Site (Data) : Kiev SE

Stock of waste as at December 2008

Country: UKRAINE Reporting Year: 2008

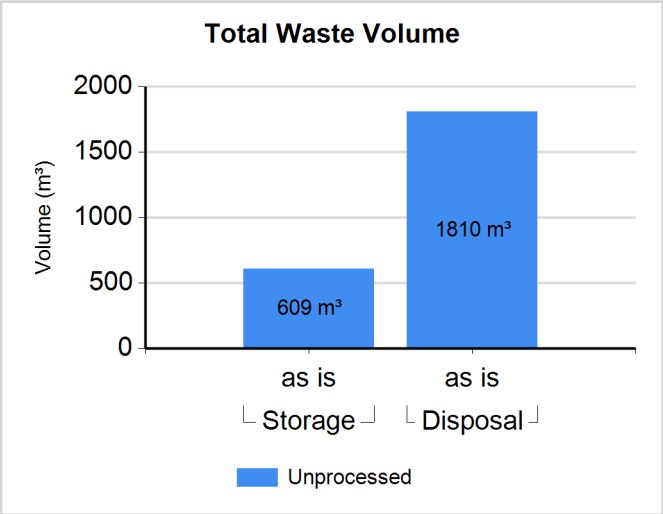
Site Name: **Kiev SE**

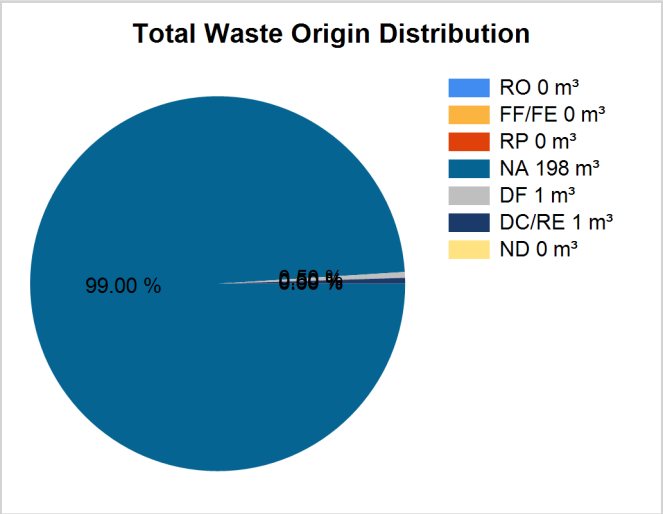
Full Name: Kiev State Interregional Special Enterprise

Inventory Reporting Date: December 2008 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	N	N	609.000	609.000	0.00	0.00	0.00	99.00	0.00	1.00	0.00
Mid-Active	Disposal	N	N	1810.000	1810.000	0.00	0.00	0.00	99.00	1.00	0.00	0.00

Comment **# 6793: The additional characteristics of the waste**

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

Spent Sources <=30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)			cond	uncond	cat	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II m ore than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBqq					
	num/activity	num/activity	num/activity					
Ba-133	6			N	Y	Y	1.455E-006	
	1.455E-006							
Ba-133	2			N	Y	Y	7.233E-005	
	7.233E-005							

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Ba-133	5			N	Y	Y	5.510E-005	
	5.510E-005							
Cd-109	20			N	Y	Y	1.360E-001	
	1.360E-001							
Cd-109	1			N	Y	Y	7.282E-005	
	7.282E-005							
Cd-109	10			N	Y	Y	1.510E-005	
	1.510E-005							
Ce-139	11			N	Y	Y	4.260E-004	
	4.260E-004							
Ce-139	6			N	Y	Y	9.504E-005	
	9.504E-005							
Ce-144	2			N	Y	Y	2.290E-007	
	2.290E-007							
Cf-252	60			N	Y	Y	7.650E-004	
	7.650E-004							
Co-57	86			N	Y	Y	2.860E-003	
	2.860E-003							
Co-57		45		N	Y	Y	5.761E+002	
		5.761E+002						
Co-57	7			N	Y	Y	1.402E-004	
	1.402E-004							
Co-60	300	1		N	Y	Y	7.790E+002	
	1.110E+002	6.680E+002						
Co-60	49			N	Y	Y	3.910E+001	
	3.910E+001							
Co-60	980	653		N	Y	Y	1.617E+005	
	6.690E+002	1.610E+005						
Cs-137	928	1564		N	Y	Y	1.080E+005	
	1.342E+003	1.067E+005						

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Cs-137	98			N	Y	Y	8.401E+001	
	8.401E+001							
Cs-137		40		N	Y	Y	3.736E+003	
		3.736E+003						
Cs-137	173	55		N	Y	Y	4.953E+004	
	2.290E+002	4.930E+004						
Eu-152	2			N	Y	Y	4.683E-004	
	4.683E-004							
Eu-152	5			N	Y	Y	1.303E-004	
	1.303E-004							
Eu-152	3			N	Y	Y	2.524E-005	
	2.524E-005							
Fe-55	22			N	Y	Y	6.890E-001	
	6.890E-001							
Fe-55	46			N	Y	Y	3.841E+000	
	3.841E+000							
H-3	19			N	Y	Y	4.050E+001	
	4.050E+001							
H-3		30		N	Y	Y	2.460E+003	
		2.460E+003						
H-3		10		N	Y	Y	7.278E+002	
		7.278E+002						
H-3	239			N	Y	Y	1.010E+002	
	1.010E+002							
H-3		1198		N	Y	Y	2.967E+005	
		2.967E+005						
Ir-192	570			N	Y	Y	3.670E-001	
	3.670E-001							
Ir-192	27	10		N	Y	Y	2.644E+003	
	3.710E+001	2.607E+003						

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Ir-192	6			N	Y	Y	4.040E-006	
	4.040E-006							
Kr-85	5			N	Y	Y	1.220E+000	
	1.220E+000							
Kr-85		1		N	Y	Y	8.450E+000	
		8.450E+000						
Kr-85	1			N	Y	Y	2.911E+000	
	2.911E+000							
Kr-85	37	27		N	Y	Y	2.171E+002	
	2.010E+001	1.970E+002						
Mn-54	9			N	Y	Y	9.170E-004	
	9.170E-004							
Mn-54	6			N	Y	Y	1.424E-004	
	1.424E-004							
Mn-54	17			N	Y	Y	3.330E-007	
	3.330E-007							
Na-22	10			N	Y	Y	5.640E-006	
	5.640E-006							
Na-22	7			N	Y	Y	1.175E-004	
	1.175E-004							
Na-22	27			N	Y	Y	1.110E-001	
	1.110E-001							
Na-22	9			N	Y	Y	1.380E-001	
	1.380E-001							
Pm-147	28	4		N	Y	Y	2.111E+001	
	4.011E+000	1.710E+001						
Pm-147	1			N	Y	Y	4.972E-001	
	4.972E-001							
Pm-147	3			N	Y	Y	7.950E+000	
	7.950E+000							

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Po-210	32			N	Y	Y	1.429E-003	
	1.429E-003							
Se-75	5			N	Y	Y	8.950E-008	
	8.950E-008							
Sn-113	7			N	Y	Y	1.044E-004	
	1.044E-004							
Sr-85	1			N	Y	Y	9.660E-003	
	9.660E-003							
Sr-90	23			N	Y	Y	9.500E+000	
	9.500E+000							
Sr-90	1273	16		N	Y	Y	9.730E+002	
	3.330E+002	6.400E+002						
Sr-90		737		N	Y	Y	3.823E+003	
		3.823E+003						
Sr-90		17		N	Y	Y	2.970E+003	
		2.970E+003						
Sr-90	700			N	Y	Y	1.350E+002	
	1.350E+002							
Th-228	3			N	Y	Y	1.805E-007	
	1.805E-007							
Th-228	7			N	Y	Y	6.130E-007	
	6.130E-007							
Tl-204	71			N	Y	Y	1.800E+001	
	1.800E+001							
Tl-204	10			N	Y	Y	1.070E-003	
	1.070E-003							
Tl-204	42			N	Y	Y	1.231E-005	
	1.231E-005							
Tm-170	7			N	Y	Y	7.920E+000	
	7.920E+000							

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Tm-170		7		N	Y	Y	4.430E+002	
		4.430E+002						
Y-88	5			N	Y	Y	1.091E-004	
	1.091E-004							
Zn-65	23			N	Y	Y	5.050E-009	
	5.050E-009							
Zn-65	5			N	Y	Y	1.091E-004	
	1.091E-004							

Spent Sources > 30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)		cond	uncond	cat	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					
Al-26	9		N	Y	Y	1.800E+001	
	1.800E+001						
Al-26	5	4	N	Y	Y	1.165E+002	
	6.500E+000	1.100E+002					
Am-241	93	4	N	Y	Y	5.550E+001	
	5.500E+000	5.000E+001					
Am-241	3		N	Y	Y	2.400E-004	
	2.400E-004						
Am-241	13		N	Y	Y	3.700E-002	
	3.700E-002						
Am-241	394		N	Y	Y	3.100E+000	
	3.100E+000						
Am-241	3		N	Y	Y	1.400E+000	
	1.400E+000						
C-14	18		N	Y	Y	2.100E+000	
	2.100E+000						

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C-14	6	140	N	Y	Y	4.516E+002	
	1.600E+000	4.500E+002					
K-40	14		N	Y	Y	2.100E-005	
	2.100E-005						
K-40	2		N	Y	Y	1.700E-005	
	1.700E-005						
Ni-63	2		N	Y	Y	8.300E-001	
	8.300E-001						
Ni-63	1		N	Y	Y	5.600E-001	
	5.600E-001						
Ni-63		30	N	Y	Y	7.600E+001	
		7.600E+001					
Ni-63	231		N	Y	Y	5.100E+000	
	5.100E+000						
Pu-238	14	1	N	Y	Y	3.330E+002	
	1.300E+001	3.200E+002					
Pu-238	6		N	Y	Y	1.200E+000	
	1.200E+000						
Pu-238	3		N	Y	Y	1.900E-004	
	1.900E-004						
Pu-239	1925		N	Y	Y	7.600E+001	
	7.600E+001						
Pu-239	3285		N	Y	Y	1.300E+001	
	1.300E+001						
Pu-239	62	6	N	Y	Y	6.150E+002	
	7.500E+001	5.400E+002					
Pu-239	18299	106	N	Y	Y	9.500E+002	
	6.400E+002	3.100E+002					
Pu-239	1525		N	Y	Y	7.200E+000	
	7.200E+000						

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Pu-239	5988		N	Y	Y	2.400E+002	
	2.400E+002						
Ra-226	74	4	N	Y	Y	5.020E+002	
	4.200E+001	4.600E+002					
Ra-226	21	1	N	Y	Y	3.700E+002	
	2.100E-004	3.700E+002					
Ra-226	3		N	Y	Y	2.100E-003	
	2.100E-003						
Ra-226	3		N	Y	Y	3.300E+000	
	3.300E+000						
Ra-226	2		N	Y	Y	4.900E-003	
	4.900E-003						
Th-232	2		N	Y	Y	8.500E-007	
	8.500E-007						
Th-232	5		N	Y	Y	1.200E-005	
	1.200E-005						
U-233	2		N	Y	Y	6.800E-005	
	6.800E-005						
U-233	5		N	Y	Y	1.900E-004	
	1.900E-004						
U-233	2		N	Y	Y	1.500E-006	
	1.500E-006						
U-234	8		N	Y	Y	4.200E-007	
	4.200E-007						
U-234	2		N	Y	Y	8.500E-008	
	8.500E-008						
U-234	2		N	Y	Y	4.800E-008	
	4.800E-008						
U-238	15		N	Y	Y	4.400E+000	
	4.400E+000						

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U-238	10		N	Y	Y	3.000E-001	
	3.000E-001						

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