



Jord & Affald
J.nr.
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Danish municipal solid waste incinerators with R1 status

According to Annex II of the Waste Framework Directive Article 3, number 15 and Annex III, entry R1 and its footnote *, incineration facilities dedicated to the processing of municipal solid waste (MSW) can be classified as recovery operations (R1) only where their energy efficiency is equal to or above:

- 0.60 for installations in operation and permitted in accordance with application Community legislation before 1 January 2009
- 0.65 for installations permitted after 31 December 2008, using the following formula:

Energy efficiency = $(E_p - (E_f + E_i)) / (0.97 \times (E_w + E_f))$, in which

E_p = annual energy produced as heat or electricity. Heat produced for commercial use is multiplied by 1.1 and electricity is multiplied by 2.6.

E_f = annual energy input to the system from fuels contribution to the production of steam

E_w = annual energy contained in the treated waste

E_i = annual energy imported excluding E_w and E_f

0,97 is a factor accounting for energy losses due to bottom ash and radiation.

The Danish Environmental Protection Agency confirms that the MSW incinerators listed in Annex A to this document can be classified as R1 plants according to the above formula-requirement. This classification only applies in so far as the plant incinerates non-hazardous waste. Incineration of hazardous waste, either in MSW incinerators or in plants dedicated to incineration of hazardous waste is still considered a D10 operation.

The annex will be updated and reviewed regularly or when considered justified, inter alia by new information.

The listing of a plant in Annex A to this document does not in any way effect the requirements under and application of Regulation 1013/2006 on shipments of waste with respect to the listed plants or waste destined for incineration at the listed plants.


Dorte Hermansen, Head of Division

Annex A Danish MSW incinerators with R1 status. Plants not listed in this annex may still be classified as R1 plants, as for the time being only members of *waste denmark* (an association of stakeholders in the waste treatment sector in Denmark) are included in the list.

Name	Location
Amagerforbrænding	Kraftværksvej 31, 2300 København S
Haderslev kraftvarmeværk	Dybkær 2, 6100 Haderslev
Horsens kraftvarmeværk	Endelavevej 7, 8700 Horsens
Kraftvarmeanlæg Århus Nord	Ølstedvej 20, 8200 Århus
Måbjergværket	Energivej 2, 7500 Holstebro
Odense Kraftvarmeværk	Havnegade 120, 5000 Odense C
Reno-Nord	Troensevej 2, 9220 Aalborg Ø
Vestforbrænding	Ejby Mosevej 219, 2600 Glostrup