

During 2017, the total amount of solid waste generated increased by 41.9 per cent over 2016.

## Solid Waste Management: 2017

Administrative data provided by WasteServ Malta Ltd. and the Environment and Resources Authority shows that, during 2017, the total amount of solid waste generated amounted to just over 2.8 million tonnes, up by 41.9 per cent over the previous year. Non-hazardous waste increased by 50.2 per cent (933,169 tonnes) mainly due to the generation of mineral waste from construction and demolition as well as dredging spoils. On the other hand, hazardous waste decreased by 73.6 per cent (98,757 tonnes) as a result of a decrease in the generated amounts of discarded vehicles (vehicles and sea vessels) (Table 1).

Waste treatment registered an increase of 49.2 per cent (827,965 tonnes) over the same period. This occurred due to higher amounts of waste that was pre-treated (419,847 tonnes) and backfilled (396,258 tonnes). In contrast, recycling decreased by 15.3 per cent (43,124 tonnes) mainly due to a reduction in the recycling of construction, demolition and excavation waste (Table 2).

During 2017, the Malta North Mechanical-Biological Treatment plant had an output of 56,051 tonnes, up by 46.3 per cent over 2016. Around 82.0 per cent of this waste ended being landfilled at Għallis (Table 3). The total amount of waste disposed at the Għallis landfill increased by 10.0 per cent (26,315 tonnes) in 2017. Higher amounts were mainly recorded for household and similar wastes (14,635 tonnes) and sorting residues (12,324 tonnes). These were however, partially offset by decreases in wood waste (2,630 tonnes) and common sludges (1,411 tonnes) (Table 4).

During the year under review, treated waste output from the Sant'Antnin waste treatment plant declined by 10.6 per cent (7,455 tonnes) primarily due to a major fire accident that occurred in May 2017. As a result, the output of all dry recyclables (paper and cardboard, metals and plastics) decreased with the exception of glass which went up by 2,395 tonnes (Table 5).

During 2017, the total waste incinerated at the Marsa thermal treatment facility amounted to 5,322 tonnes, down by 2.4 per cent over the previous year. As in previous years, animal and mixed food waste constituted the major waste category that was treated in this facility (90.1 per cent in 2017) (Table 6).

The output of waste from private waste management facilities and brokers rose by 255.9 per cent (425,869 tonnes). The output of non-hazardous waste advanced by 518,415 tonnes primarily due to dredging spoils that were exported for disposal. On the other hand, hazardous waste declined by 92,547 tonnes since there was no output of discarded vehicles (vehicles and sea vessels) (Table 7).

Inert waste treatment in 2017 increased by 30.7 per cent (377,294 tonnes). The backfilling in quarries of construction and demolition waste rose by 45.3 per cent (400,255 tonnes) while the recycling of the same type of waste declined by 17.2 per cent (47,764 tonnes) (Table 8).

During 2017, the separate collection of waste fractions from all civic amenity sites decreased by 14.9 per cent (4,470 tonnes) essentially due to a new procedure that was implemented to ensure that only waste generated by households is received in these facilities. The collection of recyclable waste materials increased by 3,622 tonnes (21.2 per cent) from households' green/grey bag and glass collection and by 243 tonnes (7.0 per cent) through the bring-in sites. Waste from the separate collection of organic waste also increased by 892 tonnes (41.3 per cent) due to the inclusion of Gozo region in the pilot project for the collection of this type of waste back in September 2016 (Table 9) ■

Table 1. Waste generation ...

Waste category			tonnes				
EWC-Stat code	Description	Hazardous / Non-hazardous	2013	2014	2015	2016	2017
1.1	Spent solvents	HAZ	740	1,473	1,448	1,294	2,106
1.2	Acid, alkaline or saline wastes	NHAZ	-	-	-	14	33
1.2	Acid, alkaline or saline wastes	HAZ	0	4	0	67	0
1.3	Used oils	HAZ	563	432	727	286	209
1.4, 2, 3.1	Chemical wastes	NHAZ	683	780	672	634	573
1.4, 2, 3.1	Chemical wastes	HAZ	4,689	16,423	20,880	20,562	14,428
3.2	Industrial effluent sludges	NHAZ	29	2	-	0	1
3.2	Industrial effluent sludges	HAZ	198	266	31	174	695
3.3	Sludges & liquid wastes from waste treatment <sup>1</sup>	NHAZ	4,147	3,894	2,798	7,118	9,516
5	Health care and biological wastes	NHAZ	-	-	-	3	-
5	Health care and biological wastes	HAZ	314	340	362	402	417
6.1	Metallic wastes, ferrous	NHAZ	15,307	19,728	27,921	25,017	11,267
6.2	Metallic wastes, non-ferrous	NHAZ	2,997	3,831	3,794	3,053	14,158
6.3	Metallic wastes, mixed	NHAZ	17,144	15,083	10,659	2,370	17,585
7.1	Glass wastes	NHAZ	3,752	4,732	4,277	7,210	6,773
7.2	Paper and cardboard wastes	NHAZ	8,584	16,717	19,082	18,927	17,871
7.3	Rubber wastes	NHAZ	2,515	2,206	2,975	2,492	3,009
7.4	Plastic wastes	NHAZ	4,933	5,660	3,160	8,657	7,606
7.5	Wood wastes	NHAZ	15,167	14,601	15,172	10,097	8,352
7.6	Textile wastes	NHAZ	296	339	145	568	1,021
7.7	Waste containing PCB	HAZ	-	-	-	-	1
8 (excl. 8.1, 8.41)	Discarded equipment	NHAZ	478	137	224	245	574
8 (excl. 8.1, 8.41)	Discarded equipment	HAZ	1,704	1,673	1,564	2,330	2,525
8.1	Discarded vehicles	HAZ	9,959	4,489	15,472	104,844	8,822
8.41	Batteries and accumulators wastes	NHAZ	20	12	-	14	27
8.41	Batteries and accumulators wastes	HAZ	1,355	1,461	2,066	991	1,831
9.1	Animal and mixed food waste	NHAZ	8,570	7,024	5,879	7,116	9,875
9.2	Vegetal wastes	NHAZ	7,109	8,085	6,866	4,608	4,383
9.3	Animal faeces, urine and manure	NHAZ	1,421	1,496	1,540	8,926	8,147
10.1	Household and similar wastes	NHAZ	198,740	206,790	218,505	223,524	254,990
10.2	Mixed and undifferentiated materials	NHAZ	12,512	13,101	14,755	17,297	21,776
10.2	Mixed and undifferentiated materials	HAZ	43	20	4	3	12
10.3	Sorting residues <sup>1</sup>	NHAZ	50,195	46,495	42,374	88,433	94,310
11	Common sludges	NHAZ	36,182	34,336	32,653	38,669	36,609

... Table 1. Waste generation

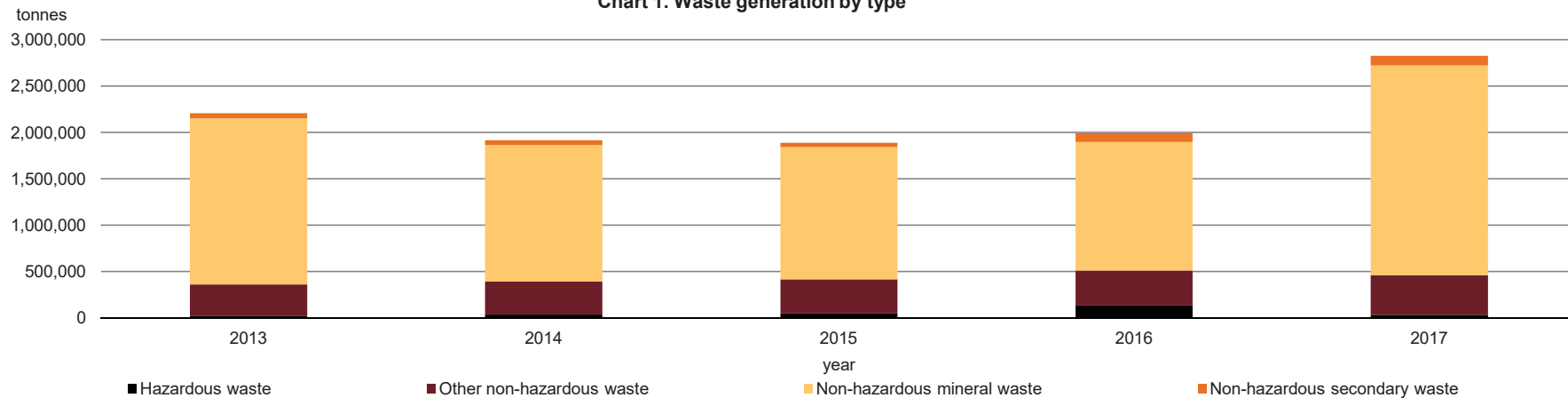
tonnes

Waste category			2013	2014	2015	2016	2017
EWC-Stat code	Description	Hazardous / Non-hazardous					
12.1	Mineral waste from construction & demolition	NHAZ	1,076,741	994,639	1,300,566	1,317,372	1,678,471
12.1	Mineral waste from construction & demolition	HAZ	0	-	1	0	2
12.2, 12.3, 12.5	Other mineral wastes	NHAZ	51,667	44,365	81,488	66,490	46,499
12.2, 12.3, 12.5	Other mineral wastes	HAZ	317	6,048	6,135	349	3,217
12.4	Combustion wastes	NHAZ	3	4	1	1	7
12.4	Combustion wastes	HAZ	3,882	3,797	498	2,581	914
12.6	Soils	NHAZ	-	-	23	179	438
12.7	Dredging spoils	NHAZ	663,940	433,817	42,741	-	538,339
12.8, 13	Mineral waste from waste treatment & stabilised waste <sup>1</sup>	NHAZ	405	379	333	338	332
12.8, 13	Mineral waste from waste treatment & stabilised waste <sup>1</sup>	HAZ	653	423	390	244	193
<b>Total hazardous</b>			<b>24,417</b>	<b>36,848</b>	<b>49,579</b>	<b>134,128</b>	<b>35,371</b>
<b>Total non-hazardous</b>			<b>2,183,536</b>	<b>1,878,252</b>	<b>1,838,603</b>	<b>1,859,374</b>	<b>2,792,543</b>
Mineral waste			1,792,347	1,472,822	1,424,818	1,384,041	2,263,747
Secondary waste			54,747	50,767	45,505	95,889	104,157
Other waste			336,442	354,664	368,281	379,444	424,638
<b>Total waste generation</b>			<b>2,207,953</b>	<b>1,915,100</b>	<b>1,888,183</b>	<b>1,993,502</b>	<b>2,827,914</b>

<sup>(1)</sup> Waste which is generated from waste treatment operations (secondary waste).

Sources: WasteServ Malta Ltd.; ERA; Transport Malta; NSO

Chart 1. Waste generation by type



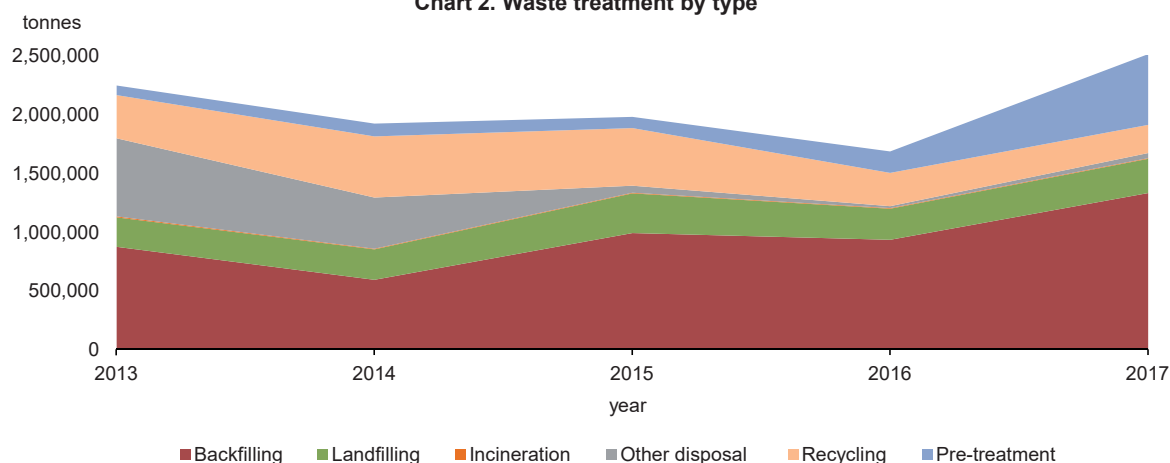
**Table 2. Waste treatment**

							tonnes
Year	Backfilling	Landfilling	Incineration	Other disposal <sup>1</sup>	Recycling	Pre-treatment	Total
2013	872,928	250,914	6,586	663,940	366,358	83,157	<b>2,243,883</b>
2014	592,878	258,204	6,121	433,817	518,629	108,732	<b>1,918,381</b>
2015	990,374	335,791	5,684	59,720	488,995	95,814	<b>1,976,378</b>
2016	933,180	264,206	5,451	16,000	281,208	182,452	<b>1,682,498</b>
2017	1,329,438	290,521	5,322	44,800	238,084	602,299	<b>2,510,463</b>

<sup>(1)</sup> Disposal of inert waste and dredging spoils at sea.

Sources: WasteServ Malta Ltd.; ERA; NSO

**Chart 2. Waste treatment by type**



**Table 3. Malta North MBT plant - total waste output**

Waste category		tonnes			
EWC-Stat code	Description	Treatment	2015 <sup>2</sup>	2016	2017
3.3	Sludges & liquid wastes from waste treatment <sup>1</sup>	Landfill	-	2,556	4,293
6.1	Metallic wastes, ferrous	Exports for recycling	-	100	1,604
6.1	Metallic wastes, ferrous	Transfer to SAWTP	-	129	-
6.2	Metallic wastes, non-ferrous	Transfer to SAWTP	-	12	-
6.2	Metallic wastes, non-ferrous	Exports for recycling	-	-	228
7.1	Glass wastes	Storage	-	-	2,033
7.2	Paper and cardboard wastes	Transfer to SAWTP	-	1	-
7.2	Paper and cardboard wastes	Transfer to KGTS	-	-	475
7.2	Paper and cardboard wastes	Exports for recycling	-	-	903
7.4	Plastic wastes	Exports for recycling	-	31	263
7.4	Plastic wastes	Transfer to SAWTP	-	5	1
7.6	Textile wastes	Landfill	-	231	-
10.1	Household and similar wastes	Landfill	-	-	45
10.2	Mixed and undifferentiated materials	Transfer to SAWTP	-	7	-
10.3	Sorting residues <sup>1</sup>	Landfill	105	28,023	41,530
10.3	Sorting residues <sup>1</sup>	Storage	-	7,227	4,613
10.3	Sorting residues <sup>1</sup>	Transfer to SAWTP	-	2	63
<b>Total</b>			<b>105</b>	<b>38,324</b>	<b>56,051</b>

Note: All waste treated at Malta North MBT plant is non-hazardous.

<sup>(1)</sup> Waste which is generated from waste treatment operations (secondary waste).

<sup>(2)</sup> Operations at Malta North MBT plant commenced in December 2015.

Source: WasteServ Malta Ltd.

Table 4. Għallis landfill - total waste landfilled

tonnes

Waste category		2013	2014	2015 <sup>3</sup>	2016	2017
EWC-Stat code	Description					
1.1	Spent solvents <sup>2</sup>	-	-	-	-	57
1.2	Acid, alkaline or saline wastes	-	-	-	14	33
1.4, 2, 3.1	Chemical wastes	624	710	621	579	486
3.2	Industrial effluent sludges	29	2	-	-	-
3.3	Sludges & liquid wastes from waste treatment <sup>1</sup>	4,113	3,892	2,798	7,118	9,516
6.2	Metallic wastes, non-ferrous	-	-	-	5	15
7.1	Glass wastes	-	-	37	29	70
7.2	Paper and cardboard wastes	-	-	35	32	11
7.4	Plastic wastes	29	37	22	39	82
7.5	Wood wastes	171	49	73,294	8,829	6,199
7.6	Textile wastes	-	-	18	316	150
8 (excl. 8.1, 8.41)	Discarded equipment	-	-	-	45	87
9.1	Animal and mixed food waste	169	82	0	-	67
9.2	Vegetal wastes	6,885	7,793	6,834	4,166	3,698
9.3	Animal faeces, urine and manure	1,306	1,496	1,540	2,439	3,225
10.1	Household and similar wastes	149,148	161,799	177,821	128,343	142,978
10.2	Mixed and undifferentiated materials	707	696	390	185	543
10.3	Sorting residues <sup>1</sup>	50,215	45,551	39,544	73,450	85,774
11	Common sludges	36,160	34,340	32,271	38,020	36,609
12.1	Mineral waste from construction & demolition	860	1,325	171	260	152
12.2, 12.3, 12.5	Other mineral wastes	94	53	41	-	-
12.6	Soils	-	-	-	-	438
12.7	Dredging spoils	-	-	21	-	-
12.8, 13	Mineral waste from waste treatment & stabilised waste <sup>1</sup>	405	379	333	338	332
<b>Total</b>		<b>250,914</b>	<b>258,204</b>	<b>335,791</b>	<b>264,206</b>	<b>290,521</b>

(1) Waste which is generated from waste treatment operations (secondary waste).

(2) Hazardous waste

(3) The amount landfilled in 2015 includes wood waste that was generated from 2010 to 2014 that was held in storage at the landfill.

Source: WasteServ Malta Ltd.

Chart 3. Waste landfilled at Għallis by category

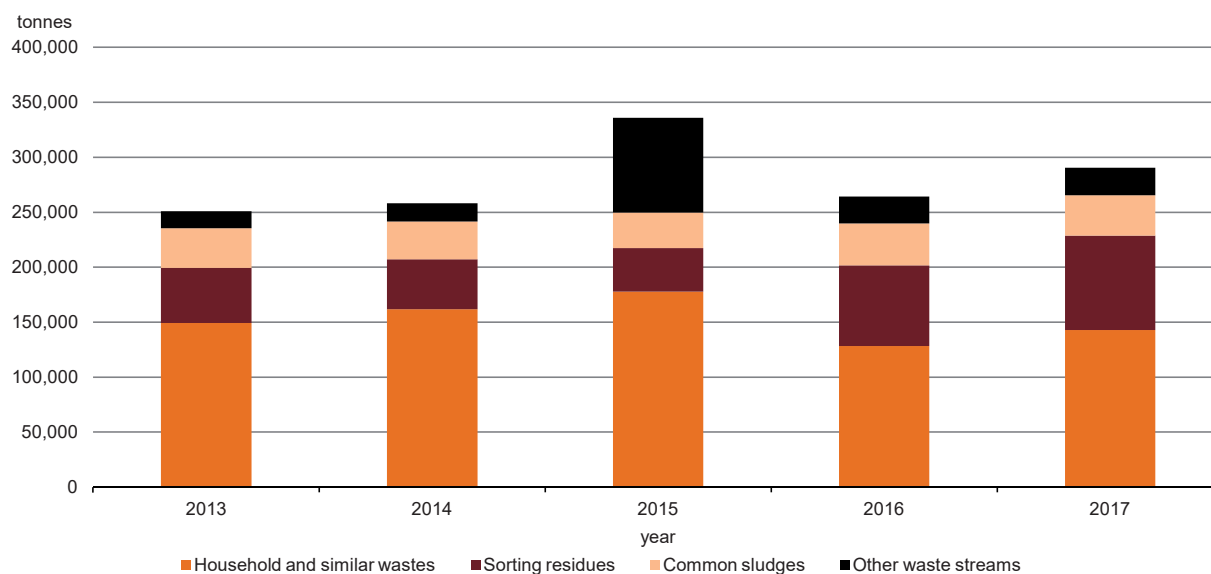


Table 5. Sant' Antnin Waste Treatment Plant (SAWTP) - total waste output

Waste category		Treatment	tonnes				
EWC-Stat code	Description		2013	2014	2015	2016	2017
3.3	Sludges & liquid wastes from waste treatment <sup>1</sup>	Landfill	4,113	3,892	2,798	4,501	5,079
6.1	Metallic wastes, ferrous	Exports for recycling	1,319	994	459	1,308	693
6.1	Metallic wastes, ferrous	Transfer to Malta North MBT plant	-	-	-	-	443
6.1	Metallic wastes, ferrous	Storage	-	-	-	5	-
6.2	Metallic wastes, non-ferrous	Exports for recycling	85	62	35	39	20
6.3	Metallic wastes, mixed	Exports for recycling	348	150	133	186	101
7.1	Glass wastes	Exports for recycling	2,846	3,155	1,358	2,323	4,718
7.2	Paper and cardboard wastes	Exports for recycling	6,193	6,557	6,070	6,226	1,898
7.2	Paper and cardboard wastes	Transfer to Malta North MBT plant	-	-	-	-	333
7.4	Plastic wastes	Exports for recycling	1,713	1,727	1,609	1,930	801
7.4	Plastic wastes	Transfer to Malta North MBT plant	-	-	-	-	34
8 (excl. 8.1, 8.41)	Discarded equipment	Exports for recycling	18	18	1	7	-
10.1	Household and similar wastes	Transfer to Malta North MBT plant	-	-	-	209	1,977
10.2	Mixed and undifferentiated materials	Transfer to Malta North MBT plant	-	-	-	136	1
10.3	Sorting residues <sup>1</sup>	Landfill	49,257	44,440	38,990	45,220	43,536
10.3	Sorting residues <sup>1</sup>	Exports for energy recovery	645	837	803	735	26
10.3	Sorting residues <sup>1</sup>	Storage	-	1,434	2,904	7,553	3,261
<b>Total</b>			<b>66,536</b>	<b>63,266</b>	<b>55,161</b>	<b>70,377</b>	<b>62,922</b>

Note: All waste treated at Sant' Antnin Waste Treatment Plant is non-hazardous.

(<sup>1</sup>) Waste which is generated from waste treatment operations (secondary waste).

Source: WasteServ Malta Ltd.

Chart 4. Waste destination after pre-treatment at SAWTP

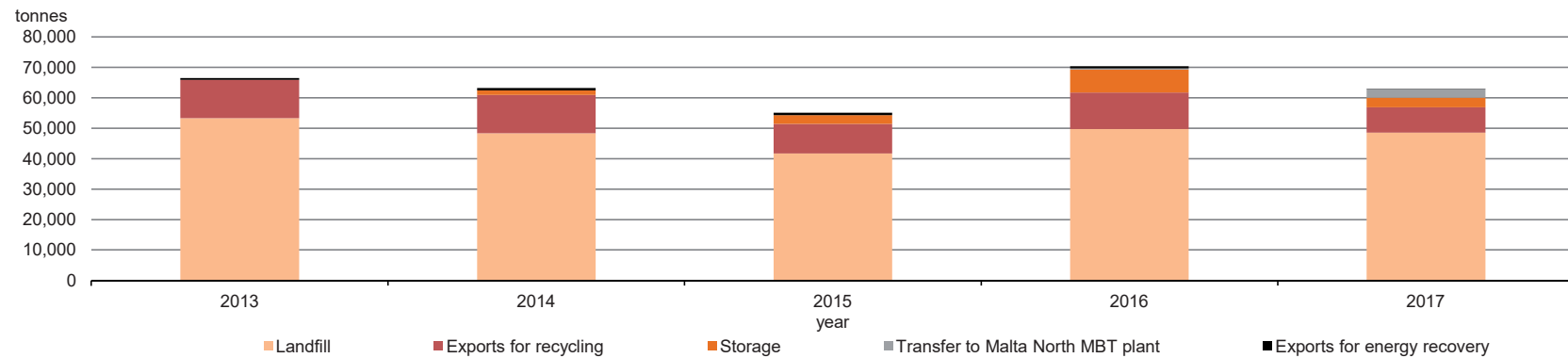


Table 6. Marsa thermal treatment facility - total waste incinerated

Waste category			tonnes				
EWC-Stat code	Description	Hazardous / Non-hazardous	2013	2014	2015	2016	2017
1.1	Spent solvents	HAZ	-	-	0	-	-
1.3	Used oils	HAZ	-	-	3	2	-
1.4, 02, 03.1	Chemical wastes	NHAZ	56	63	53	44	47
1.4, 02, 03.1	Chemical wastes	HAZ	130	92	92	73	62
5	Health care and biological wastes	HAZ	313	340	363	402	417
7.2	Paper and cardboard wastes	NHAZ	10	-	7	-	3
7.5	Wood wastes	NHAZ	16	75	-	-	-
7.6	Textile wastes	NHAZ	-	0	-	-	-
9.1	Animal and mixed food waste	NHAZ	6,043	5,480	5,166	4,928	4,793
9.3	Animal faeces, urine and manure	NHAZ	-	0	-	-	-
10.2	Mixed and undifferentiated materials	NHAZ	0	-	-	2	1
10.2	Mixed and undifferentiated materials	HAZ	18	7	2	-	-
10.3	Sorting residues <sup>1</sup>	NHAZ	-	64	-	-	1
<b>Total hazardous</b>			<b>461</b>	<b>438</b>	<b>459</b>	<b>477</b>	<b>478</b>
<b>Total non-hazardous</b>			<b>6,126</b>	<b>5,683</b>	<b>5,225</b>	<b>4,974</b>	<b>4,844</b>
<b>Total</b>			<b>6,586</b>	<b>6,121</b>	<b>5,684</b>	<b>5,451</b>	<b>5,322</b>

<sup>(1)</sup> Waste which is generated from waste treatment operations (secondary waste).

Source: WasteServ Malta Ltd.

Chart 5. Waste incinerated at the Marsa thermal treatment facility

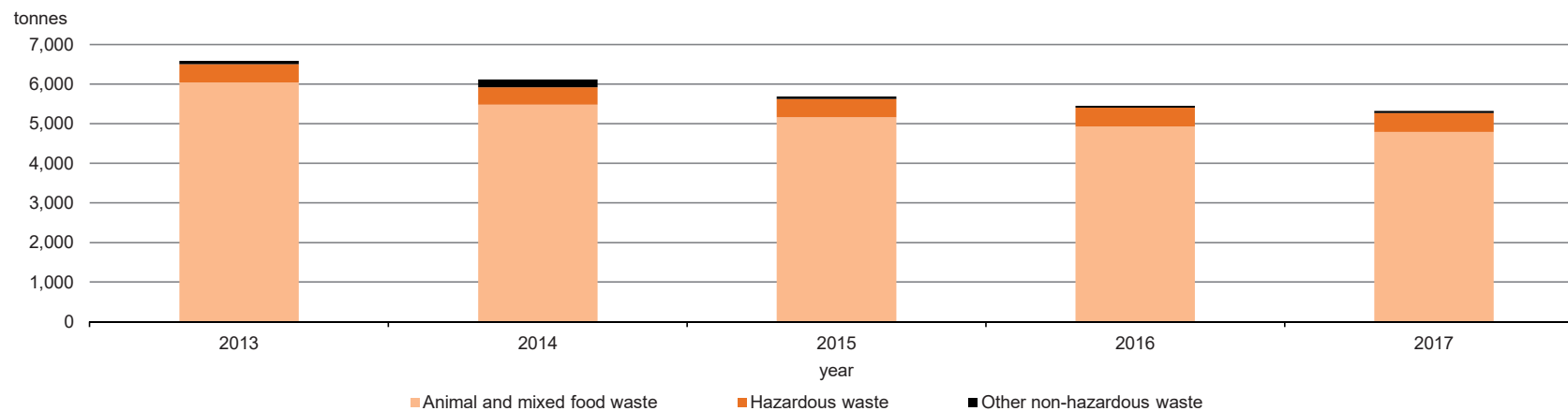


Table 7. Private waste management facilities and brokers - total waste output ...

tonnes

Waste category			2013	2014	2015	2016	2017
EWC-Stat code	Description	Hazardous / Non-hazardous					
1.1	Spent solvents	HAZ	689	1,264	986	820	1,643
1.2	Acid, alkaline or saline wastes	HAZ	-	-	-	59	-
01.4, 02, 03.1	Chemical wastes	NHAZ	1	2	21	11	7
01.4, 02, 03.1	Chemical wastes	HAZ	3,545	5,118	3,093	302	4,432
3.2	Industrial effluent sludges	NHAZ	-	-	-	0	1
3.2	Industrial effluent sludges	HAZ	167	242	311	167	679
3.3	Sludges & liquid wastes from waste treatment <sup>1</sup>	HAZ	251	381	690	-	-
6.1	Metallic wastes, ferrous	NHAZ	33,651	44,437	36,744	26,766	54,607
6.2	Metallic wastes, non-ferrous	NHAZ	2,942	3,067	4,029	4,030	2,862
6.3	Metallic wastes, mixed	NHAZ	400	13	20	-	25
7.1	Glass wastes	NHAZ	-	810	1,427	2,709	-
7.2	Paper and cardboard wastes	NHAZ	13,232	17,995	15,692	17,473	17,468
7.3	Rubber wastes	NHAZ	-	216	3,082	2,188	-
7.4	Plastic wastes	NHAZ	2,765	4,154	2,130	5,501	7,349
7.5	Wood wastes	NHAZ	74	-	-	21	-
7.5	Wood wastes	HAZ	-	129	-	-	-
7.6	Textile wastes	NHAZ	178	164	154	210	851
8 (excl. 8.1, 8.41)	Discarded equipment	NHAZ	515	186	171	193	347
8 (excl. 8.1, 8.41)	Discarded equipment	HAZ	463	1,196	323	525	530
8.1	Discarded vehicles	HAZ	-	-	-	100,576	-
8.41	Batteries and accumulators wastes	HAZ	-	1,441	1,779	1,538	2,206
9.1	Animal and mixed food waste	NHAZ	112	92	23	4	505
10.2	Mixed and undifferentiated materials	NHAZ	51	54	56	107	61
10.2	Mixed and undifferentiated materials	HAZ	18	9	5	3	-
10.3	Sorting residues <sup>1</sup>	NHAZ	-	-	0	-	-
10.3	Sorting residues <sup>1</sup>	HAZ	-	11	270	558	1,072
12.2, 12.3, 12.5	Other mineral wastes	HAZ	229	5,888	5,819	65	3,122
12.4	Combustion wastes	NHAZ	-	3	-	1	6
12.4	Combustion wastes	HAZ	3,882	3,797	2,962	2,581	914
12.7	Dredging spoils	NHAZ	-	-	-	-	493,539
12.8, 13	Mineral waste from waste treatment & stabilised waste <sup>1</sup>	HAZ	324	229	109	-	48



... Table 7. Private waste management facilities and brokers - total waste output

Waste category			tonnes				
EWC-Stat code	Description	Hazardous / Non-hazardous	2013	2014	2015	2016	2017
<b>Total hazardous</b>			<b>9,568</b>	<b>19,706</b>	<b>16,347</b>	<b>107,194</b>	<b>14,647</b>
<b>Total non-hazardous</b>			<b>53,922</b>	<b>71,193</b>	<b>63,549</b>	<b>59,212</b>	<b>577,627</b>
<b>Total</b>			<b>63,490</b>	<b>90,899</b>	<b>79,897</b>	<b>166,406</b>	<b>592,275</b>
<i>of which:</i>							
	Exports for energy recovery		345	26	278	-	746
	Exports for recovery		61,575	84,125	68,536	159,550	83,838
	Exports for storage		-	-	776	433	257
	Exports for incineration		239	664	298	5	1,488
	Exports for disposal		1,331	6,084	9,315	3,315	498,186
	Exports for pre-treatment		-	-	-	-	16
	Recovered locally		-	-	693	3,104	7,742
	Disposed locally		-	-	0	-	-

<sup>(1)</sup> Waste which is generated from waste treatment operations (secondary waste).

Note: Data excludes waste originating from facilities that are operated by WasteServ Malta Ltd.

Source: ERA

Chart 6. Waste output from private waste management facilities and brokers

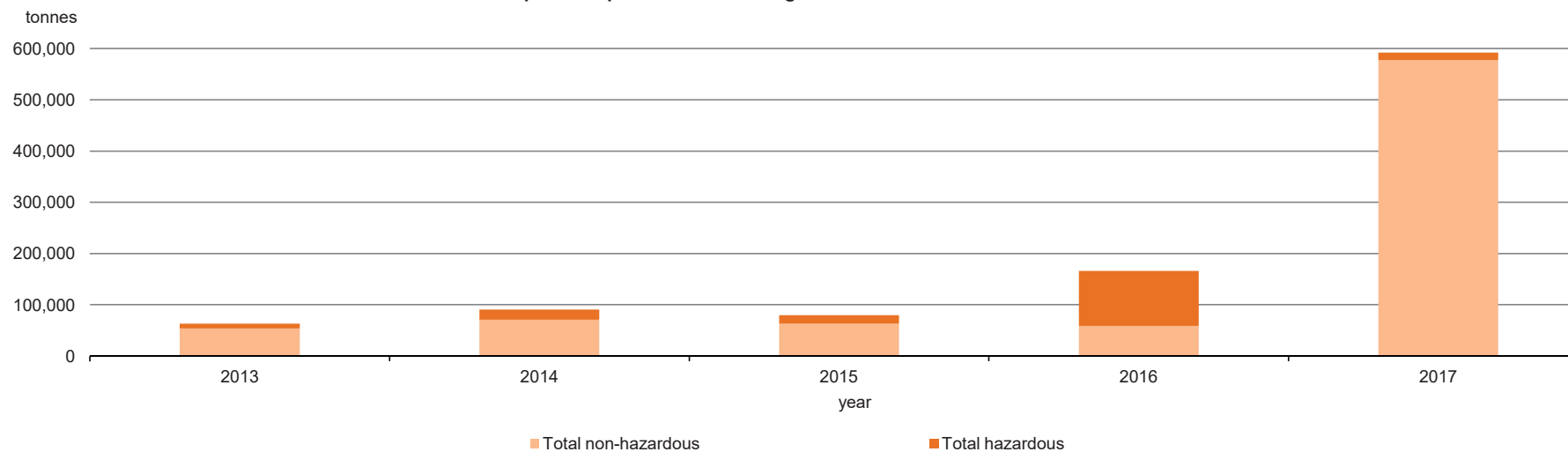


Table 8. Inert waste treatment

Waste category		Final treatment	tonnes				
EWC-Stat code	Description		2013	2014	2015	2016	2017
12.1	Mineral waste from construction and demolition	Backfilling in quarries	821,002	548,290	925,973	882,690	1,282,945
12.1	Mineral waste from construction and demolition	Recycling	366,358	518,629	488,302	278,105	230,341
12.2, 12.3, 12.5	Other mineral wastes <sup>1</sup>	Backfilling in quarries	51,567	44,312	64,402	50,490	46,492
12.2, 12.3, 12.5	Other mineral wastes	Disposal at sea	-	-	17,000	16,000	-
12.7	Dredging spoils	Disposal at sea	663,940	433,817	42,720	-	44,800
<b>Total</b>			<b>1,902,868</b>	<b>1,545,049</b>	<b>1,538,396</b>	<b>1,227,285</b>	<b>1,604,579</b>

Note: All waste categories included in this table are non-hazardous.

<sup>(1)</sup> Estimated value for backfilling of mineral waste generated by softstone quarrying.

Sources: ERA; NSO

Chart 7. Inert waste treatment

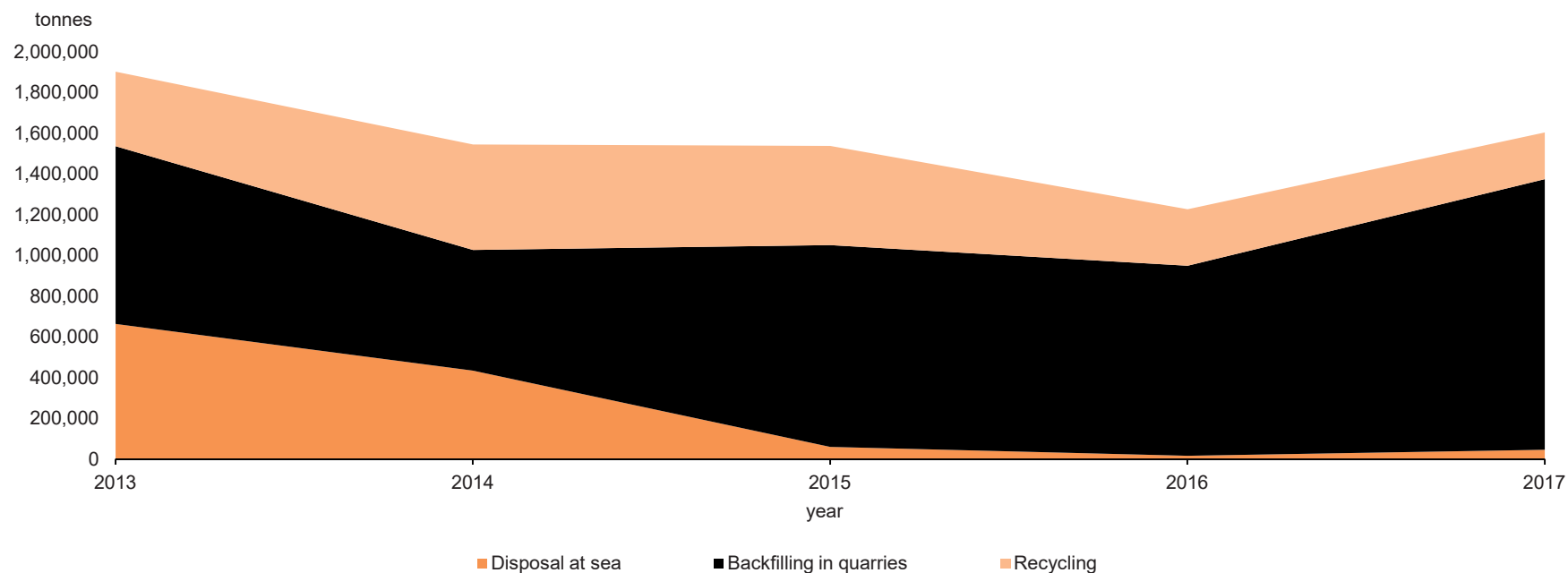


Table 9. Separate collection of waste fractions

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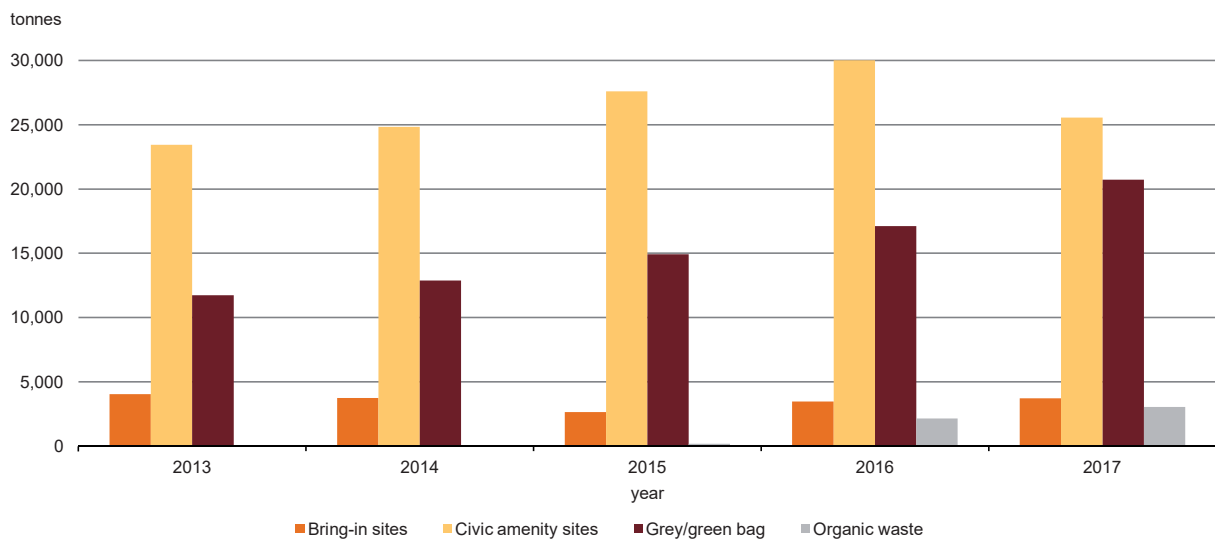
Material	Hazardous / Non-hazardous	2013	2014	2015	2016	2017
<b>Bring-in sites</b>						
Paper and cardboard	NHAZ	913	1,005	781	646	566
Plastic	NHAZ	709	590	507	484	400
Cans	NHAZ	236	195	153	169	127
Glass	NHAZ	2,185	1,951	1,211	1,893	2,126
Mixed paper, plastic, cans, glass	NHAZ	-	-	-	293	509
<b>Total</b>		<b>4,043</b>	<b>3,740</b>	<b>2,652</b>	<b>3,486</b>	<b>3,729</b>
<b>Civic amenity sites</b>						
Tyres	NHAZ	144	121	141	147	128
Mixed construction and demolition wastes	NHAZ	10,079	10,162	10,255	11,438	8,966
Paper and cardboard	NHAZ	707	791	996	889	802
Glass	NHAZ	109	101	116	161	163
Wood	NHAZ	3,962	4,488	5,420	5,648	5,157
Plastics	NHAZ	175	197	256	179	144
Metals	NHAZ	1,000	993	1,112	1,309	955
Biodegradable waste	NHAZ	1,042	1,257	1,214	1,518	1,361
Bulky waste	NHAZ	4,717	5,138	6,618	6,677	6,274
Clothes	NHAZ	5	-	-	-	-
Organic waste	NHAZ	-	-	-	-	20
Compost <sup>1</sup>	NHAZ	-	-	-	-	18
Engine, gear and lubricating oils	HAZ	66	55	79	49	80
Waste containing asbestos	HAZ	82	126	118	136	73
Wastes from human or animal healthcare	HAZ	6	5	5	8	8
Waste electrical and electronic equipment	HAZ	1,210	1,251	1,176	1,748	1,289
Paints, inks, adhesives and resins	HAZ	44	53	39	28	77
Printing toners and cartridges	HAZ	-	-	-	-	3
Batteries and accumulators	HAZ	79	100	45	80	28
<b>Total</b>		<b>23,427</b>	<b>24,838</b>	<b>27,588</b>	<b>30,014</b>	<b>25,544</b>
<b>Door-to-door collection from households</b>						
Paper, plastic, metals and glass (grey/green bag)	NHAZ	<b>11,729</b>	<b>12,891</b>	<b>14,926</b>	<b>17,113</b>	<b>20,735</b>
Organic waste	NHAZ	-	-	<b>179</b>	<b>2,162</b>	<b>3,054</b>

Note: Glass is recorded under the green/grey bag collection scheme from households from 2014 onwards.

(1) Compost produced from green waste that was collected from the Ta' Qali CAS.

Sources: WasteServ Malta Ltd.; ERA.

Chart 8. Separate collection of waste fractions



## Methodological Notes

1. Revisions in data from 2013 to 2016 were mainly carried out as part of the routine maintenance on NSO's waste generation and treatment databases. Data for 2017 in all tables is to be considered as provisional.
2. Waste items in Tables 1 and 3 to 8, are classified according to the Statistical European Waste Classification (EWC-Stat. Version 4). This classification has been published in the Waste Statistics Regulation 2150/2002 (WStatR) and is a substance-oriented nomenclature used to report waste generation and treatment data to Eurostat. Countries such as Malta, that collect data according to the European Waste Catalogue, can convert the data into EWC-Stat waste categories by means of the table of equivalence which is published in Annex 3 of the WStatR.
3. Waste generation figures shown in Table 1 are derived from records kept by the relevant entity about the waste inputs into waste management facilities. In this process, double counting for inter-facility transfers is eliminated.
4. In Table 2, data is classified according to waste treatment categories that are in line with guidelines set for the reporting of WStatR data to Eurostat. The only exception is pre-treatment which does not feature in Eurostat's data collection. This has been included due to the significant proportion of waste which is exported for final treatment after undergoing pre-treatment in Malta.
5. The discrepancies in the published data and the data that are available on the Eurostat website occur since data for all waste categories reported in this news release are in wet weight. For Eurostat reporting, sludges and dredging spoils are reported in dry weight. Differences may also result due to updates in the source data.
6. Totals for waste generation (Table 1) and treatment (Table 2) do not equal each other due to the storage of waste at certain waste treatment facilities. Moreover, Table 1 includes the intentional double counting of secondary waste generation from waste treatment activities.
7. Table 7 presents data regarding waste outputs from waste brokers and waste management facilities that are operated by the private sector and have a valid waste management permit issued by ERA. Data for waste that originates from WasteServ facilities is not included in this table. Comprehensive lists of waste management facilities and brokers can be found on the ERA website:

**Waste management facilities:** <http://era.org.mt/en/Pages/Waste-Management-Applications.aspx>

**Waste brokers:** <https://era.org.mt/en/Documents/Waste%20Brokers%20database%202018.pdf>

8. Data in Table 8 includes figures for the mineral waste which is generated by softstone quarrying. These are estimated at 30 per cent of the total volume of quarried material.
9. Definitions:
  - **Inert mineral waste managed in quarry sites:** Waste which mainly consists of stones, concrete, bricks, tiles and ceramics from construction and demolition. It also includes clean geological material from excavation works.
  - **Dredging spoils:** Mineral waste that originates from port maintenance activities and is made up of sediments excavated from the seabed.
  - **Bring-in sites:** Collection depots for clean source-segregated recyclable materials. Four types of materials are collected: glass, metals, plastic and paper/cardboard.
  - **Civic amenity sites:** Collection depots for the separate disposal of household bulky waste and recyclables. Up to 2017, there were six sites operated by WasteServ Malta Ltd.
  - **Green/Grey bag collection from households:** Door-to-door collection of mixed paper, metals and plastics from households on pre-determined weekdays. As from 2014, door-to-door collection of glass is also taking place. Collected waste items are then sorted by material in facilities that are operated by WasteServ and the private sector.
  - **Organic waste collection:** Door-to-door collection of organic waste from households on pre-determined weekdays. This collection started as a pilot project covering a limited number of localities in 2015.

10. More information relating to this news release may be accessed at:

Statistical concepts: <http://nso.gov.mt/metadata/concepts.aspx>

Metadata: <http://nso.gov.mt/metadata/reports.aspx?id=23>

11. References to this news release are to be cited appropriately.

12. A detailed news release calendar is available on:

[https://nso.gov.mt/en/News\\_Releases/Release\\_Calendar/Pages/News-Release-Calendar.aspx](https://nso.gov.mt/en/News_Releases/Release_Calendar/Pages/News-Release-Calendar.aspx)

European statistics comparable to data in this News Release are available at:

[EUROSTAT Website/Homepage/Statistics Database](#)

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