

Why Energy from Waste is a better waste solution

Energy from Waste (EfW) is one of the ways we can solve the growing waste problem in Queensland.

Queensland generated approximately 10.25 million tonnes of waste in 2024–2025, a 4.5% increase on the previous year — significantly outpacing the state's 2.3% population growth over the same period.

Recovery rates for household municipal solid waste remain low, with less than one-third (about 28.2%) of household rubbish diverted from landfill. This rate has remained below 30% for several years. Targets set in 2019 by Queensland Government to recover more than 55% of municipal waste and 65% of commercial and industrial waste by 2025 have not been met.

With Queensland's waste volumes continuing to grow, landfills under pressure and recycling rates plateauing, Queensland faces a sustainability and infrastructure challenge.

We need better ways to manage our growing residual waste, recover valuable resources while we continue to increase recycling and other initiatives. For residual waste – the waste that can't be reused or recycled – EfW recovers energy (as heat and/or electricity) and valuable resources for reuse.

EfW will reduce landfill volumes preserving valuable landfill airspace, reduce greenhouse gas emissions and recover value from resources that would otherwise be lost.

We need to change the way we manage waste – we need to recover more, recycle more, reuse more and send less to landfill.

EfW is safe, diverts thousands of tonnes of waste from landfill, recovers valuable resources and generates electricity.

Why is the Bromelton Energy and Resource Centre good for the community:

- Process 760,000 tonnes per year of residual waste, reducing the volume of waste sent to landfill by up to 95%
- Reduces greenhouse gas emissions through avoided non-renewable energy generation, reduced landfill emissions (methane), and the recovery of recyclable materials that displace virgin material production
- Generates energy to power the facility and approximately 105,000 Queensland homes and businesses – this will be a reliable, baseload source of energy to support grid stability and network resilience
- Supports more recycling with approximately 180,700 tonnes of ash and recyclable metals recovered for recycling and reuse
- Applies proven emissions control technology to ensure no harm to the environment or people
- Will be a catalyst for local jobs and businesses – creating \$804 million in both direct and indirect local economic activity and 5,669 full time jobs over the life of the facility*
- The visitor and education centre will help build understanding and behaviour change around managing our waste and recycling
- Supports circular economy outcomes by recovering metals and bottom ash aggregate and potentially providing energy to local industry within the precinct.

*BDO Economic Analysis



Have questions or require translation support?

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For more facts about the Bromelton Energy and Resource Centre proposal and EfW visit our website.

Website: www.cleanaway.com.au/location/bromelton-energy-and-resource-centre