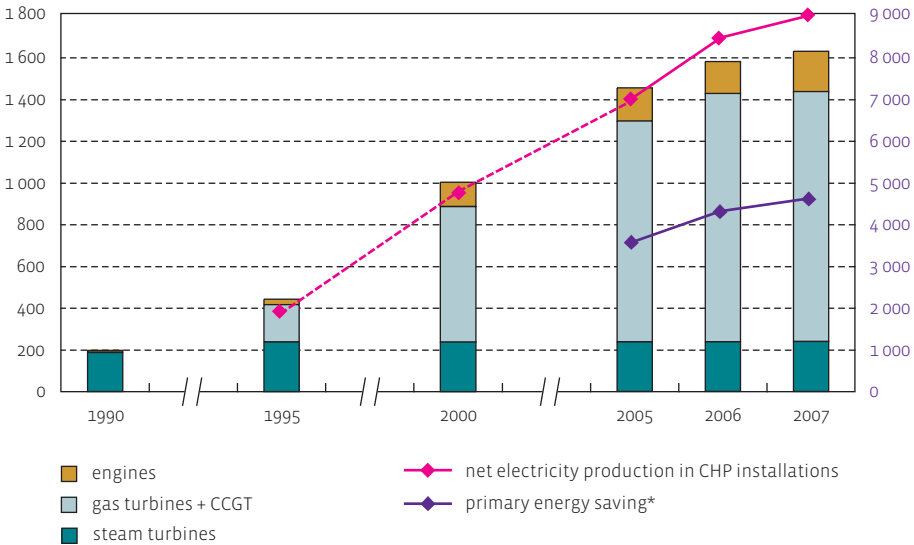


# Production of electricity and heat via cogeneration (combined heat and power, CHP)

total installed electrical CHP capacity (MW<sub>e</sub>)

electricity production/energy savings in CHPs (GWh)



\* by all CHP installations combined, calculated with Flemish reference outputs. Figures only available from 2004.

Source: VITO CHP inventory (2008)

## Certificate regulation and increasing energy prices support use of CHP

In cogeneration (combined heat and power, CHP) useful heat and power are simultaneously generated from primary energy sources (e.g. natural gas or biomass). The power is usually used to generate electricity. By the end of 2007, a total capacity of 1 634 MW<sub>e</sub> of CHP installations was operative in Flanders. 861 MW<sub>e</sub> of these were good quality CHP installations which generated a major primary energy saving compared to the reference installations for separate electricity and heat production.

All CHP installations together produced 8 983 GWh of electricity in 2007, which corresponds to 14.7 % of the gross electricity consumption. By 2010 Flanders strives to reach a share from CHPs of 19 % in the electricity supplies.

On 31.03.08 electricity suppliers had to submit combined heat and power certificates (CHPCs) corresponding to a primary energy saving of 1 394 GWh. Only good quality CHP installations receive CHPCs degressively. Based on the power production in the period between 01.01.07- 31.3.2008 and the certificates accumulated from the previous years, theoretically 89 % of the CHPCs were available in the market to achieve the quota. Certificates were only submitted for 1 041 GWh of primary energy savings (75 % of the quota). Electricity suppliers pay a fine of 45 euro for each missing CHPC.

	1990	2000	2006	2007
total CHP capacity (MW <sub>e</sub> )	194	1 003	1 582	1 634
net power production in CHPs (GWh)	..	4 789	8 452	8 983
primary energy saving* in CHPs (GWh)	..	..	4 271	4 576