

# Combined Heat and Power (CHP) in the EU, Turkey, Norway and Iceland – 2006 data

	CHP electricity generation, TWh	Main activity producers	Auto-producers	Share of CHP in total electricity generation	CHP Electrical capacity, GW	CHP Heat production, PJ	Main activity producers	Auto-producers
European Union (EU-27)	366.3	:	:	10.9%	134.2	3107.2	:	:
Euro area	236.7	:	:	10.2%	92.8	1996.5	:	:
Belgium	7.44	67.3%	32.7%	8.7%	1.64	74.5	32.0%	68.0%
Bulgaria	2.77	81.6%	18.4%	6.0%	1.14	48.0	69.2%	30.8%
Czech Republic <sup>b</sup>	12.71	70.3%	29.7%	15.1%	4.87	143.2	60.5%	39.5%
Denmark	18.63	:	:	40.7%	5.70	117.2	:	:
Germany <sup>a</sup>	79.72	67.7%	32.3%	12.5%	56.33	646.5	56.5%	43.5%
Estonia <sup>c</sup>	1.04	89.3%	10.7%	10.7%	1.60	11.6	78.3%	21.7%
Ireland <sup>c</sup>	1.54	0.0%	100.0%	5.6%	0.26	10.0	0.0%	100.0%
Greece	1.05	20.0%	80.0%	1.7%	0.25	8.3	28.3%	71.7%
Spain	21.94	0.0%	100.0%	7.2%	3.87	188.8	0.0%	100.0%
France	18.42	45.3%	54.7%	3.2%	5.78	187.4	30.2%	69.8%
Italy	30.89	59.1%	40.9%	9.8%	6.24	208.3	39.6%	60.4%
Cyprus	0.01	0.0%	100.0%	0.3%	0.01	0.1	0.0%	100.0%
Latvia <sup>b</sup>	2.08	97.5%	2.5%	42.6%	0.59	12.1	99.6%	0.4%
Lithuania	1.78	90.6%	9.4%	14.3%	1.04	16.9	93.4%	6.6%
Luxembourg <sup>c</sup>	0.47	90.2%	9.8%	10.9%	0.11	2.7	:	:
Hungary	8.02	88.9%	11.1%	22.4%	1.98	46.9	80.8%	19.2%
Malta	0.00	-	-	0.0%	0.00	0.0	-	-
Netherlands	29.42	:	:	29.9%	7.69	219.9	:	:
Austria	10.24	47.8%	52.2%	16.1%	3.27	98.9	32.1%	67.9%
Poland	25.96	77.3%	22.7%	16.0%	8.47	264.6	60.5%	39.5%
Portugal	5.70	69.2%	30.8%	11.6%	1.10	63.3	51.7%	48.3%
Romania	11.30	91.8%	8.2%	18.0%	4.12	99.6	96.1%	3.9%
Slovenia	1.12	74.2%	25.8%	7.4%	0.35	13.5	50.9%	49.1%
Slovakia	8.66	70.4%	29.6%	27.6%	2.76	43.6	41.4%	58.6%
Finland	28.75	67.4%	32.6%	34.9%	5.91	274.5	49.8%	50.2%
Sweden	11.43	62.1%	37.9%	8.0%	3.74	141.5	49.9%	50.1%
United Kingdom	25.21	9.8%	90.2%	6.3%	5.45	165.5	8.0%	92.0%
Turkey <sup>a</sup>	7.71	29.2%	70.8%	4.4%	4.04	94.2	20.1%	79.9%
Norway	0.09	100.0%	0.0%	0.1%	:	3.6	100.0%	0.0%
Iceland <sup>c</sup>	1.43	100.0%	0.0%	14.4%	0.17	8.7	100.0%	0.0%

: data not available

TWh = 1000 GWh

GW = 1000 MW

Source: Eurostat

PJ = 1000 TJ

<sup>a</sup> - Only gross electrical capacity reported

<sup>b</sup> - CHP electrical capacity reported equal to gross capacity

<sup>c</sup> - CHP electrical capacity and electricity generation reported equal to gross capacity and generation

- not applicable

	Fuel input into CHP PJ	Solid fossil fuels	Oil and oil products	Natural gas	Renewables	Other fuels
European Union (EU-27)	8537.2	34.5%	6.3%	37.7%	11.6%	9.9%
Euro area	4883.6	15.2%	7.8%	51.6%	15.0%	10.3%
Belgium	146.2	1.9%	3.1%	60.6%	8.9%	25.6%
Bulgaria	106.2	57.5%	3.6%	33.0%	0.0%	5.9%
Czech	379.1	82.4%	2.5%	4.6%	4.6%	5.9%
Denmark	371.1	55.1%	4.1%	24.6%	13.4%	2.7%
Germany	1354.0	21.0%	4.6%	45.6%	15.0%	13.8%
Estonia	20.4	45.6%	0.4%	46.7%	7.3%	0.0%
Ireland	18.2	4.8%	0.0%	91.6%	0.8%	2.7%
Greece	90.8	85.7%	1.9%	3.0%	0.3%	9.1%
Spain	390.9	1.6%	7.2%	77.0%	9.2%	5.0%
France	367.2	4.9%	3.0%	57.7%	21.0%	13.4%
Italy	945.7	0.7%	20.1%	66.7%	5.1%	7.5%
Cyprus	0.3	0.0%	100.0%	0.0%	0.0%	0.0%
Latvia	23.7	0.0%	2.1%	94.4%	3.5%	0.0%
Lithuania	38.9	0.1%	14.3%	83.6%	2.1%	0.0%
Luxembourg	5.4	0.0%	0.0%	93.1%	6.9%	0.0%
Hungary	100.9	6.6%	1.5%	79.9%	1.8%	10.3%
Malta	0.0	-	-	-	-	-
Netherlands	608.6	15.0%	2.2%	67.1%	1.6%	14.1%
Austria	245.8	13.9%	10.0%	38.9%	26.0%	11.2%
Poland	1524.7	91.2%	3.0%	2.4%	2.0%	1.5%
Portugal	104.7	0.0%	34.8%	22.8%	37.8%	4.7%
Romania	237.5	44.9%	9.0%	45.5%	0.1%	0.6%
Slovenia	63.8	85.2%	1.7%	8.4%	4.3%	0.2%
Slovakia	304.0	27.7%	4.7%	9.4%	0.8%	57.4%
Finland	542.1	31.0%	1.7%	21.1%	43.9%	2.2%
Sweden	231.3	9.5%	11.7%	4.0%	62.5%	12.3%
United Kingdom	315.8	2.1%	3.6%	72.0%	2.3%	20.0%
Turkey	262.8	8.4%	15.3%	66.3%	0.5%	9.5%
Norway	4.6	15.0%	0.0%	0.3%	42.3%	42.3%
Iceland	43.5	0.0%	0.0%	0.0%	100.0%	0.0%

PJ = 1000 TJ

## Methodology

1. In Malta there is no CHP generation.
2. The fuel input is based on Net Calorific Values.
3. Category "Other fuels" includes amongst others industrial wastes and coal gases.
4. The data collection is based on Directive 2004/8/EC. According to the implementation guidelines of this Directive the fuel input refers to fuel used for CHP heat and electricity generation, i.e. the fuel for non-CHP electricity and heat is excluded. However, these implementation guidelines have not been adopted yet and the reporting practices may differ between Member States.
5. The Main activity producers generate electricity and heat for sale as their primary activity. Autoproducers generate electricity and heat wholly or partially for their own use as an activity which supports their primary activity.
6. The share of CHP electricity generation is calculated as the CHP electricity generation divided by the total gross electricity generation, including the generation in pumped storage power stations.

## Further information

### European Statistical Data Support:

Contact details for this support network can be found on our Internet site:

<http://ec.europa.eu/eurostat/>

[Data : Eurostat Website/Structural indicators/Environment/Combined Heat and power generation](#)

Manuscript completed on: 13.06.2008

Data extracted on: 29.05.2008

ISSN 1977-0340

Catalogue number: KS-QA-08-022-EN-N

© European Communities, 2008