

Devon-based clean technology group secures funding for EV battery decarbonising project

A Devon-based clean technology group has announced its partnership with Lunaz to develop an innovative and low carbon logistical solution for the safe transportation and discharging of end-of-life EV batteries.

Tavistock headquartered Altilium has secured funding from the Automotive Transformation Fund (ATF) for the project.

Altilium is currently the only company in the UK producing battery-ready cathode active materials (CAM) from spent EV batteries, at its Battery Recycling Technology Centre in Devon. Its partnership with Lunaz, an upcycling and vehicle electrification business, will see Altilium collaborate with engineers to develop a prototype upcycled electric HGV, specifically designed to transport end-of-life EV batteries, and capable of harvesting and running on electrical energy remaining in the batteries.

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This will enable their efficient, sustainable transport to Altilium's planned recycling facilities, with the lowest environmental impact, while also discharging them prior to recycling.

Kamran Mahdavi, chief executive of Altilium, said: "We're excited to be driving innovation and shaping the future of sustainable, low carbon battery raw materials with our partners at Lunaz, who are at the cutting edge of upcycling ICE vehicles into EVs. Millions of EV batteries will need to be transported by the next decade for recycling or a second

life and we are committed to developing low carbon logistical solutions that can cope with these high volumes of waste and support the development of a domestic circular economy for battery metals.”

Altilium plans to open the UK’s largest EV battery recycling plant in Teesside in 2026. The facility will have the capacity to recycle batteries from 150,000 EVs a year, producing 30,000 MT of Cathode Active Materials (CAM) for return and reuse in the EV battery supply-chain.

David Lorenz, founder and chief executive of Lunaz, added: “Lunaz is proud to have closed the circularity loop with this partnership, further strengthening the company’s position as a fully integrated clean-tech leader. By unlocking the power of upcycling, something we are now able to do at every stage of our unique process, we can provide even greater value and an ever-lessening carbon footprint.”

By upcycling existing vehicles, Lunaz allows fleet operators and governments to transition their industrial vehicle fleets to clean-air powertrains while reversing the ecologically damaging cycle of replacing-with-new.