



Corporate Responsibility at MAN in 2017

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Responsibility in production

Climate change, pollution, and resource scarcity are relevant global challenges facing the production sector. State-of-the-art technology and our integrated management systems are helping us to reduce the environmental impact of our production activities. We use various levers to lower CO₂ emissions and help mitigate climate change.

A holistic response to challenges

In order to cut our CO₂ emissions throughout the Group, we drew up MAN's Climate Strategy in 2011, which included the binding goal of reducing absolute CO₂ emissions from our production plants by 2020.



Reducing CO₂ emissions

When it comes to reducing energy consumption and CO₂ emissions, MAN pursues a whole range of different avenues. Be it thanks to combined heat and power, LED lighting, or renewable energies – at around 129,740 tons, we were able to significantly reduce our CO₂ emissions in 2017 compared with the baseline year of 2008. We achieved this thanks to various measures taken at our sites.



Munich cogeneration plant

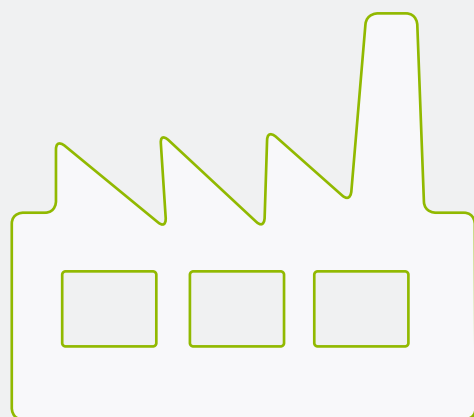
At the Munich site, the CHP plant that was completed in 2016 is contributing to the reduction of 9,600 tons of CO₂ a year. This measure alone accounts for around 40 % of the Munich site's target for reducing CO₂ emissions and allows up to 20 % of the power required by the site to be generated on site. As a result, the twin 2.5 megawatt natural gas units mark a significant milestone in MAN's Climate Strategy and the Green Production initiative.

Further measures can be found in the [2017 GRI Report \("Production" chapter\)](#).

Focus on energy consumption

In 2017, energy consumption at MAN production sites showed only a minimal year-on-year change despite increased production, remaining roughly on par with the previous year at 1.38 million megawatt-hours (MWh). In the Commercial Vehicles business area, energy consumption per vehicle produced fell from 8.8 MWh in 2016 to 8.4 MWh in 2017.

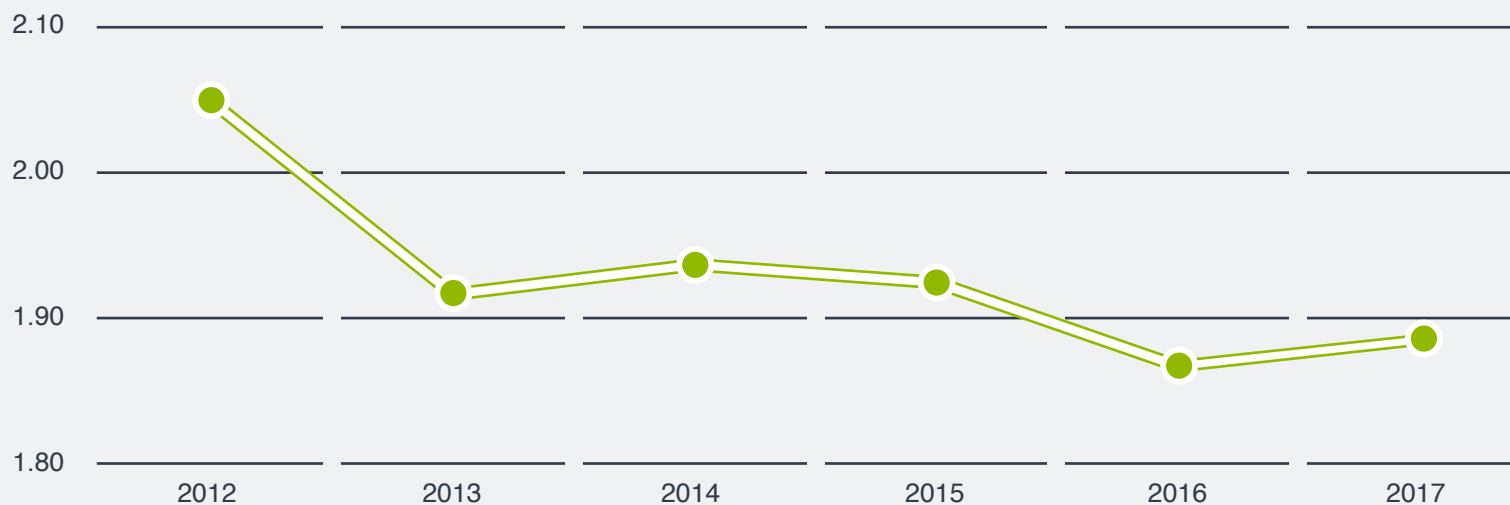
Energy consumption per vehicle produced



Making logistics more efficient

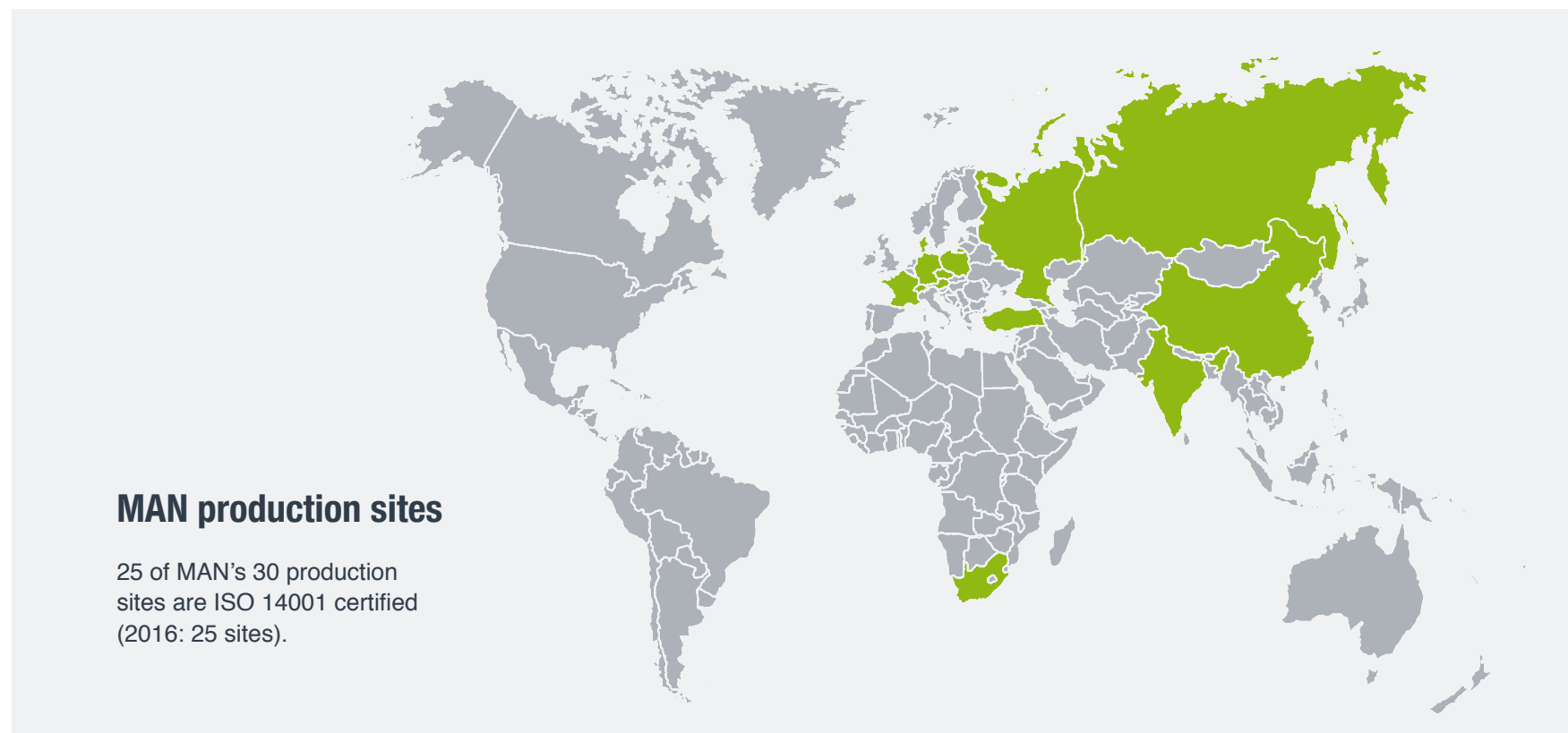
In the year under review, in the logistics sector MAN Truck & Bus caused the release of 82,189 tons of CO₂ for incoming supplies and 96,297 tons of CO₂ in delivering its products. This equates to an increase of around 10.3 % compared to 2016 due to higher production volumes and an extended production range. CO₂ emissions per vehicle produced were kept more or less stable thanks to a range of optimization measures in logistics. In 2017, these emissions totaled approximately 1.9 tons of CO₂ per vehicle.

Logistics-related CO₂ emissions per vehicle produced, in tons



Systematic management of environmental protection

All MAN production sites have taken the necessary organizational and technical measures to ensure compliance with environmental standards. Our production sites are certified to a quality standard (the majority to ISO 9001). We have set ourselves the target of certifying these sites to the ISO 14001 environmental management standard as well.



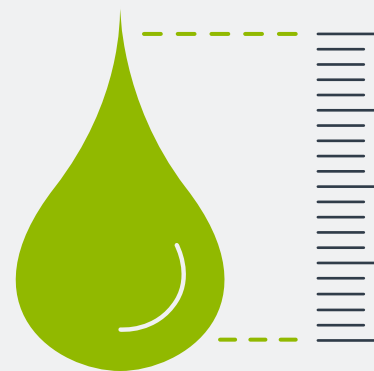
Using resources sparingly

In order to manage our consumption of resources responsibly and to keep it as low as possible, we systematically record our consumption at our production sites on an ongoing basis.



92 %

Recycling ratio of total waste in 2017
(2016: 92 %)



1,268,790 m³

Wastewater volume in 2017
(2016: 1,307,620 m³)