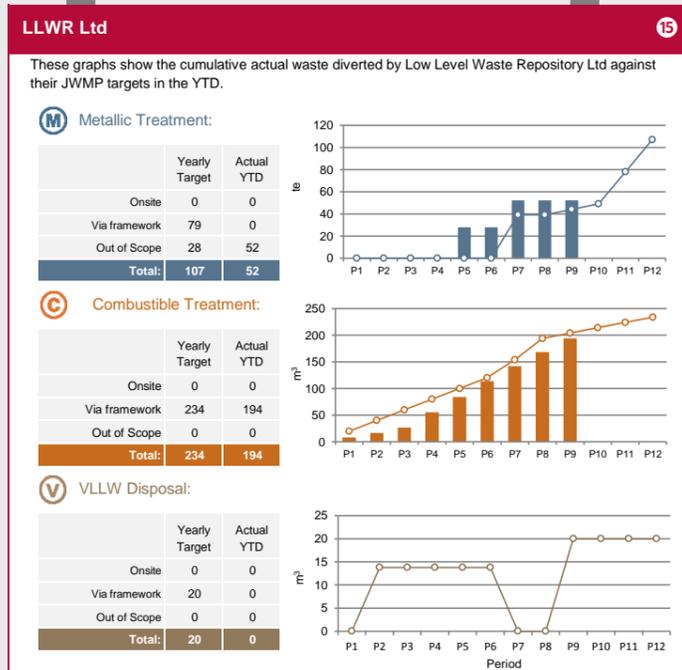
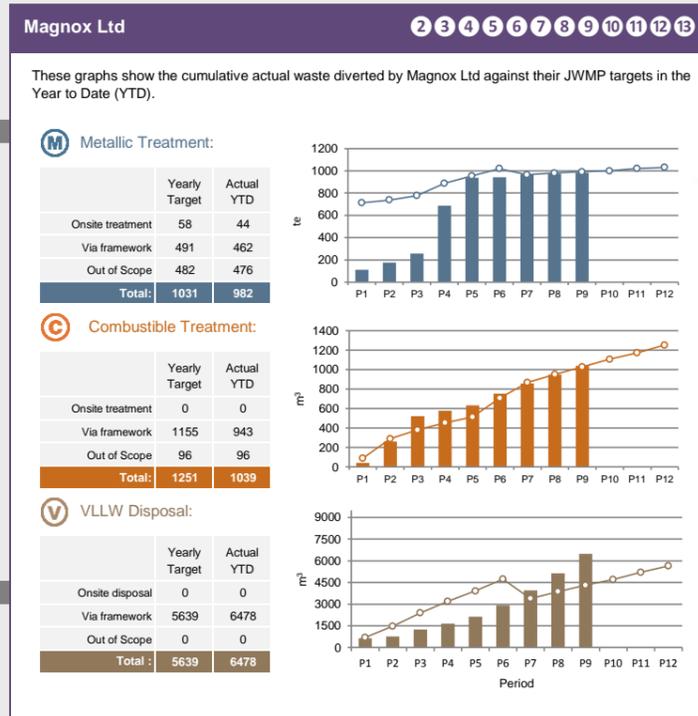
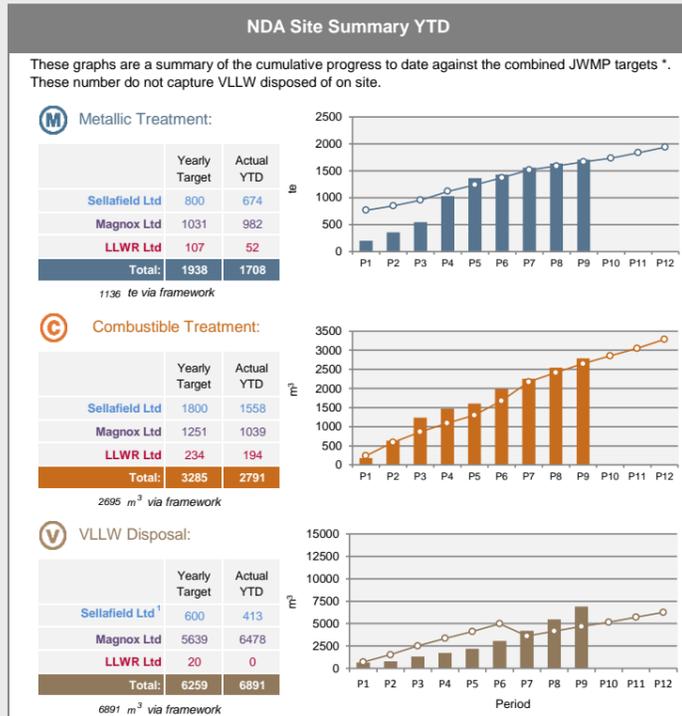
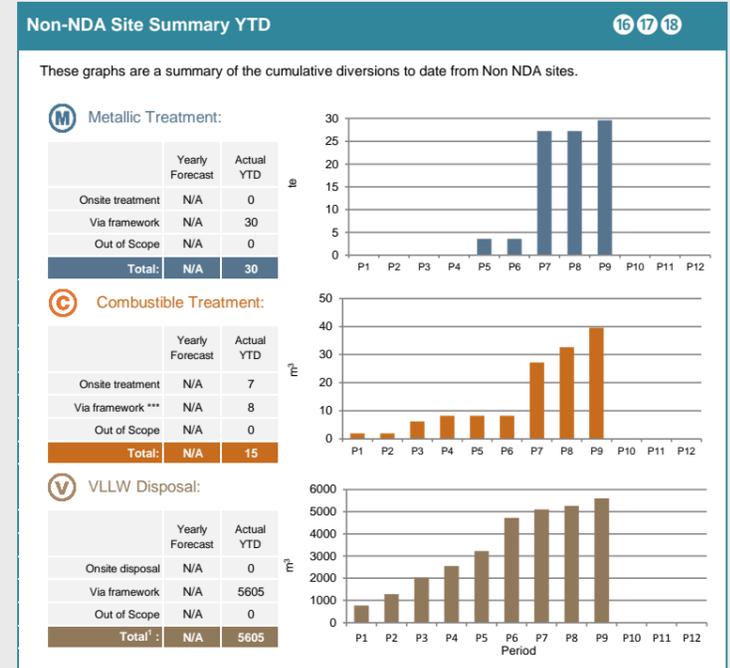
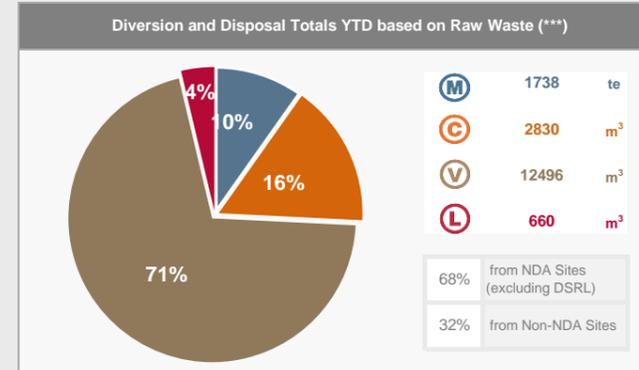


# December 2018 Waste Metric Dashboard

Period 9 : 25th November to 29th December FY 18/19

## 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.



### Non-NDA Sites (YTD)\*\*\*\*

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

Non-NDA Site(s)	<b>M</b> (te)	<b>C</b> (m <sup>3</sup> )	<b>V</b> (m <sup>3</sup> )
Cyclife <sup>(1)</sup>	0	0	129
AWE Aldermaston	26	3	40
EDF Energy	0	0	0
Urenco UK	0	0	372
Tradebe Intec Ltd	0	0	30
Urenco Nuclear Stewardship	4	24	4768
Unitech	0	0	0
Others	0	13	266

The values above are inclusive of material diverted through direct contracts.



### ILW → LLW Re-Classification

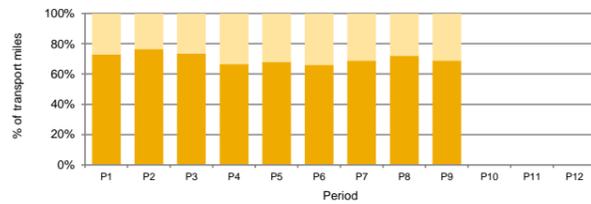
This table shows the actual volume of waste re-classified from ILW to LLW in the YTD.

SLC	Actual Volume Re-Classified YTD (m <sup>3</sup> )
Magnox Ltd	-
Sellafield Ltd	90
LLWR Ltd	-
Dounreay	-
Non-NDA estate	-
<b>Total</b>	<b>90</b>

### Transport and Packaging

#### Utilisation of Transport Fleet

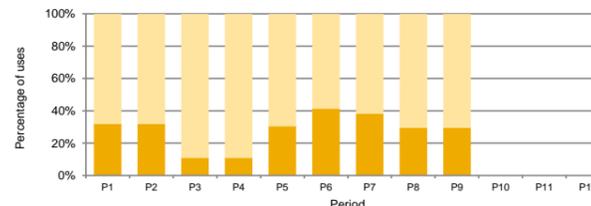
This graph gives the relative percentage for empty miles (miles transporting empty containers) and utilised miles (miles transporting containers holding waste). A high utilisation % shows transport assets being used effectively.



	YTD Miles	YTD Average
Empty Journeys	168,537	70%
Utilised Journeys	72,137	30%

#### Package Re-use

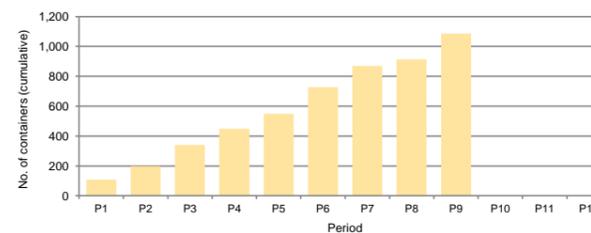
This graph shows, of the total number of containers transported, the percentage of packages that were a re-used container. A high re-use % shows transport assets being used effectively.



	YTD (no.)	YTD Average
Single / first use container	595	28%
Re-used container	1413	72%

#### Road vs. Rail Transports

This graph shows of 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
Road containers	0%	0%
Rail containers	100%	100%

### LLW Disposals and LLWR Vault Capacity

#### LLW Disposals

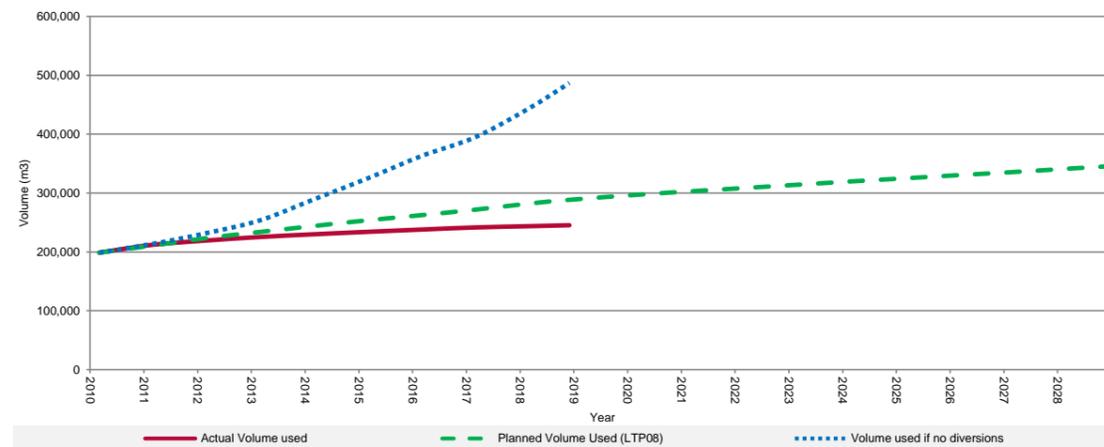
This table gives the number of LLW containers disposed of as LLW in the YTD.

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	
<b>NDA</b>													
Sellafield Ltd	0	11	0	10	10	7	14	5	10				67
Magnox Ltd	0	0	0	0	0	1	0	1	0				2
LLWR Ltd	0	0	0	0	0	0	0	0	0				0
Cyclife	0	0	0	0	0	0	0	0	0				0
<b>Non-NDA</b>													
AWE Aldermaston	0	0	0	0	0	0	0	0	0				0
EDF Energy	0	0	0	0	0	0	0	0	0				0
Urenco UK	0	0	0	0	0	0	0	0	0				0
Tradebe Inutec Ltd	0	1	0	0	0	0	0	0	3				4
Urenco Nuclear Stewardship	0	0	0	0	0	0	0	0	0				0
Unitech	0	0	0	0	0	0	0	0	0				0
Others	0	0	1	0	1	0	0	0	0				2
<b>TOTAL</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>10</b>	<b>11</b>	<b>8</b>	<b>14</b>	<b>6</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75</b>

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	0	0	0	0	0	0	0				0
Dounreay - Demolition Vault	0	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: **241,704 m<sup>3</sup>**      Total no. of equivalent HHISO containers saved by diversion: **10,601**

### Usage of Waste Routes

#### Route Status

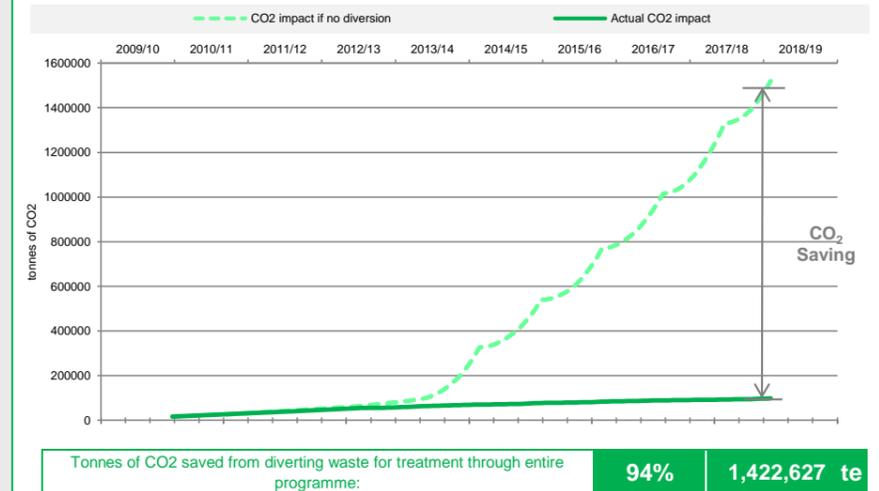
This table shows the routes available to each of the sites, which have been utilised and which are yet to be utilised. This date is reflective of waste route usage from 2008 to the YTD.

SLC	Site	M	C	V	L
LLWR	LLWR	●	●	●	●
DSRL	Dounreay	●	●	●	●
Sellafield Ltd	Sellafield	●	●	●	●
Magnox Ltd	Berkeley	●	●	●	●
	Bradwell	●	●	●	●
	Chapelcross	●	●	●	●
	Dungeness A	●	●	●	●
	Hinkley Point A	●	●	●	●
	Hunterston A	●	●	●	●
EDF - Energy	Oldbury	●	●	●	●
	Sizewell A	●	●	●	●
	Trawsfynydd	●	●	●	●
	Wylfa	●	●	●	●
	Harwell	●	●	●	●
	Winfrith	●	●	●	●
	Dungeness B	●	●	●	●
	Hartlepool	●	●	●	●
	Heysham 1	●	●	●	●
	Heysham 2	●	●	●	●
MoD Sites	Hinkley Point B	●	●	●	●
	Hunterston B	●	●	●	●
	Sizewell	●	●	●	●
	Tomess	●	●	●	●
	RRMPOL	●	●	●	●
	HMNB Rosyth	●	●	●	●
	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

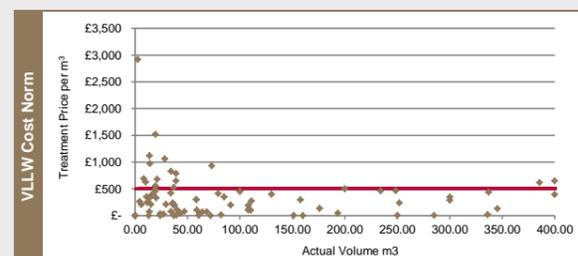
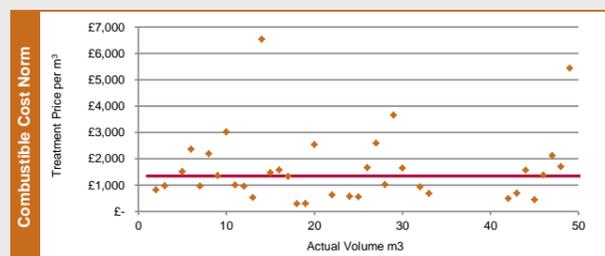
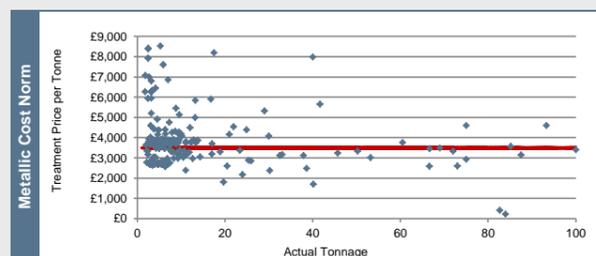


Tonnes of CO2 saved from diverting waste for treatment through entire programme: **94%**      **1,422,627 te**

### Cost Norms

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

Key: — Cost Norm    ● Actual Price



#### Dashboard Commentary:

#### Notes:

\* 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  
 \*\*\*\* P8 - Non NDA Combustible table does not include consignments treated via direct contracts  
 \*\*\*\*\* P8 Commentary - The 15 LLW Disposal containers received since August 2018 from Sellafield Ltd were WAGR Boxes, rather than standard HHISOs. These contain 40% less waste volume than a HHISO, and this is represented in the Diversion / Disposal data Pie Chart. These containers are also detailed in the LLW disposals table and LLW-LLW reclassification table.