

Site (Data) : COVRA

Stock of waste as at December 2010

Country: NETHERLANDS

Reporting Year: 2010

Site Name: COVRA

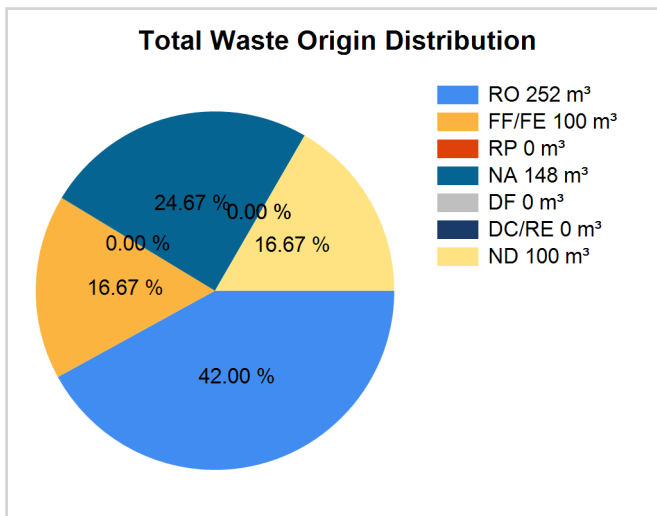
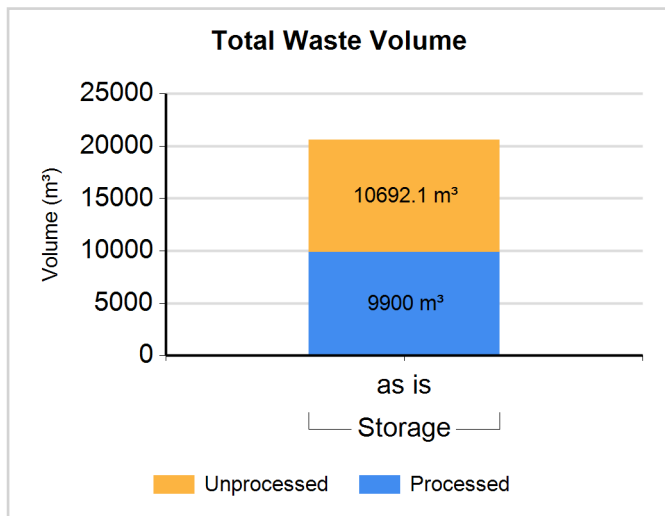
Full Name: National radioactive waste treatment and storage site of COVRA

Inventory Reporting Date: December 2010

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 ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW	Storage / COVRAstor	Y	N	9854.000	9854.000	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 ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW, NORM	Storage / COVRAstor	N	N	4950.000	4950.000	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 ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW, depU	Storage / COVRAstor	N	N	5736.500	5736.500	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 ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW, non heat producing	Storage / COVRAstor	Y	N	15.800	15.800	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 ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW, heat producing	Storage / COVRAstor	N	N	5.600	5.600	0.00	0.00	0.00	100.00	0.00	0.00	0.00
HLW, heat producing	Storage / COVRAstor	Y	N	30.200	30.200	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 and n.p.p. Dodewaard. Apart from this waste also 4.8 m³ of spent fuel from the research reactors at Petten and Delft is stored at COVRA as well as 0.8 m³ 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.