

What is Stora Enso & Northvolt?

Stora Enso and Northvolt are joining forces to create sustainable batteries using lignin-based hard carbon produced with renewable wood from the Nordic forests. The aim is to develop the world's first industrialised battery featuring anode sourced entirely from European raw materials, lowering both the carbon footprint and the cost.

What is Stora Enso doing with wood-based carbon for batteries?

This follows the company's EUR 10 million investment announced in 2019. Pilot production of Lignode by Stora Enso, wood-based carbon for batteries, is currently being ramped up. Applications include electric vehicles and consumer electronics, as well as large-scale energy storage systems.

What is Stora Enso?

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.

What is Stora Enso's lignode?

Pilot production of Lignode by Stora Enso, wood-based carbon for batteries, is currently being ramped up. Applications include electric vehicles and consumer electronics, as well as large-scale energy storage systems.

Where is Stora Enso lignin made?

Stora Enso's pilot plant for bio-based carbon materials is located at the Group's Sunila production site in Finland, where lignin has been industrially produced since 2015. The annual lignin production capacity is 50,000 tonnes, making Stora Enso the largest kraft lignin producer in the world.

What is lignin-based hard carbon (Lignode by Stora Enso)?

Our lignin-based hard carbon, Lignode by Stora Enso, will secure the strategic European supply of anode raw material, serving the sustainable battery needs for applications from mobility to stationary energy storage," says Johanna Hagelberg, Executive Vice President for Biomaterials at Stora Enso.

- 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

Altris, a Swedish developer and prototype manufacturer of sodium-ion batteries, and Stora Enso, a provider of renewable products in packaging, biomaterials and wooden construction, are partnering to drive the adaptation of Stora Enso's hard carbon solution Lignode (earlier post) as an anode material in Altris' sodium-ion battery

cells.. Altris" sodium-ion battery ...

STOCKHOLM (Reuters) -Battery maker Northvolt said on Friday it had agreed to buy the Kvarnsveden paper mill in Borlange, Sweden, from forestry company Stora Enso to turn it into a new factory.

Lignin is a polymer derived from the cell walls of dry-land plants. It can act as a natural and strong binder. As part of the collaboration, Stora Enso will supply its lignin-based anode material Lignode, while Northvolt will be responsible for the cell design, technology and production processes. Stora Enso Biomaterials executive vice-president Johanna Hagelberg ...

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 ...

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 world. We believe that everything that is made from fossil-based materials today can be made from a tree tomorrow.

Stora Enso and Altris Collaborate to Develop World's Most Sustainable Battery. June 6, 2024 - Stora Enso has partnered with Altris, a Swedish developer of sodium-ion batteries. The two companies aim to further advance the development and commercialization of a sustainable battery value chain in Europe. Together, the two companies will drive the ...

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 ...

STORA ENSO OYJ INVESTOR NEWS RELEASE 22 July 2022 at 08:29 EEST. ... Both companies bring key components, competence, and expertise to the battery partnership. Stora Enso will provide its lignin-based ...

Stora Enso and Altris collaborate to develop and commercialise world's most sustainable battery. 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. Together, the two companies will drive ...

Biomaterials supplier Stora Enso (Stockholm, Sweden) announced on July 21 that its pilot facility for producing lignin-based carbon materials has started operations and is ramping up production. Applications of ...

STORA ENSO OYJ INVESTOR NEWS RELEASE 22 July 2022 at 08:29 EEST. ... 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 managed forests, while Northvolt will drive cell design, production process development and ...

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The forestry group Stora Enso is preparing to sell 12 percent of its Swedish forest holdings. The company currently owns 1.4 million hectares of forest in Sweden. The sale is expected to reduce debt and thereby strengthen the company's balance sheet, according to a ...

Stora Enso's bio-based battery material Lignode™; by Stora Enso has won the Mets&#228;360 award in Finland. The EUR 30 000 prize, funded by the Marjatta and Eino Kolli Foundation was granted for the second time, was announced at the Lahti ...

Stora Enso has signed an agreement to divest its real estate of the Sunila site in Kotka, Finland, to AALTO Development Oy. AALTO Development is a F ... Stora Enso will remain in Sunila as a tenant, and the Lignode battery material pilot plant will continue its operations in Sunila. November 8, 2024 (press release) ...

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