

What is Stora Enso?

Stora Enso uses dry lignin to manufacture Lignode™; and aims to create a European supply chain for the lithium-ion battery industry. Our target is to offer the most sustainable and lowest-impact anode material available, to meet the eco-friendly mindset of future consumers.

How will Stora Enso and Altris develop a sustainable battery value chain?

The two companies aim to further advance the development and commercialisation of a sustainable battery value chain in Europe. Together, the two companies will drive the adaptation of Stora Enso's hard carbon solution Lignode™; as an anode material in Altris' sodium-ion battery cells.

Who are Stora Enso & Altris?

Stora Enso has partnered with Altris, a Swedish developer of sodium-ion batteries. The two companies aim to further advance the development and commercialisation of a sustainable battery value chain in Europe.

What is Lignode™; by Stora Enso?

Lignode™; by Stora Enso is a sustainable hard carbon derived from lignin, a product from the manufacturing of pulp, to be used as an anode material in both lithium-ion and sodium-ion batteries. It serves as a more sustainable alternative to current incumbent anode solutions.

What is Stora Enso doing with lignin?

Stora Enso's pilot facility for producing bio-based carbon materials from lignin started operations in summer of 2021, following a EUR 10 million investment announced in 2019. The pilot plant for bio-based carbon materials is located at Stora Enso's Sunila production site in Finland, where lignin has been industrially produced since 2015.

Why should you choose Stora Enso?

Stora Enso's European-based operations offer a localised solution that minimises environmental impact and promotes energy independence. "Bio-based materials are key to improving the sustainability of battery cells.

Here is how hard carbon can improve battery performance and lower the CO2 footprint in battery production at the same time. Read about Lignode™; by Stora Enso. ... It is extracted as a by-product of cellulose fiber production - a bio-based and scalable production currently from Stora Enso's Sunila Mill in Kotka, Finland. This means that new ...

Stora Enso Part of the global bioeconomy, Stora Enso is a leading provider of renewable products in packaging, biomaterials and wooden construction, and one of the largest private forest owners in the world. Stora Enso has approximately 20,000 employees and our sales in 2023 were EUR 9.4 billion.



Indonesia stora enso battery

I consent to Stora Enso using my personal data for providing me more information. We are the renewable materials company. We are the leading provider of renewable products in packaging, biomaterials, and wooden construction, and one of the largest private forest owners in the world. We create better choices for society by accelerating the ...

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Lignode ® by Stora Enso is a sustainable hard carbon derived from lignin, a product from the manufacturing of pulp, to be used as an anode material in both lithium-ion and sodium-ion batteries. It serves as a more sustainable alternative to current incumbent anode solutions. In addition to its sustainability benefits, lignin makes up 20-30% of a tree, which ...

The global battery market is projected to grow tenfold over the next decade as battery producers seek more sustainable materials for the electrification of mobility. Since sustainability is ...

The partnership, announced today, will combine Altris' sodium-ion battery technology and its Prussian White cathode material with Stora Enso's anode solution Lignode, with the goal of strengthening the development of ...

Stora Enso has joined forces with Swedish company, Northvolt, in creating the Lignode battery that's considered as paving the way for the future of batteries. Lignode is a hard carbon that is a bio-based alternative made from lignin, ...

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- Right now, global EV battery manufacturing is a crucial part of the EV value chain. Up to 95% of anode materials are produced in China, but the growing demand requires us to find a European solution, Kivi states. The solution: Stora Enso's Lignode®; a battery material made from trees

A significant part of this is acquiring battery materials to power clean vehicles. One of these essential materials is graphite, used for the negative end of a lithium-ion battery known as the anode. ... Lignode® by Stora Enso - a European alternative for graphite. However, there are good news ahead. In the future, car batteries can be from ...

Johanna Hagelberg, executive vice-president for biomaterials at Stora Enso said "The joint battery

development with Northvolt marks a step on our journey to serve the fast-growing battery market with renewable anode materials made from trees," She also added "Our lignin-based hard carbon, Lignode by Stora Enso, will secure the strategic European supply of ...

CarbonScape and biomass developer Stora Enso have announced plans to build a biographite demonstration plant in Kotka, southern Finland. ... Graphite makes up to 42% of the volume of a Li-ion battery, with the International Energy Agency (IEA) projecting a graphite supply deficit of 770,000 tonnes per year by 2030.

Proudly introducing Lignode™ by Stora Enso, the sustainable bio-based anode alternative for Lithium-Ion and Sodium-Ion batteries, traditionally made from mined or fossil-based materials. ...

About Stora Enso. Part of the global bioeconomy, Stora Enso is a leading provider of renewable products in packaging, biomaterials, wooden construction and paper, and one of the largest private forest owners in the ...

In addition to Stora Enso, the nominees were OiOi Collective Oy and Kuhmo-based wood product cluster Woodpolis. Part of the bioeconomy, Stora Enso is a leading global provider of renewable solutions in packaging, biomaterials, ...

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At Stora Enso, we believe that everything that is made from fossil-based materials today can be made from a tree tomorrow. As another proof of this, we produce bio-based carbon called Lignode™ by Stora Enso, used for sustainable electrification. Our aim is to meet the demands of the global battery market by developing renewable alternatives.

Both companies bring key components, competence and expertise to the battery partnership. Stora Enso will provide its lignin-based anode material Lignode, originating from sustainably ...

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