

## Site (Data) : Kiev SE

Stock of waste as at December 2012

Country: UKRAINE

Reporting Year: 2012

Site Name: Kiev SE

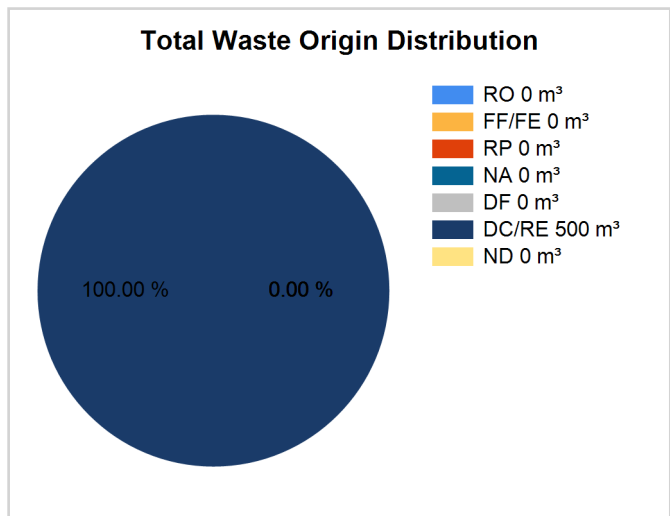
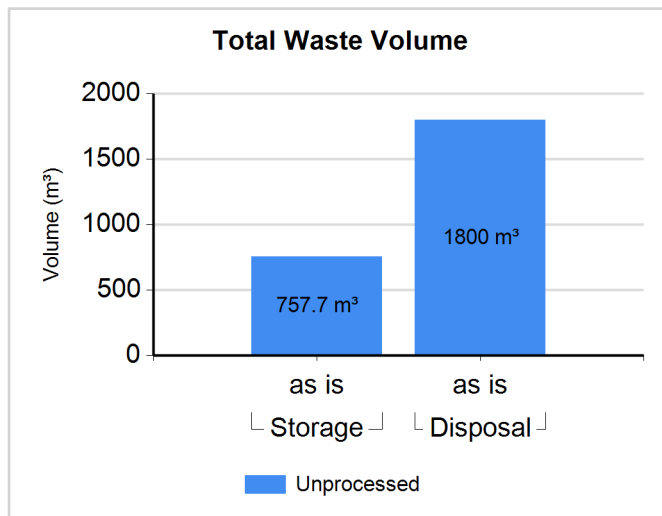
Full Name: Kiev State Interregional Special Enterprise

Inventory Reporting Date: December 2012

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 / LRW	N	N	481.700	481.700	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Stor 2	N	N	272.000	272.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Modul 8 -10	N	N	600.000	600.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 5-7	N	N	1200.000	1200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6793: The additional characteristics of the waste

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

## Waste Class: High-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 %
High-Active	Storage	N	N	4.000	4.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6797: The additional characteristics of the waste

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

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

Number of Sources/Total Activity of Sources (GBq)
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Nuclide	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	c o n d	u n c o n	c a t	Total Activity for all Groups (GBq)	Decay Date
	num/activity	num/activity	num/activity					
Ag-110m	1			N	Y	Y	0.000E+000	
	0.000E+000							
Ba-133	11			N	Y	Y	0.000E+000	
	0.000E+000							
Ba-133	1			N	Y	Y	0.000E+000	
	0.000E+000							
Cd-109	6			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	14			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	2			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-144	1			N	Y	Y	0.000E+000	
	0.000E+000							
Co-56	1			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	16			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	3			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	7			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60		48		N	Y	Y	2.580E+002	
		2.580E+002						
Co-60	33			N	Y	Y	1.200E+000	
	1.200E+000							

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Co-60	58			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-134	1			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137	34			N	Y	Y	1.913E+002	
	1.913E+002							
Cs-137	8			N	Y	Y	3.035E+005	
	3.035E+005							
Cs-137	98			N	Y	Y	3.040E+005	
	3.040E+005							
Cs-137	161			N	Y	Y	2.068E+003	
	2.068E+003							
Eu-152	1			N	Y	Y	0.000E+000	
	0.000E+000							
Eu-152	6			N	Y	Y	0.000E+000	
	0.000E+000							
Eu-152	5			N	Y	Y	0.000E+000	
	0.000E+000							
Fe-55	7			N	Y	Y	0.000E+000	
	0.000E+000							
H-3	810			N	Y	Y	3.611E+003	
	3.611E+003							
H-3	5			N	Y	Y	4.830E+003	
	4.830E+003							
H-3	1			N	Y	Y	0.000E+000	
Hg-203	9			N	Y	Y	0.000E+000	
	0.000E+000							
Hg-203	3			N	Y	Y	0.000E+000	
	0.000E+000							

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Ir-192	5			N	Y	Y	1.400E-001	
	1.400E-001							
Ir-192		2		N	Y	Y	7.540E+000	
		7.540E+000						
Ir-192	203			N	Y	Y	9.300E+000	
	9.300E+000							
Kr-85	1			N	Y	Y	2.100E+000	
	2.100E+000							
Kr-85	1			N	Y	Y	8.000E-001	
	8.000E-001							
Mn-52	14			N	Y	Y	0.000E+000	
	0.000E+000							
Mn-54	1			N	Y	Y	0.000E+000	
	0.000E+000							
Mn-54	4			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	6			N	Y	Y	0.000E+000	
Na-22	4			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	19			N	Y	Y	0.000E+000	
	0.000E+000							
Pm-147		1		N	Y	Y	1.180E+001	
		1.180E+001						
Pm-147		1		N	Y	Y	7.920E+000	
		7.920E+000						
Pm-147	2			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-113	14			N	Y	Y	0.000E+000	
	0.000E+000							

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Sn-113	3			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	666			N	Y	Y	5.270E+001	
	5.270E+001							
Sr-90		456		N	Y	Y	2.021E+003	
		2.021E+003						
Ta-182	1			N	Y	Y	0.000E+000	
	0.000E+000							
TI-204	6			N	Y	Y	3.390E-001	
	3.390E-001							
TI-204	4			N	Y	Y	0.000E+000	
	0.000E+000							
Y-88	9			N	Y	Y	0.000E+000	
	0.000E+000							
Y-88	3			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	15			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	3			N	Y	Y	0.000E+000	
	0.000E+000							

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

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					
Cf-252	59			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	2			N	Y	Y	0.000E+000	
	0.000E+000							

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Co-60		16		N	Y	Y	1.938E+004	
		1.938E+004						
Co-60		12		N	Y	Y	1.586E+004	
		1.586E+004						
Co-60		328		N	Y	Y	2.322E+004	
		2.322E+004						
Co-60		201		N	Y	Y	1.193E+004	
		1.193E+004						
Co-60		229		N	Y	Y	2.381E+004	
		2.381E+004						
Co-60		477		N	Y	Y	1.267E+004	
		1.267E+004						
Cs-137		457		N	Y	Y	3.546E+004	
		3.546E+004						
Cs-137		2		N	Y	Y	4.624E+002	
		4.624E+002						
Cs-137	289			N	Y	Y	3.850E+002	
	3.850E+002							
Cs-137		913		N	Y	Y	4.228E+004	
		4.228E+004						
Po-210	17			N	Y	Y	0.000E+000	
	0.000E+000							
Ta-182	1			N	Y	Y	0.000E+000	
	0.000E+000							

## Spent Sources &gt; 30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	o	u	n	c	a	t	Total Activity for all Groups (GBq)	Decay Date				
	Group I less than or equal 2 GBq	Group II more than 2GBq										d	o	n	d
	num/activity	num/activity													

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Am-241	16		N	Y	Y	0.000E+000	
	0.000E+000						
Am-241	1		N	Y	Y	0.000E+000	
	0.000E+000						
Am-241		19	N	Y	Y	2.347E+002	
		2.347E+002					
C-14	50		N	Y	Y	0.000E+000	
	0.000E+000						
K-40	7		N	Y	Y	0.000E+000	
	0.000E+000						
K-40	1		N	Y	Y	0.000E+000	
	0.000E+000						
K-40	4		N	Y	Y	0.000E+000	
	0.000E+000						
Ni-63	2		N	Y	Y	1.583E+000	
	1.583E+000						
Np-237	2		N	Y	Y	0.000E+000	
	0.000E+000						
Pu-238	8	3	N	Y	Y	3.572E+001	
	0.000E+000	3.572E+001					
Pu-238	4		N	Y	Y	0.000E+000	
	0.000E+000						
Pu-239	754		N	Y	Y	9.900E+000	
	9.900E+000						
Pu-239		2731	N	Y	Y	1.180E+002	
		1.180E+002					
Pu-239		215	N	Y	Y	1.898E+001	
		1.898E+001					
Ra-226	9		N	Y	Y	2.298E+000	
	2.298E+000						

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Ra-226	6		N	Y	Y	0.000E+000	
	0.000E+000						
Ra-226	8		N	Y	Y	0.000E+000	
	0.000E+000						
Th-232	2		N	Y	Y	0.000E+000	
	0.000E+000						
U-233	2		N	Y	Y	0.000E+000	
	0.000E+000						
U-233	8		N	Y	Y	0.000E+000	
	0.000E+000						
U-235	1		N	Y	Y	0.000E+000	
	0.000E+000						
U-238	1		N	Y	Y	0.000E+000	
	0.000E+000						

## Spent Sources &gt; 30 years in Disposition

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	3		N	Y	Y	1.400E+000	
	1.400E+000						
Pu-239		1	N	Y	Y	1.965E+004	
		1.965E+004					
Ra-226	32		N	Y	Y	2.270E+001	
	2.270E+001						

## Multiple Nuclides SRS in Storage

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Sr-90	2.759E+000	N	Y	Y	