

## Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: LvivSE

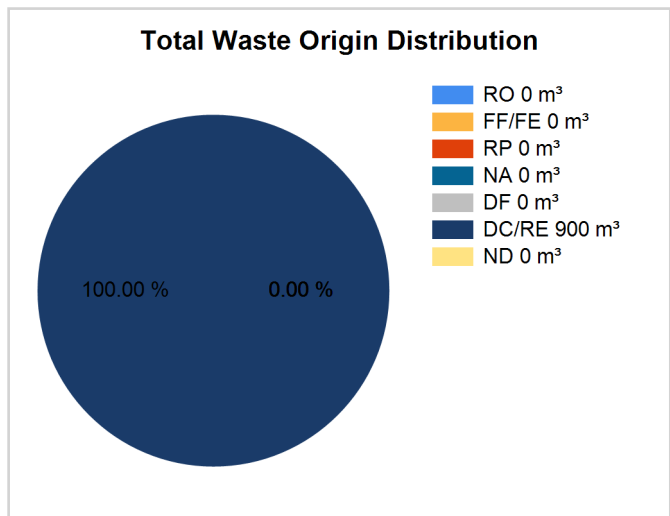
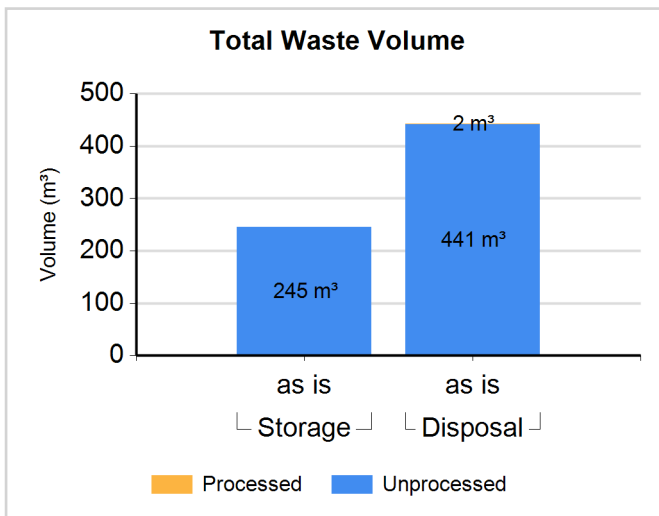
Full Name: Lviv State Interregional Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

## 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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / Module 2	N	N	80.700	80.700	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 5	N	N	62.070	62.070	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 6	N	N	24.070	24.070	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 7	N	N	70.980	70.980	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 8	N	N	7.180	7.180	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 1	N	N	200.000	200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 4	N	N	240.000	240.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module B	N	N	1.000	1.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module B	Y	N	2.000	2.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6798: The additional characteristics of the waste

Unprocessed: liquid (aqueous), solid (non-dispersible)

## Spent Sources &lt;=30 years in Storage

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	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					
Ba-133	2			N	Y	Y	0.000E+000	
	0.000E+000							
Cd-109	2			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	5			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	5			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60		50		N	Y	Y	7.000E+000	
		7.000E+000						
Co-60	2			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137	9	3		N	Y	Y	6.750E+001	
	0.000E+000	6.750E+001						
Ir-192	3			N	Y	Y	6.500E-001	
	6.500E-001							
Kr-85		1		N	Y	Y	7.610E+000	
		7.610E+000						
Mn-54	4			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	1			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-113	5			N	Y	Y	0.000E+000	
	0.000E+000							
Y-88	5			N	Y	Y	0.000E+000	
	0.000E+000							

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Zn-65	5			N	Y	Y	0.000E+000	
	0.000E+000							

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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					
Cd-109	1			N	Y	Y	1.000E-001	
	1.000E-001							
Ce-139	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-60	9			N	Y	Y	0.000E+000	
Co-60	2			N	Y	Y	1.000E-001	
	1.000E-001							
Co-60		243		N	Y	Y	7.300E+001	
		7.300E+001						
Co-60	2			N	Y	Y	1.000E-001	
	1.000E-001							
Co-60		114		N	Y	Y	4.850E+001	
		4.850E+001						
Co-60		11		N	Y	Y	8.000E+001	
		8.000E+001						

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Co-60		62		N	Y	Y	7.000E+000	
		7.000E+000						
Co-60	2			N	Y	Y	0.000E+000	
Cs-137		18		N	Y	Y	1.200E+003	
		1.200E+003						
Cs-137		65		N	Y	Y	5.750E+002	
		5.750E+002						
Cs-137	5			N	Y	Y	0.000E+000	
Cs-137		81		N	Y	Y	2.700E+001	
		2.700E+001						
Cs-137		279		N	Y	Y	1.300E+004	
		1.300E+004						
Cs-137	11	229		N	Y	Y	1.000E+004	
	5.000E-001	1.000E+004						
Cs-137		854		N	Y	Y	3.511E+003	
		3.511E+003						
Cs-137		118		N	Y	Y	4.568E+003	
		4.568E+003						
Eu-152	10			N	Y	Y	0.000E+000	
Fe-55	1			N	Y	Y	1.800E+000	
	1.800E+000							
Fe-55	1			N	Y	Y	0.000E+000	
Fe-55	1			N	Y	Y	0.000E+000	
H-3		6551		N	Y	Y	5.900E+000	
		5.900E+000						

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H-3		6600		N	Y	Y	2.901E+004	
		2.901E+004						
H-3	2			N	Y	Y	3.800E+000	
	3.800E+000							
H-3		11		N	Y	Y	1.300E+003	
		1.300E+003						
Hg-203	23			N	Y	Y	0.000E+000	
Ir-192	5			N	Y	Y	2.000E-001	
	2.000E-001							
Ir-192		7		N	Y	Y	1.700E+001	
		1.700E+001						
Ir-192		412		N	Y	Y	1.900E+002	
		1.900E+002						
Ir-192		51		N	Y	Y	1.800E+001	
		1.800E+001						
Ir-192	10	9		N	Y	Y	4.413E+002	
	1.300E+000	4.400E+002						
Ir-192		9		N	Y	Y	8.500E+001	
		8.500E+001						
Ir-192		8		N	Y	Y	3.200E+002	
		3.200E+002						
Kr-85	8			N	Y	Y	1.000E+000	
	1.000E+000							
Kr-85		9		N	Y	Y	6.000E+000	
		6.000E+000						
Kr-85		17		N	Y	Y	6.000E+000	
		6.000E+000						
Kr-85	9			N	Y	Y	2.400E+000	
	2.400E+000							

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Mn-54	4			N	Y	Y	0.000E+000	
Na-22	5			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
Pm-147	137			N	Y	Y	0.000E+000	
Pm-147	152			N	Y	Y	2.000E-001	
	2.000E-001							
Pm-147	1			N	Y	Y	1.200E+000	
	1.200E+000							
Pm-147	15			N	Y	Y	3.500E+000	
	3.500E+000							
Sn-113	3			N	Y	Y	0.000E+000	
Sr-90	4			N	Y	Y	0.000E+000	
Sr-90		32232		N	Y	Y	1.300E+001	
		1.300E+001						
Sr-90	13			N	Y	Y	0.000E+000	
Sr-90	4			N	Y	Y	0.000E+000	
Sr-90	79			N	Y	Y	0.000E+000	
Sr-90		58		N	Y	Y	1.800E+001	
		1.800E+001						

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Sr-90		4421		N	Y	Y	1.100E+002	
		1.100E+002						
Sr-90	67			N	Y	Y	3.500E+000	
	3.500E+000							
Sr-90		4355		N	Y	Y	9.400E+001	
		9.400E+001						
Th-228	2			N	Y	Y	0.000E+000	
TI-204	17			N	Y	Y	0.000E+000	
TI-204	17			N	Y	Y	0.000E+000	
Y-88	3			N	Y	Y	0.000E+000	
Zn-65	3			N	Y	Y	0.000E+000	

## Spent Sources &gt; 30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	u	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	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								
Pu-239		110	N	Y	Y	Y	2.300E+000		
		2.300E+000							
Pu-239	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								
Ra-226	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								

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	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	401		N	Y	Y	7.000E+001	
	7.000E+001						
Am-241	153		N	Y	N	2.200E+001	
	2.200E+001						
Am-241		1	N	Y	N	2.200E+001	
		2.200E+001					
Cf-251		8	N	Y	N	8.000E+002	
		8.000E+002					
Pu-238	1		N	Y	Y	1.100E+000	
	1.100E+000						
Pu-238		48	N	Y	Y	3.600E+002	
		3.600E+002					
Pu-239	6544		N	Y	Y	8.700E+001	
	8.700E+001						
Pu-239		4	N	Y	Y	5.100E+001	
		5.100E+001					
Pu-239	1041		N	Y	Y	9.800E-001	
	9.800E-001						
Pu-239	4		N	Y	Y	1.400E-004	
	1.400E-004						
Pu-239	2		N	Y	Y	3.100E-006	
	3.100E-006						
Ra-226	1		N	Y	N	5.000E-003	
	5.000E-003						
Ra-226		56	N	Y	N	1.300E+002	
		1.300E+002					



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Ra-226	2		N	Y	Y	7.700E-004	
	7.700E-004						
Th-232	1		N	Y	Y	2.500E-005	
	2.500E-005						

**Multiple Nuclides SRS in Storage**

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Sr-90	0.000E+000	N	Y	Y	
Rh-106	0.000E+000	N	Y	Y	
Ru-106	0.000E+000	N	Y	Y	
Y-90	0.000E+000	N	Y	Y	
Y-90	2.200E-001	N	Y	Y	
Sr-90	2.200E-001	N	Y	Y	