

Is Stora Enso a sustainable battery?

Stora Enso and Northvolt 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.

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.

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 is 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.

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's lignin production capacity?

The annual lignin production capacity is 50,000 tonnes, making Stora Enso the largest kraft lignin producer in the world. The Group is also evaluating its first industrial production of Lignode at the Sunila site through a feasibility study. Northvolt is a European supplier of sustainable, high-quality battery cells and systems.

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 ...

The commercialisation of Stora Enso's lignin-based innovations is progressing.. In October 2022, we signed a Letter of Intent with Beyonder, a Norwegian energy storage technology company. The Letter of Intent covers optimisation of properties and commercial deliveries of lignin-based anode material for batteries after industrial-scale production has started.

o In October, Stora Enso decided to invest approximately EUR 1 billion to convert the remaining idle paper machine at the Group's Oulu site in Finland into a high-volume consumer board production line. The expected annual sales volume is approximately EUR 800 million. o In July, Stora Enso and Northvolt, the battery cells and

Pulp and lignin production at Stora Enso's Sunila Mill was discontinued in 2023. Since then, Stora Enso's priority for Sunila has been to find an owner that can bring new, profitable business operations and jobs to the site that has a well-working infrastructure and favorable location.

Stora Enso will remain a tenant at Sunila, ensuring the continued operation of its Lignode battery material pilot plant. "We are excited to have AALTO Development as the new owner for Sunila," said Tuomas Hallenberg, Stora Enso's Finland Country Manager and Executive Vice President of Forest Division.

- 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

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. Altris" sodium-ion battery technology is made from abundant raw materials and is free from conflict minerals and toxic elements, such as lithium, nickel and cobalt.

Stora Enso Oyj is preparing to invest about EUR100 million (\$110 million) in a pioneering project to use wood in electric vehicle batteries and offer an alternative to components currently made in ...

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Stora Enso, which closed its pulp production and lignin extraction operations at Sunila in 2023, is an investor in CarbonScape, alongside battery company ATL. Last September, CarbonScape secured \$18m (NZ\$29.08m) in funding to ...

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Swedish battery manufacturer Northvolt has signed a joint development agreement with Stora Enso to develop wood-based batteries. According to a company statement, the batteries will feature an anode created ...

Stora Enso's bio-based battery material Lignode[®] by Stora Enso has won the Mets[®]360 award in Finland. The EUR 30 000 prize, funded by the Marjatta and Eino Kolli Foundation and was granted for the second time, was announced at the Lahti Science Day on 18 November 2021. The jury concluded that the renewable and non-toxic Lignode, [...]

Finland-based Stora Enso is making a groundbreaking move towards sustainable energy solutions. The company is collaborating with Swiss battery maker Altris. They are exploring the use of Lignode, a derivative of ...

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, wooden constructions and paper. The company has some 23,000 employees and sales in 2020 were EUR 8.6 billion.

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