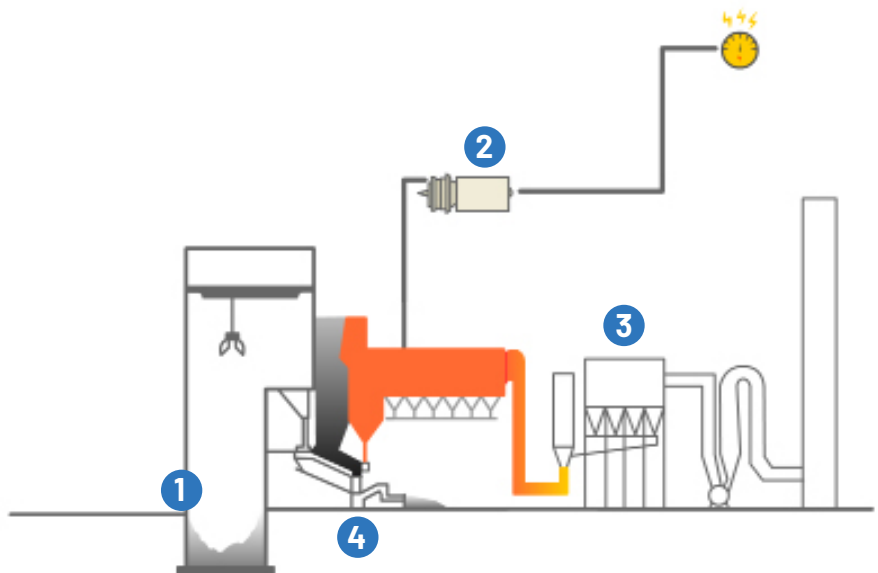


# Waste to energy technology snapshot



Not all rubbish is waste. A lot of what we send to landfill could be put to better use. Advanced waste processing solutions are proven technologies that recover valuable materials in household waste. They are used safely and reliably around the world—in Europe, North America and Asia.



## How waste to energy technology works

The most common types of advanced waste processing are waste to energy technologies, that transform household waste into energy and electricity, which can be used by industry and homes. One example is combustion technology.

- 1 In a combustion process, waste is burned to produce heat.
- 2 The heat is used to create steam that turns a turbine to produce electricity.
- 3 A combination of very high temperatures and sophisticated filter technologies eliminate harmful particles and emissions.
- 4 Metals are extracted and re-used to make new products. Some of the remaining ash is used in construction.

What's left over after processing goes to landfill, but it's a lot less, which decreases greenhouse gas emissions from landfill and is better for the communities that live nearby.

Modern advanced waste processing facilities are highly regulated and inspected frequently. They have high safety track records and are designed to meet strict emissions standards.

Alongside recycling and separating green and food waste for composting, advanced waste processing is a smarter solution for household waste.

Read the [About advanced waste processing fact sheet](#) to learn more about how waste to energy technology works.