

SUSTAINABILITY CASE STUDY

WASTE REDUCTION AND RECYCLING IN ACTION

We are aiming for “cradle to grave” sustainability from our sourcing and production to the decommissioning of our facilities.

LGI is committed to achieving the objectives of our Environmental Policy of having a positive impact on the environment, leaving our surroundings better than how we found them and providing a positive environmental outlook for generations to come.



**RENEWABLE ENERGY
GENERATED**
677GWh



BIOGAS CAPTURED
950 million m3



**WASTE OIL
REDUCTION**
30-50% reduction since
introducing SRS



RECYCLED FILL
LGI prioritise the use of
onsite recycled material for
biogas system installations

REDUCING WASTE

- Oil - pioneered and installed siloxane removal systems (SRS) on our power generation sites to reduce oil by 30-50%.
- Packaging - cardboard and timber is separated onsite at the waste management centres for recycling and/or re-use.
- Energy and consumables - our plant, equipment and fleet is new and well maintained to increase fuel efficiency and reduced consumables. We even have sensors on lights in our head office to reduce our power consumption.
- Fuel for mobile equipment - all our equipment uses AdBlue and meets Euro 6 standards to reduce nitrogen oxides (NOx) in the exhaust down into harmless elements before it's expelled from the engine.
- Electric Vehicles (EVs) - we have six (6) in our fleet and this is increasing as EVs become available for construction and operations purposes. Our Head office and workshop features 2 EV chargers with its rooftop solar.
- Embracing technology to reduce paper and travel - we are as paperless as possible and any printing we do is on recycled paper. Air travel is purchased with carbon offsets and road travel is captured in our Scope 1 emissions and offset 100%.

RECYCLING AND BENEFICIAL USE

- Power - we beneficially use the biogas from landfills to produce renewable energy on power generation sites to supply into the electricity system, for our own use and for any of our customers on site. Power purchased for our head office is 100% green and supplemented by our 30kW rooftop solar.
- Fill for construction - we use recycled materials sourced on site, including recycled concrete for foundations and roads. Recently we used recycled glass for biogas field construction works at the Bundaberg Regional Landfill..
- General waste - all sites separate organics and recyclables from general waste. The organics in our head office are processed onsite into compost which our green thumb employees lobby for to take home to fertilise their garden.
- Mulch - we source mulch on site to reduce erosion and weeds on our sites around the power stations and biogas flare installations and in the biogas fields.