

March 2013 Waste Metric Dashboard

UK Waste Diversion

The National Waste Programme aims to communicate the successes, risks and opportunities in the implementation of the Waste Hierarchy and the Nuclear Industry Strategy for Low Level Waste Management across the UK. Key metrics will be used to 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. The objective is to encourage transparency and communicate progress to all stakeholders.



Removal of Berkeley boilers (Magnox)



MEB Recycling (Sellafield)

Footnotes

Others includes:

Inutech, Unitech, Medical Research Council, GE Healthcare, Devonport, Babcock Marine, MOD, AWE, Studsvik and EDF Energy

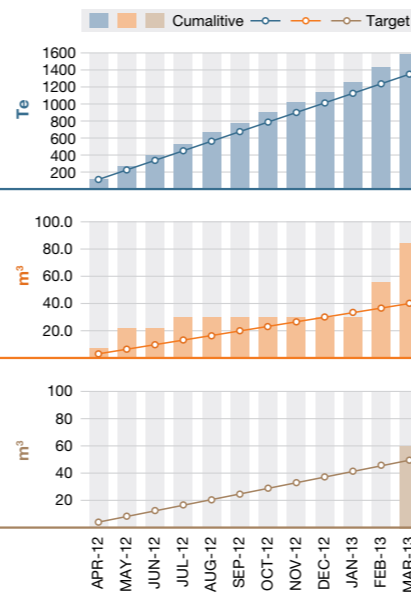
Sellafield Ltd 1

Combined Operating Plan Stretch Targets 2012/13

Metallic waste target: **1350te**

Combustible waste target: **40m³**

Very Low Level waste target: **50m³**



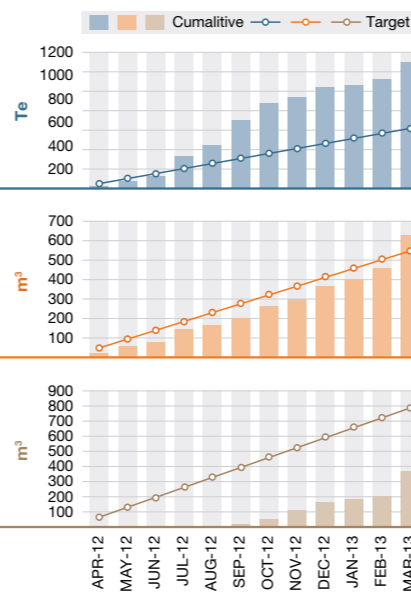
Magnox Sites 2 3 4 5 6 7 8 9 10 11

Combined Operating Plan Stretch Targets 2012/13

Metallic waste target: **616te**

Combustible waste target: **545m³**

Very Low Level waste target: **788m³**



Non NDA Sites Metallic Waste Diverted

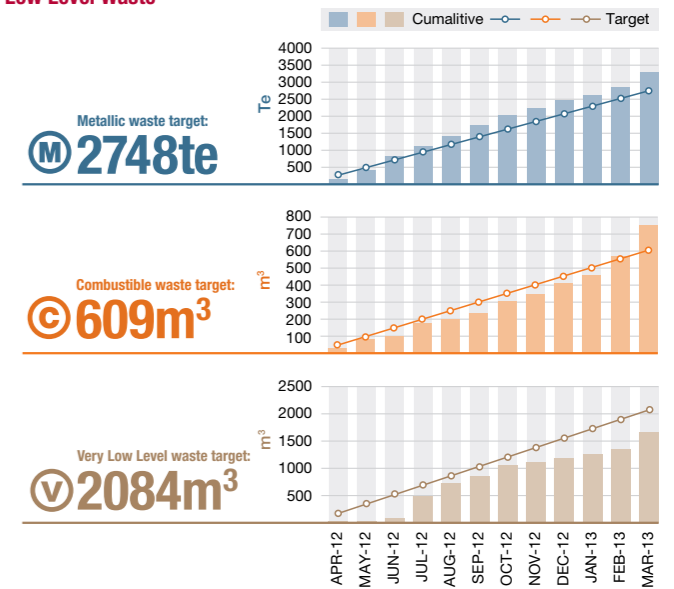
Non NDA Sites 15 16 17 18



Summary Data

Metallic, Combustible and Very Low Level Waste FY 12/13 Summary - March 2013

1. Metallic Waste Diverted - Total **3284te** (1040te via framework)
 - Sellafield = 1528te
 - Magnox = 1085te
 - RSRL = 671te
2. Combustible Waste Diverted - Total **753m³** (581m³ via framework)
 - Sellafield = 80m³
 - Magnox = 636m³
 - RSRL = 37m³
3. VLLW Diverted - Total **1657m³** (1657m³ via framework)
 - Sellafield = 60m³
 - Magnox = 368m³
 - RSRL = 1229m³



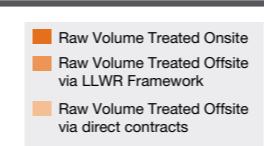
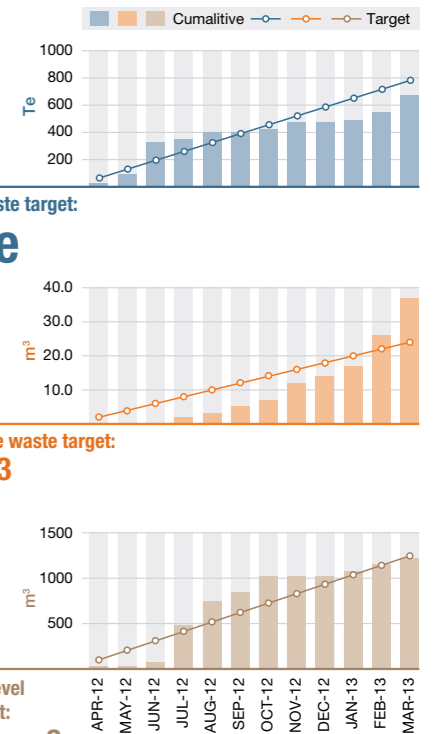
RSRL Sites 12 13

Combined Operating Plan Stretch Targets 2012/13

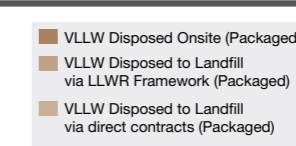
Metallic waste target: **782te**

Combustible waste target: **24m³**

Very Low Level waste target: **1246m³**



Non NDA Sites Combustible Waste Diverted



Non NDA Sites VLLW Waste Diverted

Waste Disposal Routes

M Metal Waste Treatment

Te	SL		MX		DSRL		RSRL		OTHERS*		MONTH TOTAL	
	Raw Weight Treated Onsite	Raw Weight Treated Offsite via LLWR framework	Raw Weight Treated Offsite via direct contracts	Recategorised LLW-out of scope	Raw Weight Treated Onsite	Raw Weight Treated Offsite via LLWR framework	Raw Weight Treated Offsite via direct contracts	Recategorised LLW-out of scope	Raw Weight Treated Onsite	Raw Weight Treated Offsite via LLWR framework		
MAR-13	27	135	-	-	68	-	111	-	26	61	-	533
FEB-13	49	59	-	2	25	-	35	-	59	11	-	240
JAN-13	62	51	-	1	-	-	19	-	21	-	-	165
DEC-12	83	38	-	-	18	-	64	-	8	-	-	332
NOV-12	61	61	-	4	19	-	22	-	64	-	-	248
OCT-12	64	60	-	1	28	-	110	-	19	-	-	282
SEP-12	63	47	-	7	39	-	155	-	1	-	-	312
AUG-12	105	42	-	11	23	-	60	-	56	-	-	297
JUL-12	97	24	-	-	42	-	122	-	17	-	-	302
JUN-12	101	32	-	-	37	-	2	-	245	-	-	417
MAY-12	114	44	-	-	38	-	5	-	59	-	-	290
APR-12	76	33	-	5	5	-	7	-	24	-	-	150
TOTAL	1528	1085	-	-	-	-	671	-	284	-	-	3568

S Supercompactable

m³	SL		MX		DSRL		RSRL		OTHERS*		MONTH TOTAL	
	210 Litre Drums	Type 0075 ISO Skips	Other container types	210 Litre Drums	Type 0075 ISO Skips	Other container types	210 Litre Drums	Type 0075 ISO Skips	Other container types	210 Litre Drums		Type 0075 ISO Skips
MAR-13	459	51	-	-	-	-	-	-	-	-	-	510
FEB-13	55	38	-	-	-	-	-	-	-	-	-	93
JAN-13	-	51	-	-	-	-	-	-	-	-	-	51
DEC-12	63	71	-	-	-	-	72	-	-	-	-	206
NOV-12	-	50	-	-	-	-	-	-	-	-	-	50
OCT-12	-	48	-	-	-	-	-	-	-	-	-	48
SEP-12	39	41	-	-	-	-	-	-	-	-	-	80
AUG-12	15	63	-	-	-	-	-	-	-	-	-	78
JUL-12	105	45	-	-	38	-	-	216	-	-	30	434
JUN-12	30	60	-	-	-	-	-	-	-	-	-	90
MAY-12	104	76	-	-	21	-	-	-	-	-	37	238
APR-12	29	47	-	-	-	-	-	-	-	-	-	76
TOTAL	1540	59	-	-	-	-	288	-	67	-	-	1954

C Combustible Waste Treatment

m³	SL		MX		DSRL		RSRL		OTHERS*		MONTH TOTAL	
	Raw Volume Treated Onsite	Raw Volume Treated Offsite via LLWR framework	Raw Volume Treated Offsite via direct contracts	Raw Volume Treated Onsite	Raw Volume Treated Offsite via LLWR framework	Raw Volume Treated Offsite via direct contracts	Raw Volume Treated Onsite	Raw Volume Treated Offsite via LLWR framework	Raw Volume Treated Offsite via direct contracts			
MAR-13	-	25	-	51	89	-	-	11	-	12	-	188
FEB-13	-	25	-	57	23	-	-	-	9	-	-	114
JAN-13	-	-	-	1	41	-	-	-	3	-	-	44
DEC-12	-	-	-	3	62	-	-	-	2	-	-	74
NOV-12	-	-	-	4	33	-	-	-	5	-	-	42
OCT-12	-	-	-	3	64	-	-	-	2	-	-	69
SEP-12	-	-	-	2	35	-	-	-	2	-	-	39
AUG-12	-	-	-	19	-	-	-	-	1	-	-	20
JUL-12	-	9	-	2	67	-	-	-	2	-	-	80
JUN-12	-	-	-	2	18	-	-	-	-	-	-	20
MAY-12	-	14	-	-	36	-	-	-	-	-	-	50
APR-12	-	7	-	2	22	-	-	-	-	10	-	41
TOTAL	80	636	-	-	-	-	37	-	29	-	-	782

L Low Level Waste to disposal

No. of containers	SL		MX		DSRL*		RSRL		OTHERS*		MONTH TOTAL	
	Half height container	Third height container	Other container types	Half height container	Third height container	Other container types	Half height container	Third height container	Other container types			
MAR-13	9	-	-	20	3	-	-	2	5	13	1	55
FEB-13	4	-	-	33	3	-	-	2	-	1	-	45
JAN-13	-	-	-	13	1	-	-	-	6	-	-	21
DEC-12	5	-	-	9	3	-	-	-	12	-	-	37
NOV-12	4	-	-	3	2	-	-	-	2	4	1	17
OCT-12	4	-	-	16	1	-	-	-	2	1	-	24
SEP-12	4	-	-	3	3	-	-	-	1	5	-	16
AUG-12	-	-	-	4	-	-	-	-	-	1	1	6
JUL-12	-	-	-	9	1	-	-	-	2	6	-	18
JUN-12	6	-	-	-	1	5	-	-	-	1	-	13
MAY-12	5	-	-	3	-	4	-	-	-	1	-	17
APR-12	10	-	-	9	2	2	-	-	2	2	-	27
TOTAL	173	31	37	7	47	296	-	-	-	-	-	296

V Very Low Level Waste to disposal

m³	SL		RSRL		Others*		MONTH TOTAL
	VLLW Disposed Onsite (Packaged)	VLLW Disposed to Landfill via LLWR Framework (Packaged)	VLLW Disposed to Landfill via direct contracts (Packaged)	VLLW Disposed Onsite (Packaged)	VLLW Disposed to Landfill via LLWR Framework (Packaged)	VLLW Disposed to Landfill via direct contracts (Packaged)	
MAR-13	159	60	-	-	77	-	296
FEB-13	76	-	-	-	78	-	172
JAN-13	61	-	-	-	67	-	164
DEC-12	377	-	-	-	-	537	914
NOV-12	31	-	-	-	-	-	31
OCT-12	207	-	-	-	172	-	379
SEP-12	95	-	-	-	1770	105	1970
AUG-12	124	-	-	-	251	-	375
JUL-12	273	-	-	-	405	-	678
JUN-12	539	-	-	-	45	-	592
MAY-12	1062	-	-	-	-	-	1062
APR-12	54	-	-	-	29	-	83
TOTAL	3118	2999	-	-	599	-	6716

E Exempt Waste

Te/m³	DSRL		MONTH TOTAL
	Exempt/Out of Scope Waste Disposed Onsite (Packaged)	Exempt/Out of Scope Waste Disposed to Landfill via LLWR Framework (Packaged)	
MAR-13	-	-	-
FEB-13	-	-	-
JAN-13	-	-	-
DEC-12	-	-	-
NOV-12	-	-	-
OCT-12	-	-	-
SEP-12	-	-	-
AUG-12	-	-	-
JUL-12	-	-	-
JUN-12	-	-	-
MAY-12	-	-	-
APR-12	-	-	-
TOTAL	-	-	-

National Waste Programme | Key achievements this quarter

Quarter 3 Milestones 2012/13

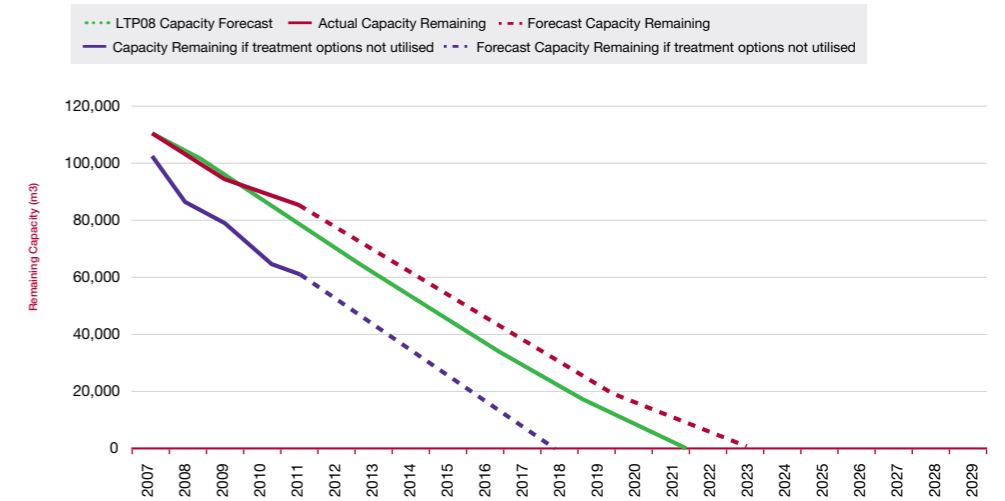
- LLWR to issue paper on ILW and LLW decision making
- Review status of recommendations from the independent metals decontamination study
- Develop forward action plan for incorporation of metals decontamination recommendations into NWP
- Assessment of the radiological capacity constraints of LLWR for NORM type wastes completed
- Conduct an annual review of consignments of LALLW/VLLW

Quarter 4 Milestones 2012/13

- Review sites waste sent for super compaction (Magnox)
- Study to determine cost benefit of on site volume reduction processes
- Undertake high level desk top study for suitability of disposal of LAW
- Develop and implement drum transport frame for TC02
- Roll out the VLLW/LALLW process to the remainder of the magnox fleet

* The schedule is being re-baselined to include benefits realisation data from joint waste management plan 4.

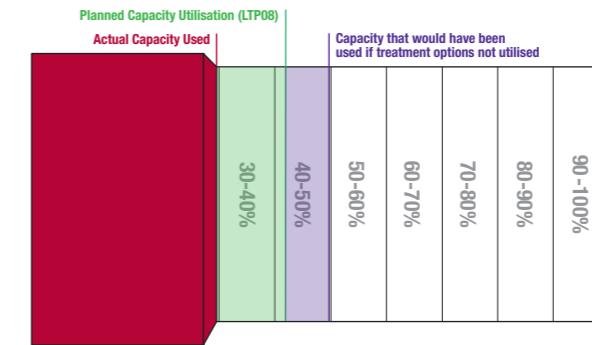
LLWR Vault 9 Capacity*



* This graph will be updated to a percentage diversion graph in 2013



+2 Year Extension



49.8%
Capacity that would have been used if treatment options not utilised
2,820 Containers

41.8%
Planned Capacity Utilisation (LTP08)
2,079 Containers

29.2%
Actual Capacity Used
1,661 Containers

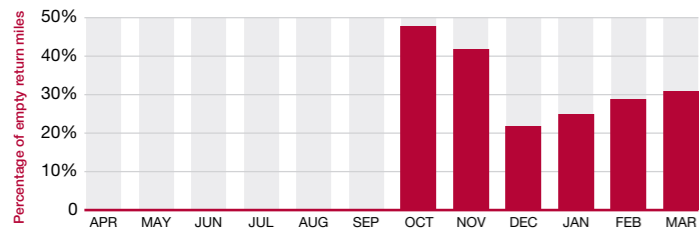
Usage of Waste Routes

SLCs	Site	Metal Waste	Combustible Waste	LLW	VLLW/LALLW	Exempt Waste	Orphan Stream*
LLWR	LLWR	●	●	●	●	●	
DSRL	Dounreay	●	●	●	●	●	
SFL	Sprinflelds	●	●	●	●	●	
Magnox	Berkeley	●	●	●	●	●	
	Bradwell	●	●	●	●	●	
	Chapelcross	●	●	●	●	●	
	Dungeness	●	●	●	●	●	
	Hinkley Point	●	●	●	●	●	
	Hunterston	●	●	●	●	●	
	Oldbury	●	●	●	●	●	
Sellafield	SL Ltd	●	●	●	●	●	
	Wylfa	●	●	●	●	●	
CNS	Capenhurst	●	●	●	●	●	
RSRL	Harwell	●	●	●	●	●	
	Winfrith	●	●	●	●	●	

* Work is under way to establish the current orphan streams.

Transport and Packaging

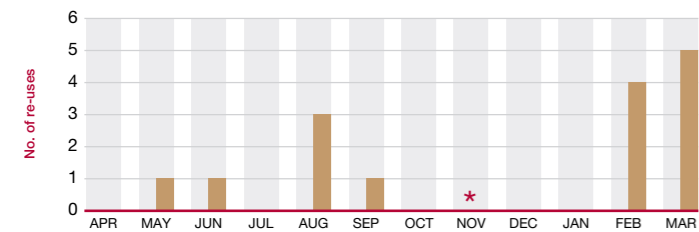
Percentage of empty return miles*



Percentage of empty return miles

* NB Data only collected from October 2012

Package re-use



Re-usable packages used Single use package re-used

* Reusable packages not yet available

Percentages of packages transported via Rail and Road

This data will be collated in 2013

Safety, Environment and Assurance

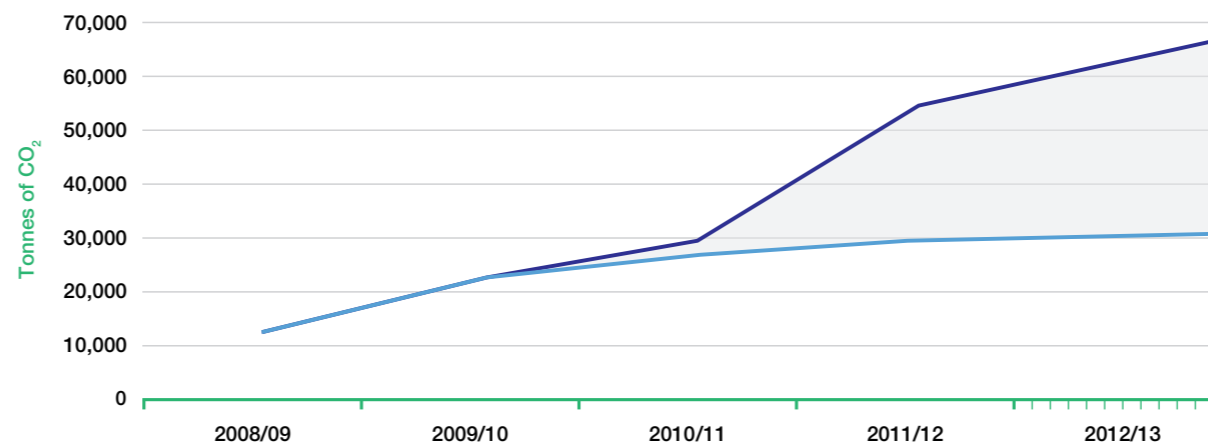
RIDDOR/OSHA

	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Transport RIDDOR ¹	0	0	0	0	0	0	0	0	0	0	0	0
Repository RIDDOR/ ¹	1112	1115	1115	559	559	0	0	0	0	0	0	0
Repository OSHA (TRIR) ²	1.15	1.16	1.16	0.58	0.58	0	0	0	0	0	0	0
Repository OSHA (DACR) ³	1.15	1.16	1.16	0.58	0.58	0	0	0	0	0	0	0

- (Number of RIDDOR / by number of people employed) x 100,000
- (Number of incidents / by number of hours worked) x 200,000
- (Number of days away / by number of hours worked) x 200,000

Environmental Impact*

LLW Disposal Cumalitive use of all treatment routes



Tonnes of CO₂ saved from diverting waste for treatment **55%**
36,050.38te

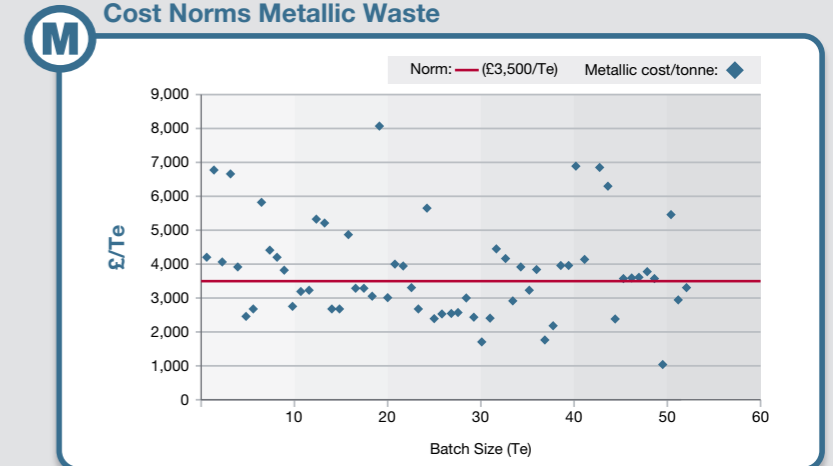
* The above Environmental Impact graph is under review. The revised graph will replace this in 2013

Supply Chain Non Conformances

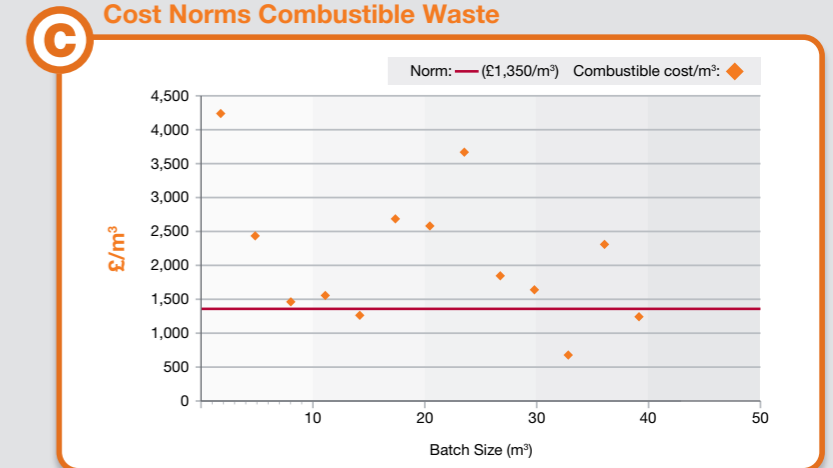
It has been recognised that supply chain non conformances, although not currently collected, are metrics which need to be reported. It is planned during the course of 2013 the data will be gathered and reported in graphical form for the purpose of this revised dashboard.

Cost Norms

Cost Norms Metallic Waste



Cost Norms Combustible Waste



Cost Norms Very Low Level Waste

