

Australia's only effective solution for onshore battery recycling



The Envirostream story

Envirostream Australia Pty Ltd ('Envirostream') was established in 2017 to develop safe and innovative solutions for what is emerging as one of the greatest challenges, within Australia and globally, facing the waste management industry: that is, what to do with end-of-life batteries.

It's a pressing issue. Recent reports indicate that by 2036 the number of spent lithium-ion ('Li-ion') batteries entering the waste stream will grow by at least 300% annually.

With more than two decades of experience in the resource recovery industry, we have already seen at first hand the risks associated with shipping batteries offshore for recycling, not just in terms of the environment but also human safety. That's why we've developed safe, efficient management solutions for all types of spent batteries (and Li-ion batteries in particular) within Australia – and that's how Envirostream was born.

The Envirostream solution

At Envirostream, we're using innovation to create new processing methods for all types of spent batteries, including those that power the numerous portable devices so ubiquitous today. Our Australian-owned battery recycling facility in Victoria – which is fully enclosed and based on international best practice – was designed and built by the team at Envirostream.

The first of its kind in Australia, Envirostream's facility is equipped to recover the maximum amount of resources (~95%) from all types of spent batteries. Those resources are then returned to the manufacturing sector, with the active components of end-of-life Li-ion batteries – cobalt, nickel, lithium and graphite – subsequently used as raw materials in the production of new Li-ion batteries.

We aim for a truly circular, and therefore sustainable, battery economy.

As a proud member of the Australian Battery Recycling Initiative, Envirostream offers cost-effective, customised methods of battery collection, transport, sorting and processing ... meaning there's no longer any excuse for spent batteries to leave Australia or be consigned to landfill.

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The Envirostream system

Envirostream's revolutionary AS/NZS 4801:2001, AS/NZS 5377:2013, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 accredited modular processing technology, involving more than three years of intense research and development, is still evolving. We constructed it with efficiency in mind. Not only does the modular design allow line maintenance to be carried out without compromising processing ability but the system can also be duplicated anywhere in Australia. And for consignments of mixed battery types, we've developed an effective battery-sorting solution. At Envirostream, we're always one step ahead.

