


# Energy From Waste Fact Sheet

## What is Energy from Waste?


In the UK over 15 million tonnes of non-recyclable waste goes to landfill or is shipped abroad for disposal every year.

 At Energy from Waste sites, rubbish is burnt in a controlled way in a furnace.



Water in a boiler is heated by the heat from the furnace to up to 420°C which produces steam.




 The steam then works to turn a turbine to generate electricity.



The gases emitted in the process are monitored by the Environment Agency to make sure they do not go over strict limits.



 Energy produced by the waste treatment process is fed back into the national grid.

By preventing waste from going to landfill, EfW reduces greenhouse gas emissions, particularly of methane.



**MVV**  
Plymouth



Waste processed / year **200,000t**

Bottom ash recycled / year **57,000t**

Homes powered / year **37,000\***

## Energy from Waste Plants in Devon

**Viridor**  
Exeter



Waste processed / year **60,000t**

Bottom ash recycled / year **10,350t**

Homes powered / year **6,624**

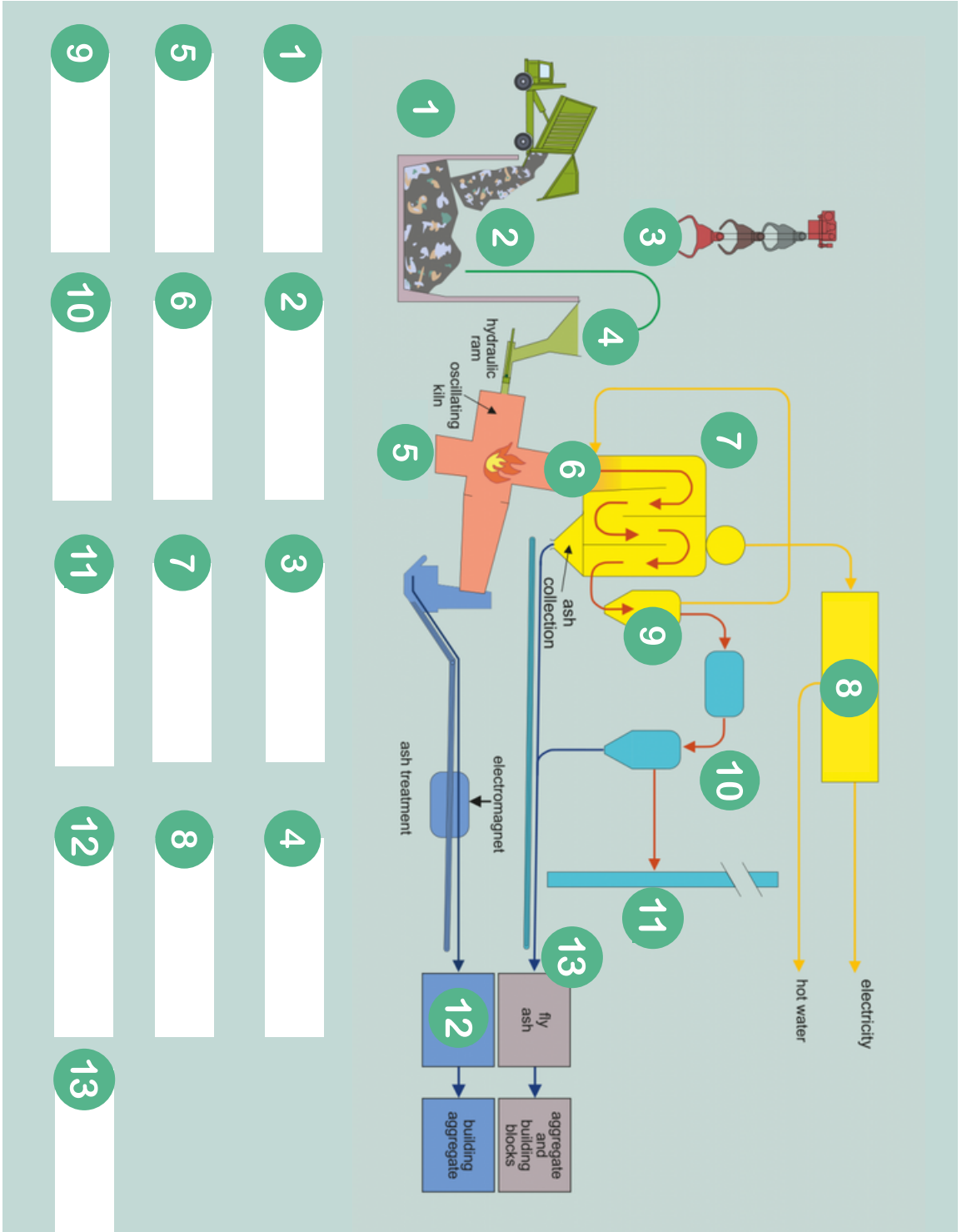
\* Most of the heat and electricity from the MVV goes to the Naval Base in Plymouth





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Now test your knowledge and fill in the blanks



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|---|----|----|----|
| 1 | 2  | 3  | 4  |
| 5 | 6  | 7  | 8  |
| 9 | 10 | 11 | 12 |
|   |    |    | 13 |

**Missing words:** Emissions control, Feed hopper, Bottom ash, Waste bunker, Generator, Stack, Air Pollution Control Ash, Post combustion chamber, Tipping hall, Economiser, Emissions control, Combustion chamber, Boiler.