



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

Leseprobe

18th edition, 2025

ecoprolog GmbH

Waste to Energy 2025/2026

Das führende Standardwerk der Branche zur thermischen Abfallbehandlung. Die 18. Ausgabe enthält:

- Analyse von weltweit mehr als 3.000 WtE-Anlagen und 1.300 Projekten
- Globale Marktprognose 2025–2034, einschließlich Zubauten, Stilllegungen und Investitionsvolumina
- Länderspezifische Auswertung von mehr als 50 der wichtigsten Märkte, inklusive Marktfaktoren und Fördersysteme
- Beschreibung und Marktanteile der wesentlichen Betreiber und Technologieanbieter
- Investitions- und Betriebskosten sowie Umsatzanalyse eines Beispielprojekts

Darüber hinaus erhalten Sie **ein Jahr Zugang zu waste & bio Data** (WtE-Modul).

Die wöchentlich aktualisierte Online-Datenbank enthält detaillierte Informationen zu allen Anlagen und Projekten, einschließlich Kapazität, Status, Inbetriebnahme, Technologie und mehr. Zusätzlich haben Sie Zugriff auf den wöchentlich aktualisierten Projekttracker sowie eine stets aktuelle Liste der aktiven Anlagen. Der vollständige Datensatz kann optional im Excel-Format erworben werden.

Die Studie ist in englischer Sprache ab **4.100,- €** zzgl. MwSt. erhältlich.

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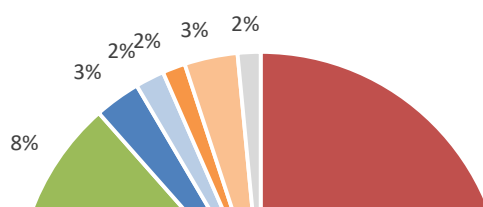
4.2 Technology provider segment

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



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

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

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

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 [%]	-

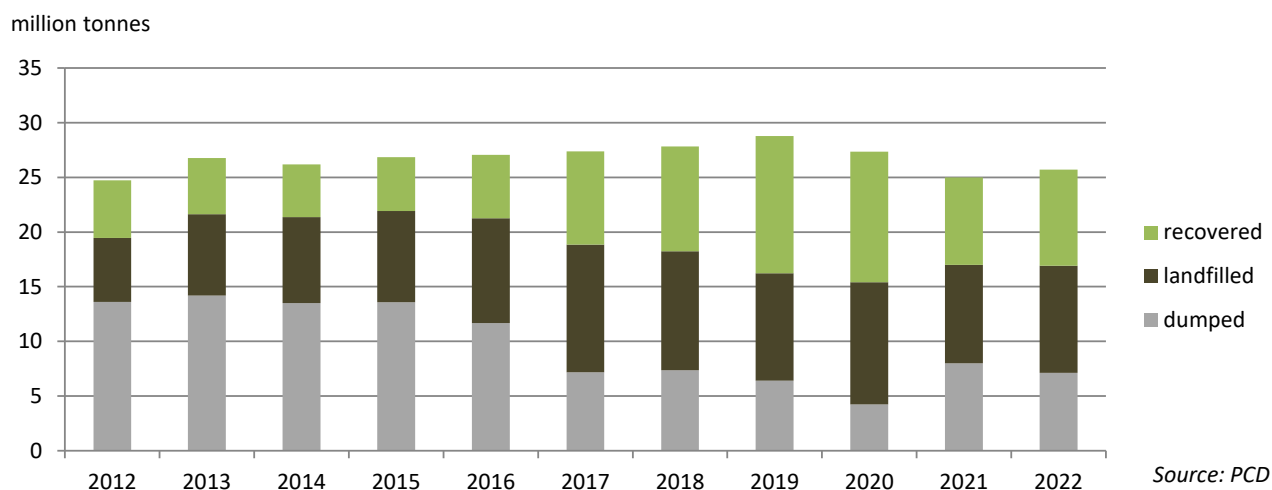
Management summary

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



[...]

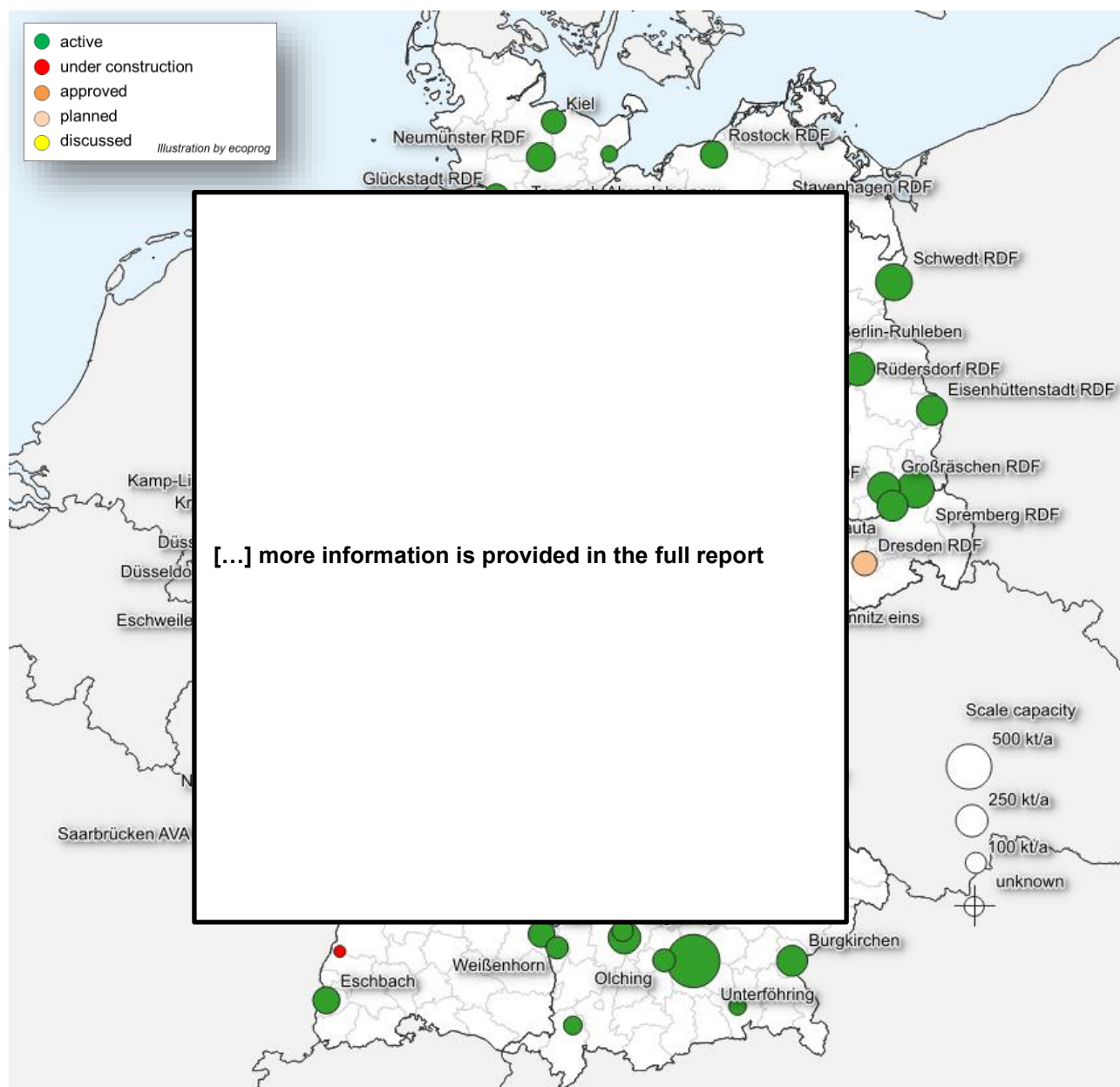
Waste management in Thailand is governed by a framework of national laws, regulations, and policy plans, led by the Ministry of Natural Resources and Environment and implemented primarily through the Pollution Control Department.

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

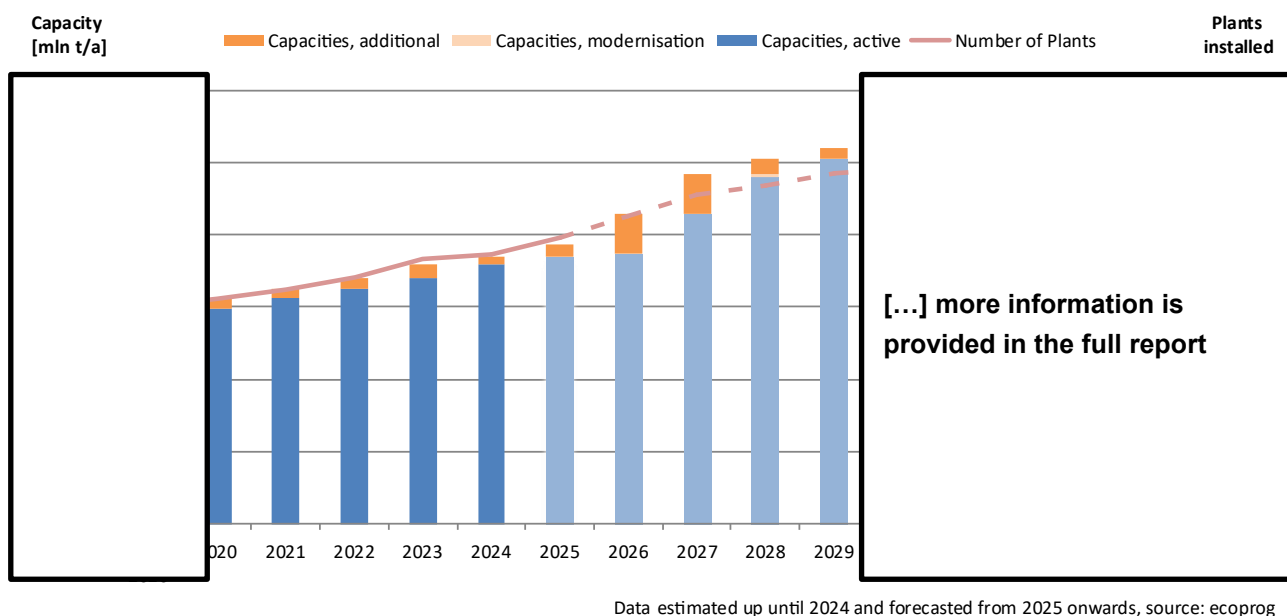


Figure 6: Project outlook United Kingdom

#	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	[...] more information is provided in the full report				
6					
7					
8					
[...]					

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	[...] more information is provided in the full report				
6					
7					
8					
[...]					

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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

Country

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