

# 3 GROUP-WIDE ENVIRONMENTAL PROTECTION

## PROGRESS IN 2013

### FURTHER REDUCTION IN RESOURCE UTILISATION

- In 2013, we reduced resource utilisation and emissions per vehicle produced by an average of 6.6% compared with the previous year. This is equivalent to cost savings of €6.8 million.

### SIGNIFICANT INCREASE IN SHARE OF RENEWABLE ENERGY

- We increased further the share of renewable energy as a percentage of total power consumed across locations by the BMW Group from 36% to 48% in 2013.

### WIND POWER PLANT STARTED

- For the production of the BMW i3, four windpower plants with a total installed capacity of 10 MW were commissioned on the premises of the BMW plant in Leipzig. They generate around 26,000,000 kWh of electricity annually.

## KPIs

### ENERGY CONSUMPTION PER VEHICLE PRODUCED

— 2013

2.36 MWh

2012 | 2.41 MWh



### WASTE FOR DISPOSAL PER VEHICLE PRODUCED

— 2013

5.73 kg

2012 | 6.47 kg



### WATER CONSUMPTION PER VEHICLE PRODUCED

— 2013

2.18 m<sup>3</sup>

2012 | 2.22 m<sup>3</sup>



## 2014+ FORECAST AND OBJECTIVES

### EXPAND SHARE OF RENEWABLE ENERGY SOURCES

- We will continue to expand our use of renewable energy. In 2014, we will use biomass as an energy source to cover part of the energy requirements of our production plant in Rosslyn (South Africa).

### FURTHER INCREASE RESOURCE EFFICIENCY

- By 2020, we aim to have reduced resource consumption (energy, water, process wastewater, waste for disposal) and emissions per vehicle produced by 45% compared with 2006.

### FURTHER OPTIMISE TRANSPORT LOGISTICS

- In the area of materials supply, we are continuously working to further optimise packaging at our production plants, thus reducing transport volumes. We will further expand rail transport of new vehicles.