Volvo solid state battery

How will Volvo's new batteries work?
Volvo's current standardised-module batteries will be replaced by types giving a flat floor and then,by a third generation,dispensing with what Volvo calls "putting a box in a box" and becoming a structural part of the floor. To do that,the prismatic cells will be housed in aluminium and then glued together to form a sealed-for-life unit.

How can Volvo Cars reduce the carbon impact of batteries?
Volvo Cars has a clear strategy to further reduce the carbon impact of batteries by making better use of the valuable material contained in them. Wherever possible,it intends to remanufacture or reuse batteries,and is also investigating potential second-life applications,such as energy storage.

Will Volvo make a second-generation lithium ion battery in 2024?
Volvo hopes these improvements will give its second-generation battery,due in 2024,an energy density significantly above 700Wh per litre. The next step will bring more new materials into play up to pure-lithium anodes - the holy grail in terms of lithium ion battery development.

What is Volvo Car Group doing with Northvolt?
Earlier this month,Volvo Car Group announced a planned collaboration with Northvolt to develop and produce sustainable batteries. These will be tailored to power the next generation of pure electric Volvo and Polestar cars and secure a future supply of sustainable batteries needed to support growth.

Are battery-electric vehicles a sustainable solution?
Battery-electric vehicles and equipment are one part of an overall solution. We at Volvo Group see them as one part of a three-part sustainable propulsion offering - alongside electricity-generating hydrogen fuel cells , and combustion engines that run on non-fossil fuels. A battery's capacity is also a factor that needs to be considered.

Will Volvo Cars be able to increase energy density?
In the near term,Volvo Cars plans to work with leading Swedish battery company Northvoltto further increase the energy density in its battery cells by up to 50 per cent compared to what is on the market today.

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