Nuclear Waste Services | NDA

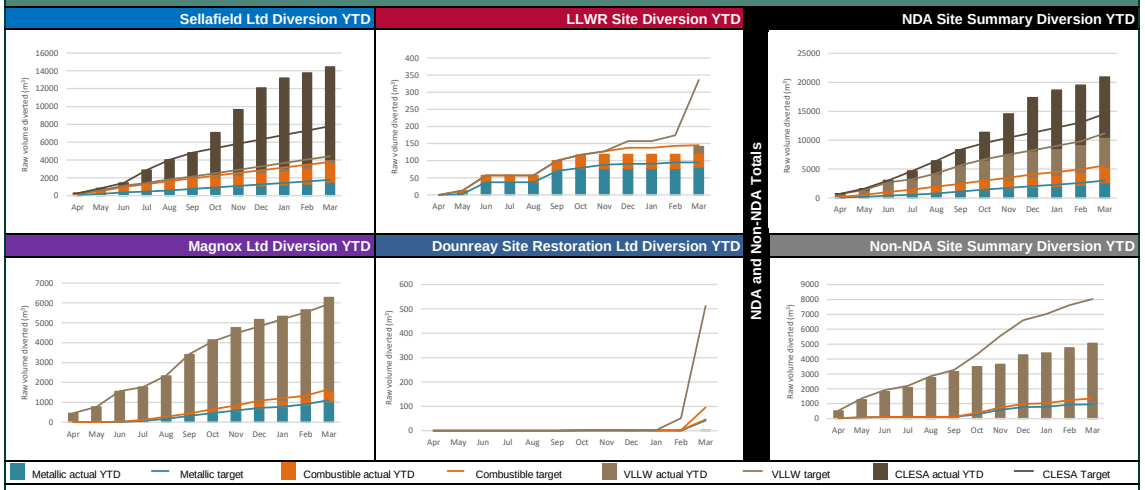
Thinking differently about waste

March 2022 Waste Metrics Dashboard

Period 12: 20th February to 31st March FY21/22

Diversion / Disposal Route		Sellafield Ltd		Magnox Ltd		LLWR Site		Dounreay Site Restoration Ltd		NDA Total		Non-NDA Total	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Metallic (te)	Onsite treatment	0	0	10	0	0	0	0	0	10	0	0	0
	Via Framework	871	824	1066	1006	65	51	42	0	2043	1881	310	8
	Direct Contracts	0	0	10	0	0	0	0	0	10	0	196	0
	Out of scope	905	704	23	28	30	30	0	0	959	762	445	0
	TOTAL METALLIC	1776	1528	1109	1034	95	81	42	0	3022	2643	951	8
Combust. (m^3)	Onsite treatment	0	0	0	0	0	0	0	0	0	0	0	0
	Via Framework	2008	2168	549	523	50	41	4	2	2612	2734	57	89
	Direct Contracts	0	0	0	0	0	0	0	0	0	0	342	0
	Out of scope	0	0	0	10	0	0	0	0	0	10	0	0
	TOTAL COMBUSTIBLE	2008	2168	549	533	50	41	4	2	2612	2744	399	89
VLLW (m^3)	Onsite disposal[2,3]	3376	10361	0	0	0	0	88	0	3376	10361	0	0
	Via Framework	639	383	4278	4693	191	20	417	50	5524	5144	6680	4951
	Direct Contracts	0	0	0	0	0	0	0	0	0	0	0	0
	Out of scope	0	0	16	16	0	0	0	0	16	16	0	0
	TOTAL VLLW DIVERTED	4015	10743	4294	4709	191	20	417	50	8916	15521	6680	4951
Sort and Segregation (m^3)		0	0	0	0	0	0	0	0	0	0	0	2
LLW Disposal (containers)		20	22	13	12	3	0	58	0	36	34	23	0
ILW to LLW (m^3)		50	0	71	0	70	0	0	0	191	0	29	0

UK Waste Diversion



LLWR Waste Management Services Project Focus - Project to Re-characterise PCM Waste Reaches Major Milestone

A project to re-characterise secondary decommissioning waste held on the LLWR site and potentially divert it away from Geological Disposal Facility (GDF) disposal has achieved its operating target milestone of 1000 drums assayed.

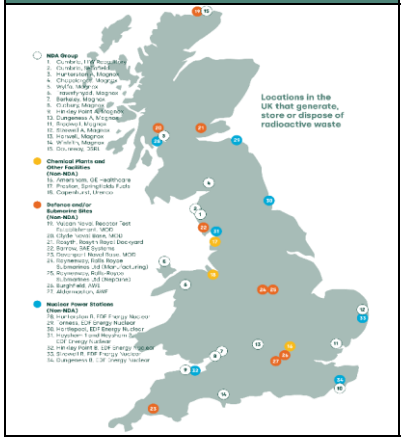
Waste that was generated as part of the decommissioning of historic Intermediate Level Waste storage buildings, known as the Magazines on the LLWR site was previously destined for disposal at the GDF facility.

A project was established to re-examine the radiological classification of the waste by taking advantage of significant advances in assay technology since the waste was generated. The new technology, for which this is the first deployment in the UK, was procured as a service through the Waste Services Characterisation Service as a collaboration between NSG and Antech.

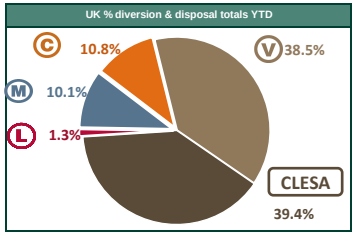
Early results indicate that the majority of the drums can be reclassified as Low Level Waste or Very Low Level Waste and therefore represent an opportunity for significant cost avoidance to the UK taxpayer (of up to £9M) and allow for earlier disposal.

The project has also seen success from an asset care and continuous improvement perspective. The team have had a focus on learning from experience from the very beginning and have seen throughput increase by over 20% over the lifetime of the project, in addition to significant improvements in reliability. This has also allowed for design modifications for the next generation of instruments.

UK Generation & Disposal Sites



Non-NDA Estate Waste Diversion (m^3)	M	C	V
Cyclife	0	0	637
AWE Aldermaston	8	56	20
EDF Energy	0	0	0
Urenco UK	0	0	0
Tradebe Inutec Ltd	0	0	279
Urenco Nuclear Stewardship	0	0	3663
UniTech	0	0	0
Minor Waste Producers	0	33	352



Nuclear Waste Services

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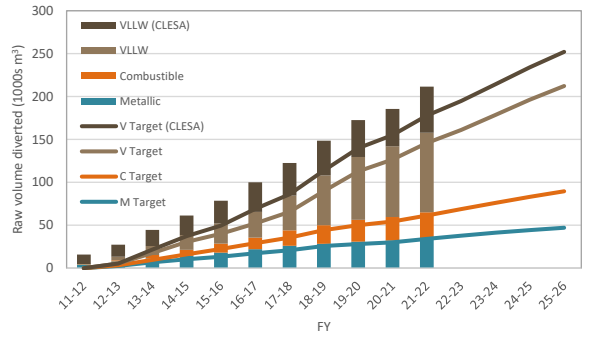
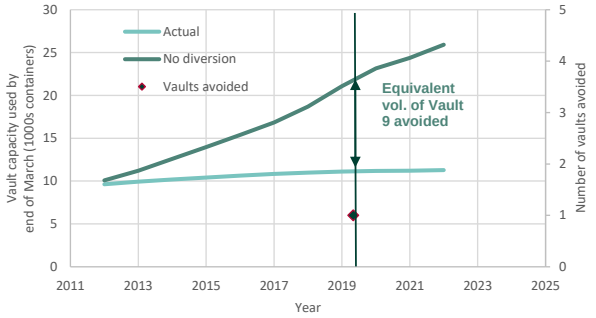
UK total waste volume diverted since Programme initiation



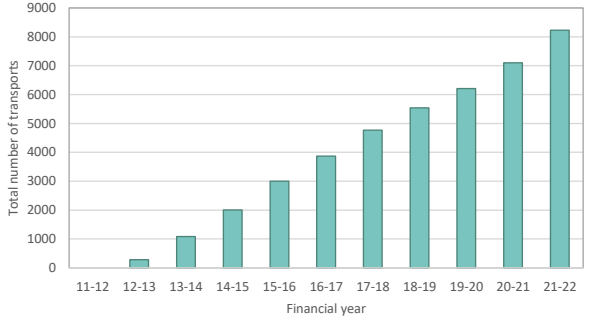
	M	C	V	CLESA
Year to date	2,651 m³ diverted	2,833 m³ diverted	10,112 m³ diverted	10,361 m³ diverted
Since Programme initiated	34,712 m³ diverted	30,338 m³ diverted	84,532 m³ diverted	31,815 m³ diverted

Total no. of equivalent HHISO containers saved by diversion



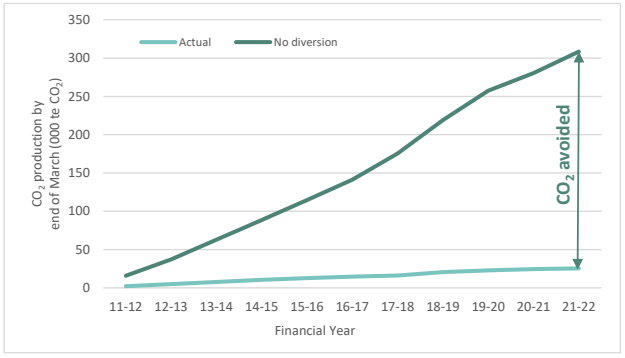
Year to date	1,467 containers saved	30,112 m³ saved	The volume diverted is equivalent to the volume of 12 Olympic swimming pools.
Since Programme initiated	14,635 containers saved	300,403 m³ saved	The volume diverted is equivalent to the volume of 120 Olympic swimming pools.

UK total diversion transports since Programme initiated



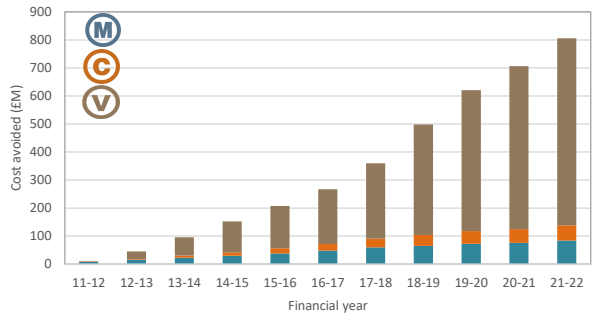
Year to date	1,133 transports	226,600 miles	The mileage done is the equivalent of travelling round the earth nine times.
Since Programme initiated	8,230 transports	1.6M miles	The mileage done is the equivalent of travelling to the moon and back three and a half times.

Environmental benefit of UK diversion CO2 avoided



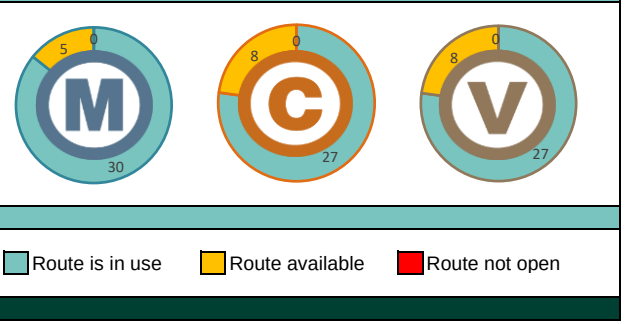
Year to date	27,101 te avoided	96%	This is the equivalent of 5,426 hot air balloons
Since Programme initiated	283,015 te avoided	92%	This is the equivalent of 56,609 hot air balloons

UK total cost avoidance since Programme initiated



Year to date	£ 99.1M	The cost avoidance from this FY would be enough to pay 314 nurses for 10 years
Since Programme initiated	£ 805.6M	This would be enough to pay a salary for 2546 nurses for 10 years

No. of organisations with access to diversion routes



Additional Commentary

1 - DSRL DLLW and LLW disposals are consigned to their on-site D3100 vault and are therefore not factored into NDA totals / benefits.
2 - Onsite VLLW disposal includes waste disposed to Sellafield's CLESA facility, however, this material does not contribute to benefits calculations, with the exception of total volume diverted (i.e. HHISOs saved, environmental benefit, cost avoidance do not include CLESA).
3 - Onsite VLLW disposal at DSRL was not destined for disposal at the Repository, and therefore does not contribute to the Total value.