LLW Repository Ltd | NDA Nuclear Decommissioning Authority

National Waste Programme

March 2014 Waste Metric Dashboard

Period 12: 23rd February to 31st March FY 13/14

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, based on delivery of Joint Waste Management Plans (JWMPs). The objective is to encourage transparency and communicate progress to all stakeholders.

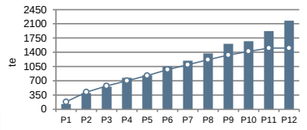
Sellafield Ltd (1)

JWMP Targets 2013/14

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

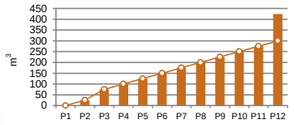
Metallic Recycling:

	Yearly Target	Actual YTD
Onsite treatment	801	1288
Via framework	700	888
Out of Scope	0	0
Total:	1501	2176



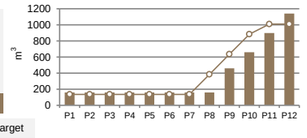
Combustible Recycling:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	300	425
Out of Scope	0	0
Total:	300	425



VLLW Recycling:

	Yearly Target	Actual YTD
Onsite treatment	3791	0
Via framework	1010	1140
Out of Scope	0	0
Total:	1010*	1140



Cumulative — Target

* Target only applies to VLLW via the framework

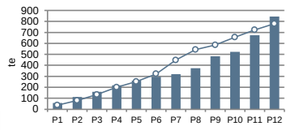
Magnox Ltd (2 3 4 5 6 7 8 9 10 11)

JWMP Targets 2013/14

These graphs show the cumulative actual waste diverted by Magnox Ltd against their JWMP targets.

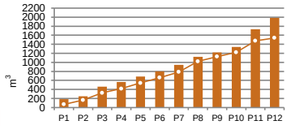
Metallic Recycling:

	Yearly Target	Actual YTD
Onsite treatment	194	35
Via framework	585	508
Out of Scope	0	301
Total:	779	844



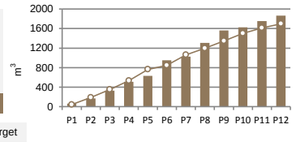
Combustible Recycling:

	Yearly Target	Actual YTD
Onsite treatment	68	69
Via framework	1474	1813
Out of Scope	0	105
Total:	1542	1987



VLLW Recycling:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1191	1687
Out of Scope	508	180
Total:	1699	1867



Cumulative — Target

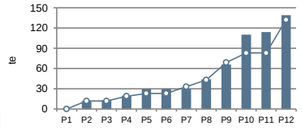
RSRL (12 13)

JWMP Targets 2013/14

These graphs show the cumulative actual waste diverted by Research Sites Restoration Ltd against their JWMP targets.

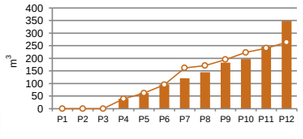
Metallic Recycling:

	Yearly Target	Actual YTD
Onsite treatment	31	68
Via framework	101	71
Out of Scope	0	0
Total:	132	139



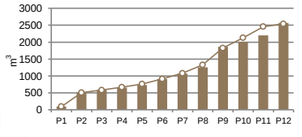
Combustible Recycling:

	Yearly Target	Actual YTD
On site disposal	0	0
Via framework	264	349
Out of Scope	0	0
Total:	264	349



VLLW Recycling:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	2542	2567
Out of Scope	0	0
Total:	2542	2567



Cumulative — Target

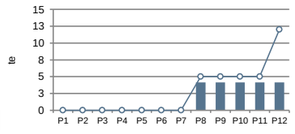
LLWR Ltd (15)

JWMP Targets 2013/14

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

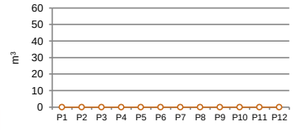
Metallic Recycling:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	12	0
Out of Scope	0	4
Total:	12	4



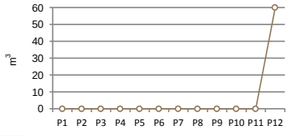
Combustible Recycling:

	Yearly Target	Actual YTD
On site disposal	0	0
Via framework	0	0
Out of Scope	0	0
Total:	0	0

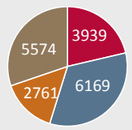


VLLW Recycling:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	60	0
Out of Scope	0	0
Total:	60	0

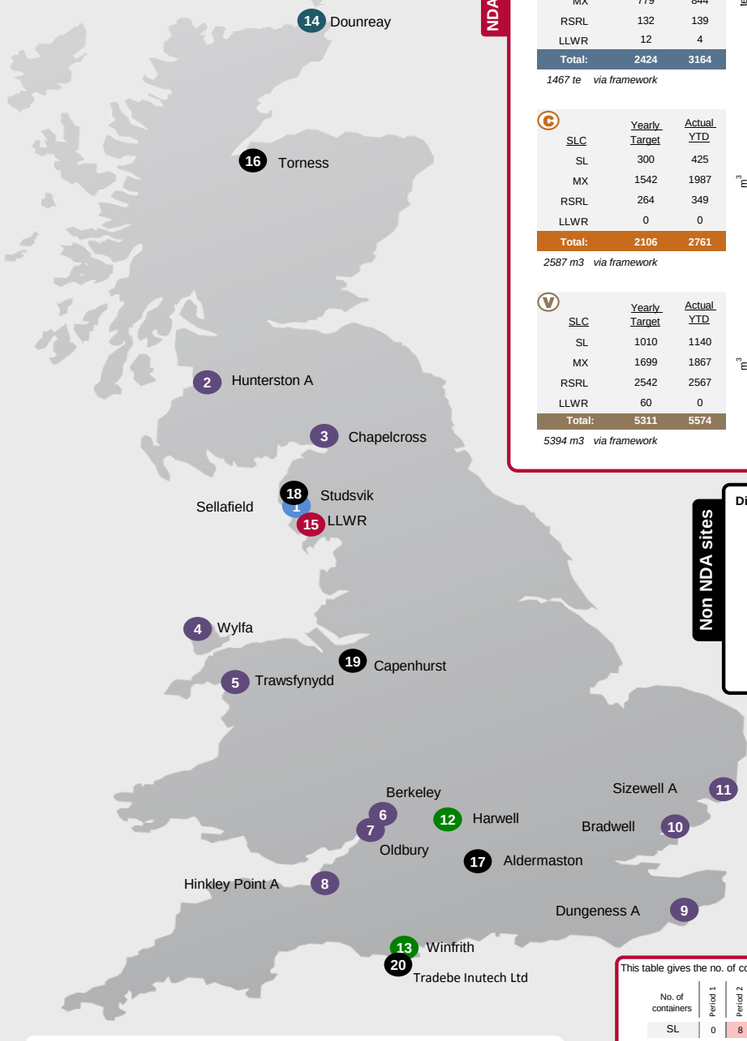


Cumulative — Target



YTD Totals (m3) *
- LLW disposed
- Metallic diverted
- Combust. diverted
- VLLW diverted

NDA sites only - raw volume.



NDA Site Summary YTD

Metallic , Combustible and Very Low Level Waste

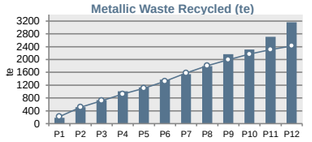
FY2013/14 Summary - Period 12**

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 and Non NDA waste diversion. Non NDA waste diversion is captured in the box below.

SLC	Yearly Target	Actual YTD
SL	1501	2176
MX	779	844
RSRL	132	139
LLWR	12	4
Total:	2424	3164

1467 te via framework

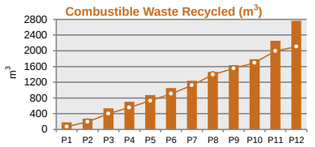
Metallic Waste Recycled (te)



SLC	Yearly Target	Actual YTD
SL	300	425
MX	1542	1987
RSRL	264	349
LLWR	0	0
Total:	2106	2761

2587 m3 via framework

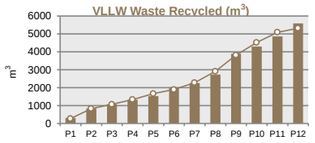
Combustible Waste Recycled (m^3)



SLC	Yearly Target	Actual YTD
SL	1010	1140
MX	1699	1867
RSRL	2542	2567
LLWR	60	0
Total:	5311	5574

5394 m3 via framework

VLLW Waste Recycled (m^3)



Non NDA sites

Diversion totals from Non-NDA sites (YTD) ***

	Studsvik	AWE	EDF Energy	CNS	Tradebe Inutec Ltd	Unitech	GE	Others	
M	0	160	2	163	0	0	0	0	(te)
C	0	5	0	0	0	0	0	0	(m^3)
V	19	216	0	421	12	0	0	0	(m^3)

Totals M 325 te C 5 m^3 V 668 m^3

Pressure Vessel

LLW Disposed

This table gives the no. of containers disposed of at the LLWR facility each Period.

No. of containers	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12
SL	0	8	20	16	12	20	3	10	18	17	6	10
MX	4	0	3	0	0	0	0	0	4	0	0	6
DSRL*	0	0	1	0	1	1	0	0	0	0	0	0
RSRL	4	1	0	0	1	0	0	0	0	0	0	0
LLWR	0	0	0	0	0	0	0	0	0	0	0	0
Others**	5	4	3	1	0	3	10	4	0	0	5	4
TOTAL	13	13	27	17	14	24	13	14	22	17	11	20

*Containers stored at DSRL **Others include Non-NDA sites

Footnotes

*Metallic waste hase been converted to raw volume assuming 10te per Half Height Isofreight container (HHISO) and a HHISO volume of 19.5m^3. The same volume has been used to convert LLWR container numbers to raw volumes.

**Dashboards generated from Period 7 forwards include the updated targest from SLC's JWMP 5 submissions.

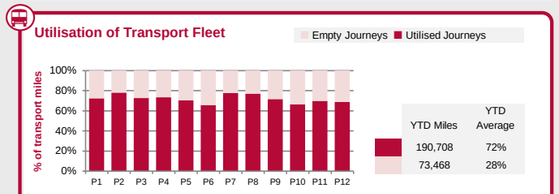
*** Diversion totals from Non NDA include framework and non framework consignments.

LLW Repository Ltd | NDA Nuclear Decommissioning Authority

National Waste Programme

Transport and Packaging

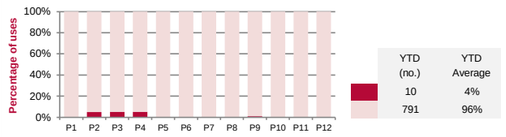
Utilisation of Transport Fleet



	YTD Miles	YTD Average
	190,708	72%
	73,468	28%

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.

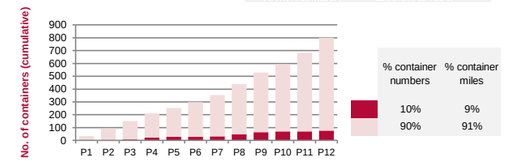
Package Re-use



	YTD (no.)	YTD Average
	10	4%
	791	96%

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.

Road vs. Rail Transports

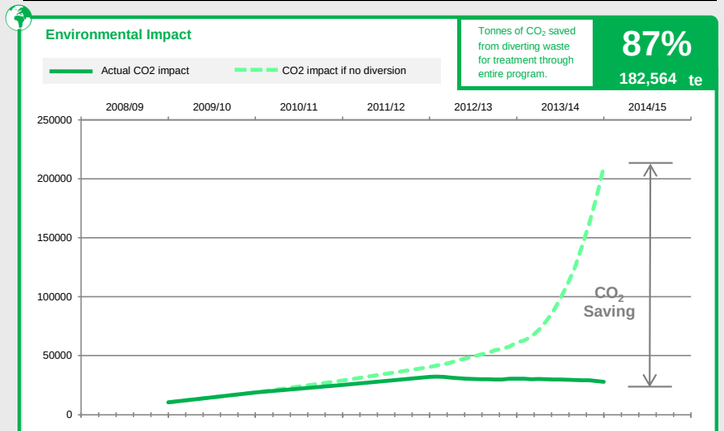


	% container numbers	% container miles
	10%	9%
	90%	91%

This graph shows of the total number of containers transported, which were by rail and which were by road. Rail shipments from Sellafield to LLWR are excluded as they include containers that have been transported by road for the majority of their journey.

Safety Environment and Assurance

Environmental Impact



Tonnes of CO_2 saved from diverting waste for treatment through entire program.

87%

182,564 te

The graph above gives the CO2 saving through diverting waste for treatment instead of disposing at LLWR. VLLV disposed of onsite is not included.

RIDDOR/OSHA

RIDDOR and OSHA are measures of reporting safety incidents.

Quarter in FY 13/14	Q1	Q2	Q3	Q4*
Transport RIDDOR1	0	0	0	0
Repository RIDDOR1	0	0	0	0
Repository OSHA (TRIR**)2	0	0	0	0

1. (N. of RIDDOR's)/ (No. people employed) x100,00

2. (No. of incidents)/ (No. of hours worked) x200,000

* Quarter 4 figures as at the end of Period 12

**TRIR (Total recordable incident rate)

Supply Chain Non Conformance

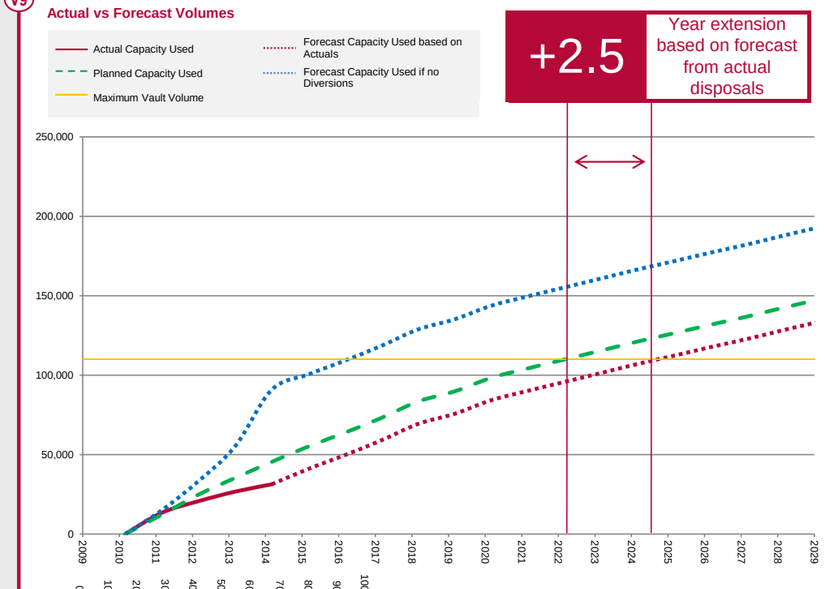
No. of non-conformances YTD	56
Average no. of non-conformances YTD	4.7

Period	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
No. of supply chain non-conformances	14	6	6	8	6	2	4	3	1	3	3	0

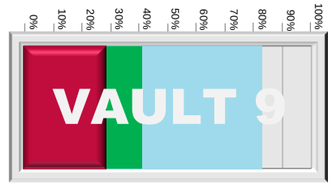
This table reflects the number of reported non-conformances within the supply chain on a monthly basis.

LLWR Vault 9 Capacity

Actual vs Forecast Volumes



+2.5 Year extension based on forecast from actual disposals



28% Actual Capacity used
1370 containers

41% Planned Capacity Utilisation (LTP08)
1989 containers

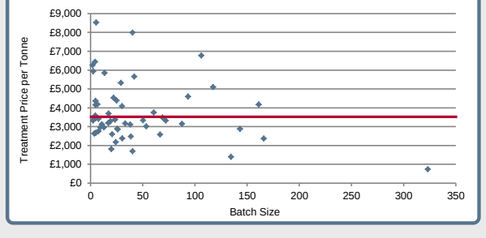
82% Capacity if treatment options not utilised
3979 containers

View of vault 9

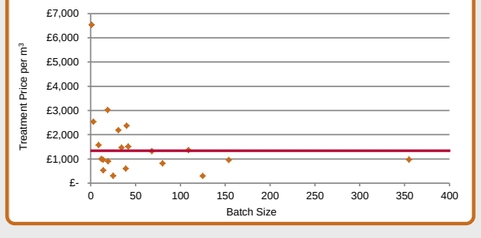
This graph compares the actual vault capacity used, against the planned capacity according to LTP08 and the capacity that would have been used if no treatment options were utilised. This graph is based on data from the past calendar year. These values assume all waste consigned to LLWR since FY 10/11 was for storage in vault 9. and all waste diverted since FY 10/11 would have been stored in vault 9. For metallic wastes it has been assumed that 10te is contained within a HHISO.

Cost Norms

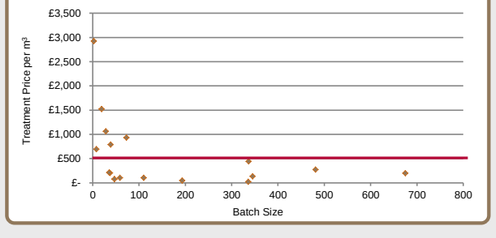
Cost Norms Metallic Waste



Cost Norms Combustible Waste



Cost Norms VLLW Waste



Usage of Waste Routes - NDA SLC's

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.

Key

- Route not open
- Route available
- Route in use
- Recent status change

SLC	Site	Metallic Waste	Combustible Waste	LLW	VLLW / LALLW
Sellafield Ltd	Sellafield	●	●	●	●
Magnox Ltd	Berkeley	●	●	●	●
	Bradwell	●	●	●	●
	Chapelcross	●	●	●	●
	Dungeness A	●	●	●	●
	Hinkley Point A	●	●	●	●
	Hunterston A	●	●	●	●
	Oldbury	●	●	●	●
	Sizewell A	●	●	●	●
	Trawsfynydd	●	●	●	●
	Wylfa	●	●	●	●
RSRL	Harwell	●	●	●	●
	Winfrith	●	●	●	●
LLWR	LLWR	●	●	●	●
DSRL	Dounreay	●	●	●	●

National Waste Programme | Key Achievements This Quarter

Quarter 3 Milestones 2013/2014

- ✓ Review of environmental permits across all Magnox sites (Magnox)
- ✓ Complete LLW Fingerprint Review (Magnox)
- ✓ Undertake aggregated WEF for metallic wastes (Magnox)
- ✓ Alternative HHISO Project: Fabricate prototype concrete HHISOs for testing (DSRL)

Quarter 4 Milestones 2013/2014

- ✓ Implement Combustible waste route as business as usual (SL)
- ✓ Work with Regulators and NDA to define site end state for Winfrith (RSRL)
- ✓ Re-compete Metals, Combustibles and Supercompaction framework (LLWR)
- ___ Transfer inventory Data to eMWaste tracking tool (Magnox)