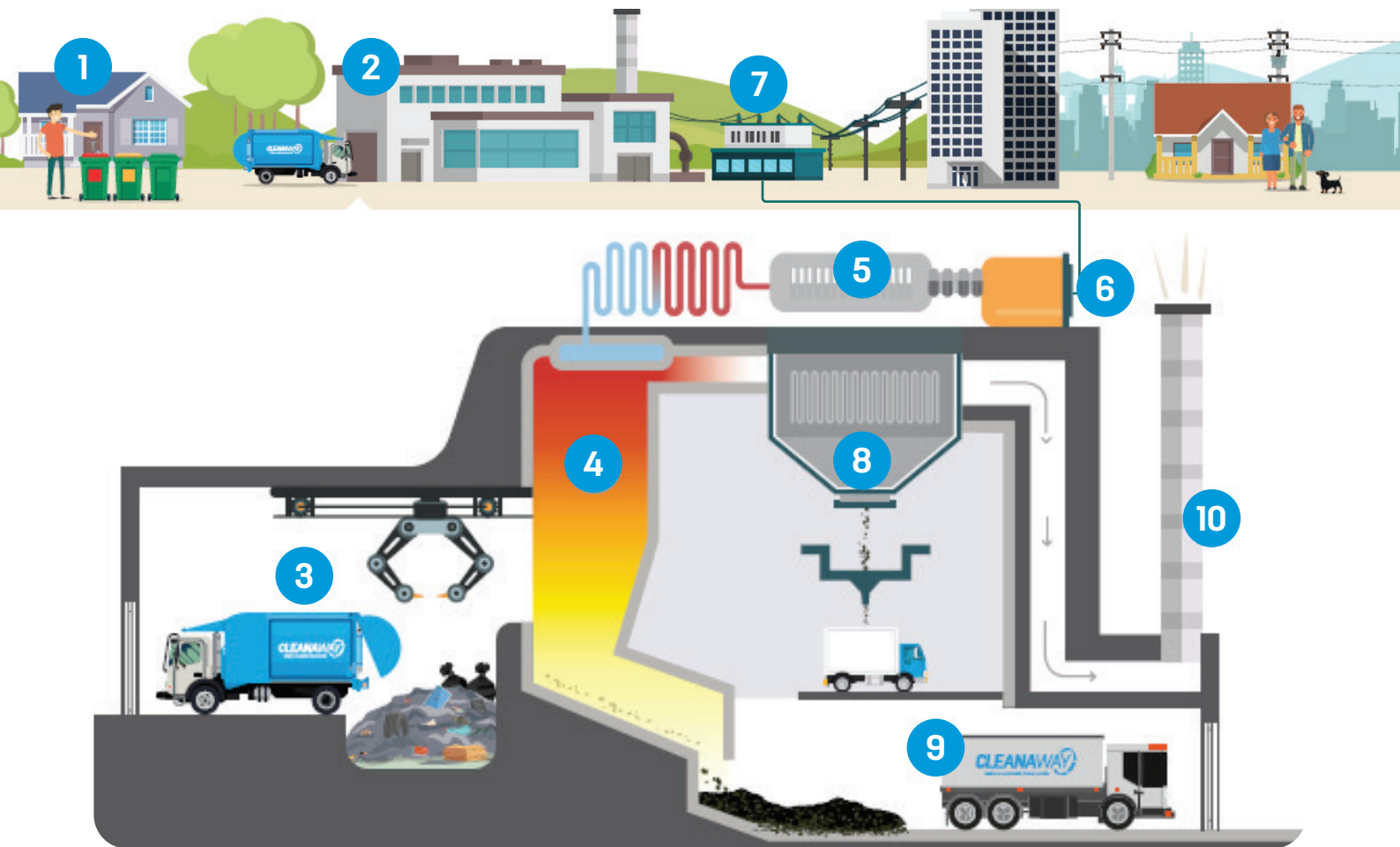


# How does it work?



- 1 At home and work, we sort our waste into recyclable and non-recyclable items.
- 2 The non-recyclable items in the general waste bins will be sent to the MERC.
- 3 In the bunker, waste is mixed, ensuring consistency, by large crane claws before placement into the combustion chamber.  
Waste is combusted for over an hour as it moves along the grate. This ensures that waste combusts completely. Flue gases are held above 850°C for at least two seconds to destroy organic pollutant and odour.
- 4 Water is heated in a boiler to recover energy from hot flue gas, creating steam that turns a turbine.
- 5 Electricity is generated.
- 6 Electricity is put back into the grid and used to power homes and businesses.
- 7 Gases created during combustion pass through a multi-step flue gas treatment system where lime and activated carbon are injected to remove pollutants from the gases. The solid residues and pollutant residues are collected in a sealed system for treatment before disposal.
- 8 Bottom ash from the combustion process is collected and stored. Metals are recovered for recycling, and the ash is sent for reuse in construction.
- 9 Cleaned gases are dispersed high into the atmosphere, mixing well to ensure no impact on surrounding air quality.
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