BROMELTON ENERGY & RESOURCE CENTRE

Powered by CLEANAWAY

Cleanaway plans to establish the ***Bromelton Energy and Resource Centre*** *to turn waste into energy and recover valuable resources.*

September 2025

This is our third community newsletter about the proposed Bromelton Energy and Resource Centre (BERC). In this issue, we give an update on what the facility will look like, how it will operate, the amount of waste that will be kept out of landfill and resources recovered. Details from a wide range of technical assessments are now available on our website and we invite you to talk to a team member at one of our community engagement events during September 2025. We want to hear about what aspects of the BERC are important to you. Your feedback is an important part of our planning.

Artist impression of the BERC at Lot 1 Beaudesert-Boonah Road, in the Bromelton State Development Area

Why do we need it?

Landfilling buries useful resources

By landfilling, we are burying useful materials and metals that could otherwise be used. We need to find a sustainable alternative to recover valuable resources.

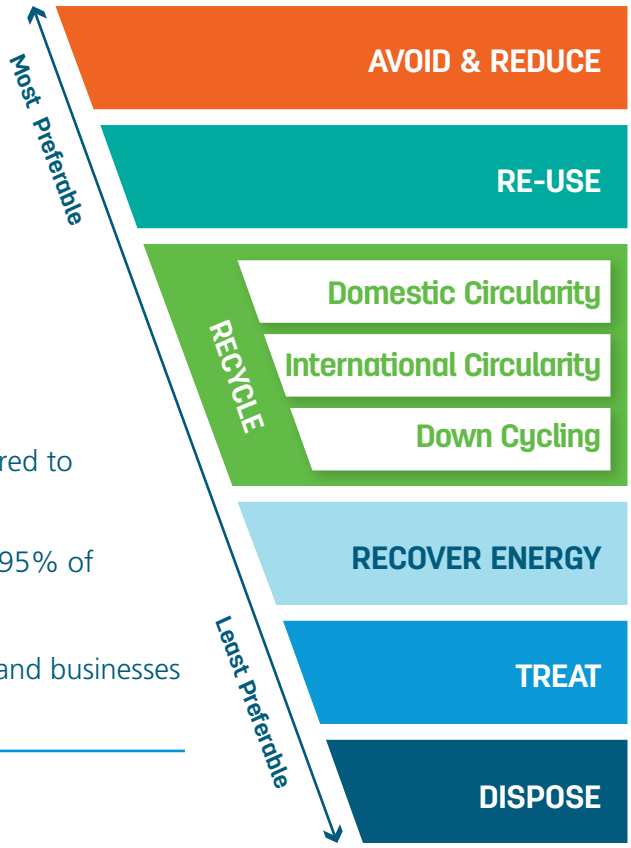
Growing need to reduce the volume of waste that ends up in landfill

Cleanaway supports the Queensland Government's strategy to reduce waste disposed to landfill. In 2017-18, Queensland produced nearly 11 million tonnes of waste, with the increase in waste generated over the last decade outstripping population growth by 19%.*

*Queensland Government Waste Management and Resource Recovery Strategy

To better manage waste in Queensland, we need to find ways to work at higher levels of the waste hierarchy. In addition to education on waste avoidance, reduction, and recycling facilities, Cleanaway is developing Energy from waste (EfW) as an alternative to landfill.

- ✓ EfW provides a sustainable, safe, alternative process to managing waste that cannot be recycled
- ✓ Energy recovery is higher in the waste hierarchy compared to landfill/disposal
- ✓ EfW is complementary to recycling and can divert over 95% of residual waste from landfill
- ✓ EfW produces electricity for the grid, powering homes and businesses

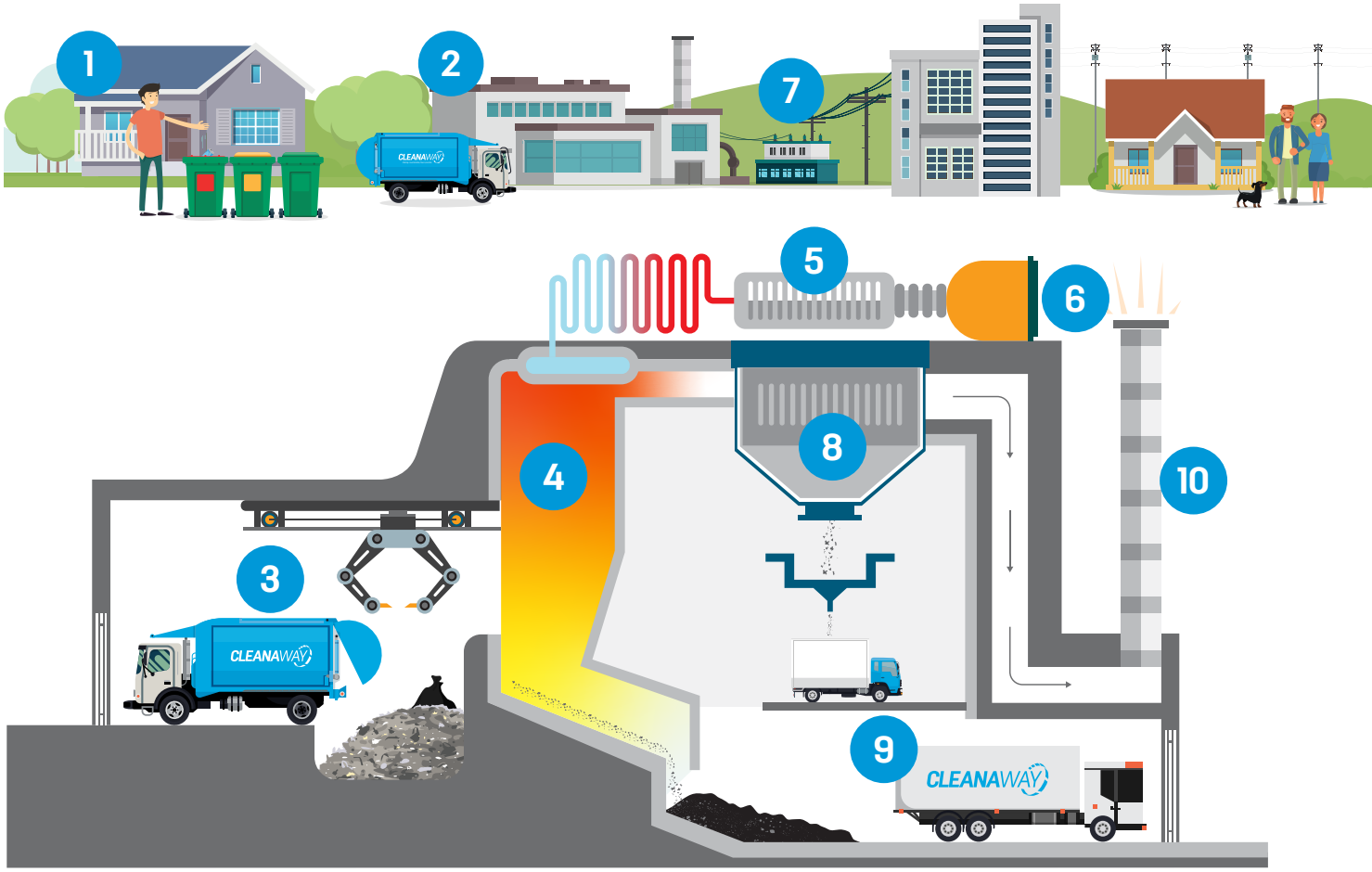


The BERC will:

- Reduce waste taken to landfill by 760,000 tonnes per year, or about 12% of the total waste sent to landfill in Queensland.
- Generate up to 73 megawatts of electricity which is enough to power more than 105,000 Queensland homes.
- Recover resources that can be reused. It is estimated that 16,700 tonnes of metals and 164,000 tonnes of construction aggregate will be recovered each year.
- Create approximately 800 jobs during construction and 50 jobs during operation.
- Benefit the local economy with many local business supplier opportunities.

How will it work?

The facility will use modern, proven combustion and air pollution control technology which has been continuously improved over the last 50 years. The BERC is designed in accordance with strict European standards and the Best Available Techniques Reference Document. It will also comply with the Queensland Government Energy from Waste Policy and supporting Guideline.



1. At home and work, we sort our waste into recyclable and non-recyclable items.
2. Before arrival at the energy from waste facility, residual waste that has been sorted at home and work is delivered to the facility.
3. In the bunker, waste is mixed, ensuring consistency, by large crane claws before placement into the combustion chamber.
4. Waste is combusted as it moves along a moving grate. The temperature in the combustion chamber reaches more than 850°C to ensure that waste combusts completely while also destroying organic pollutants and odour.
5. Water is heated during combustion creating steam which turns a turbine.
6. Baseload electricity is generated.
7. Electricity is put back into the grid and used to power homes and businesses.
8. Gases created during combustion pass through a multi-step flue gas treatment system, removing pollutants from the gases. Residues from the flue gas treatment are collected in a sealed system for treatment before disposal.
9. Bottom ash from the combustion process is collected and stored. Metals are recovered for recycling. It is intended that the remaining bottom ash is sent for reuse in construction.
10. Cleaned gases and steam are dispersed high into the atmosphere, mixing well to ensure no impact on surrounding air quality.

The BERC facility would be located within the Bromelton State Development Area (SDA), designated for high impact and hard to locate industries. The Queensland Government Coordinator-General assesses and decides all applications within the Bromelton SDA. The BERC planning application will be submitted to the Coordinator-General for consideration in early 2026. More public consultation about the proposal will occur after lodgment where the community can provide comments on the application to the Coordinator-General.

PROJECT TIMELINE*

2022
Property purchased in Bromelton SDA for Special Industry

2023
Project design, technical investigations, agency and initial community engagement

2024
Planning and technical assessments

2025
Establish Stakeholder Reference Group, community and stakeholder engagement, continued planning and technical assessments

2026 – 2028
Planning application lodged, public consultation, planning refinements and approvals, financial close, detailed design, procurement (subject to approvals)

2028 – 2032
Construction (subject to approvals)

2032 onwards
Operation (subject to approvals)

** The timeline for the project is indicative only and is subject to change*

COMMUNITY ENGAGEMENT

Visit our website for detailed information, fact sheets and an animated video of the facility. Fill in the online survey about aspects of the BERC that are important to you. Feedback on the proposal is important to ensure we are minimising impacts and maximising local opportunities and benefits. The project team will be out in the community during September. Visit us at one of these events to discuss the BERC proposal.

Trade stand at the Beaudesert Show, Friday 5 and Saturday 6 September 2025

Community information sessions at The Centre, Beaudesert

- ***Friday 19 September 2025, 5.45pm – 7.45pm***
- ***Saturday 20 September 2025, 10am – 12 noon***

We will also be holding an online information session for those who can't make it in person on Wednesday 24 September 2025, 5.45pm – 7.45pm.

RSVP for the community information sessions via the QR code:

For more information about the project and EfW technology and other facilities around the world, or to sign up for project updates visit our website.

HAVE QUESTIONS OR REQUIRE TRANSLATION SUPPORT?

Phone: 0438 887 569
Email: efw.bromelton@cleanaway.com.au
Website: https://www.cleanaway.com.au/location/bromelton-energy-and-resource-centre/

CLEANAWAY ARUP RAMBOLL therefor GROUP