



Picture credits: top left: WtE plant in Dublin, Ireland, by Claudia Pop, Unsplash; top right: WtE boiler maintenance by courtesy of Andritz; bottom: waste bunker in Ferrybridge WtE plant, UK, by Rose Galloway Green, Unsplash

Waste to Energy

The World Market for WtE Plants 2025/2026

Extract

18th edition, 2025

ecoprogram GmbH

Waste to Energy 2025/2026

The leading standard reference for the global WtE industry. The 18th edition includes:

- Analysis of more than 3,000 WtE plants and 1,300 projects worldwide
- Global market outlook 2025–2034, including new installations, shutdowns and investment volumes
- Country-level analyses for more than 50 key WtE markets, covering market factors, trends, existing plant assets and project pipelines
- Overview of key operators and technology providers, including market shares
- Investment and operating costs, revenues, and exemplary project calculations

In addition, the study includes 1-year access to **ecoprogram's waste & bio Data** (WtE module). The online database contains details on all plants and projects, including capacity, status, start of operation, technology and more. This also includes the weekly updated BtE Project Tracker and a list of active plants.

The study is available starting from **4,100.– €** (net).

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[waste & bio Data, trial version](#)



[Order form with pricing information](#)

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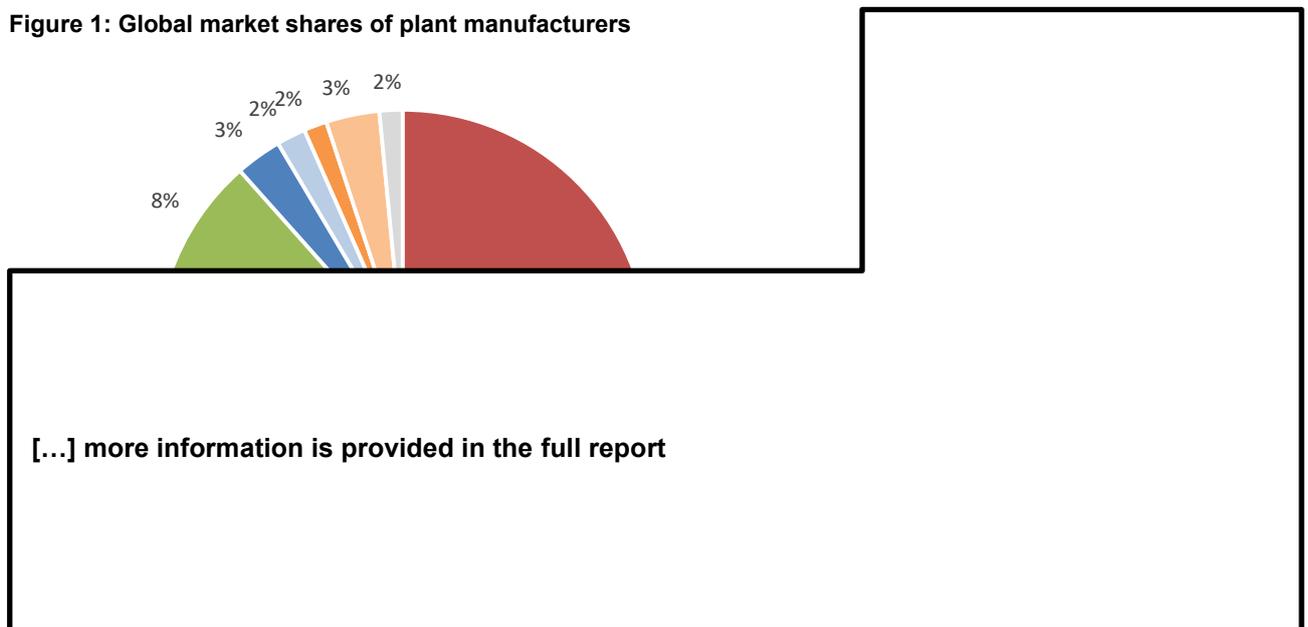
4.2 Technology provider segment

WtE technology provider usually refers to the stakeholder that manufactures and offers the combustion (or gasification) technology used in a WtE facility. In many cases, this stakeholder is the EPC (Engineering, Procurement, Construction) contractor for a given project as well, and sometimes even the future operator.

An EPC contractor (Engineering, Procurement, Construction) is responsible for the implementation of the entire project. However, the models of how to implement a WtE project vary. In some traditional markets such as Germany or Switzerland, there often is no EPC contractor and a WtE project is awarded in individual lots, while the operator remains responsible for project implementation overall. In that case, the combustion technology is awarded to a technology provider in a single lot.

[...]

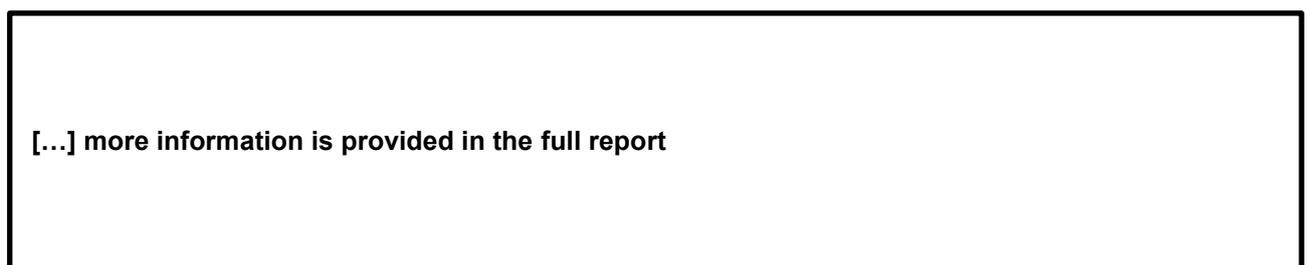
Figure 1: Global market shares of plant manufacturers



In Europe, current technology providers of WtE technology mainly arose from medium-sized and family-run engineering firms. These firms developed in regions in which the roots of WtE developed, amongst others in Switzerland, Germany and Scandinavia. These included many companies that are well known today such as [...]

However, a concentration process has led to a situation in which one player is dominating the market [...]

Figure 2: Market shares of plant manufacturers in Europe



Thailand

Last update: 12-2025

| | | | |
|--|--------|--|-------|
| Population [million] | 67.0 | Number of WtE plants | [...] |
| Total amount of MSW [1,000 t] | 27,200 | Total WtE capacity [1,000 t/a] | [...] |
| Amount of MSW, thermally treated [1,000 t] | - | Average age of WtE units | [...] |
| Electricity from waste 2023 [GWh] | 1,130 | Waste share in total electricity generation 2023 [%] | 0.6 |
| Heat from waste 2023 [TJ] | - | Waste share in total heat generation 2023 [%] | - |

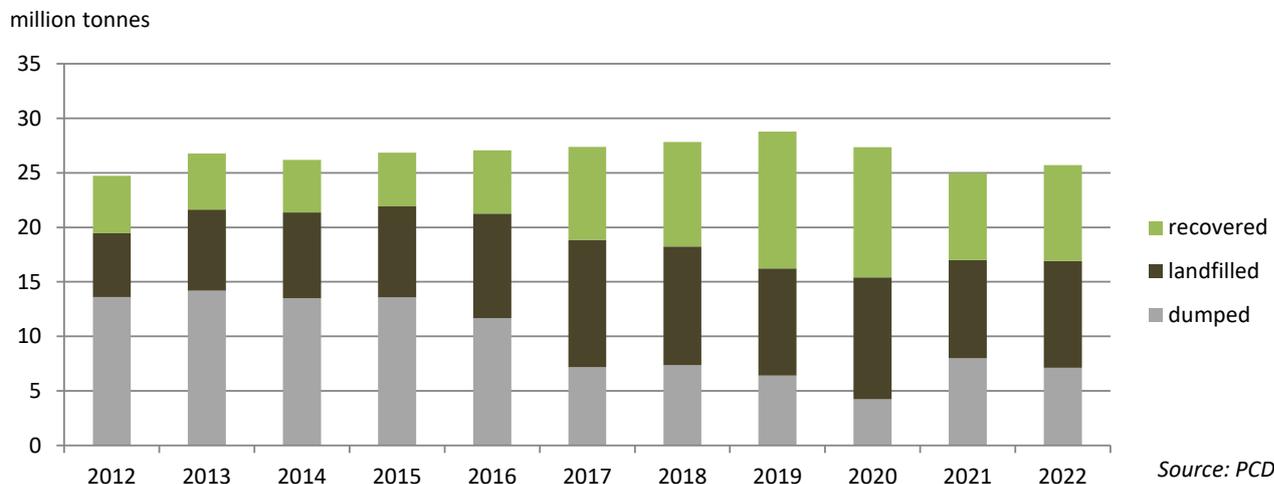
Management summary

Thailand faces a WtE boom that is stimulated by ambitious WtE development targets and auctions. This progress is also supported by low-cost solutions of Chinese and Southeast Asian technology providers. We expect a constant development of new capacities in the years to come.

Background, market factors and legal framework

In Thailand, the recovery of waste has increased in the recent years, but a large share continues to be landfilled or dumped illegally. This is partly due to improper waste management systems and infrastructure.

Figure 3: Shares of municipal solid waste disposal in Thailand



[...]

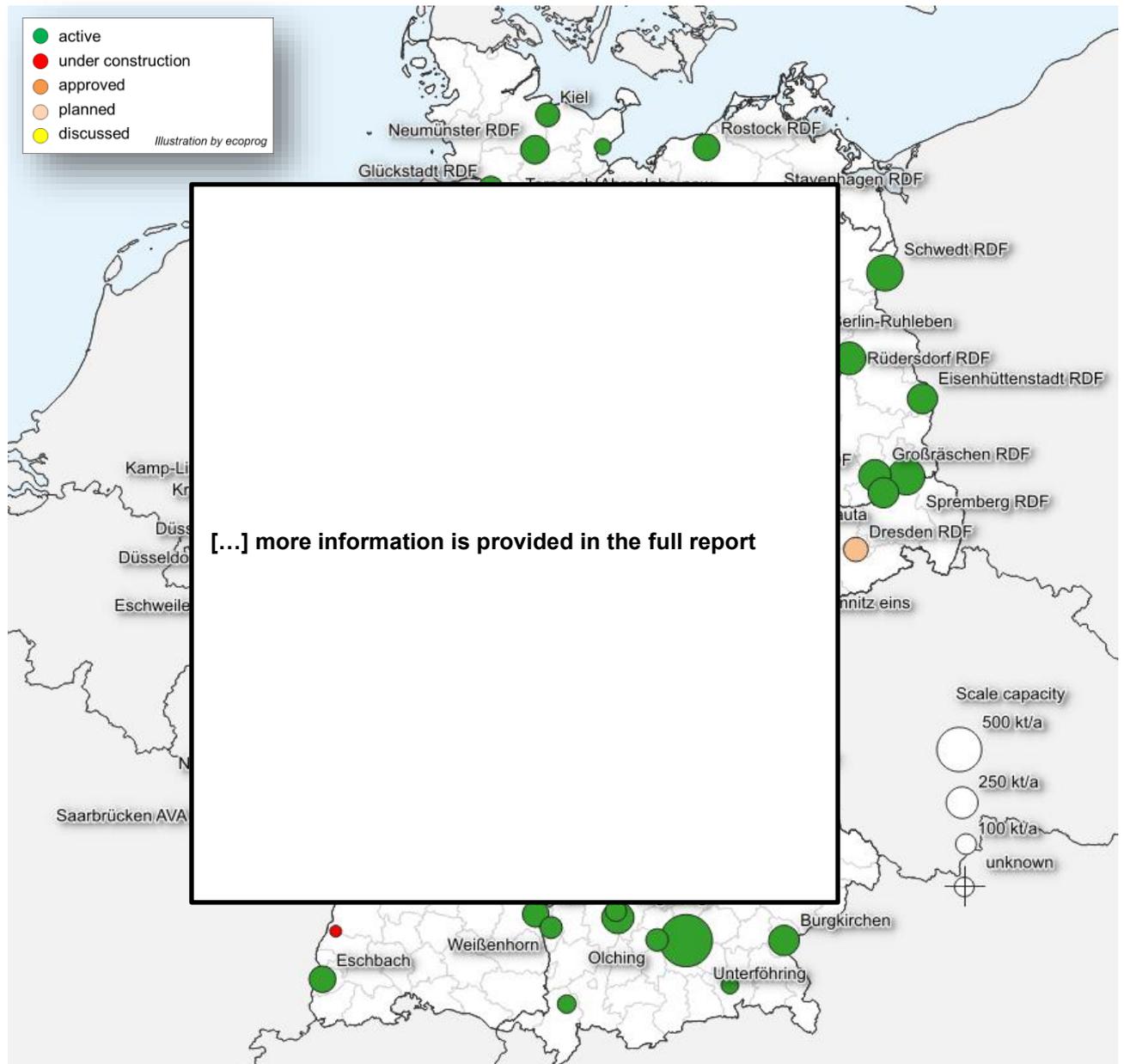
Waste management in Thailand is governed by a framework of national laws, regulations, and policy plans, led by the Ministry of Natural Resources and Environment and implemented primarily through the Pollution Control Department.

Plant asset

For Germany, we currently list [...] waste incineration plants with a total capacity of about [...]

Many plants were commissioned towards 2005, in the course of introducing the landfill ban, when there had not been sufficient capacities. This was especially true for pre-treated waste from commercial sources and MBT plants. However, some German conurbations and regions, especially in the southern part, had already incinerated waste before the EU Landfill Directive was transposed into national law and implemented in practice [...]

Figure 4: Map of plants and projects in Germany



For better visibility, only projects/plants ≥100 ktpy are labelled

Market development

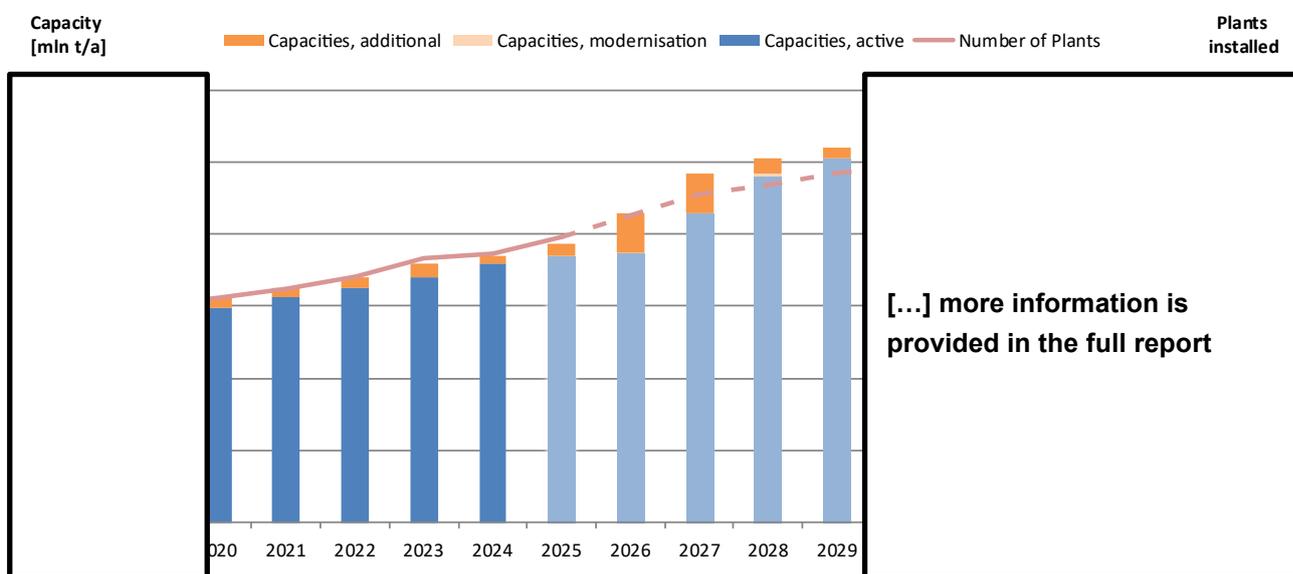
We currently list a total of [...] projects in different development phases with a cumulated capacity of about [...]

The main market drivers are the continuously increasing landfill tax and the MSW that is still being landfilled in the UK.

[...]

In our forecast, we have considered all the projects currently under construction as well as several of those that have already secured approval or at least planning permission. We expect large parts of the UK's WtE market to become saturated around 2028/2029, with development slowing down afterwards.

Figure 5: Market forecast UK



Data estimated up until 2024 and forecasted from 2025 onwards, source: ecoprogram

Figure 6: Project outlook United Kingdom

| # | Project | Plant / Unit* | Capacity (tpy) | Start | Status |
|-------|-------------------------|---------------|----------------|-------|--------------------|
| 1 | Binn Farm | Plant | 88,320 | 2026 | under construction |
| 2 | Bridgwater RDF | Plant | 130,000 | 2026 | under construction |
| 3 | Drumshangie | Plant | 300,000 | 2026 | under construction |
| 4 | Ellesmere Port Encyclis | Plant | 500,000 | 2026 | under construction |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| [...] | | | | | |

[...] more information is provided in the full report

Active Plants

You can find further information on all plants, such as specifications on technical equipment, manufacturer, or fuel for 12 months at <https://ecoprogram.com/plants/overview?type=wte>. This database is updated every week. Please use your login credentials to access the database.

| # | Name | Operator | Start | Capacity [tpy] | Units |
|-------|------------------------|--------------------------------------|-------|----------------|-------|
| 1 | Abilene | n/a | 2012 | 42,000 | 1 |
| 2 | Alexandria (Minnesota) | Pope-Douglas Joint Solid Waste Board | 1987 | 64,512 | 3 |
| 3 | Alexandria (Virginia) | Covanta Alexandra/Arlington, Inc | 1988 | 288,000 | 3 |
| 4 | Almena | ZAC, Inc. | 1986 | 31,949 | 2 |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| [...] | | | | | |

[...] more information is provided in the full report

ecoprogram's [waste & bio Data](#) – please find a trial version [here](#).



< 1/1 >

Category

- 1 Waste-to-Energy**
- 2 MBT plants
- 3 Sorting Plants
 - 3.1 Dry Recyclables
 - 3.2 Packaging
 - 3.3 Plastics
 - 3.4 Metal
 - 3.5 Paper
 - 3.6 Glass
 - 3.7 Bulky Waste
 - 3.8 Batteries
 - 3.9 E-Scrap
 - 3.10 Construction & Demolition
 - 3.11 Other Sorting Plants
- 4 Recycling plants
 - 4.1 Plastics, material
 - 4.2 Plastics, chemical
 - 4.3 Paper
 - 4.4 Other Recycling Plants
- 5 Biomass-to-Power
- 6 Anaerobic digestion
- 7 Hazardous waste

Plant

| | |
|--------------------------------|----------------------|
| Name | Amsterdam |
| Country | Netherlands |
| Type | Waste to Energy |
| Province/Region | North Holland |
| Status | active |
| Investments | n/a |
| Start of operation | 1993 |
| Heat use category | district heating CHP |
| Input, capacity [t/a] | 1,350,000 |
| Input real | n/a |
| Input real (year of data) | n/a |
| Power generation capacity [MW] | 77.0 |
| Heat production capacity [MW] | 5.1 |
| Gross heat production [MW] | n/a |
| Average heating value [kJ/kg] | 9,700 |
| Fuel category | unknown |
| Size category | >20 |

Remarks: 09/25: Maintenance contract tendered, valued at EUR 19 million, encompasses the maintenance of dosing valves, combustion grates, hydraulic systems, and conveyor components. 02/25: The City of Amsterdam confirmed that AEB will remain publicly owned for the next 10 years. 04/24: New sales process for AEB has started. 05/23: The takeover of Afval Energie Bedrijf (AEB) by Rotterdam-based AVR Afvalverwerking (AVR) has been blocked by the Netherlands Authority for Consumers and Markets (ACM). 05/22: AEB will receive EUR 80 million per year subsidies for its proposed use of CCS. 04/22: 200,000 t RDF supply by Andusia for one year. As of 10/2020 maintenance works have been completed: hoppers and their cooling systems and new slag shafts.

Unit 1

| | |
|--|---|
| Status | active |
| Start of operation | 1993 |
| End of operation | n/a |
| Year of awarding | n/a |
| Input tons per hour | 26 |
| Unit fuel | Household waste, Commercial/Industrial waste, Sludge, Hospital Waste |
| Fuel category | MSW |
| Technology | Feeder grate |
| Main steam production at t/h at bar/°C | - / 43 / 430 |
| Flue gas cleaning technology (FGCT) | Electrostatic Precipitator / Semi Dry Scrubbing / Wet Scrubbing / Active Carbon / Selective Non Catalytic Reduction |
| FGCT provider | LAB |
| Technology provider | W + E |
| Type of thermal process | Grate |

Search

Amsterdam

Country

Search

Downloads

- [1 | WtE Project Tracker](#)
- [1 | WtE, List Of Active Plants](#)