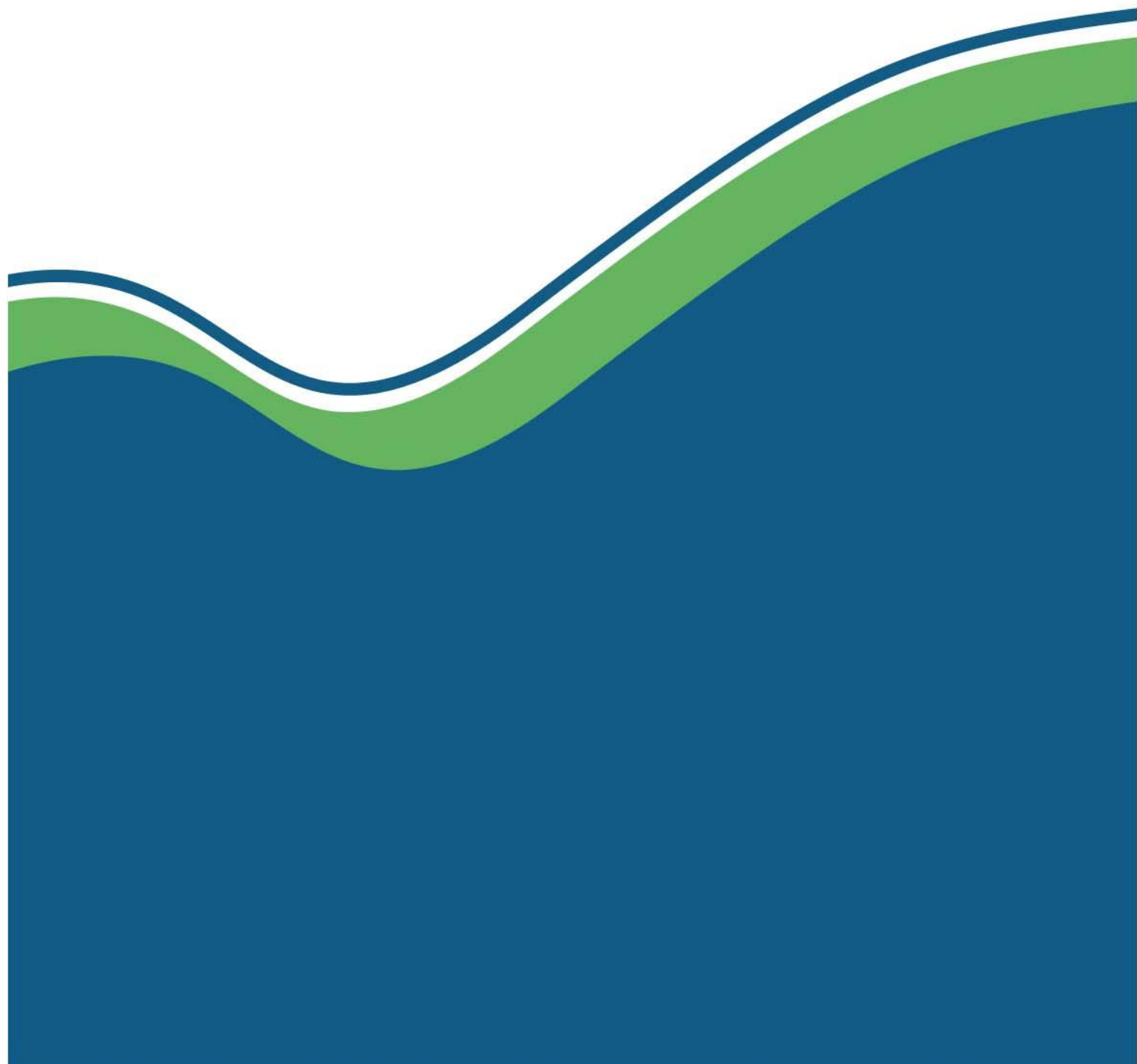




Waste sites and capacity report for Scotland 2011



Waste sites and capacity report for Scotland - 2011

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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 2011. It presents the numbers and capacities of all waste management sites licensed or permitted by the Scottish Environment Protection Agency (SEPA) and either operational (actively handling waste) or non-operational (not actively handling waste) in calendar year 2011. As one site may have more than one waste management activity, this paper also presents the number of different activities in Scotland in 2011.

Detailed site by site information is available in the waste sites and capacity spreadsheet 2011 that accompanies this report:

www.sepa.org.uk/waste/waste_data/waste_site_information/waste_sites_capacity.aspx

The landfill sites and capacity report for Scotland 2011 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 2011:

www.sepa.org.uk/waste/waste_data/waste_site_information/landfill_sites_capacity.aspx

A series of maps based on the waste sites and capacity spreadsheet 2011, is available showing existing waste management facilities in Scotland at a national and local authority level:

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

Other waste data information is available on SEPA's website:

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:

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

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 2011

There were **806** waste management sites in Scotland that handled waste (operational) in 2011. The numbers and types of these sites are shown in Table 1.

Table 1 Total number of operational waste management sites in Scotland by site type (2011)

Site type (operational)	Number
Anaerobic digestion plant	5
Civic amenity	129
Civic amenity / composting	4
Civic amenity / landfill (closed)	3
Civic amenity / metal recycler	1
Civic amenity / metal recycler / transfer station / composting / landfill (closed)	1
Civic amenity / transfer station	32
Civic amenity / transfer station / composting	1
Civic amenity / transfer station / composting / anaerobic digestion	1
Civic amenity / transfer station / landfill (closed)	3
Civic amenity / transfer station / other treatment	1
Co-incineration	3
Composting	10
Composting / anaerobic digestion	2
Composting / other treatment	2
Incineration	11
Landfill	33
Landfill / civic amenity	3
Landfill / civic amenity / composting	2
Landfill / civic amenity / composting / other treatment	2
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	2
Landfill / transfer station	3
Landfill / transfer station / composting	1
Landfill / transfer station/ composting / other treatment	1
Landfill / transfer station / other treatment	2
Metal recycler	157
Metal recycler / transfer station	20
Metal recycler / transfer station / other treatment	1
Other treatment	63
Pet cemetery and/or pet crematorium	13
Transfer station	232
Transfer station / anaerobic digestion	4
Transfer station / composting	4
Transfer station / landfill (closed)	4
Transfer station / other treatment	39
Other treatment / Landfill (not operational)	1
Total	806

4. Number of waste management activities in Scotland 2011

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 2011. This is shown by local authority in Table 2. The total number of activities in this table (974) is greater than the total number of sites in Table 1 because some sites carry out more than one waste activity.

Table 2 Total number of operational waste management activities in Scotland by local authority (2011)

Local authority	Activity and numbers										
	Anaerobic digestion	Civic amenity	Co-incineration	Composting	Incineration	Landfill (operational)	Metal recycling	Other treatment	Pet cemetery / crematorium	Transfer station	Total
Aberdeen	-	4	-	-	-	1	4	12	1	16	38
Aberdeenshire	2	16	-	5	-	5	9	16	1	23	77
Angus	1	7	-	1	1	4	4	2	-	12	32
Argyll & Bute	-	9	-	3	-	5	2	6	-	9	34
Clackmannanshire	-	1	-	-	-	-	1	1	-	3	6
Dumfries & Galloway	-	11	1	1	1	2	10	5	-	10	41
Dundee	-	6	-	1	1	-	8	2	-	13	31
East Ayrshire	-	1	-	2	-	1	7	2	1	9	23
East Dunbartonshire	-	1	-	1	-	-	1	2	-	4	9
East Lothian	-	6	-	2	1	3	3	-	-	7	22
East Renfrewshire	-	2	-	-	-	1	1	1	-	4	9
Edinburgh	2	6	-	2	-	-	7	-	-	10	27
Eilean Siar	1	4	-	2	-	1	2	2	-	12	24
Falkirk	1	3	-	-	-	4	12	5	-	18	43
Fife	-	11	1	3	-	3	16	6	4	21	65
Glasgow	-	4	-	-	-	1	14	4	-	19	42
Highland	1	23	-	2	1	3	11	8	1	33	83
Inverclyde	-	2	-	-	-	-	4	-	-	4	10
Midlothian	-	2	-	-	1	1	4	-	-	6	14
Moray	-	6	-	-	-	1	3	-	1	7	18
North Ayrshire	1	5	1	1	2	2	5	7	-	12	36
North Lanarkshire	1	8	-	1	-	2	12	9	-	17	50
Orkney Islands	-	5	-	-	-	2	2	3	-	5	17
Perth & Kinross	1	9	-	2	-	2	6	4	2	18	44
Renfrewshire	-	6	-	1	1	1	5	4	-	11	29
Scottish Borders	-	6	-	-	1	2	4	3	1	8	25
Shetland Islands	-	1	-	-	1	2	2	4	-	4	14
South Ayrshire	-	4	-	-	-	2	2	1	-	3	12
South Lanarkshire	-	6	-	4	-	3	8	3	1	12	37
Stirling	-	4	-	1	-	1	3	1	-	6	16
West Dunbartonshire	-	4	-	1	-	2	3	-	-	4	14
West Lothian	1	6	-	1	-	2	5	2	-	15	32
Scotland	12	189	3	37	11	59	180	115	13	355	974

5. Capacity of operational waste management sites in Scotland 2011

The annual licensed/permitted capacities of the operational waste management sites in Scotland in 2011 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 Annual capacities and tonnes of waste accepted by operational waste management sites in Scotland by site type (2011)

Site type (operational)	Annual capacity in 2011 (tonnes)	Waste accepted in 2011 (tonnes)
Anaerobic digestion plant	129,580	44,228
Civic amenity	1,121,087	500,509
Civic amenity / composting	82,799	52,777
Civic amenity / landfill (closed)	70,310	10,813
Civic amenity / metal recycler *	1,000	1,423
Civic amenity / metal recycler / transfer station / composting / landfill (closed)	24,999	11,628
Civic amenity / transfer station	2,114,351	757,706
Civic amenity / transfer station / composting	16,500	10,883
Civic amenity / transfer station / composting / anaerobic digestion	40,000	11,628
Civic amenity / transfer station / landfill (closed)	15,372	7,977
Civic amenity / transfer station / other treatment	92,000	42,802
Co-incineration	327,000	215,689
Composting	297,206	109,973
Composting / anaerobic digestion **	39,000	148,890
Composting / other treatment	97,631	17,834
Incineration	317,642	120,498
Landfill	8,851,398	3,559,122
Landfill / civic amenity	140,045	62,890
Landfill / civic amenity / composting	117,000	44,566
Landfill / civic amenity / composting / other treatment	665,000	395,277
Landfill / civic amenity / other treatment	25,000	11,296
Landfill / civic amenity / transfer station	384,000	124,573
Landfill / civic amenity / transfer station / composting	100,750	57,262
Landfill / composting	899,950	456,036
Landfill / other treatment	125,000	68,019
Landfill / transfer station	240,000	195,978
Landfill / transfer station / composting	20,515	16,750
Landfill / transfer station / composting / other treatment	150,000	144,110
Landfill / transfer station / other treatment	119,998	104,827
Metal recycler	2,269,988	1,163,528
Metal recycler / transfer station	481,982	214,695
Metal recycler / transfer station / other treatment ***	87,000	-
Other treatment	13,933,625	4,406,652
Pet cemetery and/or pet crematorium	1,870	373
Transfer station	11,951,281	3,741,991
Transfer station / anaerobic digestion	275,900	66,930
Transfer station / composting	261,199	198,922
Transfer station / landfill (closed)	242,499	4,214
Transfer station / other treatment	2,564,148	912,606
Other treatment / Landfill (not operational)	175,000	139,096
Total	48,869,625	18,154,970

* 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

*** Annual tonnage not available

The annual licensed/permitted capacities and tonnes of waste accepted by sites in each local authority in 2011 are shown in Table 4. A breakdown of this by site type is available in the spreadsheet accompanying this report.

Table 4 Annual capacities and tonnes of waste accepted by operational waste management sites in Scotland by local authority (2011)

Local Authority	Operational sites	
	Annual capacity in 2011 (tonnes)	Waste accepted in 2011 (tonnes)
Aberdeen	1,227,195	608,800
Aberdeenshire	2,254,001	874,397
Angus	892,518	318,467
Argyll & Bute	200,278	109,029
Clackmannanshire	64,950	15,037
Dumfries & Galloway	1,107,119	340,304
Dundee	746,429	267,988
East Ayrshire	709,629	287,005
East Dunbartonshire	500,342	143,581
East Lothian	1,399,613	510,630
East Renfrewshire	230,819	63,610
Edinburgh	820,575	442,175
Eilean Siar	153,202	70,172
Falkirk	2,966,740	1,197,500
Fife	3,469,926	3,066,239
Glasgow	6,138,946	3,645,712
Highland	944,462	362,528
Inverclyde	116,260	42,230
Midlothian	483,847	215,105
Moray	438,657	159,087
North Ayrshire	1,718,636	757,582
North Lanarkshire	3,636,123	1,033,420
Orkney Islands	62,079	37,012
Perth & Kinross	1,097,011	601,651
Renfrewshire	1,053,848	634,919
Scottish Borders	531,165	126,062
Shetland Islands	11,185,680	264,567
South Ayrshire	619,248	354,874
South Lanarkshire	2,019,532	787,667
Stirling	380,923	146,587
West Dunbartonshire	612,696	261,533
West Lothian	1,087,176	409,497
Total	48,869,625	18,154,970

6. Number and capacity of non-operational waste management sites in Scotland 2011

There were 75 waste management sites in Scotland that did not actively handle waste ('non-operational') in 2011. The types and annual capacities of these sites 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 (2011)

Site type (non-operational)*	Number	Annual capacity in 2011 (tonnes)
Anaerobic digestion	1	6,000
Civic amenity	1	10,000
Civic amenity / transfer station / landfill (closed)	1	1,150
Co-incineration	1	14,000
Composting / anaerobic digestion	1	1,150
Incineration	2	324,400
Incineration / other treatment	1	60,000
Landfill	8	744,997
Landfill / other treatment	1	150,000
Metal recycler	17	54,740
Metal recycler / transfer station	1	24,300
Other treatment	6	161,610
Pet cemetery and/or pet crematorium	1	250
Transfer station	28	734,969
Transfer station / anaerobic digestion	2	23,500
Transfer station / other treatment	3	103,199
Total	75	2,414,265

* 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. SEPA received 94% return rate for 2011.

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 sites only).

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.

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

This paper and the accompanying spreadsheet contain no data on sites which have planning permission but have not yet applied for, or been issued with, a licence/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.

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.

Any minor differences in the tonnage totals within and between this report and the accompanying spreadsheet are due to rounding errors.

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.

January 2013

Annex 1: SEPA data re-use statement



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