Site (Data) : Dukovany

Stock of waste as at December 2011

Country: CZECH REPUBLIC Reporting Year: 2011

Site Name: **Dukovany**

Full Name: URAO Dukovany

Inventory Reporting Date: December 2011 Waste Matrix Used: cz-eu

Comment **# 381: Information**

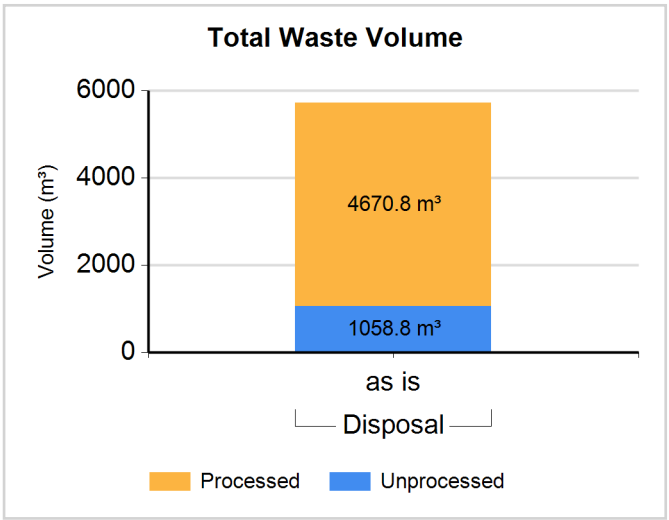
The Dukovany repository (URAO) serves for radioactive waste from operation of Czech NPP. It does not accept waste from research, industry and medicine or spent sealed sources. The accepted waste corresponds to the IAEA LLW-SL waste class.

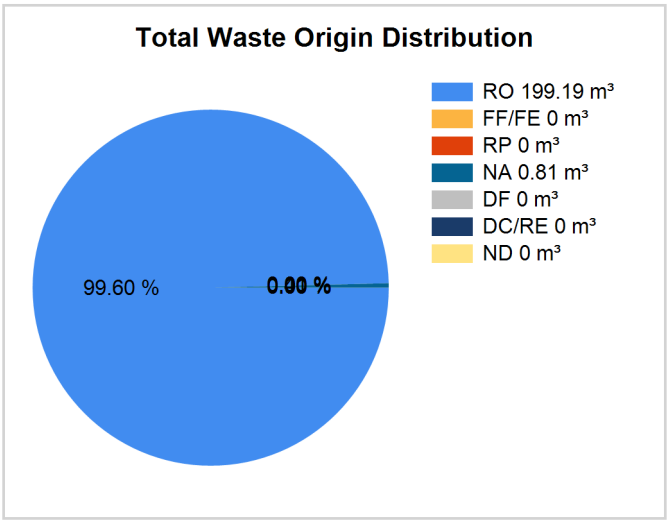
Comment **# 14554: Site Dukovany**

Since 2006 repository can accommodate unprocessed institutional waste and operational waste immobilised not only in bitumene, glas and cement, but also in aluminosilicate matrix.

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.

Waste Class: **LILW-SL**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL	Disposal	N	N	1058.800	1058.800	99.26	0.00	0.00	0.74	0.00	0.00	0.00
LILW-SL	Disposal	Y	N	4670.800	4670.800	99.93	0.00	0.00	0.07	0.00	0.00	0.00

Comment **# 25756: LILW SL+LL**

The Dukovany disposal facility was designed for the disposal of low and intermediate level radioactive waste containing mainly short lived 137Cs, which is generated by NPPs operation. However based on the safety assessment results the repository accommodates also waste contaminated by long lived radionuclides.

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RadioNuclide Inventory in Disposal

RadioNuclide	Activity (GBq)
Americium (Am-241)	0.396
Calcium (Ca-41)	0.385
Carbon (C-14)	157
Cesium (Cs-137)	7660
Iodine (I-129)	0.484
Nickel (Ni-59)	6.02
Nickel (Ni-63)	605
Niobium (Nb-94)	1.18
Plutonium (Pu-239)	0.106
Strontium (Sr-90)	56.7
Technetium (Tc-99)	1.37