

June 2017 Waste Metric Dashboard

Period 3 : 28th May to 1st July FY 17/18

UK Waste Diversion

The National Waste Programme aims to communicate progress in the implementation of the Waste Hierarchy and the Nuclear Industry Strategy for Low Level Waste Management across the UK. This dashboard shows key metrics that demonstrate the successful diversion of waste away from direct disposal and the optimal use of key national assets, such as LLWR and waste treatment facilities on sites around the UK, typically based on delivery of Joint Waste Management Plans (JWMPs). The objective is to encourage transparency and communicate progress to all stakeholders.

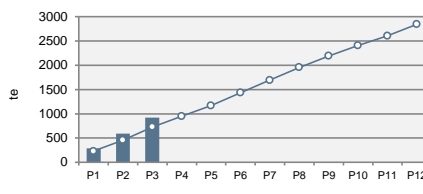
NDA Site Summary YTD

These graphs are a summary of the cumulative progress to date against the combined JWMP targets*. These numbers do not capture VLLW disposed of on site.

Metallic Treatment:

	Yearly Target	Actual YTD
Sellafield Ltd	2200	657
Magnox Ltd	641	213
LLWR Ltd	0	52
Total:	2841	922

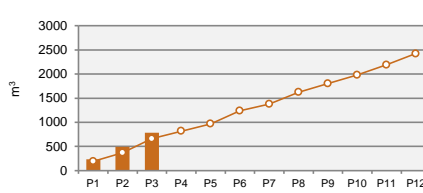
206 te via framework



Combustible Treatment:

	Yearly Target	Actual YTD
Sellafield Ltd	1200	387
Magnox Ltd	1038	392
LLWR Ltd	185	9
Total:	2423	787

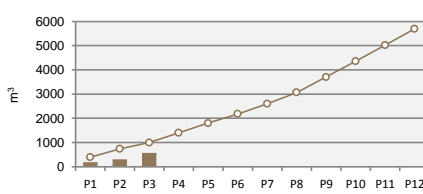
787 m³ via framework



VLLW Disposal:

	Yearly Target	Actual YTD
Sellafield Ltd	200	0
Magnox Ltd	5492	575
LLWR Ltd	5	2
Total:	5697	577

577 m³ via framework

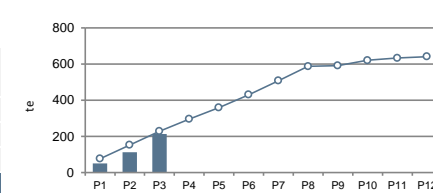


Magnox Ltd

These graphs show the cumulative actual waste diverted by Magnox Ltd against their JWMP targets in the Year to Date (YTD).

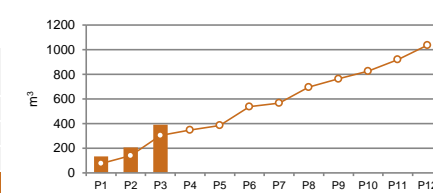
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	44	39
Via framework	121	14
Out of Scope	476	160
Total:	641	213



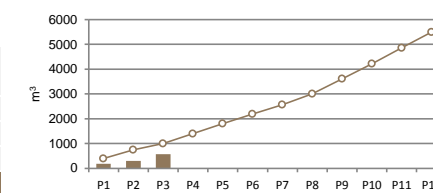
Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1038	392
Out of Scope	0	0
Total:	1038	392



VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	0	0
Via framework	5122	575
Out of Scope	370	0
Total:	5492	575

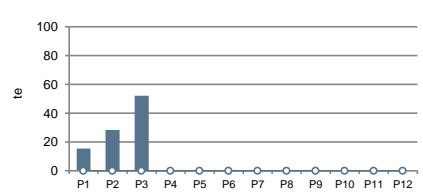


LLWR Ltd

These graphs show the cumulative actual waste diverted by Low Level Waste Repository Ltd against their JWMP targets in the YTD.

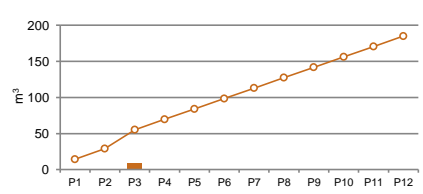
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	0	6
Out of Scope	0	47
Total:	0	52



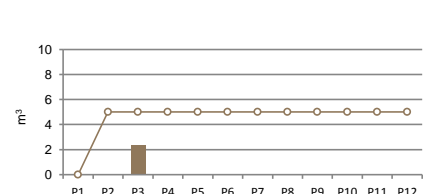
Combustible Treatment:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	185	9
Out of Scope	0	0
Total:	185	9



VLLW Disposal:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	5	2
Out of Scope	0	0
Total:	5	2

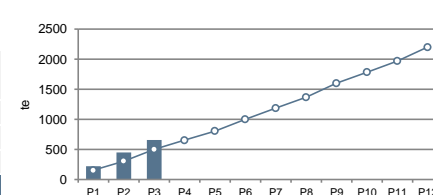


Sellafield Ltd

These graphs show the cumulative actual waste diverted by Sellafield Ltd against their JWMP targets in the YTD.

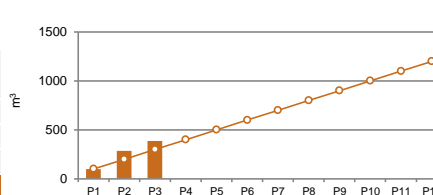
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	1500	471
Via framework	700	186
Out of Scope	0	0
Total:	2200	657



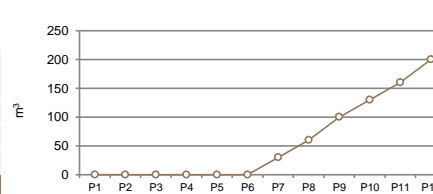
Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1200	387
Out of Scope	0	0
Total:	1200	387



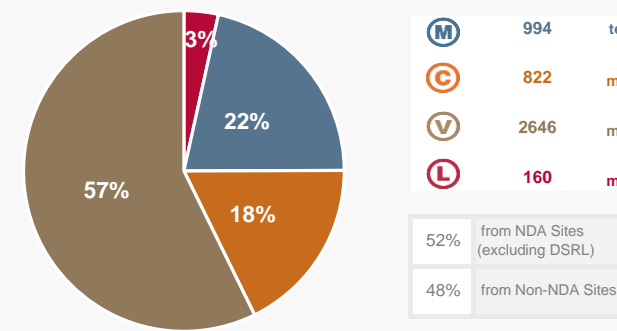
VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	0	996
Via framework	200	0
Out of Scope	0	0
Total:	200	0



* Actuals/Target YTD only applies to VLLW via the framework

Diversion and Disposal Totals YTD based on Raw Waste (***)

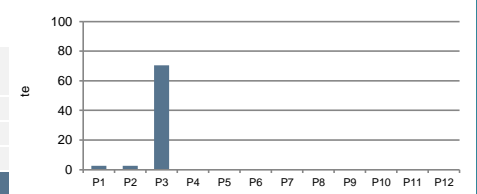


Non-NDA Site Summary YTD

These graphs are a summary of the cumulative diversions to date from Non NDA sites.

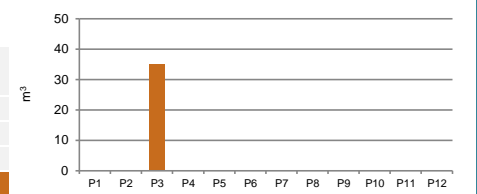
Metallic Treatment:

	Yearly Forecast	Actual YTD
Onsite treatment	N/A	0
Via framework	N/A	71
Out of Scope	N/A	0
Total:	N/A	71



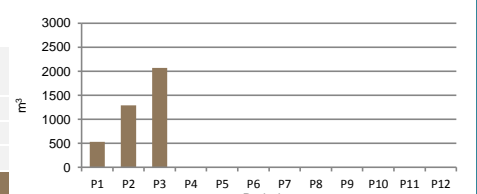
Combustible Treatment:

	Yearly Forecast	Actual YTD
Onsite treatment	N/A	0
Via framework	N/A	35
Out of Scope	N/A	0
Total:	N/A	35



VLLW Disposal:

	Yearly Forecast	Actual YTD
Onsite disposal	N/A	0
Via framework	N/A	2071
Out of Scope	N/A	0
Total:	N/A	2071



Non-NDA Sites (YTD)****

This table shows the cumulative actual waste diverted*** by non-NDA sites in the YTD

Non-NDA Site(s)	M (te)	C (m³)	V (m³)
Cyclife (1)	0	0	0
AWE Aldermaston	68	0	16
EDF Energy	0	0	0
Urenco UK	0	0	27
Tradebe Inutec Ltd	0	0	60
Capenhurst Nuclear Services	3	35	1706
Unitech	0	0	0
Others	0	0	262

The values above are inclusive of material diverted through direct contracts:
0 te Metallic, 35 m³ Combustible, 0 m³ VLLW



Capenhurst Nuclear Services Ltd VLLW

ILW → LLW Re-Classification

This table shows the actual volume of waste re-classified from ILW to LLW in the YTD.

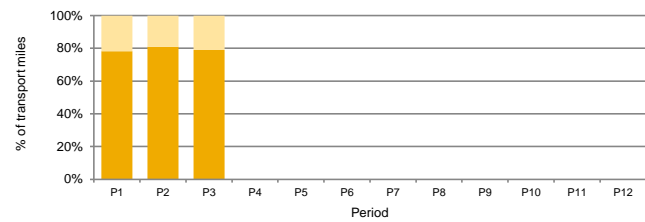
SLC	Actual Volume Re-Classified YTD (m³)
Magnox Ltd	-
Sellafield Ltd	-
LLWR Ltd	-
Dounreay	-
Non-NDA estate	-
Total	0



Transport and Packaging

Utilisation of Transport Fleet

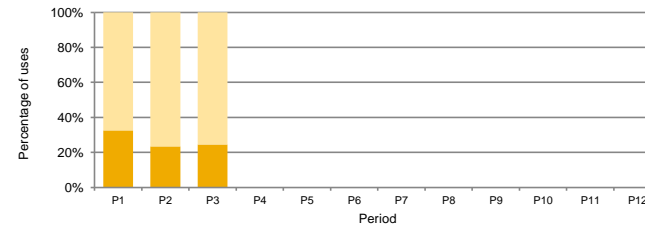
This graph gives the relative percentage for empty miles (miles transporting empty containers) and utilised miles (miles transporting containers holding waste). A high utilisation % shows transport assets being used effectively.



YTD Miles	YTD Average
46,956	79%
12,186	21%

Package Re-use

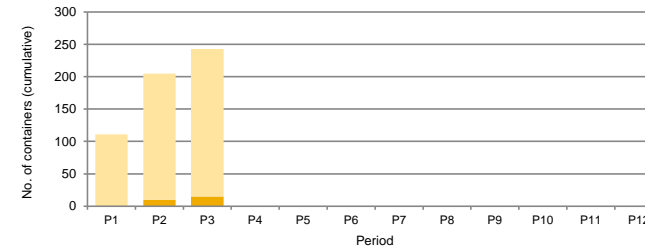
This graph shows, of the total number of containers transported, the percentage of packages that were a re-used container. A high re-use % shows transport assets being used effectively.



YTD (no.)	YTD Average
175	33%
471	67%

Road vs. Rail Transports

This graph shows the total number of containers transported, which were by rail and which were by road. This includes rail shipments from Sellafield to LLWR.

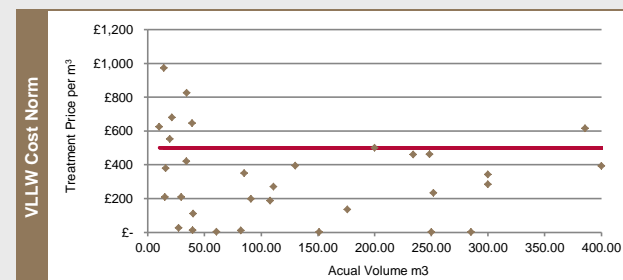
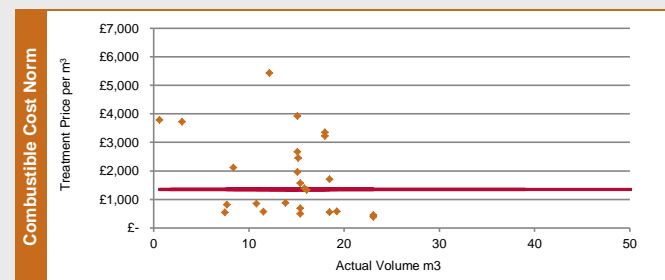
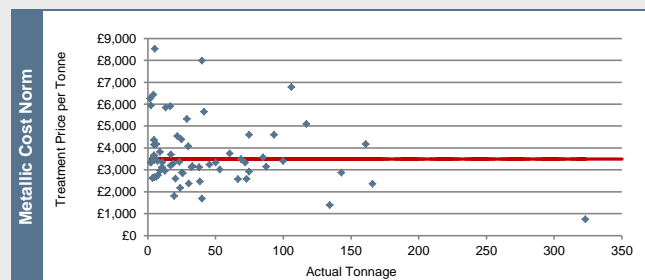


% Container No.s	% Container Miles
6%	1%
94%	99%

Cost Norms

The three graphs below show the cost norms with the actual price per contract for comparison.

Key: — Cost Norm ♦♦ Actual Price



LLW Disposals and LLWR Vault Capacity

LLW Disposals

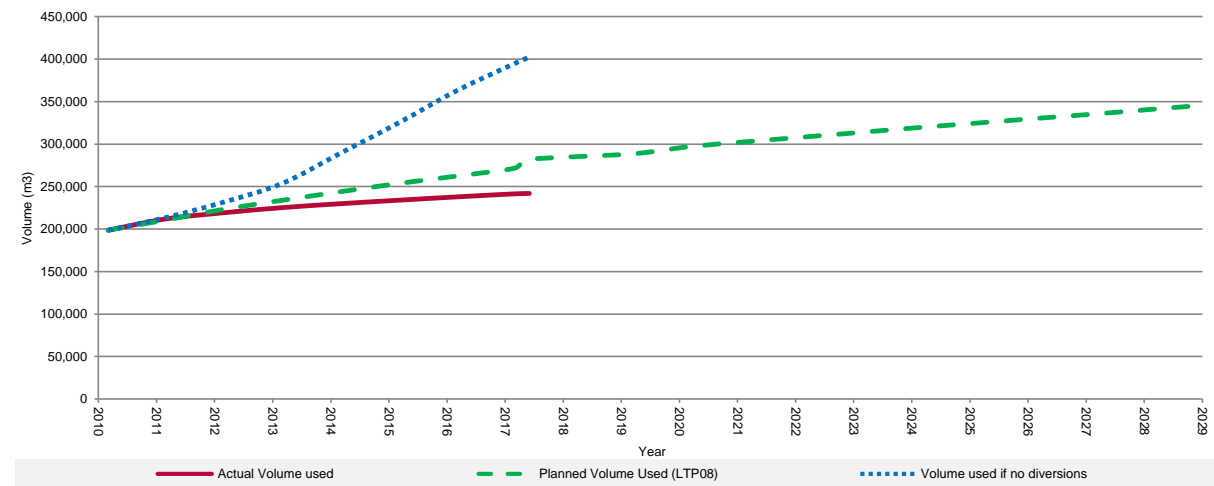
This table gives the number of LLW containers disposed of as LLW in the YTD.

Site(s)	No. of Containers sent for LLWR Disposal in the YTD												Total	
	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12		
NDA														
Sellafield Ltd	0	10	6											16
Magnox Ltd	0	0	0											0
LLWR Ltd	0	0	0											0
Cyclife	0	0	0											0
AWE Aldermaston	0	0	0											0
EDF Energy	0	0	0											0
Urenco UK	0	0	0											0
Tradebe Inutec Ltd	0	0	0											0
Capenhurst Nuclear Services	0	0	0											0
Unitech	0	0	0											0
Others	0	0	0											0
TOTAL	0	10	6	0	0	0	0	0	0	0	0	0	0	16

Dounreay Vaults	No. of Containers sent disposed of at Dounreay in the YTD												Total	
	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12		
Dounreay - Main Vault	0	0	16											16
Dounreay - Demolition Vault	0	0	0											0

Total Impact of Diversions on LLWR Site

This graph compares the actual site capacity used, against the planned capacity according to Life Time Plan (LTP) 08, and the capacity that would have been used if no treatment options were utilised. Actual disposals are based on the number of containers received by LLWR per year. To convert between raw volume and container number it has been assumed that one container takes up 22.8m³ of vault space. For metallic wastes it has been assumed that 10te is contained within a HHISO. This graph starts in April 2010 when the new LLWR waste services contract was introduced. Up to this point 266,180m³ of waste had been consigned to LLWR for disposal. For the purpose of this graph these values assume no secondary waste is received by LLWR from treatment providers.



Total volume saved by diversions: **160,586 m³** Total no. of equivalent HHISO containers saved by diversion: **7,043**

Usage of Waste Routes

Route Status

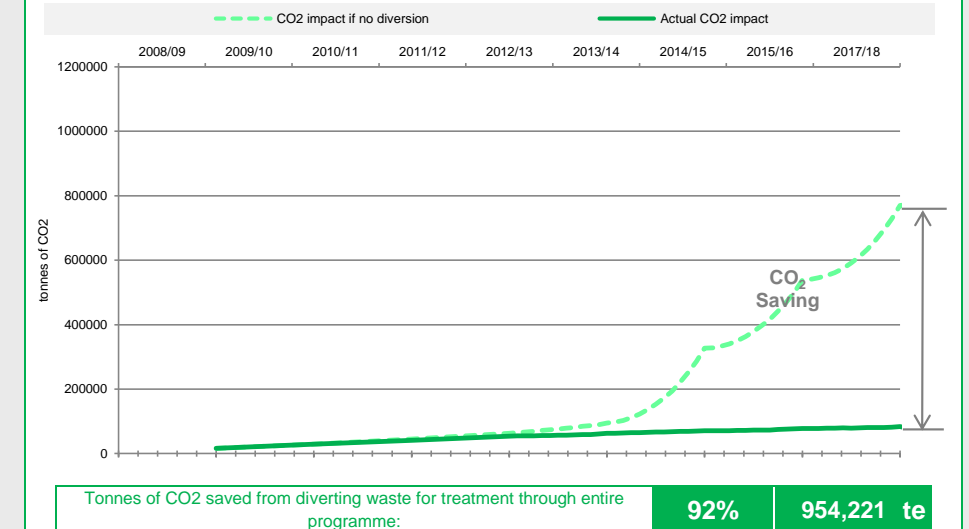
This table shows the routes available to each of the sites, which have been utilised and which are yet to be utilised. This date is reflective of waste route usage from 2008 to the YTD.

SLC	Site	M	G	V	L
LLWR	LLWR	●	●	●	●
DSRL	Dounreay	●	●	●	●
Sellafield Ltd	Sellafield	●	●	●	●
Magnox Ltd	Berkeley	●	●	●	●
	Bradwell	●	●	●	●
	Chapelcross	●	●	●	●
	Dungeness A	●	●	●	●
	Hinkley Point A	●	●	●	●
	Hunterston A	●	●	●	●
	Oldbury	●	●	●	●
	Sizewell A	●	●	●	●
	Trawsfynydd	●	●	●	●
	Wylfa	●	●	●	●
EDF - Energy	Dungeness B	●	●	●	●
	Hartlepool	●	●	●	●
	Heysham 1	●	●	●	●
	Heysham 2	●	●	●	●
	Hinkley Point B	●	●	●	●
	Hunterston B	●	●	●	●
	Sizewell	●	●	●	●
	Torness	●	●	●	●
	RRMPOL	●	●	●	●
	HMNB Rosyth	●	●	●	●
MoD Sites	HMNB Devonport	●	●	●	●
	HMNB Clyde	●	●	●	●
	AWE Aldermaston	●	●	●	●
	Barrow	●	●	●	●
	Eskmeals	●	●	●	●
	Urenco UK Ltd	●	●	●	●
	Capenhurst Nuclear Services (CNS)	●	●	●	●
	GE Healthcare Ltd Amersham	●	●	●	●
	UKAEA Culham JET Site	●	●	●	●
	Medical Research Council	●	●	●	●

Key: ● Route not open ● Route in use
● Route available ✕ Recent status change

Environment

Environmental Impact



Tonnes of CO2 saved from diverting waste for treatment through entire programme: **92%** **954,221 te**

Dashboard Commentary:

Notes:

* JWMP targets have been revised in P1 to reflect version 12 submissions
 ** Diversion totals from Non NDA include framework and non framework consignments.
 *** Metallic Waste (te) to (m³) Conversion: 1.00 te/m³ (assuming 10te per HHISO)
 ****for Non NDA sites, "zero" diversion may either reflect no diversion or diversion via direct contracts or self-performance which is not reported to LLWR at this time