

**GLOBAL WARMING CONTRIBUTION [t CO<sub>2</sub> eq.]**

CO <sub>2</sub> emissions related to energy use	2003	2004	2005	2006	2007
<b>From the energy purchased</b>					
Natural gas (dry)	485'461	454'921	456'317	408'276	393'259
Diesel+light oil	13'300	9'795	15'393	17'378	5'464
Heavy oil	21'422	21'710	29'281	20'466	20'791
Electricity	366'461	355'736	370'753	319'571	342'612
Steam	169'970	177'110	192'939	163'156	176'824
Purchased wastes					9'702
Others	2'499	1'186	8'348	8'133	5'766
<i>Total CO<sub>2</sub> from energy purchased</i>	<i>1'059'114</i>	<i>1'020'458</i>	<i>1'073'032</i>	<i>936'980</i>	<i>954'418</i>
<b>CO<sub>2</sub> emissions due to energy sold</b>					
Steam	-63'868	-57'625	-59'259	-57'624	-70'968
<b>Energy derived global warming contribution</b>	<b>995'246</b>	<b>962'833</b>	<b>1'013'773</b>	<b>879'356</b>	<b>883'450</b>

Other Global Warming Gas Emissions					
Ozone Depleting Substances				17'780	12'384

<b>Total Global Warming contribution [t CO<sub>2</sub>]</b>	<b>995'246</b>	<b>962'833</b>	<b>1'013'773</b>	<b>897'136</b>	<b>895'834</b>
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Net Value Added [million CHF]	2'341	2'587	2'412	2'154	2'158
<b>Eco-efficiency Indicator "Global warming contribution /Net Value Added" [t CO<sub>2</sub> eq./million CHF]</b>	<b>425.1</b>	<b>372.2</b>	<b>420.3</b>	<b>416.5</b>	<b>415.1</b>

Net Value Added [million CHF] at 2000 exchange rates	2'921	3'273	3051.0	2668.0	2572.0
<b>Eco-efficiency Indicator "Global warming contribution /Net Value Added" [t CO<sub>2</sub> eq./million CHF] at 2000 exchange rates</b>	<b>340.7</b>	<b>294.2</b>	<b>332.3</b>	<b>336.3</b>	<b>348.3</b>

The amount of CO<sub>2</sub> linked to the use of energy was recognised as contributing to the Global Warming Effect. As the total global warming contribution of ozone depleting substances amounts to more than 1% of the total they were recognised in 2006.

The basis for the calculation of the CO<sub>2</sub> emissions is the energy requirement, so the global warming contribution includes the CO<sub>2</sub> from steam and electricity used by our sites, but produced by third parties.

CO<sub>2</sub> produced from the use of wastes produced by our own operations as an alternative fuel is not included, which is in accordance with the Kyoto Protocol.

Comparable fuels (wastes, solvents), purchased from external parties, were fully added to our total Energy consumption and also converted into primary Energy demand.

The emissions from these comparable fuels, especially CO<sub>2</sub>, were also added to our total emissions. At one site (Suffolk) we are using landfill gas (methane) as energy source. The caloric value is fully added to our Energy demand including conversion to primary Energy, but the CO<sub>2</sub> emissions from that are not counted into our emissions.

For the year 2006 emissions from former TE sites are subtracted. Consequently Net Value Added 2006 does not include TE.