

Site (Data) : COVRA

Stock of waste as at December 2009

Country: NETHERLANDS

Reporting Year: 2009

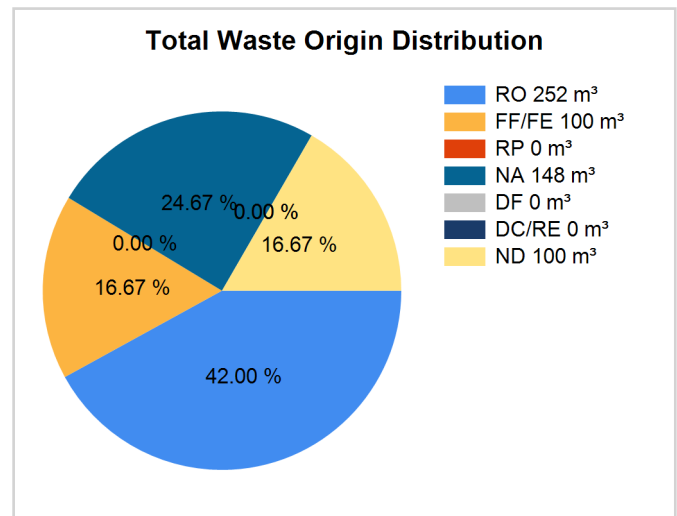
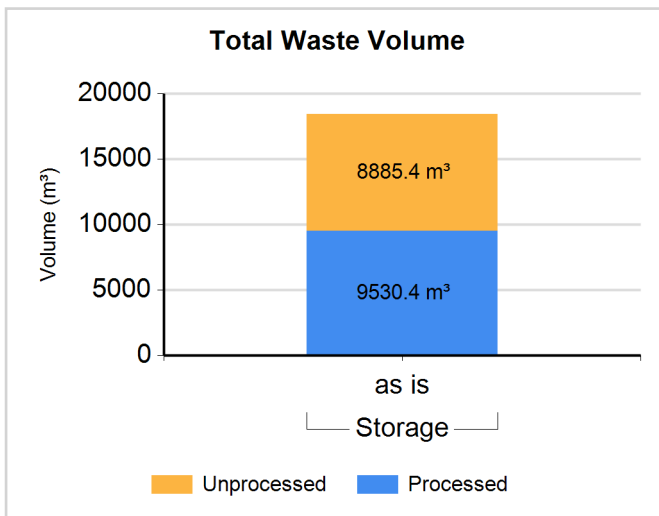
Site Name: COVRA

Full Name: National radioactive waste treatment and storage site of COVRA

Inventory Reporting Date: December 2009 Waste Matrix Used: National

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

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**Waste Class: LILW**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m <sup>3</sup> )	Volume "as dispo" (m <sup>3</sup> )	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW	Storage / COVRA-stor	Y	N	9498.000	9498.000	52.00	0.00	0.00	48.00	0.00	0.00	0.00

**Waste Class: LILW, NORM**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m <sup>3</sup> )	Volume "as dispo" (m <sup>3</sup> )	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW, NORM	Storage / COVRA-stor	N	N	4400.000	4400.000	0.00	0.00	0.00	0.00	0.00	0.00	100.00

Comment # 9595: Waste Storage facilities/Class LILW, NORM

The LILW, NORM is generated in the phosphor plant. Because of the nature of the production process it is a calcinate with Po-210, Bi-210 and Pb-210 only.

**Waste Class: LILW, depU**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m <sup>3</sup> )	Volume "as dispo" (m <sup>3</sup> )	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW, depU	Storage / COVRA-stor	N	N	4480.000	4480.000	0.00	100.00	0.00	0.00	0.00	0.00	0.00

**Waste Class: HLW, non heat producing**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m <sup>3</sup> )	Volume "as dispo" (m <sup>3</sup> )	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW, non heat producing	Storage / COVRA-stor	Y	N	7.200	7.200	100.00	0.00	0.00	0.00	0.00	0.00	0.00

**Waste Class: HLW, heat producing**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m <sup>3</sup> )	Volume "as dispo" (m <sup>3</sup> )	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW, heat producing	Storage / COVRA-stor	N	N	5.400	5.400	0.00	0.00	0.00	100.00	0.00	0.00	0.00
HLW, heat producing	Storage / COVRA-stor	Y	N	25.200	25.200	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 9614: Waste Storage facilities/Class HLW, heat produc

The processed waste consists of the vitrified waste product resulting from the reprocessing of fuel from n.p.p. Borssele. Apart from this waste also 4.4 m<sup>3</sup> of spent fuel from the research reactors at Petten and Delft is stored at COVRA as well as 0.6 m<sup>3</sup> of enriched uranium filters from molybdenum production. Spent fuel and filters are packaged in a canister filled with helium; they are however considered here as 'unprocessed' waste.

**Processing - Treatment method(s)**

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Chemical Precipitation	N	N	Same	N
Compaction	N	N	Same	N
Incineration	N	N	Same	N
Shredding and Compaction	N	N	Same	N
Size Reduction	N	N	Same	N
Super Compaction	N	N	Same	N
Wastewater Treatment	N	N	Same	N

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**Processing - Conditioning method(s)**

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Cementation	N	N	Same	N
Encapsulation	N	N	Same	N

Comment **# 7369: Cementation and encapsulation**

All LILW is brought into a cemented waste form for storage.

The spent fuel of the research reactors as well as the uranium filters from molybdenum production are encapsulated in a cannister filled with helium gas.