

## Site (Data) : BRINJE S

Stock of waste as at December 2010

Country: SLOVENIA

Reporting Year: 2010

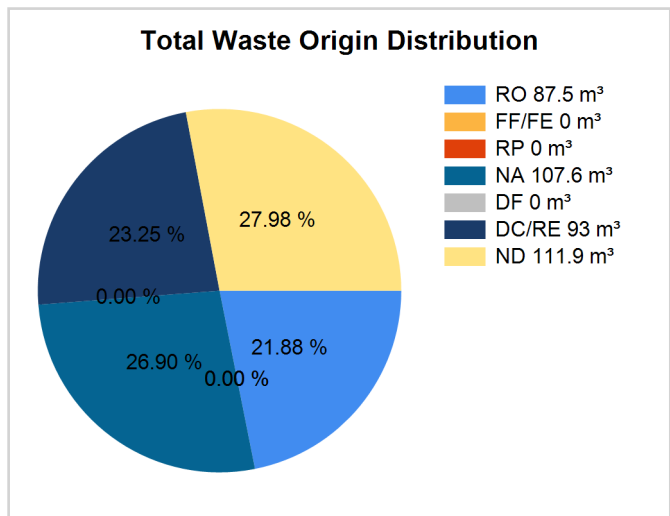
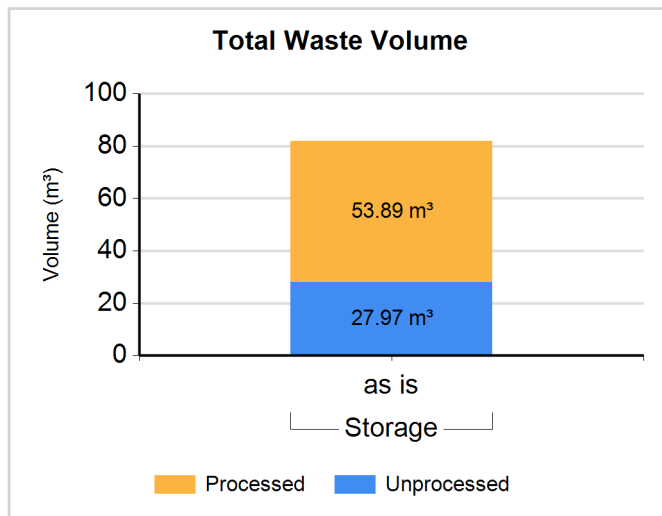
**Site Name:** BRINJE S

Full Name: Central Storage Facility for Radioactive Waste in Brinje (CSF)

Inventory Reporting Date: December 2010 Waste Matrix Used: IAEA Def.

**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: LLW**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW	Storage	N	Y	18.870	18.870	7.40	0.00	0.00	7.80	0.00	82.70	2.10
LLW	Storage	Y	Y	35.580	35.580	60.70	0.00	0.00	8.30	0.00	0.60	30.40

**Waste Class: ILW**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ILW	Storage	N	Y	9.100	9.100	4.50	0.00	0.00	72.90	0.00	9.70	12.90
ILW	Storage	Y	Y	18.310	18.310	14.90	0.00	0.00	18.60	0.00	0.00	66.50

**Spent Sources <=30 years in Storage**

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c	o	n	c	a	t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq								
	num/activity	num/activity	num/activity								
Cm-244		1		Y	N	Y				8.800E+000	2008.08
		8.800E+000									

## Site (Data) : BRINJE S

Stock of waste as at December 2010

Country: SLOVENIA

Reporting Year: 2010

Co-60	324	1		Y	Y	Y	2.140E+003	2008.09
	5.400E+002	1.600E+003						
Co-60	4			N	Y	Y	1.000E-001	2009.3
	1.000E-001							
Co-60	2			N	Y	Y	1.000E-001	1990.5
	1.000E-001							
Co-60	1			N	Y	Y	0.000E+000	1978.11
	0.000E+000							
Cs-137	1			N	Y	Y	0.000E+000	1985.6
	0.000E+000							
Cs-137	2			N	Y	Y	1.800E+000	1988.4
	1.800E+000							
Cs-137	3			N	Y	Y	2.000E-001	2004.1
	2.000E-001							
Cs-137	10			N	Y	Y	1.460E+001	2009.3
	1.460E+001							
Cs-137		82		Y	N	Y	8.100E+002	2005.11
		8.100E+002						
Eu-152		8		Y	N	Y	3.600E+002	2005.11
		3.600E+002						
Eu-154	2			Y	N	Y	8.000E+000	2005.11
	8.000E+000							
Fe-55	4			Y	N	Y	4.400E+000	2004.04
	4.400E+000							
H-3		16		Y	N	Y	9.600E+001	1992.04
		9.600E+001						
H-3	2			N	Y	Y	4.400E+000	2009.6
	4.400E+000							
Kr-85		3		N	Y	Y	2.790E+001	1997.10
		2.790E+001						

## Site (Data) : BRINJE S

Stock of waste as at December 2010

Country: SLOVENIA

Reporting Year: 2010

Kr-85		5		Y	N	Y	5.900E+001	2008.08
		5.900E+001						
Ru-106	7			N	Y	Y	0.000E+000	2008.5
	0.000E+000							
Sr-90	101			Y	N	Y	1.100E+001	2005.11
	1.100E+001							
Sr-90	1			N	Y	Y	0.000E+000	1965.1
	0.000E+000							

## Site (Data) : BRINJE S

Stock of waste as at December 2010

Country: SLOVENIA

Reporting Year: 2010

**Spent Sources > 30 years in Storage**

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	1075		N	Y	Y	9.000E-001	2009.3
	9.000E-001						
Am-241		1	N	Y	Y	3.700E+000	1991.1
		3.700E+000					
Am-241		1	Y	N	Y	6.500E+001	2005.11
		6.500E+001					
Am-241	2617		Y	N	Y	3.300E+000	2008.12
	3.300E+000						
Am-241		2	Y	N	Y	2.300E+002	2008.08
		2.300E+002					
Am-241	17		Y	N	Y	3.400E+001	1976.12
	3.400E+001						
Ni-63	1		N	Y	Y	4.000E-001	1969.1
	4.000E-001						
Ra-226	1		N	Y	Y	0.000E+000	1977.10
	0.000E+000						
Ra-226	3		N	Y	Y	0.000E+000	2009.4
	0.000E+000						
Ra-226	240		Y	N	Y	2.700E+001	2001.06
	2.700E+001						
Th-232	1		Y	N	Y	0.000E+000	1986.12
	0.000E+000						
U-238	1		N	Y	Y	3.000E-001	2009.3
	3.000E-001						

## Site (Data) : BRINJE S

Stock of waste as at December 2010

Country: SLOVENIA

Reporting Year: 2010

**RadioNuclide Inventory in Storage**

Total Alpha Activity (GBq):	400
Total Beta/Gamma Activity (GBq):	2800

RadioNuclide	Activity (GBq)
Americium ( Am-241)	350
Carbon ( C-14)	0.05
Cesium ( Cs-137)	54.7
Cobalt ( Co-60)	1405
Europium ( Eu-152)	200.7
Hydrogen ( H-3)	188.9
Iron ( Fe-55)	0.85
Krypton ( Kr-85)	35.8
Nickel ( Ni-63)	0.28
Radium ( Ra-226)	29.7
Silver ( Ag-108m)	0.01
Technetium ( Tc-99)	0.01
Uranium ( U-238)	10.65
Uranium ( U-235)	0.1