



Stora enso battery Solomon Islands

Will Stora Enso and Northvolt create sustainable batteries?

Stora Enso and Northvolt will create sustainable batteries using renewable wood from Nordic forests. Credit: Northvolt. Swedish battery manufacturer Northvolt has signed a joint development agreement with Stora Enso to develop wood-based batteries.

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 much lignin does Stora Enso produce a year?

The annual lignin production capacity is 50,000 tonnes and the Group is also evaluating its first industrial production of Lignode at the Sunila site through a feasibility study. Stora Enso and Northvolt are joining forces to create sustainable batteries using lignin-based hard carbon produced with Nordic wood.

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.

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.

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 scale-up of the technology.

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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.

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 possible by using a biomaterial known as lignin.

Northvolt, an European supplier of sustainable battery cells and systems will soon develop sustainable batteries with Stora Enso by making use of lignin-based hard carbon that is produced with renewable wood.

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