

Lithium battery recycling

Cellcycle's state-of-the-art recycling process leverages advanced technologies to fully recycle used lithium-ion batteries efficiently. One of the standout innovations is the development of Bio-based process, a method that uses biological agents to extract valuable metals from battery material.

This environmentally friendly technique not only reduces the environmental impact of traditional recycling methods but also maximises the recovery of critical materials. While the specifics of the Bio-based process are proprietary, it represents a significant advancement in sustainable battery recycling.

By establishing one of the first industrial-scale lithium-ion battery recycling plant in the UK, Cellcycle aims to create a sustainable loop of battery production and recycling. This facility will play a crucial role in managing the lifecycle of vehicle batteries, ensuring that the materials used in their production are continually recycled and reused. This not only conserves natural resources but also reduces the environmental footprint associated with mining and raw material extraction.

Moreover, at Cellcycle, we believe this will produce economic benefits such as employment opportunities. It will also position the UK as a leader in the global battery recycling market, attracting investments and fostering innovation in the sector.

Cellcycle's initiative aligns with the principles of the circular economy, which emphasise the importance of reusing and recycling materials to minimise waste. By processing retired lithium-ion batteries, we will help create a closed-loop system where the materials recovered are reintroduced into the manufacturing cycle. This approach not only supports environmental sustainability but also enhances the security of raw material supply chains.

By establishing one of the UK's first industrial-scale lithium-ion sustainable battery recycling processes, we mark a significant milestone in the country's journey towards sustainable energy solutions.

By addressing the critical need for efficient recycling routes and leveraging innovative Bio-based technologies, Cellcycle is not only enhancing the recycling process but also contributing to the UK's net zero strategy and the government's electrification initiatives. We believe this pioneering venture is set to redefine the future of battery recycling in the UK, ensuring a more sustainable and resilient supply chain for valuable metals essential to the EV and energy storage industries.

Our project is proudly funded by Innovate UK, a leader in driving research and development innovation across the country. Through this support, we are able to push the boundaries of our field, fostering groundbreaking advancements and fostering economic growth. Through this support, we are able to push the boundaries of our field, fostering groundbreaking advancements and fostering economic growth.

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We understand that finding a reliable and cost-effective waste management provider can be a daunting task. Our panel of carefully selected providers offers a range of waste management services at competitive prices.

This service is particularly relevant for hospitality businesses that generate a significant amount of food waste, such as restaurants, cafes, and hotels. Food waste is collected separately from other waste streams and is typically sent for composting or anaerobic digestion, where it can be converted into renewable energy or nutrient-rich soil.

Glass is an incredibly common material and one that you're sure to have a lot of at your place of business, no matter what sort of industry you're in. The good news is that regardless of the kind of glass waste you generate, it's easy and very affordable to recycle it, so there's never any need for it to make its way to landfill.

General waste collection services are designed to handle non-recyclable waste, such as packaging, plastics, and other materials that cannot be recycled. This service is relevant for all types of businesses, including hospitality services.

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