

Inventory 2007 - Waste quantities by site

See Notes below

Site	Responsible organisations	Waste category	Radioactive waste at 1.4.2007 <i>Note 4, 5, 6</i>				All radioactive waste at 1.4.2007 and future arisings <i>Note 4, 5, 6</i>			
			Raw, partly treated and conditioned wastes	Only wastes conditioned at 1.4.2007 <i>Note 7</i>			Raw, partly treated and conditioned wastes	When all wastes are conditioned <i>Note 7</i>		
			Volume as stored	Number of packages	Packaged volume	Conditioned volume	Volume as stored	Number of packages	Packaged volume	Conditioned volume
<i>Note 1</i>	<i>Note 2</i>	<i>Note 3</i>	<i>Note 8</i>	<i>Note 6</i>	<i>Note 8</i>	<i>Note 10</i>	<i>Note 8</i>	<i>Note 6</i>	<i>Note 9</i>	<i>Note 10</i>
Aldermaston	MoD (AWE plc)	ILW	4,280	-	-	-	9,820	8,810	5,040	4,380
		LLW	1,150	-	-	-	38,300	2,690	52,400	41,900
		Sub-total	5,420	-	-	-	48,200	11,500	57,400	46,300
Amersham	GE Healthcare	ILW	115	-	-	-	313	524	343	279
		LLW	-	-	-	-	15,000	244	4,760	3,810
		Sub-total	115	-	-	-	15,300	769	5,110	4,090
Barrow-in-Furness	MoD (BAESM Ltd)	LLW	-	-	-	-	40	3	50	40
		Sub-total	-	-	-	-	40	3	50	40
Berkeley	NDA (Magnox Electric Ltd)	ILW	1,592	-	-	-	5,288	1,048	6,829	6,119
		LLW	381	-	-	-	22,737	1,428	28,540	26,509
		Sub-total	1,979	-	-	-	28,085	2,476	35,390	32,557
Bradwell	NDA (Magnox Electric Ltd)	ILW	1,080	-	-	-	4,990	759	6,620	5,990
		LLW	685	-	91	73	42,700	2,550	50,800	46,700
		Sub-total	1,760	-	91	73	47,700	3,310	57,400	52,700
Calder Hall	NDA (Sellafield Ltd)	ILW	3	-	-	-	2,770	296	5,910	3,250
		LLW	235	-	-	-	34,200	2,190	43,900	41,100
		Sub-total	237	-	-	-	37,000	2,490	49,800	44,400
Capenhurst	NDA (Sellafield Ltd)	LLW	10,700	-	-	-	68,600	2,520	43,100	33,800
		Sub-total	10,700	-	-	-	68,600	2,520	43,100	33,800
	Urenco	ILW	1	-	-	-	2	5	3	2
		LLW	35	-	-	-	5,510	-	5,510	5,510
		Sub-total	36	-	-	-	5,510	5	5,510	5,510
Cardiff	GE Healthcare	ILW	278	-	-	-	3,630	704	402	328
		LLW	-	-	-	-	6,090	43	6,250	6,080
		Sub-total	278	-	-	-	9,720	748	6,650	6,410
Chapelcross	NDA (Magnox Electric Ltd)	ILW	114	-	-	-	4,940	566	6,610	6,010
		LLW	1,410	-	-	-	94,800	7,160	141,000	118,000
		Sub-total	1,530	-	-	-	99,700	7,720	147,000	124,000
Clyde	MoD	LLW	23	-	-	-	594	41	803	643
		Sub-total	23	-	-	-	594	41	803	643
Culham	NDA (UKAEA)	ILW	35	-	-	-	225	117	886	397
		LLW	150	-	-	-	6,730	409	7,670	6,080
		Sub-total	185	-	-	-	6,960	526	8,560	6,480
Derby	MoD (RRMPOL)	LLW	20	-	-	-	1,770	243	4,740	3,790
		Sub-total	20	-	-	-	1,770	243	4,740	3,790

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			Raw, partly treated and conditioned wastes	Only wastes conditioned at 1.4.2007 <i>Note 7</i>			Raw, partly treated and conditioned wastes	When all wastes are conditioned <i>Note 7</i>			
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Devonport	MoD (DML)	ILW	29	-	-	-	82	17	328	263	
		LLW	139	-	43	34	19,300	95	19,800	19,500	
		Sub-total	168	-	43	34	19,300	112	20,200	19,700	
Donnington	MoD	LLW	-	-	-	-	23	1	29	23	
		Sub-total	-	-	-	-	23	1	29	23	
Dounreay	NDA (UKAEA)	ILW	4,580	1,862	1,060	931	8,350	20,500	15,400	12,500	
		LLW	6,860	252	4,910	3,930	92,700	8,810	172,000	137,000	
		Sub-total	11,400	2,114	5,980	4,860	101,000	29,300	187,000	150,000	
Dungeness	A	NDA (Magnox Electric Ltd)	ILW	327	-	-	-	4,570	549	5,930	5,490
			LLW	206	-	-	-	28,300	1,680	33,600	31,000
			Sub-total	534	-	-	-	32,900	2,230	39,500	36,500
	B	British Energy	ILW	394	-	-	-	3,300	533	6,660	4,110
			LLW	96	-	-	-	17,200	971	19,200	17,000
			Sub-total	491	-	-	-	20,500	1,500	25,900	21,100
Eskmeals	MoD (Qinetiq)	LLW	6	-	-	-	38	18	43	38	
		Sub-total	6	-	-	-	38	18	43	38	
Hartlepool	British Energy	ILW	275	-	-	-	3,470	396	7,150	4,260	
		LLW	19	-	-	-	12,600	658	13,000	11,300	
		Sub-total	295	-	-	-	16,000	1,050	20,100	15,600	
Harwell	GE Healthcare	ILW	0	-	-	-	0	0	0	0	
		LLW	-	-	-	-	100	5	101	81	
		Sub-total	0	-	-	-	100	5	101	81	
	Minor Waste Producers	ILW	98	-	-	-	98	100	57	40	
		LLW	17	-	-	-	84	3	63	50	
		Sub-total	115	-	-	-	182	103	120	90	
	NDA (UKAEA)	ILW	2,020	85	62	43	2,730	4,200	5,450	4,110	
		LLW	2,210	-	5	4	93,400	9,110	178,000	142,000	
		Sub-total	4,230	85	67	46	96,200	13,300	183,000	146,000	
Heysham	1	British Energy	ILW	292	-	-	-	3,540	632	7,280	4,370
			LLW	42	-	-	-	13,200	693	13,700	11,900
			Sub-total	335	-	-	-	16,700	1,330	21,000	16,200
	2	British Energy	ILW	269	-	-	-	3,610	505	7,240	4,470
			LLW	39	-	-	-	17,100	935	18,500	16,400
			Sub-total	308	-	-	-	20,700	1,440	25,800	20,900

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Site <i>Note 1</i>	Responsible organisations <i>Note 2</i>	Waste category <i>Note 3</i>	Raw, partly treated and conditioned wastes	Only wastes conditioned at 1.4.2007 <i>Note 7</i>			Raw, partly treated and conditioned wastes	When all wastes are conditioned <i>Note 7</i>			
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Hinkley Point	A	NDA (Magnox Electric Ltd)	ILW	1,790	-	-	-	5,920	958	7,480	6,790
		LLW	630	-	5	4	44,800	2,920	58,300	53,500	
		Sub-total	2,420	-	5	4	50,800	3,880	65,800	60,300	
	B	British Energy	ILW	578	-	-	-	3,410	439	6,870	4,310
		LLW	74	-	-	-	13,400	747	14,800	13,000	
		Sub-total	652	-	-	-	16,800	1,190	21,700	17,300	
Hunterston	A	NDA (Magnox Electric Ltd)	ILW	2,940	-	-	-	6,100	1,410	7,670	6,800
		LLW	760	-	59	47	28,700	1,770	35,300	32,300	
		Sub-total	3,700	-	59	47	34,800	3,180	43,000	39,100	
	B	British Energy	ILW	819	-	-	-	3,710	665	7,650	4,890
		LLW	230	-	-	-	14,000	798	15,800	13,800	
		Sub-total	1,050	-	-	-	17,700	1,460	23,400	18,700	
LLWR in Cumbria	NDA (LLW Repository Ltd)	ILW	358	-	-	-	700	616	351	309	
		LLW	156,000	8,272	195,000	156,000	159,000	8,630	202,000	162,000	
		Sub-total	156,000	8,272	195,000	156,000	160,000	9,240	202,000	162,000	
Oldbury	NDA (Magnox Electric Ltd)	ILW	586	-	-	-	4,010	616	5,270	4,800	
		LLW	36	-	-	-	25,700	1,580	31,300	28,100	
		Sub-total	622	-	-	-	29,700	2,190	36,600	32,900	
Other UK Small Sources	Various	ILW	640	-	-	-	2,340	183	3,610	2,340	
		LLW	811	-	-	-	12,300	793	15,900	12,700	
		Sub-total	1,450	-	-	-	14,600	976	19,500	15,000	
Portsmouth	MoD	ILW	0	-	-	-	0	0	0	0	
		LLW	7	-	-	-	24	1	18	14	
		Sub-total	7	-	-	-	24	1	18	15	
Rosyth	MoD (Babcock)	ILW	24	-	-	-	24	7	139	110	
		LLW	116	-	-	-	511	42	671	512	
		Sub-total	140	-	-	-	535	49	810	622	
Sellafield	NDA (Sellafield Ltd and Nexia Solutions Ltd)	HLW	1,730	4,319	847	648	1,090	7,250	1,420	1,090	
		ILW	63,900	35,950	20,500	17,800	116,000	148,000	180,000	139,000	
		LLW	11,200	-	-	-	1,672,770	16,350	1,600,973	1,540,778	
		Sub-total	76,900	40,269	21,400	18,400	1,792,770	172,050	1,780,973	1,680,778	
Sheffield	Minor Waste Producers	LLW	450	-	-	-	450	13	324	277	
		Sub-total	450	-	-	-	450	13	324	277	

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Sizewell	A	NDA (Magnox Electric Ltd)	ILW	791	-	-	-	5,040	669	6,310	5,850
		LLW	161	-	-	-	30,900	1,820	36,200	32,800	
		Sub-total	952	-	-	-	35,900	2,490	42,500	38,700	
	B	British Energy	ILW	83	-	-	-	4,490	1,100	3,330	2,360
		LLW	309	-	-	-	17,100	706	13,800	11,000	
		Sub-total	392	-	-	-	21,500	1,800	17,100	13,400	
Springfields	NDA (Springfields Fuels Ltd)	LLW	222	-	-	-	387,000	163	388,000	387,000	
		Sub-total	222	-	-	-	387,000	163	388,000	387,000	
Torness	British Energy	ILW	186	-	-	-	3,380	401	6,930	4,200	
		LLW	78	-	-	-	18,100	998	19,800	17,400	
		Sub-total	265	-	-	-	21,500	1,400	26,700	21,600	
Trawsfynydd	NDA (Magnox Electric Ltd)	ILW	2,060	1,763	5,820	1,440	6,720	864	13,200	10,000	
		LLW	593	-	-	-	58,500	3,650	72,900	68,300	
		Sub-total	2,650	1,763	5,820	1,440	65,200	4,510	86,200	78,400	
Vulcan	MoD	ILW	9	-	-	-	124	8	156	124	
		LLW	-	-	-	-	96	3	62	50	
		Sub-total	9	-	-	-	220	11	218	174	
Windscale	NDA (UKAEA)	ILW	759	121	1,430	697	5,210	1,190	17,000	7,540	
		LLW	17	3	36	17	43,800	3,470	64,900	50,600	
		Sub-total	776	124	1,470	714	49,000	4,660	81,900	58,100	
Winfrith	NDA (UKAEA)	ILW	437	196	112	98	499	1,410	1,880	1,070	
		LLW	44	-	-	-	12,200	942	15,300	11,700	
		Sub-total	481	196	112	98	12,700	2,350	17,200	12,800	
Wylfa	NDA (Magnox Electric Ltd)	ILW	759	-	-	-	6,610	444	8,270	7,760	
		LLW	104	-	-	-	19,600	1,220	24,400	22,600	
		Sub-total	863	-	-	-	26,200	1,660	32,600	30,300	
All UK sites		Total HLW	1,730	4,319	847	648	1,090	7,260	1,420	1,090	
		Total ILW	92,500	39,977	29,000	21,000	236,000	200,000	364,000	275,000	
		Total LLW	196,000	8,527	200,000	160,000	3,190,000	89,200	3,470,000	3,180,000	
		TOTAL	290,000	52,823	230,000	182,000	3,430,000	296,000	3,830,000	3,450,000	

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Notes

1 - The sites listed in this table are those displayed on the UK map in the 2007 Inventory reports, plus the Low Level Waste Repository near the village of drigg in Cumbria. In addition, there are also a few small sources of radioactive wastes in the UK that cannot be allocated to a geographical location. These are grouped under the site 'Other UK small sources'. Northern Ireland has no major waste producers. In addition there are many hospitals and industrial, educational and research establishments that produce small quantities of radioactive wastes. Most of these wastes are safely disposed of with municipal, commercial or industrial waste (thus not included in the 2007 Inventory); the small fraction that is subject to specific regulatory control is managed at the Sellafield & Harwell sites (and thus is included in the 2007 Inventory).

2 - Organisations responsible for the management of the radioactive wastes reported at the site. For each NDA site and some MoD sites, the site is operated by another organisation (shown in brackets) that holds the nuclear site license and discharge authorisations and thus is legally responsible for the health and safety, security and environmental protection at the site. Although the Culham site is currently owned and operated by UKAEA, the NDA understands that the part of the site occupied by the JET facility will transfer to NDA ownership from the date when JET operation ceases.

3 - Waste category - Classification of radioactive wastes in terms of the nature and quantity of radioactivity they contain and their heat-generating capacity:

- High Level Waste (HLW): wastes in which the temperature may rise significantly as a result of their radioactivity, so this factor has to be taken into account in the design of storage or disposal facilities;
- Intermediate Level Waste (ILW): wastes exceeding the upper boundaries for LLW, but which does not require heating to be taken into account in the design of storage or disposal facilities;
- Low Level Waste (LLW): wastes having a radioactive content not exceeding 4 GBq (gigabecquerels) per tonne of alpha, or 12 GBq per tonne of beta/gamma activity.

4 - 'Radioactive waste at 1.4.2007' is the waste that site operators reported as present on the site at 1.4.2007. 'Radioactive waste at 1.4.2007 and future arisings' is the waste that site operators reported to be present at the site at 1.4.2007, plus those wastes that they forecast to produce after 1.4.2007, using the best information available at the time of the preparation of the 2007 Inventory.

5 - All volumes are in cubic metres, rounded to 3 significant figures.

6 - Package numbers at 1.4.2007 are exact values. Package numbers for all wastes (stock at 1.4.2007 plus future arisings) are rounded to 3 significant figures.

7 - Radioactive waste is reported in the 2007 Inventory in the form it existed at 1.4.2007 or, for future arisings in the form it was forecast to be produced. Most of this waste is reported in either untreated or partly treated state, with a small fraction conditioned in suitable containers for long-term management.

It must be noted that the package numbers, packaged and conditioned volumes reported for radioactive waste at 1.4.2007 only include those wastes that had already been packaged and conditioned at 1.4.2007 ready for long-term management. For radioactive waste at 1.4.2007 and future arisings, the volume as stored, package numbers, packaged and conditioned volumes include all wastes reported in the 2007 Inventory. Quantities for future waste arisings were derived using best available information for their expected arisings, packaging and conditioning.

8 - Volume as stored is the volume that the wastes occupy in tanks, vaults, drums, etc. in which they are contained.

9 - Packaged volume is the volume of the waste after packaging (i.e. loading the waste into a container for long-term storage and/or disposal, usually including the conditioning of the waste (i.e. its encapsulation in the container)). Packaged volume includes the waste material, any encapsulating matrix, any capping grout, ullage and the container.

10 - Conditioned volume is the volume of the waste after conditioning (i.e. for most waste this involves the encapsulation of the waste into a container for long-term storage and/or disposal). Conditioned volume includes the waste material and any encapsulating matrix (but excludes any capping grout, ullage and the container).