

## Statistics of the Register of Guarantees of Origin, Germany - 2016

status: 30.09.2017; please take notice of the  
explanation in the German table

Techcode according to EECS Rules, Fact Sheet 5	Fuelcode according to EECS Rules, Fact Sheet 5	Energy	2016									
			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	26.628	15.388	7.368	36.325	253.981	716.189	102.925	795.854	7.447
T020002	F01050100	Mechanical/ other	Wind - offshore	0	0	0	0	26.590	324.434	50.330	318.723	1
T020000	F01050100	Mechanical/ other	Wind - unknown	6.691	6.664	1	8.714	156.582	276.045	40.659	287.601	77.376
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	13.224.704	11.348.395	41.336	12.193.366	44.077.701	80.901.443	4.368.084	77.689.829	2.331.382
T010000, 0100	F01040100	Heat	Solar	3.733	1.549	1.323	1.524	6.545	4.393	33.037	137.685	122
T050302	F01040200	Heat	Geothermal, condensation turbine	0	0	0	0	453.315	651.533	0	739.198	10
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	1.682.977	597.620	22.355	1.259.744	812.933	501.371	780.005	102.479	68.788
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste	0	0	0	0	32.659	32.659	0	32.659	0
T050000	F01010201	Biomass	Solid - industrial & commercial waste	0	0	0	0	81	81	0	0	0
T050000	F01030100	Biomass	Gas - landfill	0	0	0	0	0	0	0	0	0
T050000	F01030200	Biomass	Gas - sewage	703	595	61	520	0	520	0	0	0
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas	0	0	0	0	0	30.032	0	30.032	0
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)	0	0	0	0	20.000	20.000	0	20.000	0
T050000	F01020200	Biomass	Liquid - black liquor	0	0	0	0	43.053	43.053	0	45.053	0
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	1.817.699	669.598	46.163	1.121.488	616.851	516.480	485.971	98.940	122.009
				16.763.135	12.639.809	118.607	14.621.681	46.500.291	84.018.233	5.861.011	80.298.053	2.607.135

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	7.381	2.768	4.198	10.657	116.199	265.750		168.454	803
T020002	F01050100	Mechanical/ other	Wind - offshore					4.496	131.140	44.800	238.429	
T020000	F01050100	Mechanical/ other	Wind - unknown	425	425		8.706	34.141	100.301		9.100	77.376
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	945.441	1.056.227	4.916	736.087	10.013.033	17.153.543	372.765	19.631.667	215.389
T010000, 0100	F01040100	Heat	Solar	244	31	35	519	1.190	257			2
T050302	F01040200	Heat	Geothermal, condensation turbine						50.000		50.025	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	111.961	38.650	9.276	256.195	232.473	48.158	160.282		13.011
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	54		54						
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas						8.001		29.998	
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	121.737	57.820		80.733	61.336	157.795	58.585		29.630
				1.187.243	1.155.921	18.479	1.092.897	10.462.868	17.914.945	636.432	20.127.673	336.211

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	4.336	3.013	907	10.942	29.736	92.301	7.042	59.948	2.307
T020002	F01050100	Mechanical/ other	Wind - offshore					12.503	84.740	2.190	56.153	
T020000	F01050100	Mechanical/ other	Wind - unknown	780	777			33	16.210		33	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.203.529	1.287.375	20.711	724.095	3.500.612	11.386.392	1.219.174	3.992.867	269.636
T010000, 0100	F01040100	Heat	Solar	128	70		242	168	135			
T050302	F01040200	Heat	Geothermal, condensation turbine								55.000	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	124.209	57.903	5.580	217.242	132.914	46.348	176.816	35.000	15.941
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	44	42		502		502			
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	120.533	65.238	10	12.010	48.672	17.903	34.909	6.250	22.087
				1.453.559	1.414.418	27.208	965.033	3.724.638	11.644.531	1.440.131	4.205.251	309.971

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	1.860	1.135	490	437	29.209	81.889	1	46.857	315
T020002	F01050100	Mechanical/ other	Wind - offshore					4.496	11.871		4.899	
T020000	F01050100	Mechanical/ other	Wind - unknown	608	608			7.548	12.876		102.034	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.066.532	1.174.544	474	1.181.769	6.462.983	14.331.753	524.573	6.935.028	223.546
T010000, 0100	F01040100	Heat	Solar	212	154		13		18		101	9
T050302	F01040200	Heat	Geothermal, condensation turbine						25			
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	133.425	75.510	4.780	37.499	13.409	51.563	25.828	10.769	10.917
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	67	62							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas						21.997			
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	163.983	70.523	40.931	137.062	97.103	52.489	53.759	20.690	14.409
				1.366.687	1.322.536	46.675	1.356.780	6.614.748	14.564.481	604.161	7.120.378	249.196

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	1.579	975	595	6.446	45.990	81.540		105.737	506
T020002	F01050100	Mechanical/ other	Wind - offshore						4.899			
T020000	F01050100	Mechanical/ other	Wind - unknown	570	567			12.469	135.443	6.503	6.503	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.250.100	1.367.303	3.671	144.817	2.721.483	11.917.461	168.841	1.582.743	230.608
T010000, 0100	F01040100	Heat	Solar	801	221	541		1.000	1.109			18
T050302	F01040200	Heat	Geothermal, condensation turbine						58.000		14.288	10
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	116.426	53.056	21	117.916	83.703	15.080	255.413		13.017
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste								32.659	
T050000	F01010201	Biomass	Solid - industrial & commercial waste					81	81			
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	67	61	7	1		1			
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor								45.053	
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	145.214	85.026		117.608	62.692	8.636	15.833		6.751
				1.514.757	1.507.209	4.835	386.788	2.927.418	12.222.250	446.590	1.786.983	250.910

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	1.978	1.157	817		685	31.233	95.311	3.774	196
T020002	F01050100	Mechanical/ other	Wind - offshore						7.359		110	
T020000	F01050100	Mechanical/ other	Wind - unknown	586	585	1			7.311			
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.358.203	1.411.157	5.595	475.812	1.285.114	5.249.989	304.553	1.641.078	558.418
T010000, 0100	F01040100	Heat	Solar	1.000	270	683		625	22		626	27
T050302	F01040200	Heat	Geothermal, condensation turbine								12.000	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	151.240	43.982		101.066	73.078	66.640	13.253		2.313
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste					4.037	4.037			
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	64	72							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	158.241	91.686		86.695	10.620	84.930	16.268		4.072
				1.671.312	1.548.909	7.096	663.573	1.374.159	5.451.521	429.385	1.657.588	565.026

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	981	587	361	1.190	3.727	52.449		3.255	475
T020002	F01050100	Mechanical/ other	Wind - offshore					110	8.198		1	
T020000	F01050100	Mechanical/ other	Wind - unknown	381	379				3.584		1.026	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.464.104	1.284.276	5.969	521.248	1.023.258	4.071.578	56.590	3.649.701	186.850
T010000, 0100	F01040100	Heat	Solar	293	220	64	94	712	837			28
T050302	F01040200	Heat	Geothermal, condensation turbine						12.000			
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	139.288	59.110	2.698	15.711		11.998			2.205
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	57	49							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor					25.139	25.139			
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	160.472	93.419	5.222	76.261	4.279	9.645	15.449		9.234
				1.765.576	1.438.040	14.314	614.504	1.057.225	4.195.428	72.039	3.653.983	198.792

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	990	804		794	831	7.608		5.815	330
T020002	F01050100	Mechanical/ other	Wind - offshore						53.381		6.008	
T020000	F01050100	Mechanical/ other	Wind - unknown	496	494						53	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.428.752	1.005.161		3.017.907	1.172.560	3.166.223	575.386	1.978.002	160.069
T010000, 0100	F01040100	Heat	Solar	294	177			57	2			30
T050302	F01040200	Heat	Geothermal, condensation turbine					115.095	114.288		100.000	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	156.870	74.572		40.167	239	63.046	53.271	239	1.368
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste					28.622	28.622			
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	64	58		17		17			
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor					17.914	17.914			
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	161.717	92.847		13.955	17.523	23.711	13.955		7.997
				1.749.183	1.174.113	0	3.072.840	1.352.841	3.474.812	642.612	2.090.117	169.794

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			Production			Transaction							
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire		
T020001	F01050100	Mechanical/ other	Wind - onshore	637	601		2.283	3.184	1.101			1.753	800
T020002	F01050100	Mechanical/ other	Wind - offshore						6.712				
T020000	F01050100	Mechanical/ other	Wind - unknown	462	455			116	53				
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	1.269.436	820.013		216.391	926.597	2.661.264	117.902		2.853.199	85.404
T010000, 0100	F01040100	Heat	Solar	295	172		437	428	21				
T050302	F01040200	Heat	Geothermal, condensation turbine										
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	165.097	54.629		68.216		14.993	30.000		36.471	326
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste										
T050000	F01010201	Biomass	Solid - industrial & commercial waste										
T050000	F01030100	Biomass	Gas - landfill										
T050000	F01030200	Biomass	Gas - sewage	62	57								
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas										
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)										
T050000	F01020200	Biomass	Liquid - black liquor										
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	156.382	29.309		102.554	56.227	42.802	87.626			442
				1.592.371	905.236	0	389.881	986.552	2.726.946	235.528		2.891.423	86.972

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	803	590			12.025	3.553		33.367	362
T020002	F01050100	Mechanical/ other	Wind - offshore						13.398			
T020000	F01050100	Mechanical/ other	Wind - unknown	464	461			116				
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	952.846	630.485		1.249.523	6.807.560	2.404.776	86.959	6.930.430	92.936
T010000, 0100	F01040100	Heat	Solar	225	146			678	38		250	3
T050302	F01040200	Heat	Geothermal, condensation turbine								112.350	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	152.915	46.858		101.908	22.697	11.422	24.026		2.236
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	52	45							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	145.995	27.103		113.070	86.871	47.210	20.000		5.229
				1.253.300	705.688	0	1.464.501	6.929.947	2.480.397	130.985	7.076.397	100.766

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			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	1.242	727		3.451	8.940	10.006		42.460	285
T020002	F01050100	Mechanical/ other	Wind - offshore						545			1
T020000	F01050100	Mechanical/ other	Wind - unknown	517	516						7.313	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	723.949	481.718		440.385	2.217.009	2.067.024	236.000	4.233.596	127.129
T010000, 0100	F01040100	Heat	Solar	115	56		40		40	33.037	100.035	3
T050302	F01040200	Heat	Geothermal, condensation turbine						55.000			
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	153.916	37.768		58.488	60.527	63.820	21.116		1.214
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	67	59							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	163.574	20.667		163.785	33.536	20.182	27.996		6.059
				1.043.380	541.511	0	666.149	2.320.012	2.216.617	318.149	4.383.404	134.691

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explanation in the German table

Techcode according to EECS Rules, Fact Sheet 5	Fuelcode according to EECS Rules, Fact Sheet 5	Energy	Nov									
			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	2.023	1.242		118	1.151	78.768	300	199.897	315
T020002	F01050100	Mechanical/ other	Wind - offshore					4.985	1	3.340	3.341	
T020000	F01050100	Mechanical/ other	Wind - unknown	627	625		8	143	143		143	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	851.085	466.981		1.269.985	3.201.946	1.404.835	312.650	9.051.562	87.015
T010000, 0100	F01040100	Heat	Solar	75	21				1.486		2.154	1
T050302	F01040200	Heat	Geothermal, condensation turbine					338.220	24.000		395.535	
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	136.463	32.616		97.022	51.101				762
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	44	38							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas						34		34	
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)					20.000	20.000		20.000	
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	154.453	18.630		84.411	49.546		45.691		4.383
				1.144.770	520.153	0	1.451.544	3.667.092	1.529.267	361.981	9.672.666	92.476

## Statistics of the Register of Guarantees of Origin, Germany - 2016

status: 30.09.2017; please take notice of the  
explanation in the German table

Techcode according to EECS Rules, Fact Sheet 5	Fuelcode according to EECS Rules, Fact Sheet 5	Energy	Dec									
			Production			Transaction						
			Issue	Cancel	Ex- pire	Issue	Transfer	Cancel	Export	Import	Expire	
T020001	F01050100	Mechanical/ other	Wind - onshore	2.818	1.789		7	2.304	9.991	271	124.537	753
T020002	F01050100	Mechanical/ other	Wind - offshore						2.190		9.782	
T020000	F01050100	Mechanical/ other	Wind - unknown	775	772			102.016	124	34.156	161.396	
T030000, 0200	F01050200	Mechanical/ other	Hydro/marine	710.727	363.155		2.215.347	4.745.546	5.086.605	392.691	15.209.956	94.382
T010000, 0100	F01040100	Heat	Solar	51	11		179	1.687	428		34.519	1
T050302	F01040200	Heat	Geothermal, condensation turbine						338.220			
T050000	F0101-0000, 0400	Biomass	Solid - renewable fuels(inc.For&Ag,bp&w)	141.167	22.966		148.314	142.792	108.303	20.000	20.000	5.478
T050000, 0200, 0202	F01010302	Biomass	Solid - forestry by- products & waste									
T050000	F01010201	Biomass	Solid - industrial & commercial waste									
T050000	F01030100	Biomass	Gas - landfill									
T050000	F01030200	Biomass	Gas - sewage	61	52							
T050000	F0103-0000, 0300 to 0305, 0400, 0501	Biomass	Gas - other biogas									
T050000	F01020000	Biomass	Liquid - renewable fuels (inc. Mun.waste)									
T050000	F01020200	Biomass	Liquid - black liquor									
T050000 / T070000	F01000000	Unspecified	Unspecified renewable energy	165.398	17.330		133.344	88.446	51.177	95.900	72.000	11.716
				1.020.997	406.075	0	2.497.191	5.082.791	5.597.038	543.018	15.632.190	112.330

source: Umweltbundesamt status: 30.09.2017