LLW Repository Ltd | Nuclear Decommissioning Authority

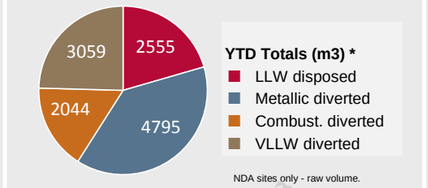
National Waste Programme

January 2015 Waste Metric Dashboard

Period 10 : 28th December to 23rd January FY 14/15

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.



NDA Site Summary YTD

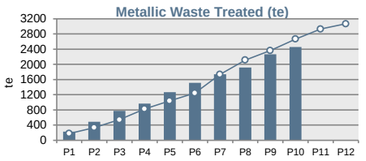
Metallic , Combustible and Very Low Level Waste

FY2014/15 Summary - Period 10**

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.

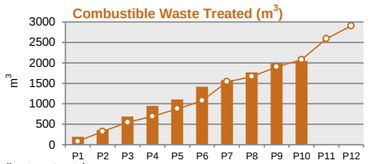
SLC	Yearly Target	Actual YTD
SL	2116	1914
MX	832	483
RSRL	112	62
LLWR	5	0
Total:	3065	2459

899 te via framework (inc. 5.8te via direct contracts)



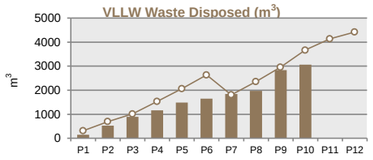
SLC	Yearly Target	Actual YTD
SL	825	650
MX	1682	1202
RSRL	387	192
LLWR	10	0
Total:	2904	2044

2044 m3 via framework (inc. 74m3 via direct contracts)



SLC	Yearly Target	Actual YTD
SL	425	35
MX	2482	1826
RSRL	1514	1198
LLWR	0	0
Total:	4420	3059

2748 m3 via framework



Non NDA sites

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

	Studsvik	AWE	EDF Energy	Urenco UK	Tradebe	Inutec Ltd	UniTech	Energy Solutions	Others	
M	0	0	9	0	0	0	0	0	0	(te)
C	0	0.4	0	0	0	0	0	0	0	(m3)
V	13	108	0	513	0	0	79	0	0	(m3)

Totals M 9 te C 0.4 m3 V 713.7 m3

Trawsfynydd VLLW

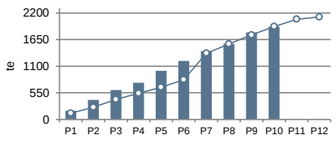
Sellafield Ltd (1)

JWMP Targets 2014/15

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

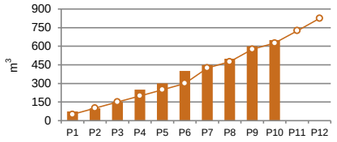
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	1200	1247
Via framework	916	667
Out of Scope	0	0
Total:	2116	1914



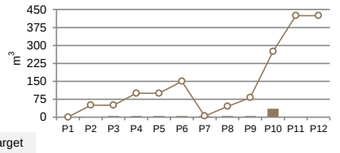
Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	825	650
Out of Scope	0	0
Total:	825	650



VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	3065	2944
Via framework	425	35
Out of Scope	0	0
Total:[1]	425	35



Cumulative Target

[1] Actuals/Target YTD only applies to VLLW via the framework

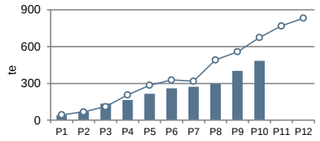
Magnox Ltd (2 3 4 5 6 7 8 9 10 11)

JWMP Targets 2014/15

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

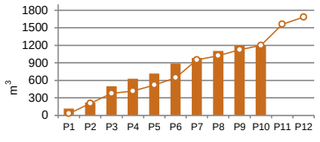
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	14	51
Via framework	468	205
Out of Scope	350	211
Total:	832	483



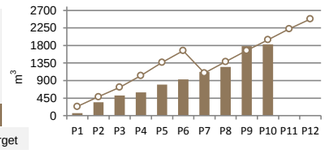
Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1682	1202[1]
Out of Scope	0	0
Total:	1682	1202



VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	0	0
Via framework	2482	1526
Out of Scope	0	300
Total:	2482	1826



Cumulative Target

[1] includes 52m3 via direct contracts

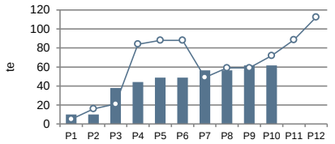
RSRL (12 13)

JWMP Targets 2014/15

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

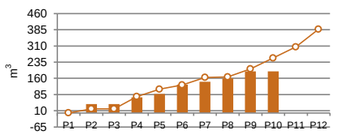
Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	55	35
Via framework	57	26
Out of Scope	0	0
Total:	112	62



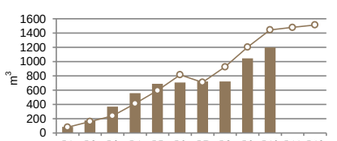
Combustible Treatment:

	Yearly Target	Actual YTD
On site treatment	0	0
Via framework	387	192
Out of Scope	0	0
Total:	387	192



VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	0	0
Via framework	1505	1186
Out of Scope	9	12
Total:	1514	1198



Cumulative Target

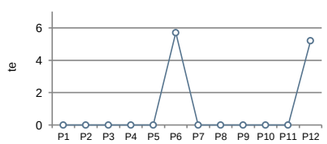
LLWR Ltd (15)

JWMP Targets 2014/15

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

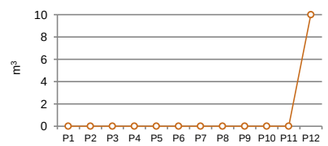
Metallic Treatment:

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



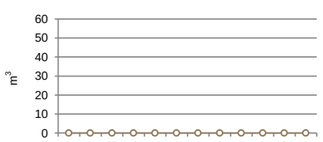
Combustible Treatment:

	Yearly Target	Actual YTD
On site treatment	0	0
Via framework	10	0
Out of Scope	0	0
Total:	10	0



VLLW Disposal:

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



Cumulative Target

LLW Disposed

LLW Disposals FYTD: 131

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	9	14	7	6	11	11	8	19	19	-	-
MX	0	0	1	2	0	3	0	0	3	0	-	-
DSRL*	0	0	0	0	0	0	0	0	0	0	-	-
RSRL	0	0	0	0	0	0	0	0	2	0	-	-
LLWR	0	0	0	0	0	0	0	0	0	0	-	-
Others**	1	0	0	0	3	0	4	2	6	0	-	-
TOTAL	1	9	15	9	9	14	15	10	30	19	0	0

*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 19.5m3. The same volume has been used to convert LLWR container numbers to raw volumes.

**NDA SLC forecasts for periods 1 to 6 reflect the targets from JWMP 6, whereas periods 7 to 12 reflect the targets from JWMP 7.

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

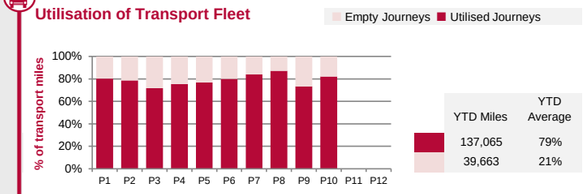
LLW Repository Ltd

Nuclear Decommissioning Authority

National Waste Programme

Transport and Packaging

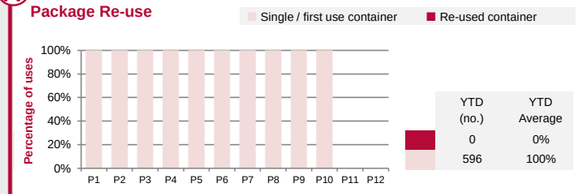
Utilisation of Transport Fleet



	YTD Miles	YTD Average
Utilised Journeys	137,065	79%
Empty Journeys	39,663	21%

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.

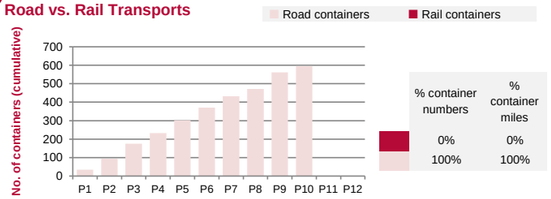
Package Re-use



	YTD (no.)	YTD Average
Re-used container	0	0%
Single / first use container	596	100%

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
Rail containers	0%	0%
Road containers	100%	100%

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.

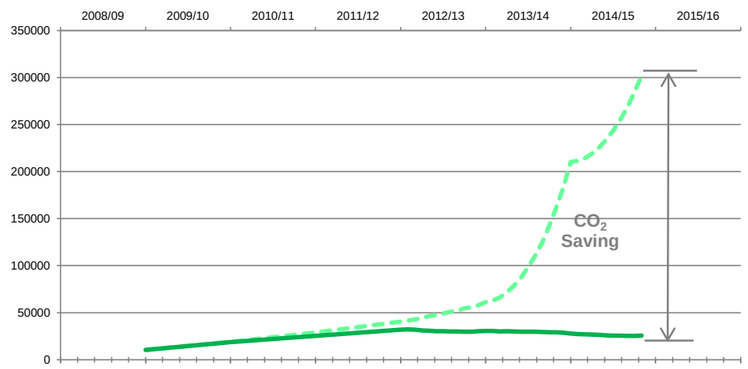
Safety Environment and Assurance

Environmental Impact

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

92%

276,255 te



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

RIDDOR/OSHA

RIDDOR and OSHA are measures of reporting safety incidents.

Quarter in FY 14/15	Q1	Q2	Q3*	Q4
Transport RIDDOR1	0.00	0.00	0.00	
Repository RIDDOR1	0.00	0.00	0.00	
Repository OSHA (TRIR**)2	0.00	0.36	0.35	

1. (N. of RIDDORfi)/ (No. people employed) x100,00

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

* Quarter 4 figures as at the end of Period 10 **TRIR (Total recordable incident rate)

Supply Chain Non Conformance

No. of non-conformances YTD	10
Average no. of non-conformances YTD	1.0

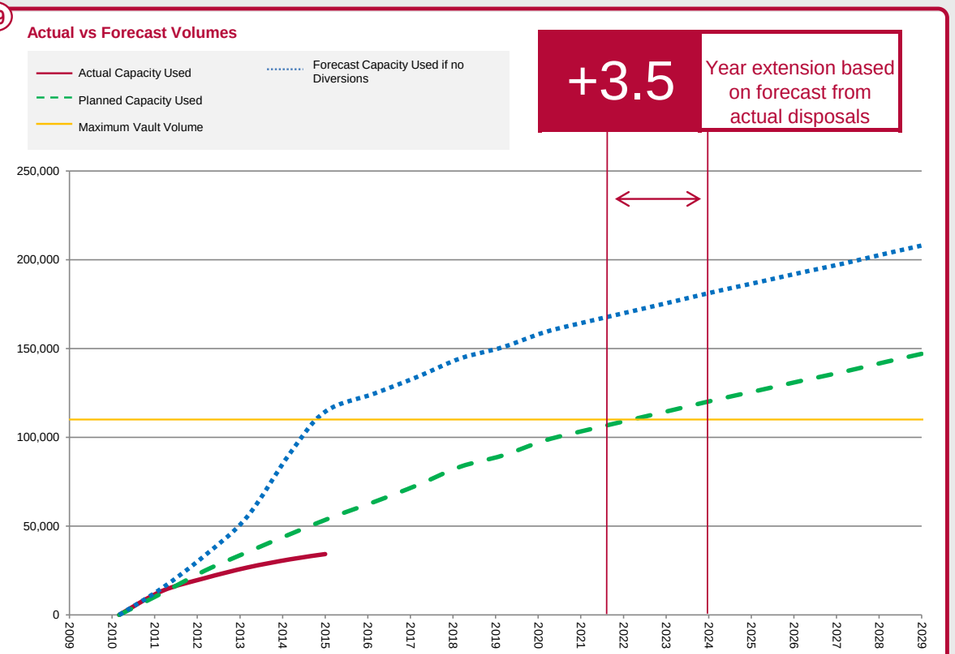
Period	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
No. of supply chain non-conformances	0	3	1	0	0	0	4	1	1	0		

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

+3.5 Year extension based on forecast from actual disposals



31% Actual Capacity used
1501 containers

50% Planned Capacity Utilisation (LTP08)
2414 containers

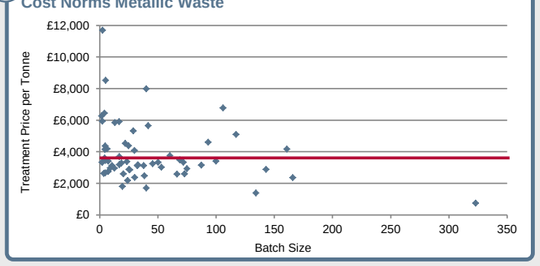
104% Capacity if treatment options not utilised
5018 containers

View of vault 9

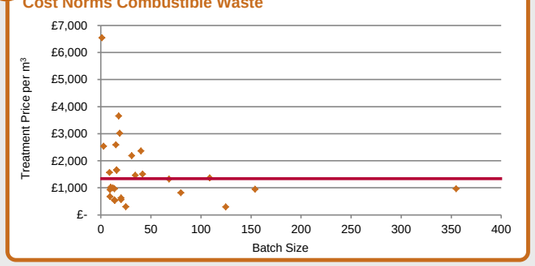
This graph compares the actual vault capacity used, against the planned capacity according to LTP08 and the capacity that would have been used if no treatment options were utilised. This graph is based on data from the past calendar year. These values assume all waste consigned to LLWR since FY 10/11 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

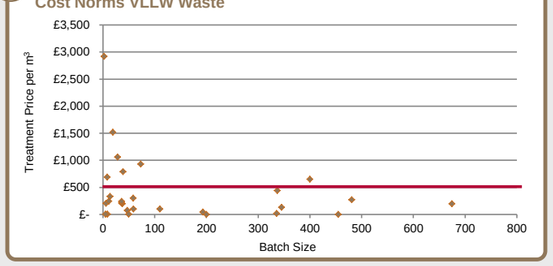
Cost Norms Metallic Waste



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 2014/2015

- ✓ RSRL to implement planned improvements to the Winfrith Segmented Gamma Scanner
- ✓ Sellafield Ltd to work with LLWR to re-engineer SL consignment approach to enable LLW to be consigned under the revised WAC
- ✓ LLWR to review orphan waste database to identify opportunity to complete feasibility study for one waste
- ___ Magnox to to review waste assay requirements, identify gaps, develop action plan

Quarter 4 Milestones 2014/2015

- ___ RSRL to critically review application of the WH on key decommissioning projects during implementation of the Independent Assessment Programme for 2014/15
- ___ LLWR to carry out feasibility study for a solution to one orphan waste population