

Reducing Environmental Impacts in the Production Processes (1) Efforts to Prevent Global Warming

Targets for 2004

- CO₂ emissions: 93% or less of 1990 levels
- CO₂ emissions per unit of production: 82% or less of 1990 level

Results for 2004

- Non-consolidated: **78%** target achieved
- Consolidated: **87%** target achieved
- Non-consolidated: **80%** target achieved

CO₂ emissions in 1990 on a consolidated basis were estimated from the proportion of CO₂ emissions in 1990 and 2000 on a non-consolidated basis.

Targets for 2005

- Non-consolidated: 77% or less
- Consolidated: 86% or less
- Non-consolidated: 81% or less

CO₂ emissions reduced though production increased

The Hitachi Chemical Group considers global warming as a grave issue and further endeavors to reduce CO₂ emissions through energy saving in line with the effectuation of the Kyoto Protocol. Total emissions of CO₂ as energy sources in the Group amounted to 173,793 tons on a non-consolidated basis and to 423,330 tons on a consolidated basis. It means that it reached 78% of the total amount in 1990 on a non-consolidated basis. Although the target of 93% in 2010 has been hit already in 2004, we are addressing further reduction of CO₂ emissions in

2005, considering the seriousness of global warming.

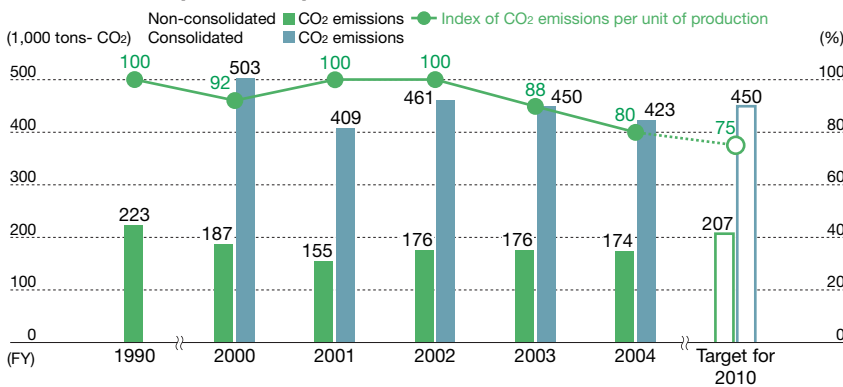
The index of CO₂ emissions per unit of production* marked 80% in 2004, which is a major leap forward toward the target of 75% for 2010. Although net sales in 2004 showed an increase, the Group was successful in reducing both the absolute figure and emissions per unit of production. It is largely due to the introduction of high-efficiency equipment, promoting consolidation of sites, and increasing the efficiency of production's processes with lower CO₂ emissions per unit.

* CO₂ emissions per unit of production = CO₂ emissions/net sales
(Indices are calculated using the figures for 1990 as representing 100)

Reduction of other greenhouse gases

The Hitachi Chemical Group succeeded in establishing a new production method that does not use hydrofluorocarbons (HFC) and has not used it since 2003. Although the Group still uses sulfur hexafluoride (SF₆) for testing purposes only, the emissions in 2004 amounted to 0.05 tons by utilization of high-efficiency collection equipment.

Amount of CO₂ emissions and index of CO₂ emissions per unit of production



Breakdown of total energy consumed

