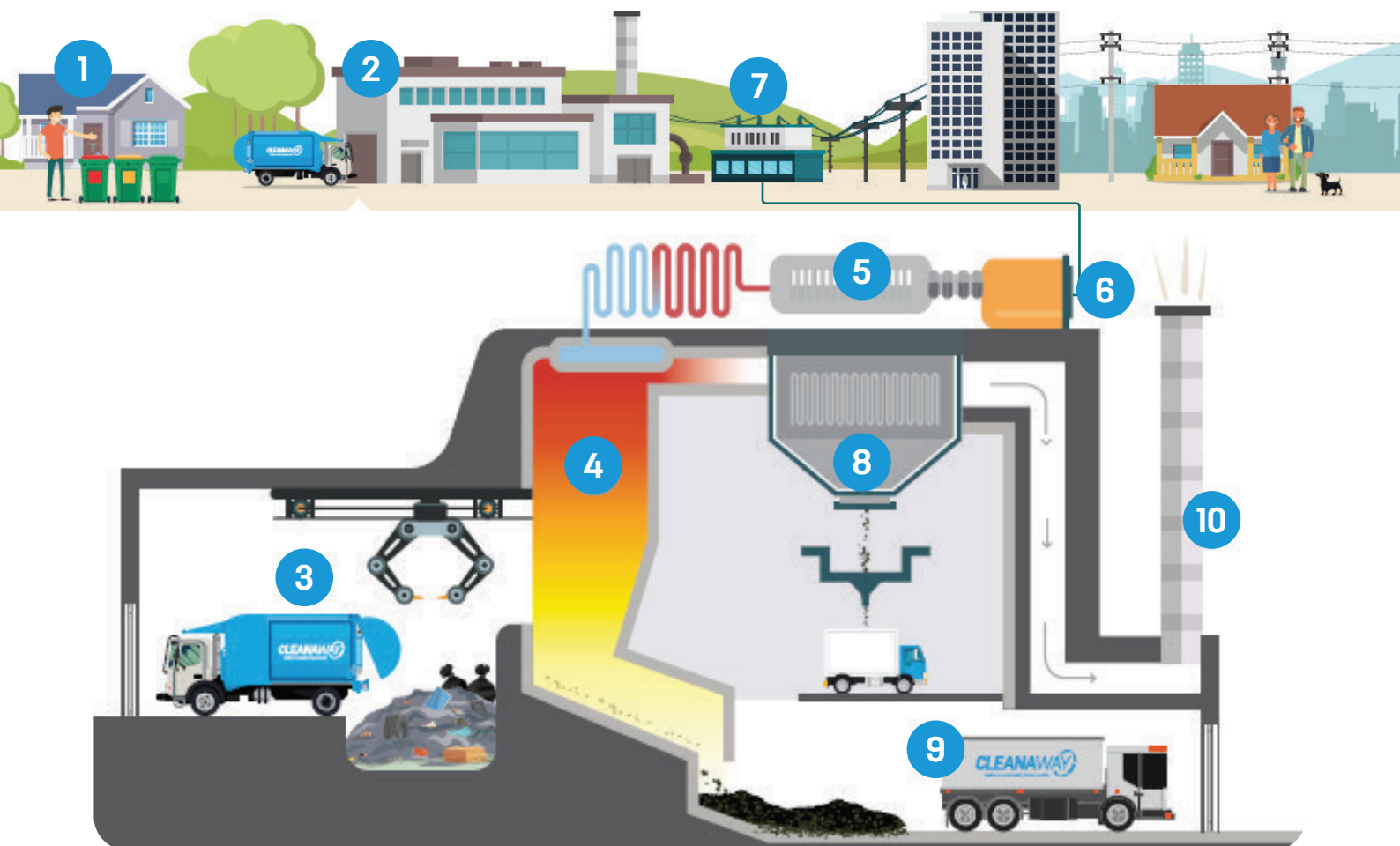


How does it work?



- 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.
- 4 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.
- 5 Water is heated in a boiler to recover energy from hot flue gas, creating steam that turns a turbine.
- 6 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 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.
- 9 Bottom ash from the combustion process is collected and stored. Metals are recovered for recycling, and the ash is sent for reuse in construction.
- 10 Cleaned gases are dispersed high into the atmosphere, mixing well to ensure no impact on surrounding air quality.