

Table 1 – COGENERATION – MAIN PERFORMANCE INDICATORS (1/2)

(2011 production year – all units)

All units																								
Cogeneration technology	Number of units		Production capacity		Production						Primary energy							Average output			Primary energy savings			
	Total	of which DHN	Electric power		Electric power				Heat		Natural Gas	Oil, LPG	Coal/coke	Renewable sources	Waste	Other	Total	Electrical	Thermal	Overall	Gross power and useful heat			
			Gross	of which DHN	Certified high-efficiency	High-efficiency	Gross	of which DHN	Total useful heat	of which DHN	Gross	Gross	Gross	Gross	Gross	Gross	Gross	Gross production	Useful heat		Separate production	Cogeneration	Saving	Saving
			MW	MW	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%	%	%	TOE	TOE	TOE	%
CC	93	20	14 832	3 963	11 712	15 926	72 702	15 393	28 248	4 033	124 639	16 724	269	0	0	19 296	160 928	45.2%	17.6%	62.7%	14 368 179	13 837 323	530 856	3.7%
GT	75	5	500	30	735	2 462	2 624	80	4 652	119	7 130	364	0	0	0	1 902	9 396	27.9%	49.5%	77.4%	925 492	807 917	117 575	12.7%
SBT	8	2	198	141	203	301	301	218	1 186	566	859	152	520	0	0	180	1 711	17.6%	69.3%	86.9%	173 753	147 085	26 668	15.3%
SCET	6	2	271	177	550	635	1 627	1 058	3 090	880	902	1 139	0	0	3 699	1 382	7 122	22.8%	43.4%	66.2%	715 165	612 401	102 764	14.4%
ICE	576	203	1 198	374	1 886	3 425	4 400	1 328	3 248	1 481	10 539	7	0	470	0	3	11 020	39.9%	29.5%	69.4%	1 072 094	947 529	124 565	11.6%
Other	20	3	85	32	122	127	251	37	374	71	444	64	0	0	0	410	917	27.3%	40.8%	68.1%	91 102	78 890	12 212	13.4%
Total	778	235	17 083	4 718	15 208	22 876	81 906	18 113	40 798	7 150	144 514	18 449	789	470	3 699	23 172	191 094	42.9%	21.3%	64.2%	17 345 785	16 431 145	914 640	5.3%

Table 2 – COGENERATION – MAIN PERFORMANCE INDICATORS

(2011 production year - classification of units according to status)

Units with full HEC status

output ≥ 75% (or ≥ 80% for units with steam-condensing extraction turbines)

Cogeneration technology	Number of units		Production capacity		Production						Primary energy							Average output			Primary energy savings			
	Total	of which DHN	Electric power		Electric power			Heat			Natural Gas	Oil, LPG	Coal/coke	Renewable sources	Waste	Other	Total	Electrical	Thermal	Overall	Gross power and useful heat			
			Gross	of which DHN	Certified high-efficiency	High-efficiency	Gross	of which DHN	Total useful heat	of which DHN	Gross	Gross	Gross	Gross	Gross	Gross	Gross	Gross production	Useful heat		Separate production	Cogeneration	Saving	Saving
			MW	MW	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%	%	%	TOE	TOE	TOE	%
CC	6	0	193	0	1 098	1 098	1 098	0	2 896	0	2 832	127	269	0	0	1 365	4 593	23.9%	63.0%	87.0%	484 816	394 944	89 871	18.5%
GT	16	3	132	20	585	585	585	77	941	105	1 876	0	0	0	0	0	1 876	31.2%	50.2%	81.4%	191 286	161 339	29 947	15.7%
SBT	1	1	121	121	203	203	203	203	522	522	329	0	520	0	0	0	849	23.9%	61.5%	85.4%	90 184	72 995	17 189	19.1%
SCET	1	0	75	0	219	219	219	0	862	0	146	587	0	0	0	588	1 322	16.6%	65.2%	81.8%	126 987	113 641	13 346	10.5%
ICE	225	95	354	144	744	744	744	492	780	519	1 887	0	0	0	0	0	1 887	39.4%	41.3%	80.8%	203 735	162 265	41 470	20.4%
Other	5	1	59	32	87	87	87	37	331	70	417	64	0	0	0	0	481	18.0%	68.8%	86.8%	46 922	41 346	5 576	11.9%
Total	254	100	933	317	2 937	2 937	2 937	808	6 331	1 215	7 488	778	789	0	0	1 953	11 008	26.7%	57.5%	84.2%	1 143 930	946 530	197 400	17.3%

Units with partial HEC status

output < 75% (or < 80% for units with steam-condensing extraction turbines)

Cogeneration technology	Number of units		Production capacity		Production						Primary energy							Average output			Primary energy savings			
	Total	of which DHN	Electric power		Electric power			Heat			Natural Gas	Oil, LPG	Coal/coke	Renewable sources	Waste	Other	Total	Electrical	Thermal	Overall	Gross power and useful heat			
			Gross	of which DHN	Certified high-efficiency	High-efficiency	Gross	of which DHN	Total useful heat	of which DHN	Gross	Gross	Gross	Gross	Gross	Gross	Gross	Gross production	Useful heat		Separate production	Cogeneration	Saving	Saving
					GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	GW h	%	%	%	TOE	TOE	TOE	%
CC	51	15	7 309	2 523	10 614	10 614	33 770	10 061	10 152	2 553	66 306	0	0	0	0	6 390	72 696	46.5%	14.0%	60.4%	6 660 395	6 250 723	409 672	6.2%
GT	6	0	48	0	149	149	176	0	213	0	563	0	0	0	0	0	563	31.3%	37.8%	69.0%	51 066	48 396	2 671	5.2%
SBT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a	n/a	n/a	0	0	0	0.0%
SCET	1	1	118	118	331	331	664	664	735	735	36	0	0	0	2 229	0	2 264	29.3%	32.5%	61.8%	321 399	194 695	126 704	39.4%
ICE	124	44	308	100	1 141	1 141	1 579	458	973	320	3 885	1	0	2	0	3	3 891	40.6%	25.0%	65.6%	363 395	334 581	28 814	7.9%
Other	5	1	25	0	35	35	159	0	36	0	11	0	0	0	0	410	420	37.8%	8.5%	46.3%	42 599	36 143	6 456	15.2%
Total	187	61	7 808	2 741	12 271	12 271	36 348	11 183	12 109	3 608	70 800	1	0	2	2 229	6 802	79 835	45.5%	15.2%	60.7%	7 438 854	6 864 538	574 316	7.7%

Units without HEC status

Cogeneration technology	Number of units		Production capacity		Production						Primary energy							Average output			Primary energy savings			
	Total	of which DHN	Electric power		Electric power			Heat			Natural Gas	Oil, LPG	Coal/ Coke	Renewable sources	Waste	Other	Total	Electrical	Thermal	Overall	Gross power and useful heat			
			Gross	of which DHN	Certified high-efficiency	High-efficiency	Gross	of which DHN	Total useful heat	of which DHN	Gross	Gross	Gross	Gross	Gross	Gross	Gross	Gross production	Useful heat		Separate production	Cogeneration	Saving	Saving
			MW	MW	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%	%	%	TOE	TOE	TOE	%
CC	36	5	7 329	1 440	0	4 213	37 834	5 331	15 200	1 481	55 501	16 597	0	0	0	11 541	83 639	45.2%	18.2%	63.4%	7 222 968	7 191 656	31 312	0.4%
GT	53	2	319	10	0	1 727	1 863	3	3 498	14	4 691	364	0	0	0	1 902	6 957	26.8%	50.3%	77.1%	683 139	598 182	84 957	12.4%
SBT	7	1	77	20	0	99	99	15	664	44	530	152	0	0	0	180	862	11.4%	77.0%	88.5%	83 569	74 090	9 479	11.3%
SCET	4	1	79	60	0	85	744	394	1 493	145	720	551	0	0	1 471	794	3 536	21.0%	42.2%	63.3%	266 779	304 065	-37 286	-14.0%
ICE	227	64	536	131	0	1 539	2 077	377	1 495	642	4 767	6	0	468	0	0	5 241	39.6%	28.5%	68.2%	504 964	450 683	54 282	10.7%
Other	10	1	1	0	0	5	5	0	8	1	16	0	0	0	0	0	16	29.3%	47.6%	76.9%	1 580	1 401	180	11.4%
Total	337	74	8 342	1 660	0	7 668	42 621	6 121	22 358	2 327	66 226	17 670	0	468	1 471	14 416	100 251	42.5%	22.3%	64.8%	8 763 001	8 620 077	142 924	1.6%