

BatX Energies opens lithium battery recycling facility in Uttar Pradesh

The plant uses hydrometallurgical process to extract critical materials such as lithium, cobalt, nickel, and manganese from used lithium-ion batteries.

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UTTAR PRADESH



BatX Energies' lithium battery recycling facility in Uttar Pradesh

Image: BatX Energies

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BatX Energies has inaugurated its lithium battery recycling and critical minerals extraction plant in Uttar Pradesh. The plant uses hydrometallurgical process to extract critical materials such as lithium, cobalt, nickel, and manganese from used lithium-ion batteries. It is said to efficiently recycle all types of lithium-ion battery waste, including manufacturing rejects from future gigafactories.

The battery recycling plant follows the launch of BatX' first black mass production facility in Sikandrabad, Uttar Pradesh, in 2022, and scales operations to a commercial level after a successful 21-month industrial pilot.

"This transformative step in the downstream battery recycling value chain harnesses BatX's proprietary chemical process to extract high-purity critical materials, ideally suited for specialty applications and the lithium-ion cell manufacturing industry," said the company.

BatX Energies' new facility with a vertically integrated approach combines material extraction with the development of second-life energy storage applications, catering to batteries at any stage of their lifecycle. Operating with zero-emission, zero-waste processes, the facility is said to achieve exceptionally low energy consumption while meeting ESG targets. "This pioneering approach not only makes critical materials for EV batteries more affordable and accessible but also aligns effortlessly with the Ministry of Environment & Forest's Battery Waste Management Rules 2022," said the company.