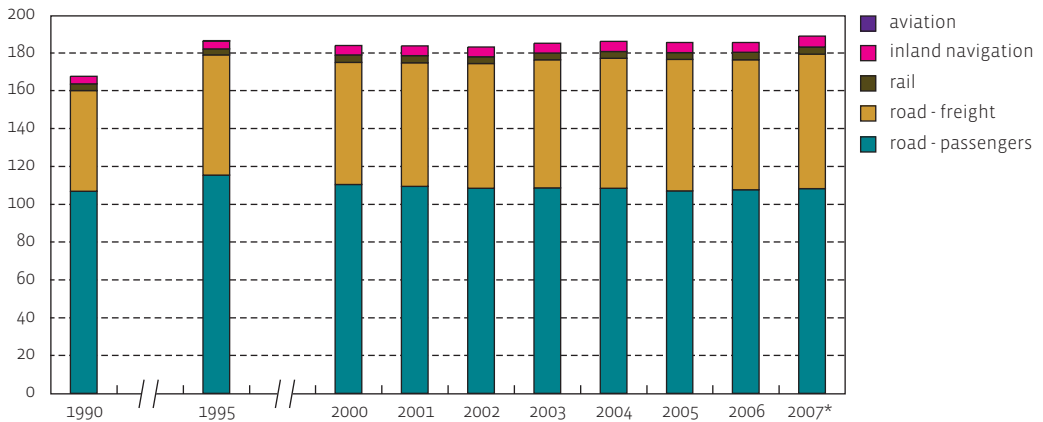


energy consumption (PJ)



* provisional figures; for aviation only the fuel consumption of small aircrafts and not of international flights; inland navigation including shipping between North Sea ports

Source: Flanders Energy Balance VITO

Energy consumption of transport not decreasing in spite of efficiency improvement

Due to the use of more detailed activity data and adapted fuel consumption functions in the calculation methods, the energy consumption of the transport sector is from 2000 onwards on average 20 PJ lower than the series in MIRA-T 2007.

In 2007, the transport sector was responsible for 11.7 % (188.8 PJ) of the gross domestic energy consumption in Flanders. Road transport accounted for 95 % of the transport sector. Compared to 1990, the total energy consumption of the sector increased by 12.6 %. The energy consumption of passenger transport by road experienced a certain stabilisation from 2000 onwards. This is the result of a smaller increase in activity combined with an increase in the energy efficiency of vehicles. For freight transport by road, which also uses more energy efficient technologies, there was a general increase in the energy consumption (+33.4 % compared to 1990) due to the still strongly increasing activity.

The energy consumption by rail has increased by 6.4 % compared to 1990, this is less than the increase in activity. The further electrification of the railway is responsible for that as electric motors are much more efficient than diesel engines. In 2007, 74 % of the energy consumption for rail was provided by electricity, in 1990 that was still only 53 %.

Inland navigation saw an increase in energy consumption of 40.3 % in the period 1990-2007. Economic concerns ensured that the energy efficiency of the ships was also forced upwards.

energy consumption (PJ)	1990	2000	2006	2007*
aviation	0.1	0.1	0.0	0.0
inland navigation	4.0	4.9	5.2	5.6
rail	3.5	4.0	3.8	3.8
road - freight	53.3	64.5	68.8	71.1
road - passengers	106.8	110.5	107.7	108.3
total transport	167.7	184.0	185.5	188.8