

Endeavour Energy + Sircel: a powerful partnership



A holistic materials management solution
that supports our sustainability goals



OUR CHALLENGE:

Endeavour Energy has a big goal: to be waste-neutral by 2030.



One of the immediate challenges was how to divert from landfill the high volume of old streetlights that were being replaced in the light exchange program.

Across the network area in NSW, the Endeavour Energy field team were dismantling by hand the less efficient lamp heads and replacing the globes with new energy efficient LED lighting. The decommissioned materials were partially recycled or sent to landfill.

Endeavour Energy recognised the need for a solution that was measurable and efficient, and less labour- and time-intensive.

OUR APPROACH:

Endeavour Energy is always looking for ways to increase the sustainability of its initiatives. There was an opportunity to improve the recycling of replaced streetlights, as this process required hand dismantling and on-site separation of materials.

They partnered with Sircel to leverage their custom-built, mechanical recycling process to divert nearly 100% of materials from landfill.

Together, they developed an efficient program:

- 1 Endeavour Energy field team dismantle and send old streetlights to a depot
- 2 Sircel safely transfers materials to local processing stations for on-shore recycling
- 3 Plastic covers are removed and all materials are shredded, reduced to 1mm fractions in-house with our bespoke equipment
- 4 In-demand resources like copper are removed and fed back into the circular economy
- 5 Results are certified and reported back to key Endeavour Energy stakeholders

No challenge was insurmountable, with both partners working toward common resource regeneration goals. The program continues to grow.

OUR RESULTS:

Since May 2023, together Endeavour Energy and Sircel have achieved:

427 tonnes

of e-waste diverted from landfill

59,568

old streetlights upgraded to LED

99.35%

diversion of materials from landfill

Upgrades

across 19 service sites

Additionally,

- All processing takes place in one facility, saving time and optimising transport
- All recovered materials are reused in manufacturing, farming and production

Together, we are making
finite resources infinite.



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