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Research Report

Support study for the action plan for industrial waste landfilling in order to comply with EU legislation: Final report

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ANNEXES

Annex 1: Evolution of industrial production and number of employees in industry between 1990-2001

		Industrial production		Number of employees	
		%	Billion \$	%	Nr.
		2001/1990	Difference (2001-1990)	2001/1991	Difference (2001-1990)
	Total industry, out of which:	62%	-20,69	49%	-1945
1	Mining industry, out of which:	40%	-2,91	53%	-126
1.1	Coal mining and processing	81%	-0,10	45%	-54
1.2	Oil and gas extraction	35%	-2,39	86%	-10
1.3	Other mining activities (1)	34%	-0,42	37%	-62
2	Processing industry, out of which:	57%	-19,80	46%	-1862
2.1	Food and beverages	61%	-3,04	62%	-99
2.2	Tobacco industry	195%	0,26	83%	-1
2.3	Textiles	22%	-2,41	24%	-316
2.4	Textile, fur and leather wearing apparel	48%	-1,31	112%	32
2.5	Leather goods and foot wear	47%	-0,53	77%	-29
2.6	Wood processing (exclusive furniture)	95%	-0,04	74%	-24
2.7	Pulp, paper and cardboard	53%	-0,31	37%	-27
2.8	Printing houses, polygraphy and records reproduction on supports	260%	0,26	85%	-4
2.9	Crude oil processing, coal coking and nuclear fuel treatment	97%	-0,10	64%	-12
2.10	Chemistry and synthetic and man made fibres	54%	-1,83	38%	-114
2.11	Rubber and plastics processing	41%	-0,83	37%	-54
2.12	Other non-metallic mineral products	57%	-0,83	48%	-92
2.13	Metallurgy	96%	-0,19	55%	-78
2.14	Metallic construction and metal products	37%	-1,39	39%	-116
2.15	Machinery and equipment	24%	-3,82	24%	-459
2.16	Computers and office means	31%	-0,17	50%	-2
2.17	Electric machinery and appliances	47%	-0,71	43%	-73
2.18	Radio, TV and communications equipment apparatus	44%	-0,24	28%	-29
2.19	Medical, precision, optical, watchmaking instruments and apparatus	25%	-0,46	26%	-37
2.20	Means of road transport	43%	-1,13	41%	-96
2.21	Other means of transport	51%	-0,61	32%	-125
2.22	Furniture and other no classified activities	65%	-0,40	49%	-105
2.23	Waste recovering	151%	0,05	80%	-2
3	Electric and thermal energy, gas and water, out of which:	171%	2,02	134%	43
3.1	Electric and thermal energy, gas and hot water production, transport and distribution	169%	1,88	131%	30
3.2	Management of water resources, water collection, treatment and distribution	209%	0,14	142%	13

Source: Processed data from Yearly Statistic Handbook of Romania – 2002, CNS, Bucharest, 2003

Annex 2: Evolution of exchange rate between 1985-2001

Year	USD	EURO*
1985	17,14	N.A.
1986	16,15	N.A.
1987	14,56	N.A.
1988	14,28	N.A.
1989	14,92	N.A.
1990	21,56	N.A.
1991	76,47	87,81
1992	307,95	400
1993	760,01	884,6
1994	1655,09	1967,14
1995	2033,28	2629,51
1996	3082,6	3862,9
1997	7167,94	8090,92
1998	8875,55	9989,25
1999	15332,93	16295,57
2000	21692,74	19 955,75
2001	29060,86	26 026,89

Source: Data from National Bank of Romania, 2003

*) Until 2001, European currency was ECU

Annex 3: Evolution of the production with high potential of industrial waste generation in Romania

	UM	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2001/1989
Mining															
Coal	thou. tons	66462	40847	35205	41238	42441	43260	43988	44774	36246	28105	24535	30924	34732	85%
Iron ores	thou. tons	2482	2002	1461	1229	856	951	865	860	756	459	131	116	221	11%
Lead in concentrates	tons	39437	25074	16177	16697	16929	23838	23194	21356	19447	15128	17489	18750	31532	126%
Zinc in concentrates	tons	55451	36048	26322	25813	28017	35357	36737	32082	31737	25650	26536	27452	46622	129%
Copper in concentrates	tons	47755	31974	26423	24720	25250	26034	24520	24434	22638	19065	16455	16099	286903	897%
Raw bauxite	thou. tons	345	247	200	175	186	184	175	175	127	162	...	...	...	0%
Manufacturing industry															
Coke	thou. tons	5870	3942	2608	2902	2602	2884	3384	3153	3317	3094	1716	1613	1413	36%
Crude oil processing	thou. tons	30615	23664	15191	13299	13191	14744	15259	13426	12429	12520	9894	10532	10948	46%
Chemical industry															
Sulphuric acid (equiv. monohidrate)	thou. tons	1687	1111	745	572	527	491	477	422	329	229	234	181	58	5%
Synthesis ammonia	thou. tons	3337	2178	1375	1733	1620	1443	1809	1841	951	468	834	1255	1155	53%
Chemical fertilizers	thou. tons	2805	1744	1090	1398	1317	1163	1449	1464	850	451	763	1054	937	54%
Basic macromolecular products	thou. tons	640	474	350	272	256	304	331	322	339	320	299	331	360	76%
Tires	Thou. pieces.	6687	5143	4363	3247	3821	3240	3473	3739	3110	3002	2834	3226	3933	76%
Plastic products	thou. pieces	215	263	170	99	96	88	114	116	89	77	75	93	107	41%
Metallurgy															
Raw pig iron	thou. tons	9052	6355	4525	3111	3189	3496	4203	4025	4556	4541	2969	3066	3243	51%
Raw steel	thou. tons	14411	9761	7130	5376	5446	5800	6557	6083	6675	6336	4392	4672	4936	51%

Source: Processed data from Yearly Statistic Handbook of Romania – volumes 1990 -2002, CNS, Bucharest, 2003

Annex 4: Industrial waste generated in Central and East European countries

Industrial sectors	BG (a) 2001	Cz (a) 2001	EE (a) 2000	HU 2000	LV (a) 2000	LT (b)	PL 2001	Ro (a) 2000	Sk (a) 2000	Sl (a) 2001
thousand tons										
Total industrial waste, out of which	87091	34078	10983 ©	9946	542	4002 (d)	123810	44408	9226	3026
- mining	68074	2386		2233 (e)			43 731	21214 (f)	478	196
- manufacturing industry	3145	9758		2605 ©	422		57 746	12596	6744	1493
- energy production	15754	9398		3612	8		18 823	4977	1478	273
- drinking water	80	810		790	<0.5		2547	606	302	42
- buildings	7	7565		707 ©	7		134	3033	223	1000
- sludge from wastewater treatment	3	1167			8		217	1381		9
- other sectors	28	2994 (g)			97		612 (h)	603		12
in kg per capita										
Total industrial waste, out of which	11003	3333	8017 (a)	974	230	1150 (b)	3204	1979	1711	1519
- mining	8601	233		219 ©			1132	946 (f)	89	98
- manufacturing industry	397	954		255 ©	179		1494	561	1251	750
- energy production	1990	919		354	3		487	222	274	137
- drinking water	10	79		77	<0.5		66	27	56	21
- buildings	1	740		69 ©	3		3	135	41	502
- sludge from wastewater treatment	<0.5	114			3		6	62		5
- other sectors	4	293 (e)			41		16 (f)	27		6
in kg/1000 Euro GDP										
- mining	(i)	3536		25590 ©			14129	40417 (f)	2912	1176
- manufacturing industry	(i)	847		247 ©	454		1897	1635	1731	318
- energy production	(i)	5306		4652	52		5463	9741	3479	746
- buildings	(i)	4823		431 ©	27		16	2102	358	1079

Source: *Hazardous and industrial waste management in accession countries.*, European Commission., Luxembourg: Office for Official Publications of the European Communities., 2003, 74 pp. - 21 x 29.7 cm., Theme 8: Environment and energy ISBN 92-894-6220-5

- (a) The total includes the hazardous waste.
- (b) The total excludes the hazardous waste.
- (c) Industrial waste are considered as a difference between the total generated waste and the municipal waste (industrial waste = total waste – municipal waste).
- (d) Data are reported as waste from "other sectors".
- (e) Data from companies with more than 10 employees.
- (f) Data cover the ISIC codes 90, 93 and other.
- (g) Data cover NACE codes 51, 55, 60, 64, 74, 85, 93;
- (h) The waste from excavations (Codes 01 01 from European Waste catalog) are not included.
- (i) Data on GDP per sectors was not available.

Annex 5: List of the companies that collect, recover and/or recycle waste oils

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
ALBA	SNP PETROM- Sucurs.PECO Alba	Alba-Iulia, Str. Iuliu Maniu, nr.31	0258/811066	0258/811278	barbu.e@petrom.ro	Hategan Toma
ARAD	S.N.P. PETROM BUCUREȘTI S.A. SUCURSALA PECO ARAD	Arad, Str. Cometei Nr. 1	0257/ 276300	0257/ 276828		ing. Alexandru Babeanu
ARGES	SNP Petrom SA - Suc. PECO Arges	Pitesti, Str.I.C.Bratianu - 54				
	SC SOTEM ROMANIA SRL	Campulung, Str. Brasovului - 1				
BACAU	SNP PETROM_PECO Bacau	str. Pictor Aman nr.94 D	0234/122463	0234/122253		Carlan Marius
BIHOR	*	Calea Clujului nr.203 si 170, Oradea	0259/414721	0259/415992		dir.PopValeria
	RA Transport Local ORADEA	Str.Atelierelor nr. 12 Oradea	0259/123212	0259/426010		sing Marc Nicolae
BISTRITA NASAUD	SNP PETROM SA Sucursala PECO Bistrita	Bistrita, str. Ghe. Sincai, nr. 2				
BOTOSANI	Sucursala PECO-Botosani	str. Manolesti Deal f.n.	0231/517325	0231/531378	peco botosani@petrom.ro	Vizitiu Petronela
BRASOV	LAFARGE -ROMCIM SA HOGHIZ	Str.Padurii 1	0268/475788	0268/475795	Nu	Buciumean
	SNP PETROM	Str.Harmanului 15 B	0268/126140	0268/316535	Nu	Balanuca
BRAILA	SC PECO	Sos. Buzaului nr. 13	0239/613926	0239/615856		V.Roscan, Ionescu Irina
BUCURESTI	SC 2 M INC SRL	Dumitru Nicolae 2B, sect.3	021/255.01.54			D-I Silvestru, Director
	SNP PETROM SA	Sos.Straulesti 5-7, sect.1	021/230.60.74			D-na Opris Arianda
BUZAU	SC RAFINARIA VENUS OILREG SA	Rm. Sărat, str. Costieni, nr. 106	0238 / 564915	0238/ 563592	-	Voicu Gina
	SNP PETROM SA SUC. PECO BUZAU	Buzau, str. Bistritei, nr. 3	0238 / 717609	0238 /710503	-	Verga Georgeta
CARAS SEVERIN	S.N.P. PETROM S.A. Sucursala CS	Resita Str. Timisorii 19				
CALARASI			0242/315571			Sing.Silvia Petu
CLUJ	SOCIETATEA NATIONALA A PETROLULUI PETROM S.A. - SUCURSALA PECO CLUJ	Cluj-Napoca, str. Dorobantilor nr. 3	0264-431022	0264-190389	peco.cluj@petrom.ro	Cristina Prigon
CONSTANTA	S.C. PECO S.A.	Str. M. Eminescu nr. 9	0241/618596	0241/619461	m.fulea@petrom.ro	Paui Florica
COVASNA	SNP PETROM SA-Suc.PECO Covasna	Sectie Tg.Secuiesc, str.Garii,91	0267/324245	0267/314715	pecov@cosys.ro	
	SC ARIADNE SRL- Sf.Gheorghe	str.Lt.Paius David, nr.12/A				
DAMBOVITA	Statia PECO nr.1 Razvad	Razvad	0245/614731	0245/611533	m.manea@petrom.ro	
DOLJ	SNP PETROM SA.-Suc. Peco Craiova	Cva, strada Savinesti, nr.3	0251/413404	0251/412183		DI.Patrana
GALATI	SNP PETROM SA -Suc PECO Galati	Galati, str. Calea Basarabiei nr.62	0236/417678	0236/418719	ioana.pricope@petrom.ro	Radan Petrisor

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	CN APDM SA - complex DEPOL	Galati, str. Portului nr.34	0236/460660	0236/460140	apdm@apdm.galati.ro	Bejenaru Doru
GIURGIU	SC IMPEX CANGUR 92 SRL	Giurgiu	0246/210609	0246/210621		Paun Petre
	SC DANA V SRL	Giurgiu	0246/215007			Vochin Marin
	SC LUCMAR SRL	Giurgiu, str. Negru Voda, nr.73B	0246/230620	0246/230620		Logofatu Maria
	SC EUROCAR SERVICE SA	Giurgiu, sos. Bucuresti, km.60	0246/210371			Stanisteanu Norut
	SC CONSIG SA	Giurgiu, str. Libertatii, nr. 9	0246/216704			Raducu Gheorghe
	SC SKANDIA BRITT SRL	Bolintin Deal				
GORJ	SNP PETROM-SUC PECO GORJ	B-dul Ecat Teodoroiu 518	0253/219430	0253/215909		ing Petrache Irina
HARGHITA	Service-uri diferite					
	PECO Harghita	M-Ciuc, Cosbuc 51				
HUNEDOARA	PETROM-Sucursala PECO Huned.	Deva, Str.22 Decembrie Bl.11				
IALOMITA	SC Coral prodexim SRL	Fierbinti	0243/280919			Silvestru Florian
	SC Petronius oil SRL	Slobozia, Variantei 31	0243/214702			Rosca Nicolae
	SC Mobile service SRL	Fetesti, Calarasi-Horticons	0243/364574			Burcea Constantin
	SNP Petrom SA Slobozia	Slobozia, Brailei				
	SC Ciril com SRL	Ion Roata, sat Malu	0243/262059			Cazacu Marinica
	SNP Petrom SA Slobozia PECO 1	Slobozia, st peco nr 1	0243/235800			Dinu Milica
	SNP Petrom SA	Tandarei, st peco	0243/273551			Culea George
	SNP Petrom SA depozit peco	Slobozia, Brailei 17				
	SNP Petrom SA depozit peco	Fetesti, Independentei 7				
	SNP Petrom SA depozit peco	Urziceni, Calea Bucuresti				
ILFOV	SNP PETROM-SUC.Competrol Buc.	com.Voluntari, sos.Afumati nr.93-95	021/2306074	021/2306109	-	Ariadna Opris
	SNP PETROM-SUC.Competrol Buc.	Buftea, sos.Buc-Tirgoviste nr.96				
MARAMURES	SNP PETROM SA BUCURESTI, SUCURSALA PECO MARAMURES	Baia Mare, bd. Bucuresti nr.55	0262/221005	0262/224078		Zaharia Otilia
MEHEDINTI	S.N.P. PETROM S.A	Str.Dr.Saidac nr.45;Dep.Simian	0252/315330	0252/325134		Mircea Elvira
MURES	SNPPETROM-SUC.PECO MURES	Tg. Mureş P-ta Trandafir. nr13	0265-133428	0265-131723	peco.mures@fx.ro	ing. Turcu Stefan
NEAMŢ	SNP PETROM - SUC. PECO NEAMT	P. Neamt, bd. Decebal, nr. 28	233215760	233211701		ing.Rusanu Petronela
OLT	SC MARCONF SA PIATRA OLT	Piatra Olt				
PRAHOVA	S.N.P. PETROM - Sucursala Prahova	Ploieşti, str. Văleni nr.44 telefon	0244- 124751	0244-517676		Marin Elena
SATU MARE	SNP Petrom SA, Sucursala Preco Satu Mare	Str. A.I. Cuza, nr.16, Satu Mare	261750411	261750470		Weisenbacher Cecilia

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
SALAJ	SC CIMPS SA Zalău	M.Viteazul, nr.63	260611393	260611280	-	Spin Dumitru
	SNP Petrom SA-Sucursala PECO Sălaj	Zalău, str.Depozitelor,nr.4	260661084	260661572	-	Damian Maria
SIBIU	SNP PETROM SA -SUC. PECO SIBIU	Sibiu, Otelarilor 67	0269/238595	0269/237432	peco.sibiu@petrom.ro	Angela Pantea
SUCEAVA	SNP PETROM SA-SucPECO Suceava	str. Bazelor nr.1	0230/517231	0230/517235		
TELEORMAN	SNP PETROM Buc. Sucursala PECO Tr	Poroschia	0247-318659	0247-318638		ing.Rusanu Monica
	SC FIB SERV COM SRL ZIMNICEA	Zimnicea, sos Alexandriei nr.5	0247-366099	0247-366099		ing. Boldisor Florin
TIMIS	SN Petrom SA, Filiala PECO Timis	Timisoara, bv Eroilor 32 A	0256/198041			Blajovan Lucia
TULCEA	SC STAR 2000 SRL Tulcea	Str. Babadag, nr. 163, Tulcea	531215			Lungu Costica
	SC DONSCO SRL Tulcea	Str.G. Corneliu, nr. 163, Tulcea	532415	532145		Donscoi Traian
	SC BUSSACHE SRL Tulcea	Str. Elizeului, nr. 49 A, Tulcea	514496			Putanu Vasile
	SC THEO CILI SRL Constanta	Com. Baia, jud. Tulcea	744322979			Hira Cili
	SC BEMOSA COM SRL Topolog	Com. Topolog, jud. Tulcea	568214			Samata Nicolae
	SC HALCIU SRL Topolog	Com. Topolog, jud. Tulcea	723305892			Halciu Stere
	SC ACASAM SRL Nalbant	Com. Nalbant, jud. Tulcea	723544382			Masaca Stere
	SNP PETROM SA Tulcea	Str. Combustibilului, nr. 2, Tulcea	534468	534481		Gheorghe Viorel
	SC ROMPETROL SRL Constanta	Str. Isacpei, nr. 78, Tulcea	534023			Burcea Nicolae
	SC CONVENABIL SRL TULCEA	Str. Barajului, nr.6, Tulcea	514608	533552		Mauna Gigi
VASLUI	SNP PETROM SA Vaslui	str. Metalurgiei, nr.5, Vaslui				
	SC RULMENTI SA Barlad	str. Republicii, nr.320, Barlad				
VALCEA	SC Petrom Sucursala Peco	Str. Libertatii nr. 25	739330	733067	funaru.e@petrom.ro	Insp. Danut Vasile
VRANCEA	S.C. C.U.P. RA Focsani	Focsani , str. Horea, Closca si Crisan nr. 1-3	0237/226400	0237/222402		Gheorghe Vasilescu - Dir. General
	S.C. CISCOM S.R.L. Adjud	Adjud , str. Stadionului 2	722389608			Vasile Bogdan-Administrator
	SNP PETROM S.A. Vrancea	Focsani , str. Barsei nr. 10	0237/221000	0237/235070		Crudu Floricica - Resp. mediu

Source: Data from SNGD., ICIM 2003

Annex 6: List of the companies that collect, recover and/or recycle lead accumulators

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
ALBA	SC REMAT ALBA Fil. Alba-Iulia	Str. Bucuresti, nr.88	0258/813292	0258/813292		Pacurar Adriana
	SC REMAT ALBA Fil. Aiud	Str. Tribun Tudoran, nr 13	0258/813292	0258/813292		Pacurar Adriana
	SC REMAT ALBA Fil. Blaj	Str. Ghe.Baritui, nr.30	0258/813292	0258/813292		Pacurar Adriana
	SC REMAT ALBA Fil. Ocna-Mures	Str. Fabricii, nr.6A	0258/813292	0258/813292		Pacurar Adriana
	SC REMAT CAMPENI - Campeni	Str. Garii, nr.2	0258/771314	0258/771314		Danciu Maria
	SC REMAT CAMPENI Fil. Sebes	Str. Depozitelor, FN	0258/731208	0258/731208		Salonti Rodica
	SC METEOR STAR SRL Alba-Iulia	Str. George Cosbuc, nr.28	0258/811564	0258/811564		Todor Aurel
	SC VALEA SERMAGULUI SA	Loc.Sebesel-Sasciori, nr.284	0258/731109	0258/731109		Tirlea Vasile
	SC CLAMISO SRL Alba-Iulia	Str. Iasilor, nr.18	0258/814604	0258/814604		Canatuli Sorin
	SC DARCLEE SRL Blaj	Str. Avram Iancu, nr.4	0258/710811	0258/710811		Moldovan Florin
ARAD	REMAT SA Arad	Str. Bodrogului Nr. 18	0257/ 281760	0257/ 281761		Rafila Ioan
ARGES	SC REMAT Arges SA	Pitesti, Str. Depozitelor -55	0248/282033			Matei Florea
	SC PROREMAT SA	Pitesti, Str. Negru Voda - 2	0248/270523			Florea Marilena
	SNP Petrom SA - Suc. PECO Arges	Pitesti, Str. I.C.Bratianu - 54	0248/223116			Vasilescu Angela
BACAU	SC REMAT SA Bacau	Bacau, str. Izvoare nr. 107	0234/184718	0234/184698		Ion Mocanu
	SC SOMA SRL Bacau	Bacau, str. Tolstoi nr. 6	0234/517231	0234/514800		Emilia Bulai
	SC REMAT SA Iasi_punct lucru. Bacau	Bacau, str. Nordului nr.20	0234/174047	0234/186789		Maria Busuioc
	SC IRICAD SRL Galati-puncte Bacau	Galati, str. Drumul de Centura nr.16	0234/451039	0234/319380		Irimia Mihai
BIHOR	SC FADO TRADE SRL ORADEA	str.STEFAN ZWEIGnr.Oradea	059/133030	133030	fado@rdsor.ro	dir.dl.Begher
	SC REMAT BIHOR SA	Str.Gutenberg nr. Oradea	059/413031	415730		dir.dl.Costin
	SC REMAT ALESD SA	str,Bobalna.nr 77 Alesd	059/342067			dir.Gheorghias Ghe.
	SC REMAT SALAJ SA	strada Republicii f.n.Marghita				
	S.C. AMUR SYSTEM COM S.R.L.	Str. Rectorului nr. 4, Oradea	059/417130	478867		dir.Zanc
	S.C. PRODLADOR S.R.L. Marghita	Str. Garii nr. 2 Marghita				
BISTRITA NASAUD	SC ROMBAT SA	Bistrita, str. Drumul Cetatii, nr. 6				

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
NASAUD	SC REDIVIVUS PRODCOM SRL	Bistrita, str. Ion Caianu, nr. 4				
	SC REMAT SA	Bistrita, str. Drumul Cetatii, nr. 1/A				
BOTOSANI	SC REMAT SA-Botosani	str.Manolesti Deal nr. 3A	0231/514846	0231/514846		Aparaschivei Stelian
	SC REMAT SA-Iasi-Dep.Botosani	str.Manolesti Deal nr.1	0231/536878			Alexandru Constantin
	SC GOLDANA SRL-Botosani	str.Petru Rares nr.45	0231/537794			Apetroaie Constantin
	SC BELCARO SRL-Botosani	str.Alexandru cel Bun nr.6	0231/514432			Belcescu Mircea
	SC LETONA SRL-Botosani	str.Uzinei nr.5	0231/511739			Vasilian Gheorghe
BRASOV	SC.REMAT SA Brasov	Str.Timisul Sec	0268/331455	0268/331455		Papacica Marcel
	SC.RUSU RMV SRL Brasov	Str.Jupiter 3	0268/122612	0268/122612		Rusu Valentin
	SC.SILNEF SRL Brasov	Str.C.Porumbescu 2	0268/426138	NU		Strejut Silviu
	SC.APE LIMPEZI SRL Brasov	Str.DACIA 25	0268/130478	NU		Andriuc Valentin
	SC.STE SO SAMAC SRL	Str.Macului 41	0268/336474	NU		Stoleru Stefan
BRAILA	SC EAS	Str. Grivita nr. 201	0239/612642			Andrei Adrian
	SC REMAT	Bd. Independentei nr. 74	0239/619516	0239/618893		Stroe Viorel
BUCURESTI	SC REMAT SUD SA	Sos.Berceni-Fort 5, sect.4	334.53.89	334.52.94		D-na Draghici
	SC DOVA COM SRL	Bd Chisinau nr. 77 sect 2, bl a 13	256.18.28			Avramoiu Virgil, Director Exec.
	SC STAB BATERII SRL	Bd. Basarabiei nr. 250,sect 3	255.32.61			Stancu Niculae, Director
BUZAU	SC REMAT SA BUZAU	Str. Transilvaniei, nr. 429				
	SC SCORPION EXIM SRL BUZAU	Buzau, str. Traian Vuia, nr. 39				
	SC MSD COM SRL BUZAU	Buzau,str.Transilvaniei,nr.425bis				
CARAS SEVERIN	SC TEHNODINAMIC SRL	Caransebeş St Şesul Roşu 17				
	SC REMAT SA	Reşiţa Str Timişorii 16				
	SC DOLY COM SRL	Bocşa Str Republicii 183				
CALARASI	SC REMAT SA	Varianta Nord nr.1	0242/331-821	0242/331-861		Sing.Ion Gabreanu
	SC OMAR LOD SRL	Prel.Bucuresti Bloc C3 Sc5 Ap.11	0242/314-125			Sing. Ion Olarasu

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC ECOM IMPEX SRL	Varianta Nord nr. 3	0242/314-800	0242/314-800		Emilia Chetrone
	SC TONEANU LUMY	Calarasilor Bloc A7 , Ap.5	0242/337-702			Ion Toneanu
	CE CETINA SRL	Belsugului nr. 12	0242/316-850			Vasile Dumitru
	SC SOIMII IMPEX SRL	Str.Navodari Bloc 19, Sc. C, Ap.3	0242/314-624			Ion Soimaru
CLUJ	SC REFORMATEX SRL	Cluj-Napoca, str.Nadasel nr.4-A	0264-433323	0264-433315		Toderas Rodica
	SC CHIMSZED SRL	Cluj-Napoca, str.Donath nr.186/12	0264-420172	0264-420172		Szekely Jozsef
	SC DURACOM SRL	Cluj-Napoca, str.Calea Floresti nr.117	0264-162038	0264-162038		Marginean Dorel
	SC REMAT SA CLUJ	Cluj-Napoca, str.Burebista nr.8	0264-134087	0264-432916		Anca Monica
CONSTANTA	S.C. REMAT S.A.	Str. Interioara nr.2 Halta Traian, Constanta	0241/622410	0241/623220	-	Manea Daniela
	S.C. TOBIAS S.R.L.	Str. Garii, Com. Nicolae Balcescu, Constanta	0241/257009	0241/546654	-	Zamfir Ion
	S.C. VMB LUX SONOR S.R.L.	Str. Unirii nr.63, Bl.G7,Sc.A, Ap.3, Constanta	0241/546949	0241/542962	vmbluxsonor @hotmail.com.	Malciu Constantin
	S.C. COMAT S.A.	Str. Interioara nr. 3, Constanta	0241/621033;622148	0241/639579	marketing @comat.cta.ro	Culcearu Larisa
	S.C. MARCO CHIM S.R.L.	Str. Panselei nr.10, Bl.C1, Constanta	0241/519036	0241/519036	-	Stamate Marius
COVASNA	SC ARIADNE SRL- Sf.Gheorghe	str.Lt.Paius David, nr.12/A	0267/314986	0267/314986	ariadne_impex@hotmail.com	ing. Pozna David
	SC REMAT COVASNA SA-Sf.Ghe.	str.Constructorilor, nr.13	0267/317156	0267/317156	rematcv@yahoo.com	ing. Trif Ioan
	SC IAN COMSERV SRL-Sf.Gheorghe	str.Campului, nr.1	0267/352771			Madar Emeric
DAMBOVITA	S.C.Remat S.A.D-ta	Laminorului-10 Targoviste	0245/632967	0245/632967	_	Spanu Pojor
	S.C.Nelson S.R.L.Targoviste	str.Magrini-1A Targoviste	0245/213786	0245/213786	_	Ghita Ion
DOLJ	SC.REMAT SA.CRAIOVA	Strada Industriei, nr.7,Cva	0251/185336	0251/185336		DI.Mitroi Ctin
	SC.3R SA.CRAIOVA	Strada Rozelor, nr.68,Cva	0251/152747	251152747		DI.Cazacu Dtru
	SC.OLTMETAL SA.CRAIOVA	Strada Calea Bucuresti, nr.191	0251/436101	0251/436101		DI.Petru Ion
	SC.ADIDRAD COM SRL CRAIOVA	Str.Prelungirea Severinului,176	0251/186413	0251/186413		DI.Dragomir Ctin

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
GALATI	SC REMAT SA	Galati, str. Calea Prutului 53	0236/460750	0236/460504	nu are	Ouatu Constanta
	SC IRICAD SRL	Galati, str. Drumul de Centura nr. 16	0236/319380	0236/415039	irimia@yahoo.com	Irimia Mihai
	SC TASTROM 2 SRL	Galati, str. Regiment 11 Siret	0236/319405	0236/411362	tastrom@xnet.ro	Lefter Sorin
	SC TANGO-SCRAPS RECYLING SRL	Galati, str. Stelei 44	0236/312061	0236/312061	nu are	Pruteanu Sorin
GIURGIU	SC REMAT SA	Giurgiu, sos. Bucuresti, km.5	0246/210010	0246/210010	-	Nitu Laurentiu
	SC CRETULESCU SRL	Giurgiu, str. Puisor, bl.511, ap.16	0246/210123	0246/210123		Cretulescu
GORJ	SC REMAT SA TG-JIU	Str 23 August nr.113	0253/246386	0253/210679		ing Corobea Victor
	SC UVA ROVINARI	Rovinari str Principala nr 97	0253/372396	0253/372396		Ing Cucu Maria
	SC OLIZIN srl TG-JIU	Str Calea Bucuresti nr 168	0744/302167			Stanescu Maria
	SUC PECO GORJ	TG-JIU str VICTORIEI 5-7 Mezanin	0253/219430	0253/215909		ing Petrache Irina
	SC METALCOLECT srl TG-JIU	B-dul Rep0ublicii bl.20 ap.1	0253/206025	0253/206025		Ing Puiu Mihai
HARGHITA	SC REMAT HARGHITA SA	M-Ciuc, Bailor 77				
HUNEDOARA	SC REC PROD IMPEX SRL DEVA	Deva, str. Zarandului, nr.2				
	SC DRECHER CICU SNC	Santamaria Orlea, nr.50				
	SC ARDIS METAL SRL DEVA	Deva, str. Aurel Vlaicu, nr.44				
	SC REMAT SA DEVA	Deva, str. Grivitei, nr.37				
IALOMITA	SC Emgi com SRL	Alexeni				
	SC Bibicu prod SRL	Fetesti, Romilor 6				
	SC Alex lido SRL	Tandarei, lunca 31				
	AF Mihai Bratianu	Fetesti, Teilor 10				
	SC Natalia SRL	Gh. Lazar				
	SC Fluturas SRL	Fetesti, Scolii 31				
	SC Zmeurar SRL	Fetesti, Eternitatii 9				
	SC Grinter SRL	Fetesti, Teilor 10				
	SC Remat SA Ialomita	Slobozia, Amara 1				

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC Agricoserv SRL	Tandarei,Bucuresti,bl 182 A				
	SC Com auto sport SRL	Tandarei,Bucuresti,bl 160				
	SC Mecantu impex SRL	Slobozia,M.Basarab MB20				
	SC Convexim SRL	Slobozia,M.Basarab MB20				
	SC Miva SRL	Slobozia,M.Basarab MB20				
	SC Mixaj com SRL	Slobozia,M.Basarab MB17				
	SC Selena impex SRL	Grivita				
	SC Luminita SRL	Fetesti,Dropiilor 27				
	SC Baxim SRL	Cosereni				
	SC International Service SRL	Slobozia,DN2A KM110				
	SC Misu serv SRL	Slobozia,Closca nr 3				
	SC Rom mobil SRL	Urziceni,cal.Bucuresti 11				
IAȘI	REMAT SA Iași - SEDIU	Iași, Str. Aurel Vlaicu nr. 88	236278	236061		director: Victor Mihăilescu
	RECUPERARE SRL Pașcani	Pașcani, str. Gării nr. 1,	764598			adm. Neculai Ionel
	PANEURO TRADING SRL București - Filiala Iași *)	Iași, șos. Păcurari nr. 85,	259359	257997		adm. Mihai Irimia
	SNP Petrom SA - SUCURSALA PECO Iași, Stația 13 Bucium *)	Iași, str. Bucium nr. 17	272165			
	MOLDOTRANS AUTO SA Iași *)	Iași, str. Primăverii nr. 62	221565			Petronela Păun
	COMAT SA Iași*)	Iași, str. Serg. Ioan Grigore nr. 7	241000	240699	comatis@mail.dntis.ro	resp. p.m. Ovidiu Iorga
	C.M.M. CYCLON Iași *)					
	SNP Petrom SA - SUCURSALA PECO Iași, Stația 13 Bucium *)	Iași, str. Bucium nr. 17, telefon: 0232-272165				
	MOLDOTRANS AUTO SA Iași *)	Iași, str. Primăverii nr. 62, telefon: 0232-221565				
ILFOV	SC ROMRECYCLING SRL	pct.de lucruJilava,str.Sabarului 1	4570263	4570269	-	Dana Popoiu
	SC NEFERAL SA	Bd.Biruintei 100, com.Pantelimon	2552041	2552086	-	Dan Branzei

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC LEMATEC TRADE IMPEX	sos.Alexandriei 77, com.Bragadiru	4932389	4932389	-	Doina Dumitrache
MARAMURES	SC CORESERV SRL	BAIA MARE, str. 8 Martie nr.38	0262/211750	0262/211750		Osan Victoria
	SC CORESERV SRL	SIGHETU MARMATIEI, Statia CFR , Camara 5				
	SC RE-CONF-MET SRL	BAIA MARE, str. Ariesului nr.19	0262/211844			Ianki Gheorghe
	SC RE-CONF-MET SRL	BAIA MARE, str. 8 Martie nr.4A				
	SC RE-CONF-MET SRL	BAIA MARE, str. Gutinului nr.14				
	SC RE-CONF-MET SRL	BAIA MARE, str. Electrolizei nr.3				
	SC RE-CONF-MET SRL	SASAR, incinta rampa deseuri industriale				
	SC RECOMAT SRL	BAIA MARE, str. Postfundus nr.7	722321243			Coza Alexandru
	SC METRAN SRL	BAIA MARE, str. V. Lucaciu nr. 162	0262/211356	0262/211356		
	SC REMAT SRL MARAMURES	BAIA MARE, bd. Bucuresti nr.51	0262/222661	0262/225960		Nechita Florin
	SC REMAT SRL MARAMURES	WISEU DE SUS, str. Garii nr. 10				
	SC REMAT SRL MARAMURES	SIGHETU MARMATIEI, str.N.Titulescu nr.66				
	SC REMAT SRL MARAMURES	BAIA MARE, str. Oborului nr.1				
	SC REVALCOM SRL	BAIA MARE, str. Ariesului nr.19	0262/277692	0262/277692		Barcs Vasile
	SC TENET SRL distribuitor en -gross 2610 buc. baterii recuperate si trimise la Rombat Bistrita	BAIA MARE, bd. Traian nr. 17	0262/223070			Szekely Adrian
	SC SERAD SRL distribuitor en -gross, 1900 buc baterii recuperate si expediate la Rombat Bistrita	BAIA MARE, bd. Bucuresti nr.55	0262/221063	0262/224618		Sasarman M.
MEHEDINTI	S.C. REMAT S.A.	Str. Cernetiului nr. 14	312.704	327.376	-	Motantau Elvira
MURES	SC REMAT SA	Tg. Mureş str. Depozitelor 19	0265-165506	0265-166761	remat@orizont.net	ing. Constantin Beluta
	SC POLIGLOT COMIMPEX SRL	Dimbău str. Principală 107	0265-446473	0265-446473		Miklos Levente
	SC RETA COM SRL	Tg. Mureş str. Ghe. Doja 181/B	0265-253739	0265-253739		Szasz Mihai
	SC MBO SRL	Tg. Mureş E60 km 1	0265-252526	0265-252526	mbo@mbo.ro	Muresan Lucia
	SC SIREF SRL	Sighisoara str. Timavei 12/A	0265-772421	0265-772421		Gherka Vicentiu

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC ORMATIN MAT SRL	Cristești str. Principală nr.32	0265-435154	0265-435154		Orban Stefan
NEAMȚ	S.C. REMAT S.A. NEAMȚ	P. Neamț, str.Dăscălescu,287	233212990	233216750		ec. Panduru Tudor
OLT	SC REMAT SA OLT	Slatina,str.Depozitelor nr.13				
PRAHOVA	S.C. BLUE BIRD S.R.L. Ploiești	Ploiești, str. M. Bravu nr. 29	0244-512035			Oprea Daniel
	S.C. REMAT S.A. Ploiești	Ploiești, str. Muzelor nr. 38	0244-123182	0244-112659		
	S.C. DASIROMI COM S.R.L. Ploiești	Ploiești, str. Trandafirilor nr. 36	0244-196434			Ionescu Victoria
	S.C. EFMETAL SERV S.R.L. Ploiești	Ploiești, str. M Bravu nr. 169				Neata Aurelia
	S.C. NIAGARA COM S.R.L Ploiești	Ploiești str. Ștrandului nr. 20 0244-122405	0244-122405	0244-122405	niagarapl2002@mmc.ro	Iacob Lucian
	S.C. CESA IMPEX S.R.L. Ploiești	Ploiești str Poștei nr. 63	0244-196136	0244- 510308	cesa@ploiesti astral.ro	Voinescu Lucian
	S.C. ELECTROAUTOSERVICE S.R.L.	Ploiești str. Transilvaniei nr. 28	0244-124507	0244-124507		
SATU MARE	SC Rom-lus SRL Satu Mare	str. Magnoliei, nr. 39/A, Satu Mare	744939221			dl.Roman Gheorghe
	SC Remat Sa Satu Mare	str. Depozitelor, nr. 35, Satu Mare	261741400	261769465		dl.Pop Remus
	SC Ferometal SRL Satu Mare	str. Magnoliei, nr. 46, Satu Mare	261769080			dl.Gava Vasile
SALAJ	SC PERFECTA PROD SRL	CRISENI NR. 11	260619402	0260/619402	-	Gavriș Daniela
	SC REMAT SALAJ SA	ZALAU STR. MACIESILOR NR. 3	0260/662025	0260/662027	remat@netcompsj.ro	Ozsvath Kalman
SIBIU	SC REMAT SA SIBIU	SIBIU, OTELARI 71	0269/238118	0269/239711		Mihai Roman
	SC REMAT SA MEDIAS	MEDIAS, GARII 1	0269/845410			Laurentiu Vasile
	SC GELUK COM SRL	SLIMNIC, CETATII 27	0269/230208	0269/230208		Tocaciu Ovidiu
	SC ROMPLASTICA ILIESCU SRL	SIBIU, PRAGA 31	0269/223707	0269/235747		Iliescu Vasile
	SC DOREANA IMPEX SRL	AVRIG, GARII 12	0269/525200	0269/525200		Chioaru Maria
	SC TUDOR AUTO SRL	SIBIU, 9 MAI 46	0269/216258			Calcioiu Ana
	SC DENY SRL	SIBIU, MACARALEI 19	0269/213902	0269/213902		Curechean Cornel

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC NINA SRL	SIBIU, BALEA 1A	0269/212218	0269/218454		Dubeu Marioara
	SC ROGVAIV SRL	SIBIU, KIEV 15	0269/218461	0269/218461		Orasteanu Dumitru
	SC EMA SRL	SIBIU, CARLOVA 26	0269/226618	0269/220995		Lomota Mircea
	SC PROMBAT SA	COPSA MICA, OS. SIBIULUI 25	0269/847444			Rosca Ion
SUCEAVA	SC OMT METAL SRL GURA HUMOR	str Gara Păltinoasa f.n.	0230/230587	0230/234155		Onu Vasile, Macovei R
	SC ACUROM SRL SUCEAVA	Aleea Jupiter nr.2B	0722/345219			Budeanu Romeo
	SCMARICOL SRL SUCEAVA	Calea Unirii nr.35	0722/627788	0230/514871		Babalean Ghreorghe
	SC REBONA SRL SUCEAVA	str. Gr. Al. Ghica nr.12	0230/525235	0230/525235		Dăscălescu Petru
	SCCOREMAT IS FĂLTICENI	str. Topitoriei f.n.	0230/541020	0230/541020		Sandu Robertino Ioan
	SC COMREMAT SRL VATRA DORNEI	str. Luceafărului nr. 2	0230/371520			Todașcă Porfirie
TELEORMAN	SC IDEAL COM SRL	Turnu Magurele, str. Calarasi				
	SC DAN CONSTRUCT SRL	Alexandria, str. C. Brancoveanu				
	SC CRETULESCU SRL Giurgiu	Zimnicea, str. M. cel Batrin, nr.3				
	SC CRETULESCU SRL Giurgiu	Videle				
	SNP PETROM Buc.sucursala PECO Tr	Poroschia				
TIMIS	SC Moticica Grup SRL	Timisoara, cl Buziasului nr 6				
	SC Tudorache SRL Caransebes	Timisoara, str Sulina nr 6				
	SC Erina Prest SRL	Lugoj, str Bobalna nr 11				
	SC Steel Petrol SRL Oradea	Tm. str Constructorilor nr 2				
	SC Guttenbrunn Recycling SRL	Timisoara, cl Sagului km 7				
	SC Comat-Timis SA	Tm. str I. I. de la Brad nr 15				
	SC Octali Chimprod SRL	Timisoara, cl Buziasului nr 19				
TULCEA	SC REMAT SA TULCEA	Str. Mahmudiei, nr. 12, Tulcea	0240/517888	0240/517888		ing. Micu Chivuta
VASLUI	SC REMAT SA Vaslui	str.Podul Inalt,nr.9, Vaslui	0235/360309	0235/360309	-	Radu Iorgu
	SNP PETROM SA Vaslui	str.Metalurgiei, nr.5, Vaslui	0235/315290	0235/340273	gabi.p@petrom.ro	sing.Codreanu Elena

County	Legal entities that collects, recovers and/or eliminates waste oils		Phone	Fax	E-mail	Contact person
	Name of the company	Address				
	SC RULMENTI SA Barlad	str. Republicii, nr.320,Barlad	0235/411120	0235/413838	dpduirb@tag.starnet.ro	ing.Ibanescu Marius
VALCEA	SC Remat Valcea SA	str. Bujoreni nr. 52	0250/741442	0250/741290	remat@onix.ro	Ing. Cazacu Elena
VRANCEA	S.C. REMAT VRANCEA S.A.- pct. Focsani,Marasesti,Adjud	Focsani , str. Milcov 38	0237/227126	0237/227126	-	Eufrosie Camelia - Dir. Economic
	S.C. REMAT IASI S.A.- pct. Focsani	Focsani , str. Antrepozite 1	0237/238736			Racoviteanu Nicolae- sef depozit
	S.C. REMAT IASI S.A.- pct. Marasesti	Marasesti , str. Doinei 2	0237/261796	0237/261796		Iftenie Romelia - sef depozit
	S.C. MULTIM S.R.L. BARLAD- pct. Focsani	Focsani , str. Anghel Saligny 5 bis	0744/615007			Capraru Constantin - Sef depozit
	S.C. ATLAS S.R.L. FOCSANI	Focsani , str. Leon Kalustian 2	0744/275082			Hangan Maria - Administrator

Source: Data from SNGD., ICIM 2003

Annex 7: Correspondence between activities within the national economy (in accordance with CAEN from 26/11/2002) and types of waste from List of waste HG 856/2002

Code CAEN	Name of activity	Code LIST	Type of waste
A	Agriculture, hunting and forestry	02.	Wastes from agricultural, horticultural, hunting, fishing and aquaculture primary production, food preparation and processing <i>PARTIAL</i>
B	Fishing and aquaculture		
C	Mining and quarrying industry		
CA	Mining industry for fuels	05.	Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
CB	Mining industry for non fuels materials	01.	Wastes resulting from exploration, mining, dressing and further treatment of minerals and quarry
D	Manufacturing industry		
DA	Food, beverage and tobacco industry	02.	Wastes from agricultural, horticultural, hunting, fishing and aquaculture primary production, food preparation and processing <i>PARTIAL</i>
DB	Textile and leather goods industry	04.	Wastes from wood processing and the production of paper, cardboard, pulp, panels and furniture
DD	Wood and wood products industry	03.	Wastes from wood processing and the production of paper, cardboard, pulp, panels and furniture <i>PARTIAL</i>
DE	Pulp, paper and paper products, and printing manufacture	03.	Wastes from wood processing and the production of paper, cardboard, pulp, panels and furniture <i>PARTIAL</i>
DF	Synthetic and artificial chemical substance and products manufacture	06.	Waste from inorganic chemical processes
		08.	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks <i>PARTIAL</i>
DG	Chemical substance and products, and synthetic and artificial fibbers and yarns manufacture	07.	Waste from organic chemical processes
		08.	Wastes from the manufacture, formulation, supply and use of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks <i>PARTIAL</i>
DH	Rubber and plastic goods manufacture	07.	Waste from organic chemical processes
DI	Other products from non-metallic minerals	10.	Inorganic wastes from thermal processes <i>PARTIAL</i>
DJ	Metals and metal products industry		
DK	Machinery and equipment industry	11.,12.,14.	
DL	Electric and optical equipment industry	11., 12., 14.	
DM	Means for transport industry	13.	Oil wastes and liquid fuel waste (except edible oils, 05, 12 and 19) <i>PARTIAL</i>
DN	Other industrial activities		
E	Electric and thermal energy, gas and water	19.	Wastes from waste treatment facilities, off-site waste water treatment plants and the water industry

Code CAEN	Name of activity	Code LIST	Type of waste
			PARTIAL
		11.*	Inorganic metal-containing wastes from metal treatment and the coating of metals, and non-ferrous hydrometallurgy PARTIAL
		12.*	Wastes from shaping and surface treatment of metals and plastics PARTIAL
		14.*	Wastes from organic substances used as solvents (except 07 and 08)
		15. (15 02)	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified PARTIAL
F	Buildings	17.	Construction and demolition wastes (including road construction)
G	<i>En detail</i> and <i>en gross</i> trading, car, motorcycle, personal and household goods repair	13.	Oil wastes and liquid fuel waste (except edible oils, 05, 12 and 19)
H	Hotels and restaurants		
I	Transport, storage and communications		
J	Financial transactions		
K	Real estate transactions, rental and services mainly for companies		
L	Public administration ; social insurance from public system		
M	Education		
N	Health and social assistance	18.	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
O	Other activities for collective social and personal services	09.	Wastes from the photographic industry
P	Activities of personnel in households		
Q	Activities of organizations and organisms		
		15.** (15 01)	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified PARTIAL
		16.	Wastes not otherwise specified in the list
		20.**	Municipal wastes and similar commercial, industrial and institutional wastes including separately collected fractions

* Industrial waste categories which are generated by more types of industrial activities

** Waste categories which are generated by all types of activities included in CAEN classification (Monitorul Oficial, Partea I nr. 908 din 13/12/2002)

Source: Institutul Național de Statistică, „CAEN REV.1, prezentare, interpretare, principii de utilizare”, Ed. ALL BECK, 2003 și Hotărârea de Guvern nr. 856 din 16 august 2002 privind evidența gestiunii deșeurilor și pentru aprobarea listei cuprinzând deșeurile, inclusiv deșeurile periculoase

Annex 8: Production waste generation for different economic activities (2002)

Economic activity	Waste quantity	
	(million tones)	(%)
Agriculture and animal breeding	0,7	0,2
Forestry	0,09	0,02
Mining industry	344,5	92
Food, beverage and tobacco industry	1,2	0,3
Textile and clothing industry	0,3	0,08
Leather goods and footwear industry	0,01	0,002
Wood processing industry	0,8	0,2
Pulp, paper and cardboard industry; printing	0,5	0,1
Chemical and petrochemical industry	1,1	0,3
Rubber and plastics industry	0,03	0,008
Other non-metallic mineral products industry	0,9	0,2
Metallurgical industry	4,8	1,3
Metallic construction industry	0,2	0,05
Machinery and equipment	0,5	0,1
Means of road transport industry	0,4	0,09
Other non-classified activities (furniture manufacture)	0,5	0,1
Waste recovery	0,02	0,05
Electric energy	11,7	3,1
Constructions	0,4	0,09
Trade	0,2	0,05
Transport and storage	0,8	0,2
Other activities	0,07	0,02
TOTAL	372,4	100

Source: Study regarding waste management at county and national level for 2002, ICIM Bucharest, June 2003)

Annex 9: Industrial waste final disposal sites in operation in 2002

Type of landfill	Number	Area (ha)
Mining waste landfill	203	5409
Slag and ash landfills	77	3102
Dumps (final disposal sites for sludge and liquid wastes)	121	530
Settling ponds	68	1078
Drying beds	55	50
Simple industrial landfills	107	129
Underground final disposal sites	45	2
Not mentioned	11	47
TOTAL	687	10346

Source: Study regarding waste management at county and national level for 2002, ICIM Bucharest, June 2003)

Annex 10: Priority projects in the field of industrial waste management

Project	County
Installation for dismantling electric condensers with high content of PCB	Timiș
Recycling plastic containers	Buzău
Integrated management system for dismantling used cars	Timiș
Technological line for recovering and recycling used tires	Cluj
Implementing environmental friendly technologies in SC Vrancart SA	Vrancea
System for used oil collection and recycling	Cluj
Installation for incinerating toxic and dangerous waste in the Region N-E	Iași
Incinerator for dangerous solid waste in SC Oltechim SA Rm. Vâlcea	Vâlcea
Cleaning up and neutralization of a storage facility for dangerous substances existing on the site of former company SC Rovadis SA Crângurile	Dâmbovița

Source: MAPAM – *Planul Național de Acțiune pentru Protecția Mediului*, Proiect PHARE 2000 – RO 0006.14.02, octombrie 2003)

Annex 11: Legislation issued to complete the legal framework and implementation of IPPC directive

1. **Order of the Minister of waters and environmental protection 890/2002** sets the IPPC Office within MWEP;
2. **Order of the Minister of waters and environmental protection 1144/2002** on setting up the Register on the pollutants released in the environment by the activities falling within the scope of the provisions of EGO 34/2002, approved by the Law no 645/2002;
3. **Order of the Minister of waters and environmental protection 860/2002** on the approval of the Procedure for the environmental impact assessment and granting the environmental license;
4. **Governmental Decision 918/2002** on the approval of the framework procedure for the Environmental Impact Assessment (EIA) and the list of public and private projects that need impact studies.
5. **Order of the Minister of waters and environmental protection 1440/2003** for the approval of the National Guidebook for carrying out the Pollutant Emission Register;
6. **Order of the Minister of waters and environmental protection 37/2003** for the approval of the Guidebook on the best available techniques for the cellulose and paper industry;
7. **Order of the Minister of agriculture, forests, waters and environment 566/2003** on the approval of the Reference Document on the best available techniques in the lime and cement industry. The Document was published on the MAFWE site: www.mappm.ro
8. **Order of the Minister of agriculture, forests, waters and environment 818/2003** on the approval of the procedure for the issuing of the integrated environment permit.

Annex 12: Industrial waste landfills under the provisions of the IPPC Directive

County	Not under IPPC Directive	Under IPPC Directive		Type of landfill		
		Requesting transition period	Not Requesting transition period	Inert	Non-hazardous	Hazardous
Alba	2	4	1		7	
Arad		1			1	
Argeş	2	3	1	1	2	3
Bacău	2	5	6		5	8
Bihor		8	9		6	11
Bistriţa Năsăud	1	1			1	1
Botoşani						
Brăila		1			1	
Braşov	3	1	3		7	
Buzău	3	1			1	3
Calarasi	1				1	
Caras Severin	4		1		5	
Cluj	4	2		1	4	1
Constanta	5		4		4	5
Covasna	2				1	1
Dâmboviţa	2		1		3	
Dolj	9				8	1
Galaţi	1	2			2	1
Giurgiu			1		1	
Gorj	1	3	2		6	
Harghita	1				1	
Hunedoara		5			5	
Iaşi		2			2	
Ilfov			1			1
Maramureş		1				1
Mureş	3	4	1		6	2
Neamţ	1	2			1	2
Olt			6		5	1
Prahova		12			1	11
Sălaj	2	2	1		4	1
Satu Mare	1				1	
Sibiu	2		1			3
Suceava	2	3			5	
Teleorman	3	1			3	1
Timiş		1			1	
Tulcea	1				1	
Vâlcea		2	1		2	1
Vaslui	1		1		2	
Vrancea	2				2	
Bucuresti						
TOTAL	61	67	41	2	108	59

Source: Support study for completion of Directive 1999/31/EC implementation plan with data concerning hazardous and inert industrial waste landfills, ICIM Bucharest, March 2004

Annex 13: International classifications and definitions of radioactive waste

Acronym	Waste type	Waste properties
International Atomic Energy Agency (IAEA), 1994		
EW	exempt waste	- generated a yearly dose: <0,01 mSv/person - radionuclide level of activity: 0,1 – 10⁴ Bq/g
LILW	low and intermediate level waste	- low activity level : > 10⁴ Bq/g - radiant thermal energy: <2kW/m³ - low level: contact dose <2mS/h (do not require cooling) - intermediate level: contact dose >2mS/h (do not require cooling or a very low cooling)
LILW-SL	short lived	- radionuclide emitting α radiations with long life time : <4000 Bq/g per waste component and <400 Bq/g per total waste >4000 Bq/g waste component and <400 Bq/g per total waste
LILW-LL	long lived	
HLW	high level waste	- thermal radiant energy: >2kW/m³ - radionuclide emitting α radiation with long life : >4000 Bq/g total waste and >400 Bq/g component (activity level 5x10⁴-5x10⁵ TBq/m³ corresponding to values of 2-20 kW/m³ thermal radiant energy)
Commission recommendations UE 1999/669/EC, Euratom		
TRW	transition radioactive waste	it will desegregate during storage period, not being classified as radioactive waste after this period
LILW	low and intermediate level waste	radionuclide concentration is low generating low quantities of heat during storage, and its limitation depends on site conditions
LILW-SL	low and intermediate level waste - short lived	- containing radionuclide with half life time less or equal with that of Cs137 and Sr90 (about 30 years) with concentration limitation for long life radionuclide generating α radiation <4000 Bq/g per waste component and <400 Bq/g per total waste - radionuclide with long half life emitting radiation that exceeds the limits for LILW-SL
LILW-LL	low and intermediate level waste - long lived	
HLW	high level waste	waste with high concentration of radionuclide that generate thermal energy during storage and final disposal
Classification of radioactive waste in UK		
VLLW	very low level waste	do not require special protection measures in accordance with the national legislation
LLW	low level waste	radioactivity do not exceed 4 GBq activity α/tone or 12 GBq activity $\beta+\gamma$/tone
ILW	intermediate level waste	waste exceeding the level of radiation of LLW but not requiring cooling during storage
HLW	high level waste	generate heat and have to be cooled during storage,

Source: International Atomic Energy Agency, Classification of Radioactive Waste, Safety Series No. 111-G-1.1, IAEA, Vienna (1994);

Commission Recommendation 1999/669/EC, Euratom;

www.lancs.ac.uk/users/csec/isolus2/isolus4-05.htm.

Annex 14: Quantities of radioactive waste generated and existing storage capacities in Romania

Waste producer/ waste type	Quantity/volume	Activity
Nuclear Power Station Cernavodă		
• combustible waste of low level	22 m ³ /year	1,5x10 ⁻² TBq/year
• non-combustible waste of low level	13 m ³ /year	5x10 ⁻³ TBq/year
• ion exchange resins	7 m ³ /year	15,5 TBq/year
• filters	2 m ³ /year	1,85 TBq/year
• others (organics)	3,5 m ³ /year	0,3 TBq/year
Nuclear Research Institute – Pitești		
• liquids	600 m ³ /year	<10 ⁻³ Ci*/m ³
• solids	400 kg/year	<10 ⁻³ Ci/m ³
• ion exchange resins	1,5 m ³ /year	10 ⁻³ – 10 ³ Ci/m ³
• liquids with natural uranium content	1200 m ³ /year	<5 gU/l
• solids with natural uranium content	1000 kg/year	<5 kgU/m ³
Nuclear Physics and Engineering Institute „Horia Hulubei” - Măgurele		
• liquids with low activity (LLAW)	up to 10 ³ m ³ /year	<10 ⁻³ Ci/m ³
• solids with low activity (LLS)	up to 10 ³ m ³ /year	<10 ⁻³ Ci/m ³
• intermediary level (ILW)	up to 70 shielded containers/year	<200 mrem/h
• used sources	up to 400/year	<10 ⁴ Ci
• conditioned waste	up to 200 containers	<200 mrem/h
• smoke detectors	up to 10.000/year	<10 ⁻³ Ci/m ³
DNDR, National Company of Uranium Băița-Bihor		
• final disposal of radioactive waste in containers/barrels	Capacity up to 150000-200000 containers	
Mining industry – uranium mines and ore processing (Banat, Bihor, Crucea, Tulgheș, Feldioara)		
• landfills and dumps for ore with a low concentration and ore from exploitation – more than 100	Total storage volume 5,5 x 10 ⁶ m ³ (1,4 x 10 ⁶ m ²)	
• liquid waste from ore processing	5000 m ³ /day (Total storage volume 4,3 x 10 ⁶ m ³)	
• contaminated soil	Total 16,7 x 10 ³ t	

*1 Ci = 3,7 x 10¹⁰ Bq

SOURCES: Nuclear Safety and the Environment, Schemes for Financing Radioactive waste Storage and Disposal, Annex, Final report, European Commission, Environment Directorate-General, EUR 18185, 1999

Webster S., Radioactive Waste Management in the Central and Eastern European Countries, European Commission, Directorate-General for Environment, Nuclear Safety and Civil Protection, 1999

