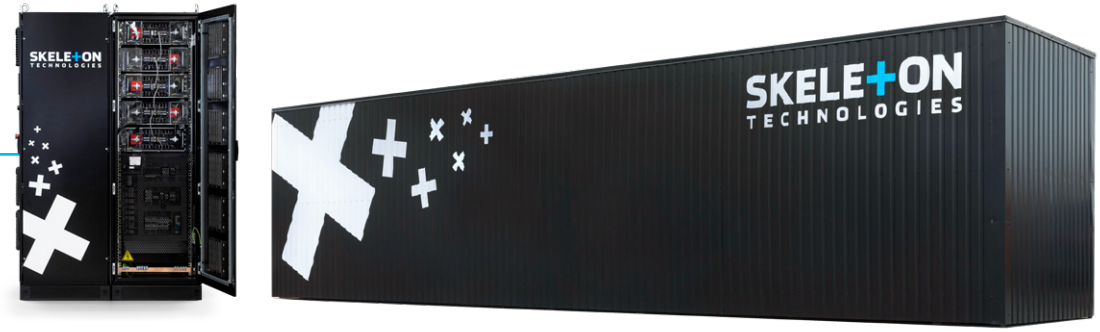
Industrial Ultracapacitor Cells

SkelMod

Ultracapacitor Modules

SkelGrid

Full Energy Storage Systems



MILESTONES

2009 Skeleton Technologies founded

2010 First prototype

2011 Signed European Space Agency as customer

2012 First commercial product series launched

2013 First full system delivered

2014 New manufacturing facility opened in Viimsi, Estonia

2015 First modules launched

2016 Expansion of Viimsi production facility

2017 German manufacturing facility opening

2018 Product portfolio expansion to different industries

2019 Large-scale commercial deals with automotive, transportation, and grid OEMs & Tier 1s

CUSTOMER NEEDS THAT SKELETON TECHNOLOGIES CAN SOLVE

1 Lower cost, longer lifetime, and higher reliability for energy storage

2 Increased performance, decreased weight and volume in mobile systems

3 Meeting CO2 emission regulation targets, saving fuel in automotive and transportation, meeting power quality regulations in renewable energy and smart power grids.

FUNDING

Skeleton Technologies has raised over 60m€ in funding from investors.

FIRSTFLOOR CAPITAL

HARJU ELEKTER

up invest

SUPPORTED BY eit InnoEnergy

InnoEnergy is supported by the EIT, a body of the European Union

European Investment Bank The EU bank

What are ultracapacitors?

Ultracapacitors are energy storage devices with high power density, long lifetime (15+ years), and high reliability. One of the main benefits of ultracapacitors is the ability to charge and discharge extremely quickly.

Will ultracapacitors replace batteries?

Ultracapacitors are known as fast energy storage, and batteries are known as slow energy storage. They are not competing technologies, and can be used together so that the main benefits of each technology are used for their ideal application.

How do ultracapacitors differ from batteries?

Ultracapacitors store energy in an electric field, whereas batteries store energy in a chemical reaction. This means that batteries charge and discharge slowly, and can operate for a long time, but with low current. Ultracapacitors have a lifetime 500 times that of current lithium-ion batteries, and have an extremely high power output. Ultracapacitor also work close to full efficiency in even extreme temperatures (-40°C to +70°).

A QUALIFIED SUPPLIER & SYSTEM PROVIDER

To Automotive, Grid, Transportation, and Industrial Companies, OEMs & Tier 1s

Danfoss esa Brush Traction A Wabtec company Sumitomo ŠKODA HHLA

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