Recycleye Robotics

Case study: Aluminium Line

Efficiency and value from automated AI-powered sorting.

Panda

Panda Ireland's Ballymount MRF is a dry mixed recycling facility, receiving co-mingled waste from around 400,000 homes in Dublin and the surrounding counties. The facility handles paper, plastics, aluminium and steel which are segregated and exported, to be repurposed into new products.

The company was looking for technology to help with plant efficiency and cost management at the MRF, and ways to deal with a shortage of available labour.

100,000 tonnes p.a.
Largest MRF in Ireland

400k homes
Co-mingled waste

Aluminium
QC automation

Solution

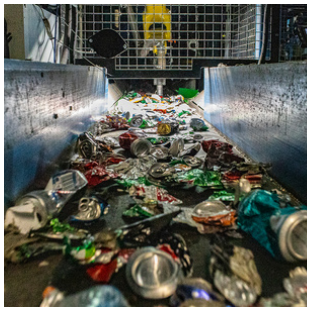
Panda chose to work with Recycleye to install a total of 4 AI-powered robots, the first of their kind in Ireland. The robots automate the MRF's QC function, with one installed on the aluminium line to deliver negative picking to remove contaminants and elevate the purity of the offtake produced.

Benefits

The complete installation, combining computer vision and robotic sorting, was carried out over two weekends, out of production hours and in-line with the MRF's schedule.

The Recycleye robotics solution has delivered a more accurate picking solution than manual labour where deployed. The robot has automated a previously manual job, with resulting cost savings.

98%
robot availability



1 x FTE
per shift replaced

> Robotics and automation are key to the future of waste management, bringing efficiency repeatability, and to reduce the manual labour we need to sort the materials.
>
> **Liam Dunne, Head of Project Management Office, Panda Ireland.**