

National Waste Capacity Report for Scotland 2008

National capacity report for Scotland - 2008

1. Introduction

This paper presents the numbers and capacities of all waste management sites licensed or permitted by the Scottish Environment Protection Agency (SEPA) in calendar year 2008. This covers sites that were that were operational (actively handling waste) and non-operational (not actively handling waste) in this year. This paper is intended as a snapshot of waste tonnages accepted at waste management facilities and the available annual capacity of waste management facilities in Scotland in 2008.

Detailed site by site information is available in the National Capacity Spreadsheet 2008 that accompanies this report:

http://www.sepa.org.uk/waste/waste_data/site_capacity_infrastructure/national_capacity_reports.aspx

The remaining capacity of landfill sites is available from the Landfill Capacity Report for Scotland, 2008:

http://stir-app-net02/SepaWebsite/waste/waste_data/site_capacity_infrastructure/landfill_capacity_reports.aspx

Waste data information is available on SEPA's website:

http://www.sepa.org.uk/waste/waste_data.aspx

2. Types of waste management sites

This paper considers the numbers and capacities of the following site types:

- Landfill (open)
- Landfill (closed/restoration)
- Energy from Waste (EfW) plant / Incinerator
- Civic amenity site¹
- Metal recycler (includes End of Life Vehicle and Authorised Treatment Facilities)
- Transfer station
- Pet cemetery/crematorium
- Composting site
- Anaerobic digestion plant
- Other treatment plant
- Multiple activity site

In some cases, sites are licensed or permitted to carry out two or more waste management activities under the licence or permit and these have been designated as multiple activity sites. Further details of these sites are in the spreadsheet accompanying this paper. It should be noted that it is not possible to allocate specific capacities or waste tonnages to the separate activities carried out at multiple activity sites.

¹ Also known as a recycling centre

3. Number of operational waste management sites in Scotland 2008

There were 804 waste management sites in Scotland that handled waste in 2008. The number of sites is shown by site type in Table 1.

Table 1 Total number of operational waste management sites in Scotland by site type (2008)

Site type	Number
Anaerobic digestion plant	1
Civic amenity site	133
Composting site	10
EfW plant / Incinerator	8
Landfill (open)	47
Landfill (closed/restoration)	10
Metal recycler	146
Multiple activity site*	157
Other treatment plant	50
Pet cemetery/crematorium	12
Transfer station	230
Total	804

* Further breakdown of these sites are in the spreadsheet accompanying this paper

The total number of activities in Scotland by Waste Strategy Area is shown in Table 2. This includes a breakdown of the multiple activity sites. As some sites carry out more than one activity, the total in this table is greater than the number of sites in Table 1.

Table 2 Number of activities in Scotland by Waste Strategy Area (2008)

Activity	Waste Strategy Area*										
	01	02	03	04	05	06	07	08	09	10	11
Anaerobic digestion plant	-	1	1	-	1	1	-	3	-	-	-
Civic amenity site	6	2	23	25	25	9	11	24	22	32	11
Composting site	-	2	2	5	2	-	2	3	3	6	2
EfW plant / Incinerator	1	-	-	1	2	-	1	2	1	-	-
Landfill (open)	4	1	3	9	8	6	4	8	10	12	5
Landfill (closed/restoration)	-	1	5	2	2	-	1	2	4	1	5
Metal recycler	3	2	9	18	21	17	17	21	28	51	-
Other treatment plant	3	2	8	24	8	7	2	2	15	20	2
Pet cemetery/crematorium	-	-	2	2	2	-	2	1	2	1	-
Transfer station	5	11	30	49	44	25	18	50	27	69	11

*Waste Strategy Area:

01 – Orkney & Shetland
 02 – Western Isles
 03 – Highland
 04 – North East
 05 – Tayside
 06 – Forth Valley

07 – Fife
 08 – Lothian & Borders
 09 – Ayrshire, Dumfries & Galloway
 10 – Glasgow & Clyde Valley
 11 – Argyll & Bute

4. Capacity of operational waste management sites in Scotland 2008

The licensed/permitted annual capacities of the operational waste management sites in Scotland in 2008 are shown in Table 3. In order for capacity figures to be meaningful, a comparison must be made with the quantities of waste accepted per year. This is also shown in Table 3.

Table 3 Capacities of and tonnes of waste accepted by operational waste management sites in Scotland by site type (2008)

Site type	Annual capacity in 2008 (tonnes)	Quantity of waste accepted in 2008 (tonnes)
Anaerobic digestion plant	4,020	2,062
Civic amenity site	1,152,886	589,082
Composting site	405,756	207,644
EfW plant / Incinerator	536,512	260,343
Landfill (open)**	11,831,197	4,704,662
Landfill (closed/restoration)	-	445,829
Metal recycler	1,553,868	896,538
Multiple activity site*	8,932,170	4,125,218
Other treatment plant†	2,134,779	2,632,774
Pet cemetery/crematorium	2,017	432
Transfer station	11,290,285	3,819,480
Total	37,843,490	17,684,064

† Annual tonnage exceeds capacity because five “other treatment” plants have input tonnages, but no capacity information

* Further details of these sites are in the spreadsheet accompanying this paper

** The Landfill Capacity Report for Scotland 2008 presents a snapshot of the total available remaining capacity for all landfill sites classified as hazardous, non-hazardous or inert as at 31 December 2008.

The licensed/permitted annual capacities and tonnes of waste accepted by sites in each Waste Strategy Area in 2008 are shown in Table 4. A breakdown of this by site type is available in the spreadsheet accompanying this report.

Table 4 Capacities of and tonnes of waste accepted by operational waste management sites in Scotland by Waste Strategy Area (2008)

Waste Strategy Area	Annual capacity in 2008 (tonnes)	Quantity of waste accepted in 2008 (tonnes)
01 - Orkney and Shetland	214,309	120,845
02 - Western Isles	145,292	51,330
03 - Highland	816,039	401,191
04 - North East	3,741,977	1,748,964
05 - Tayside	2,661,450	1,299,736
06 - Forth Valley	3,218,627	1,461,607
07 - Fife	4,424,729	1,367,877
08 - Lothian and Borders	4,657,417	2,242,723
09 - Ayrshire, Dumfries and Galloway	3,320,273	1,597,298
10 - Glasgow and Clyde Valley	14,440,013	7,279,567
11 - Argyll and Bute	203,364	112,926
Total	37,843,490	17,684,064

Sites accept waste both from within local authority boundaries and from all over Scotland and beyond, so waste managed within any given Waste Strategy Area does not necessarily correspond to waste produced within that area.

5. Capacity of non-operational waste management sites in Scotland 2008

The annual capacities of sites that are licensed/permitted, but not actively receiving waste ('non-operational') in 2008 are shown in Table 5. These are sites which have been granted a licence or permit but are not operating for a variety of reasons (e.g. still under construction, or awaiting commissioning).

Table 5 Capacities of non-operational waste management sites in Scotland by site type (2008)

Site type	Annual capacity (tonnes) of non-operational sites (2008)
Anaerobic digestion plant	-
Civic amenity site	7,500
Composting site	3,000
EfW plant / Incinerator	44,000
Landfill	969,999
Metal recycler	15,200
Multiple activity site*	155,524
Other treatment plant	39,021
Pet cemetery/crematorium	200
Transfer station	148,822
Total	1,383,266

* Further details of these sites along with a list of closed sites are in the spreadsheet accompanying this paper

6. Data sources and limitations

The data in this paper are extracted from SEPA's public register of licensed/permitted sites and from information supplied by site operators. Site operators are required to make returns to SEPA detailing the types and quantities of waste handled at their site. The data are reported to SEPA on a quarterly basis using the licensed/permitted site return form, from sites holding a waste management licence or relevant pollution prevention and control permit.

The annual capacity of a site is the quantity of waste that a site is actually licensed or permitted to handle each year. For the majority of sites this information has been obtained directly from the licence/permit. However, in a small number of cases this information is not available and has been marked as n/a in the spreadsheet accompanying this paper.

This paper and the accompanying spreadsheet contain a list of sites regulated under a waste management licence or a Pollution Prevention and Control permit (Part A - Activity 5). Facilities that handle waste, but are not specifically licensed or permitted as a waste management facility (eg a paper mill), are not included.

Although checks are made, SEPA cannot be held responsible for any errors contained within the data, nor for commercial decisions taken by operators. Where no licensed/permitted site return form has been received, no estimates have been applied to the missing data.

Mobile plant have not been included in this paper as it is not possible to provide a complete breakdown of capacity and tonnages handled. Licensed mobile plant are, however, listed in the spreadsheet accompanying this paper.

No data are presented here for sites which have planning permission but have not yet applied for, or been issued with, a permit by SEPA.