

3.1



GROUP-WIDE ENVIRONMENTAL PROTECTION

3.1 > [Our management approach](#)

3.2 > [Energy consumption and emissions](#)

3.3 > [Efficient transport logistics](#)

3.4 > [Materials use and waste management](#)

3.5 > [Water](#)

3.6 > [VOC emissions and biodiversity](#)

the year 2020 – both in terms of increasing overall efficiency as well as the other objectives.

We have been able to achieve the following reductions in the past seven years:

Energy consumption	-31.0%
Water consumption	-33.1%
Process wastewater	-42.7%
Non-recyclable waste	-69.7%
Solvent emissions	-36.7%
CO ₂ emissions	-35.2%

In 2013, the utilisation of resources and the emissions per vehicle produced were reduced by an average of 6.6% compared with the previous year, yielding savings of €6.8 million.

Measures implemented due to the continuous improvement process contributed towards improved efficiency in the use of both energy and water. At the Spartanburg plant (USA) in particular, water consumption was lowered by the use of condensed water gained from the cooling system. At the same time, good capacity utilisation at our plants also made a significant contribution to the efficient use of water and energy. A strong contributing factor in the reduction of non-recyclable production waste was a decrease by nearly one-quarter (23.3%) in waste at the Landshut plant, primarily through a higher recovery rate for production waste (e.g. foundry waste). The impressive reduction in solvent emissions per vehicle produced can be mainly attributed to the retrofitting of the paint shop at the Dadong plant in China

(BMW Brilliance joint venture) to include an exhaust air filtering system.

F.09 Resource consumption and emissions per vehicle produced compared with previous year

	2012 ¹	2013	Compared p.a.
Energy consumed in MWh	2.41	2.36	-2.1%
Water consumption in m ³	2.22	2.18	-1.8%
Process wastewater in m ³	0.51	0.47	-7.8%
Waste for disposal in kg	6.47	5.73	-11.4%
Volatile organic compounds (VOC) in kg	1.78	1.59	-10.7%
CO ₂ emissions in t	0.72	0.68	-5.6%

¹ Due to a change in the calculation method, these figures cannot be compared with the 2012 figures.

INTEGRATION INTO THE ORGANISATION

Environmental protection is part of our sustainability management. The steering committee of our international environmental protection network controls environmental management under the direction of the Group Representative for Environmental Protection. Every machine, every building and every area at each production site is assigned to an operator. That operator is responsible for the products, processes, machines and technical systems in his or her allocated area as well as their environmental impact.



Previous chapter Next chapter Contents page Home