

## Site (Data) : All Sites

Stock of waste as at December 2009

Country: THAILAND

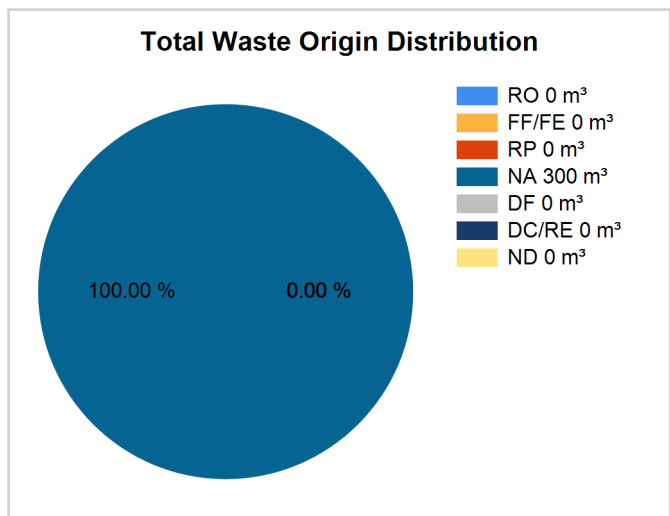
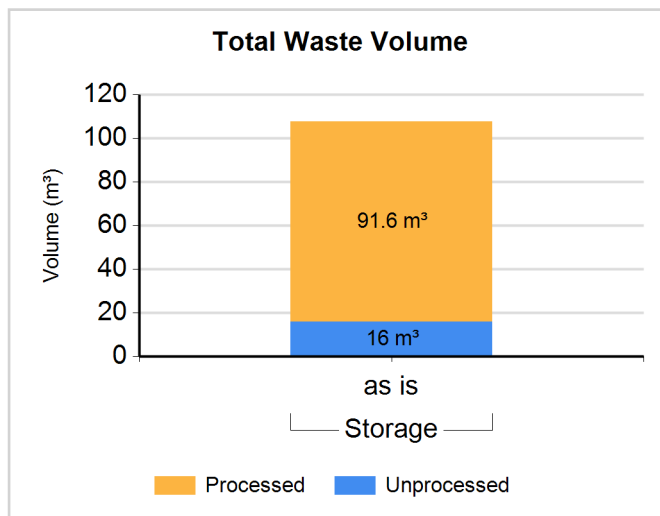
Reporting Year: 2009

**Site Name:** All Sites

**Full Name:** A single theoretical site is defined to facilitate reporting to the NEWMDB. The waste quantities reported are the totals for actual sites located around Thailand, including those at the central facility located at the OAP, Bangkok.

**Inventory Reporting Date:** December 2009**Waste Matrix Used:** Thailand**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: VLLW**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
VLLW	Storage / OAP-SF2	N	N	16.000	16.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
VLLW	Storage / OAP-SF2	Y	N	41.600	41.600	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment **# 6850: The additional characteristics of the waste**

Most of processed solid waste in the SF2 is the compacted plastic waste, the number is 181 drums (200 litre). And the less is processed solid waste (sludge) from the liquid waste treatment (aqueous waste was treated precipitation system). The number is 27 drums(200 litre)

**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	Storage / OAP-SRS	Y	N	50.000	50.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment **# 6851: Transfer to the new Klong 5 storage**

Regarding the change of data from last year 2007, because the LILW unprocessed waste was transferred to the Klong 5 storage facility in 2008. The LILW are as follows:

- Spent ion-exchange resin from the Thai Research Reactor, have been kept in 50 drums ( 50 litre), total about 2.5 cubic-metre
- The iron-steel contaminated with Cs-137 from the Steel Factories, ( products from the melting of scrap metal from East Europe), total volume about 2.5 cubic-metre

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**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
Decontamination	N	N	Same	N
Evaporation	Y	N		N
Incineration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	Y	N		N
Super Compaction	Y	N		N

**Processing - Conditioning method(s)**

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Casting (of metal and slag)	Y	N		N
Cementation	N	N	Same	N
Containerization	N	N	Same	N
Encapsulation	N	N	Same	N

**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 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					
Au-195	1			N	Y	Y	0.000E+000	
Ba-133	5			N	Y	Y	0.000E+000	
Cd-109		55		N	Y	Y	6.300E+000	
		6.300E+000						
Cm-244	2			N	Y	Y	4.000E-001	
	4.000E-001							

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Co-57		32		N	Y	Y	1.700E+001	
		1.700E+001						
Co-60			304	N	Y	Y	4.800E+005	
			4.800E+005					
Cs-137		523		N	Y	Y	5.600E+003	
		5.600E+003						
Fe-55		31		N	Y	Y	3.500E+001	
		3.500E+001						
Gd-153		4		N	Y	Y	5.200E+001	
		5.200E+001						
Hg-203	3			N	Y	Y	0.000E+000	
Ir-192		10		N	Y	Y	3.700E+001	
		3.700E+001						
Kr-85		89		N	Y	Y	1.300E+003	
		1.300E+003						
Mn-54	3			N	Y	Y	0.000E+000	
Na-22	4			N	Y	Y	0.000E+000	
Pm-147		45		N	Y	Y	4.000E+002	
		4.000E+002						
Po-210		37		N	Y	Y	4.500E+000	
		4.500E+000						
Sr-90		112		N	Y	Y	1.500E+002	
		1.500E+002						
Tl-204	30			N	Y	Y	1.000E-001	
	1.000E-001							
Y-88	3			N	Y	Y	0.000E+000	

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Attachment #840: SRS Data (LE30)

SRS thailand.xls

SRS inventory (as of January 2004)

**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		17	N	Y	Y	3.900E+002	
		3.900E+002					
Am-241		679	N	Y	Y	3.200E+002	
		3.200E+002					
Am-241		31	N	Y	Y	9.900E+002	
		9.900E+002					
Ni-63		63	N	Y	Y	3.000E+001	
		3.000E+001					
Ra-226	5		N	Y	Y	8.000E-001	
	8.000E-001						
Ra-226	16		N	Y	Y	1.400E+000	
	1.400E+000						
Ra-226		1425	Y	N	Y	6.700E+003	
		6.700E+003					

Attachment #841: SRS Data (GT30)

SRS thailand.xls

SRS inventory (as of January 2004)