



# Honduras stora enso battery

What is Stora Enso?

Stora Enso uses dry lignin to manufacture Lignode<sup>®</sup>; 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.

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.

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 Lignode<sup>®</sup> by Stora Enso?

Lignode<sup>®</sup> by Stora Enso is a hard carbon made from lignin - an existing by-product in the production of pulp. Stora Enso's aim is to develop the most sustainable anode material in the world - made from lignin. We are excited to be a part of the journey as a partner in the Polestar 0 project - aiming for a truly climate-neutral car by 2030.

How many employees does Stora Enso have?

Stora Enso has approximately 20,000 employees and our sales in 2023 were EUR 9.4 billion. Stora Enso shares are listed on Nasdaq Helsinki Oy (STEAV, STERV) and Nasdaq Stockholm AB (STE A, STE R). In addition, the shares are traded in the USA as ADRs and Ordinary Shares (SEOAY, SEOFF, SEOJF).

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 sustainably sourced batteries and supporting a European battery supply chain.

I would also like to receive news and updates, e.g. email newsletters and industry insights from Stora Enso. I consent to Stora Enso using my personal data for providing me more information. Your consent is voluntary. You may withdraw your consent at any time by unsubscribing using the unsubscribe link in every email or contacting Stora Enso as ...

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



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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 ...

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.

It should be noted that Stora Enso and its business are exposed to various risks and uncertainties and certain statements ... How a lithium-ion battery works electrifying, and sustainable solutions are needed o It is expected that close to 80% of new cars sold in Europe by

Lignode is developed in Stora Enso's pilot plant in Kotka, Finland. Stora Enso is currently upgrading the plant from a technical point of view. Today, the significant majority of battery materials are sourced from outside Europe. The partnership between Stora Enso and Altris aims to support the establishment of a European battery value chain ...

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 External 7/9/2021 3 (13) In the production of cellulose fibers, lignin is separated and usually just burned for energy. But why not put it to use instead since millions of tonnes of lignin is produced every year. By refining this material, we can turn it into hard carbon and replace graphite in the anode part of the battery.

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 ...

Swedish battery producer Northvolt, which has recently secured deals with Volvo, Volkswagen, and others, has teamed up with Finnish paper and pulp producer Stora Enso to produce a battery that ...

Stora Enso and Altris Unite to Drive Eco-Friendly Battery Solutions in Europe. Posted on 6, June 2024 by EuropaWire PR Editor | This entry was posted in Business, Energy, ...

Societies are built around electrification and batteries are everywhere. We need to find new and smart solutions to meet the demands of the future - solutions based on renewable materials. Stora Enso develops a bio-based battery material called Lignode by Stora Enso, made from trees.

Finnish-Swedish forestry firm Stora Enso, battery producer Ampere Technology and other parties have



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invested \$18-million in start-up CarbonScape to commercialise bio-graphite for use in batteries ...

Stora Enso Oyj (Helsinki, Finland) and Northvolt AB (Stockholm, Sweden) have entered into a Joint Development Agreement to create a sustainable battery featuring anode produced using lignin-based hard carbon produced from Nordic forest wood.. Stora Enso and Northvolt are joining forces to create sustainable batteries using lignin-based hard carbon ...

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 ...

In 2018, Stora Enso, in partnership with Lend Lease, delivered prefabricated sustainable wood for 25 King Street in Brisbane. At the time, the 10-story, 52-meter high office designed by Bates Smart was Australia's largest engineered timber building and likely the largest wooden office in the world. Only the basement and ground floor are ...

Stora Enso is joining forces with Volkswagen-backed battery developer Northvolt to produce lignin-based batteries. The source for the wood batteries will be from Nordic forests under sustainable management. Through ...

Olemme pakkaus-, biomateriaali- ja puuteollisuuden uusiutuvien tuotteiden johtava toimittaja. Lisäksi olemme yksi maailman suurimmista yksityisistä metsänomistajista.

Already, Stora Enso, through its Lignode technology, is investing heavily in replacing fossil-based anode materials in lithium and sodium-ion batteries with lignin (and cellulose), both potential game changers in ...

Markus Mannström, executive vice president of Stora Enso's Biomaterials division, said: "With our pilot plant now ramping up operations, Stora Enso is entering a new value chain in supplying more sustainable anode materials for batteries. With Lignode, we can provide a bio-based, cost-competitive and high-performance material to replace ...

Stora Enso is joining forces with Volkswagen-backed battery developer Northvolt to produce lignin-based batteries. The source for the wood batteries will be from Nordic forests under sustainable management. Through the partnership, Northvolt will be responsible for cell design, production process development, and scale-up of the technology.

Northvolt and Stora Enso have entered into a Joint Development Agreement to create a sustainable battery using lignin-based hard carbon produced with renewable wood from Nordic forests. Both companies bring key components, competence and ...

One of the largest private forest owners in the world, Stora Enso, recently built a production facility worth EUR10 million to create bio-based carbon by turning trees into batteries. Producing these wood batteries is ...



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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 ...

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 ...

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