

# November 2017 Waste Metric Dashboard

Period 8 : 29th October to 25th November 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	1493
Magnox Ltd	982	1102
LLWR Ltd	63	63
<b>Total:</b>	<b>3245</b>	<b>2658</b>

450 te via framework

**Combustible Treatment:**

	Yearly Target	Actual YTD
Sellafield Ltd	1600	1288
Magnox Ltd	1229	739
LLWR Ltd	174	131
<b>Total:</b>	<b>3003</b>	<b>2158</b>

2142 m<sup>3</sup> via framework

**VLLW Disposal:**

	Yearly Target	Actual YTD
Sellafield Ltd <sup>1</sup>	700	776
Magnox Ltd	1972	1487
LLWR Ltd	41	10
<b>Total:</b>	<b>2713</b>	<b>2273</b>

2265 m<sup>3</sup> via framework

### 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	16	11
Out of Scope	47	52
<b>Total:</b>	<b>63</b>	<b>63</b>

**Combustible Treatment:**

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	168	125
Out of Scope	6	6
<b>Total:</b>	<b>174</b>	<b>131</b>

**VLLW Disposal:**

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	41	2
Out of Scope	0	8
<b>Total:</b>	<b>41</b>	<b>10</b>

### Magnox Ltd

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

**Metallic Treatment:**

	Yearly Target	Actual YTD
Onsite treatment	89	86
Via framework	142	47
Out of Scope	751	969
<b>Total:</b>	<b>982</b>	<b>1102</b>

**Combustible Treatment:**

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1229	729
Out of Scope	0	10
<b>Total:</b>	<b>1229</b>	<b>739</b>

**VLLW Disposal:**

	Yearly Target	Actual YTD
Onsite disposal	0	0
Via framework	1972	1487
Out of Scope	0	0
<b>Total:</b>	<b>1972</b>	<b>1487</b>

### Sellafield Ltd

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

**Metallic Treatment:**

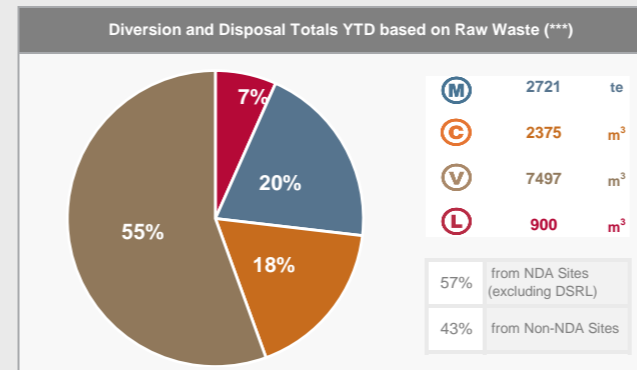
	Yearly Target	Actual YTD
Onsite treatment	1600	1101
Via framework	600	392
Out of Scope	0	0
<b>Total:</b>	<b>2200</b>	<b>1493</b>

**Combustible Treatment:**

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1600	1288
Out of Scope	0	0
<b>Total:</b>	<b>1600</b>	<b>1288</b>

**VLLW Disposal:**

	Yearly Target	Actual YTD
Onsite disposal	0	2757
Via framework	700	776
Out of Scope	0	0
<b>Total:</b>	<b>700</b>	<b>776</b>



### 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	63
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>63</b>

**Combustible Treatment:**

	Yearly Forecast	Actual YTD
Onsite treatment	N/A	205
Via framework	N/A	12
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>217</b>

**VLLW Disposal:**

	Yearly Forecast	Actual YTD
Onsite disposal	N/A	0
Via framework	N/A	5224
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>5224</b>

### 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 (m <sup>3</sup> )	V (m <sup>3</sup> )
Cyclife <sup>(1)</sup>	0	0	0
AWE Aldermaston	60	6	193
EDF Energy	0	0	0
Urenco UK	0	0	177
Tradebe Inutec Ltd	0	0	71
Capenhurst Nuclear Services	3	205	3816
Unitech	0	0	0
Others	0	6	967

The values above are inclusive of material diverted through direct contracts:  
0 te Metallic    0 m<sup>3</sup> Combustible    0 m<sup>3</sup> 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 (m <sup>3</sup> )
Magnox Ltd	-
Sellafield Ltd	-
LLWR Ltd	-
Downreay	-
Non-NDA estate	-
<b>Total</b>	<b>0</b>

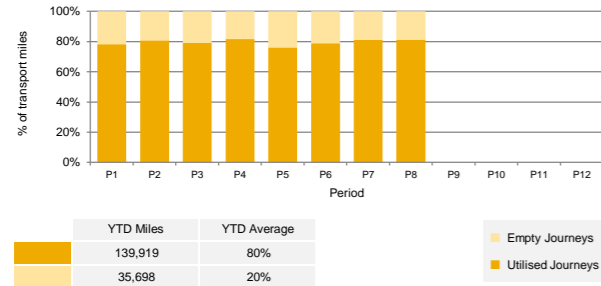
Key: ■ Cumulative Actual Waste diverted    —○— Target / Forecast

<sup>1</sup> Actuals/Target YTD only applies to VLLW via the framework

### Transport and Packaging

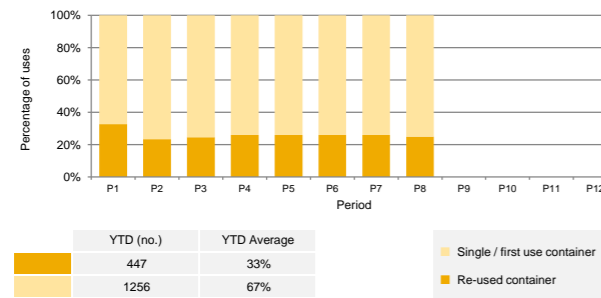
#### Utilisation of Transport Fleet

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.



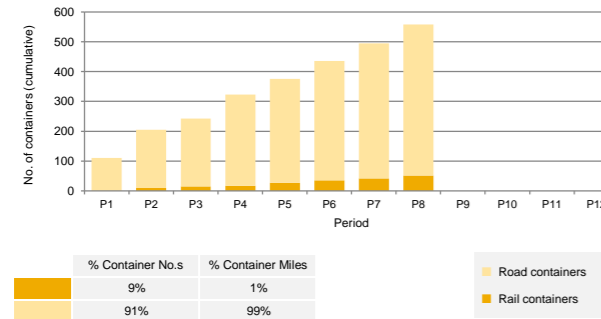
#### Package Re-use

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.



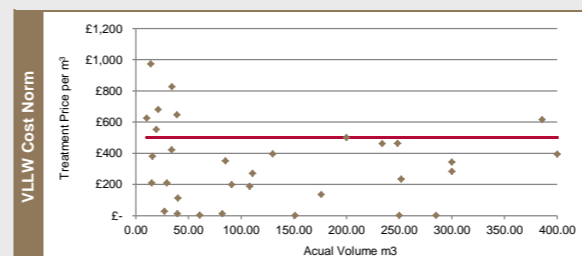
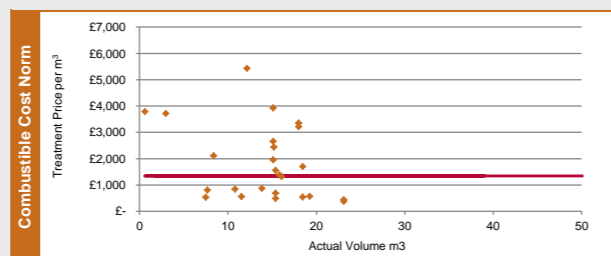
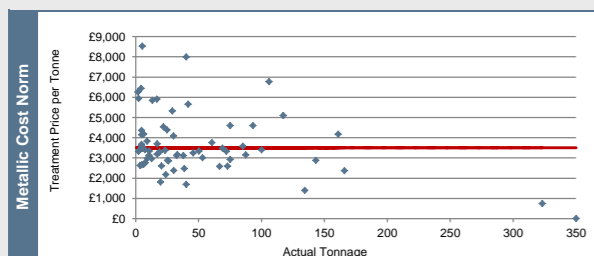
#### Road vs. Rail Transports

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.



### Cost Norms

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



### LLW Disposals and LLWR Vault Capacity

#### LLW Disposals

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

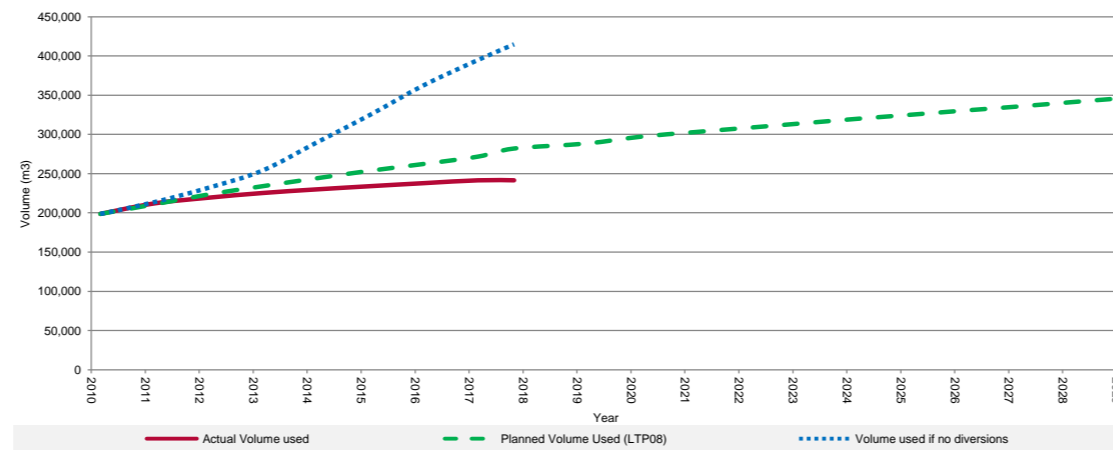
		No. of Containers sent for LLWR Disposal in the YTD													
Site(s)		Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12	Total	
NDA	Sellafield Ltd	0	10	6	3	9	9	6	10					53	
	Magnox Ltd	0	0	0	1	0	3	0	0					4	
	LLWR Ltd	0	0	0	0	0	0	0	0					0	
	Cyclife	0	0	0	0	0	0	0	0					0	
	AWE Aldermaston	0	0	0	0	0	0	0	0					0	
Non-NDA	EDF Energy	0	0	0	0	0	0	0	0					0	
	Urenco UK	0	0	0	0	0	0	0	0					0	
	Tradebe Inutec Ltd	0	0	0	0	2	0	0	0					2	
	Capenhurst Nuclear Services	0	0	0	0	0	0	0	0					0	
	Unitech	0	0	0	0	0	0	0	0					0	
	Others	0	0	0	0	0	0	0	0					0	
	<b>TOTAL</b>	<b>0</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>11</b>	<b>12</b>	<b>6</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>

		No. of Containers sent disposed of at Dounreay in the YTD												
Dounreay Vaults		Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12	Total
Dounreay - Main Vault	0	0	16	0	2	8	3	2						31
Dounreay - Demolition Vault	0	0	0	0	0	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 22.8m<sup>3</sup> 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 266,180m<sup>3</sup> 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: **173,381 m<sup>3</sup>**      Total no. of equivalent HHISO containers saved by diversion: **7,604**

### Usage of Waste Routes

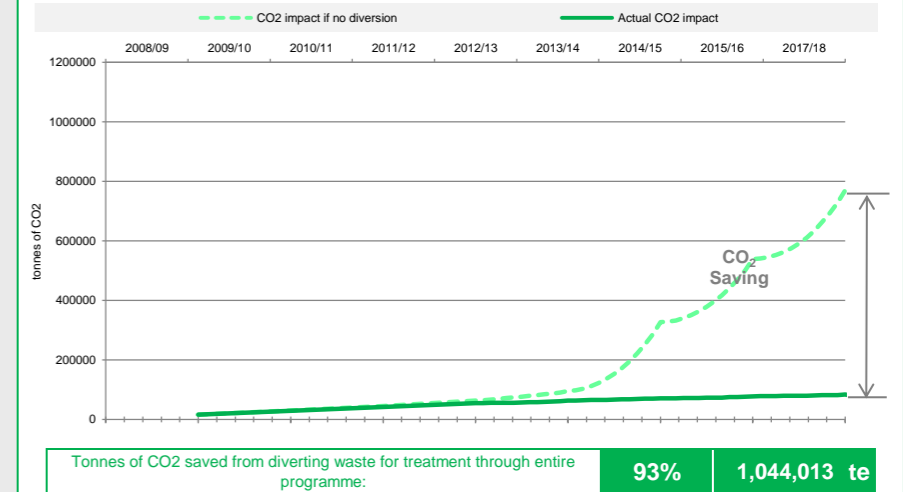
#### Route Status

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	C	V	L	
LLWR	LLWR	●	●	●	●	
DSRL	Dounreay	●	●	●	●	
Sellafield Ltd	Sellafield	●	●	●	●	
Magnox Ltd	Berkeley	●	●	●	●	
	Bradwell	●	●	●	●	
	Chapelcross	●	●	●	●	
	Dungess A	●	●	●	●	
	Hinkley Point A	●	●	●	●	
	Hunterston A	●	●	●	●	
EDF - Energy	Oldbury	●	●	●	●	
	Sizewell A	●	●	●	●	
	Torness	●	●	●	●	
	RRMPOL	●	●	●	●	
	HMNB Rosyth	●	●	●	●	
	HMNB Devonport	●	●	●	●	
	MoD Sites	HMNB Clyde	●	●	●	●
		AWE Aldermaston	●	●	●	●
		Barrow	●	●	●	●
		Eskmeals	●	●	●	●
Urenco UK Ltd		●	●	●	●	
Capenhurst Nuclear Services (CNS)	●	●	●	●		
GE Healthcare Ltd Amersham	●	●	●	●		
UKAEA Culham JET Site	●	●	●	●		
Medical Research Council	●	●	●	●		

### Environment

#### Environmental Impact



#### Dashboard Commentary:

#### Notes:

\* JWMP targets are reflective of JWMP 12. The revised targets will be updated on the P8 Dashboard  
 \*\* 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