

National waste capacity report for Scotland - 2009



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1. Introduction

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 2009. It presents the numbers and capacities of all waste management sites licensed or permitted by the Scottish Environment Protection Agency (SEPA) in calendar year 2009. This covers sites that were operational (actively handling waste) and non-operational (not actively handling waste) in this year. As one site may have more than one waste management activity, this paper also presents the number of different activities in Scotland in 2009.

Detailed site by site information is available in the National waste capacity spreadsheet 2009 that accompanies this report:

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

The Landfill Capacity Report for Scotland 2009 presents a snapshot of the amount of waste landfilled and the available remaining capacity for all operational and non-operational landfill sites classified as hazardous, non-hazardous or inert as at 31 December 2009:

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

A series of maps based on the National waste capacity spreadsheet 2009 data, is available showing existing waste management facilities in Scotland at a national or local authority level:

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

Other 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 waste management site types:

- Landfill
- Incineration/co-incineration
- Civic amenity¹
- Metal recycler (includes End of Life Vehicle and Authorised Treatment Facilities)
- Transfer station
- Pet cemetery and/or pet crematorium
- Composting site
- Anaerobic digestion plant
- Other treatment plant
- Multiple activity sites

Multiple activity sites are licensed or permitted to carry out two or more waste management activities under one licence or permit. 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. Further details of these sites are in the spreadsheet accompanying this paper.

¹ Also known as a recycling centre

3. Number of operational waste management sites in Scotland 2009

There were **809** waste management sites in Scotland that accepted waste in 2009. The numbers and types of sites are shown in Table 1.

Table 1 Total number of operational waste management sites in Scotland by site type (2009)

Site type	Number
Anaerobic digestion plant	4
Civic amenity	131
Civic amenity / composting	1
Civic amenity / landfill (closed)	2
Civic amenity / metal recycler	1
Civic amenity / metal recycler / transfer station / composting / landfill (closed)	1
Civic amenity / transfer station	31
Civic amenity / transfer station / composting	1
Civic amenity / transfer station / composting / anaerobic digestion	1
Civic amenity / transfer station / landfill (closed)	4
Civic amenity / transfer station / other treatment	1
Co-incineration	3
Composting	10
Composting / anaerobic digestion	2
Composting / other treatment	2
Incineration	8
Landfill	37
Landfill / civic amenity	4
Landfill / civic amenity / composting	4
Landfill / civic amenity / other treatment	1
Landfill / civic amenity / transfer station	3
Landfill / civic amenity / transfer station / composting	2
Landfill / composting	4
Landfill / other treatment	3
Landfill / transfer station	3
Landfill / transfer station / composting	1
Landfill / transfer station / other treatment	2
Metal recycler	166
Metal recycler / transfer station	18
Other treatment	54
Pet cemetery and/or pet crematorium	13
Transfer station	242
Transfer station / anaerobic digestion	5
Transfer station / composting	4
Transfer station / landfill (closed)	3
Transfer station / other treatment	37
Total	809

4. Numbers of waste management activities by local authority 2009

Some sites may have more than one waste management activity so it is useful to consider the total number of operational activities in Scotland in 2009. This is shown by local authority in Table 2. As some sites carry out more than one activity, the total number of activities in this table (966) is greater than the number of sites in Table 1.

Table 2 Number of waste management activities in Scotland by local authority (2009)

Local authority	Activity									
	Anaerobic digestion	Civic amenity	Composting	Incineration / co-incineration	Landfill (operational)	Other treatment	Metal recycling	Pet cemetery / crematorium	Transfer	Total
City of Aberdeen	-	4	-	-	1	11	4	1	20	41
Aberdeenshire	3	15	5	-	7	17	8	1	25	81
Angus	1	8	1	1	4	2	5	-	13	35
Argyll & Bute	-	10	3	-	5	4	2	-	9	33
Clackmannanshire	-	1	-	-	-	1	1	-	3	6
Dumfries & Galloway	-	11	1	1	4	6	10	-	10	43
City of Dundee	-	7	1	1	-	2	9	-	13	33
East Ayrshire	-	1	1	-	1	2	7	1	8	21
East Dunbartonshire	-	1	1	-	-	2	1	-	4	9
East Lothian	-	5	1	1	3	-	3	-	8	21
East Renfrewshire	-	2	-	-	1	1	-	-	4	8
City of Edinburgh	1	5	1	-	-	-	7	-	12	26
Eilean Siar	1	3	2	-	1	2	2	-	12	23
Falkirk	1	3	-	-	4	5	13	-	17	43
Fife	-	11	3	1	3	3	18	4	19	62
City of Glasgow	-	4	1	-	1	4	13	-	20	43
Highland	1	23	2	1	4	7	8	1	32	79
Inverclyde	-	2	-	-	-	-	2	-	4	8
Midlothian	-	1	-	-	1	-	3	-	7	12
Moray	-	6	-	1	1	-	4	1	7	20
North Ayrshire	-	5	1	2	2	7	6	-	13	36
North Lanarkshire	1	6	1	-	2	7	13	-	16	46
Orkney Islands	-	5	-	-	2	-	2	-	2	11
Perth & Kinross	1	10	2	-	2	3	6	2	20	46
Renfrewshire	-	6	1	-	1	2	7	-	12	29
Scottish Borders	-	6	-	1	2	2	2	1	8	22
Shetland Islands	-	1	-	1	1	3	2	-	3	11
South Ayrshire	-	4	-	-	2	1	3	-	4	14
South Lanarkshire	-	6	4	-	3	3	14	1	8	39
Stirling	-	5	-	-	2	1	3	-	7	18
West Dunbartonshire	-	4	1	-	2	-	4	-	4	15
West Lothian	2	7	-	-	2	2	4	-	15	32
Scotland	12	188	33	11	64	100	186	13	359	966

5. Capacity of operational waste management sites in Scotland 2009

The licensed/permitted annual capacities of the operational waste management sites in Scotland in 2009 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 and tonnes of waste accepted by operational waste management sites in Scotland by site type (2009)

Site type	Annual capacity in 2009 (tonnes)	Waste accepted in 2009 (tonnes)
Anaerobic digestion plant	66,520	12,931
Civic amenity	1,155,535	512,656
Civic amenity / composting	24,999	12,835
Civic amenity / landfill (closed)	29,999	11,482
Civic amenity / metal recycler *	1,000	1,245
Civic amenity / metal recycler / transfer station / composting / landfill (closed)	24,999	12,552
Civic amenity / transfer station	2,041,486	694,836
Civic amenity / transfer station / composting	16,500	10,912
Civic amenity / transfer station / composting / anaerobic digestion	40,000	11,943
Civic amenity / transfer station / landfill (closed)	16,972	8,984
Civic amenity / transfer station / other treatment	92,000	31,280
Co-incineration	327,000	181,875
Composting	252,256	120,800
Composting / anaerobic digestion **	39,000	98,657
Composting / other treatment	97,631	24,878
Incineration	251,967	100,785
Landfill	9,505,897	3,345,553
Landfill (restoration)	-	304,525
Landfill / civic amenity	183,356	82,088
Landfill / civic amenity / composting	782,000	384,702
Landfill / civic amenity / other treatment	26,000	9,695
Landfill / civic amenity / transfer station	384,000	128,594
Landfill / civic amenity / transfer station / composting	100,750	53,383
Landfill / composting	899,950	531,088
Landfill / other treatment	275,000	89,396
Landfill / transfer station	240,000	109,816
Landfill / transfer station / composting	20,515	18,642
Landfill / transfer station / other treatment	119,998	99,353
Metal recycler	2,228,104	1,112,034
Metal recycler / transfer station	516,486	181,587
Other treatment	2,802,020	876,257
Pet cemetery and/or pet crematorium	1,870	383
Transfer station	12,260,966	3,824,235
Transfer station / anaerobic digestion	287,900	148,942
Transfer station / composting	208,549	144,475
Transfer station / landfill (closed)	220,000	3,480
Transfer station / other treatment	2,481,142	726,521
Total	38,022,367	14,023,400

* Annual tonnage capacity has exceeded capacity of site. Details of these sites are in the spreadsheet accompanying this paper

**Annual tonnage exceeds capacity because one site has input tonnage, but no capacity information is available

The licensed/permitted annual capacities and tonnes of waste accepted by sites in each local authority in 2009 are shown in Table 4. A breakdown of this by site type is available in the spreadsheet accompanying this report.

Table 4 Capacities and tonnes of waste accepted by operational waste management sites in Scotland by local authority (2009)

Local authority	Annual capacity in 2009 (tonnes)	Waste accepted in 2009 (tonnes)
City of Aberdeen	1,188,689	585,519
Aberdeenshire	2,311,681	878,728
Angus	887,817	346,318
Argyll & Bute	217,874	99,686
Clackmannanshire	64,950	13,290
Dumfries & Galloway	1,215,119	419,485
City of Dundee	747,237	212,780
East Ayrshire	657,369	349,286
East Dunbartonshire	500,342	229,592
East Lothian	1,502,613	605,326
East Renfrewshire	247,499	82,825
City of Edinburgh	878,711	505,042
Eilean Siar	151,292	46,415
Falkirk	2,866,434	1,039,670
Fife	3,406,776	1,281,205
City of Glasgow	6,112,441	1,724,943
Highland	964,403	329,089
Inverclyde	111,360	46,313
Midlothian	782,237	291,819
Moray	461,798	179,926
North Ayrshire	1,705,990	555,272
North Lanarkshire	3,291,190	895,415
Orkney Islands	41,869	22,424
Perth & Kinross	1,075,258	551,371
Renfrewshire	1,328,322	561,595
Scottish Borders	575,264	147,690
Shetland Islands	131,740	71,886
South Ayrshire	607,223	311,371
South Lanarkshire	1,930,713	902,379
Stirling	386,423	152,094
West Dunbartonshire	617,597	273,626
West Lothian	1,054,136	311,020
Total	38,022,367	14,023,400

6. Number and capacity of non-operational waste management sites in Scotland 2009

The number and annual capacity of waste management sites in Scotland that were licensed/permitted with SEPA in 2009, but not actively receiving waste in that year ('non-operational') are shown in Table 5. These sites are not operating for a variety of reasons (e.g. they may still be under construction, or be awaiting commissioning).

Table 5 Total number and capacities of non-operational waste management sites in Scotland by site type (2009)

Site type *	Number	Annual capacity (tonnes) of non-operational sites (2009)
Anaerobic digestion	1	560
Civic amenity	1	995
Civic amenity / transfer station / landfill (closed)	1	1,150
Co-incineration	1	14,000
Composting	1	3,000
Composting / anaerobic digestion	1	1,150
Incineration	3	90,000
Landfill (not operational)	7	1,169,999
Metal recycler	13	89,280
Metal recycler / transfer station	1	24,300
Other treatment	5	54,300
Transfer station	12	136,771
Transfer station / other treatment	1	25,000
Total	48	1,610,505

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

7. 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.

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 - Chapter 5 and Section 6.8b only). Facilities that handle waste, but are not specifically licensed or permitted as a waste management facility (eg a paper mill), are not included.

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.

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.

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.

The definitions of site types and activities are based on current information and are correct to the best of our knowledge. We are continually working to improve the accuracy of this information.

It is not possible to allocate specific capacities or waste tonnages to the separate activities carried out at multiple activity sites.

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

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.

December 2010

Annex 1: SEPA's data re-use statement



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