

Production

Modules and goals	Important Facts and Achievements 2016	Outlook and Goals 2017-2019
<p><b>Environmental management</b></p> <p>Geberit operates environmentally friendly, energy- and resource-efficient as well as economical production plants.</p>	<ul style="list-style-type: none"> <li>■ The absolute environmental impact reduced by 4.0% in 2016. The environmental impact in relation to net sales (currency-adjusted) dropped by 10.8%. This confirms that Geberit is exceeding its long-term target of 5% per year.</li> <li>■ All 17 Geberit production plants and 13 of the 16 former Sanitec plants are certified to ISO 14001. The Group certificate is valid until 2018.</li> <li>■ Continued roll-out of the integrated Geberit management system for quality, environment, occupational safety and energy (selective) at all plants.</li> <li>■ Roll-out of approval process for hazardous substances in all former Sanitec plants.</li> </ul>	<ul style="list-style-type: none"> <li>■ Improvement of eco-efficiency (environmental impact in relation to net sales, currency-adjusted) by 5% per year on average.</li> <li>■ Same improvement in relative water consumption as for eco-efficiency, i.e. 5% per year on average.</li> <li>■ Integration of all new plants into the Geberit management system and certification according to ISO 9001/14001 and OHSAS 18001 by the end of 2018.</li> <li>■ Systematic documentation and management of packaging and electronic waste from the sales companies.</li> </ul>
<p><b>CO<sub>2</sub> strategy</b></p> <p>Geberit actively contributes to the protection of the climate and consistently reduces CO<sub>2</sub> emissions.</p>	<ul style="list-style-type: none"> <li>■ In 2016, CO<sub>2</sub> emissions decreased by 3.0%. CO<sub>2</sub> emissions in relation to net sales (currency-adjusted) declined by 9.9%. This confirms that Geberit is on track with its long-term CO<sub>2</sub> strategy.</li> <li>■ The share of purchased green electricity increased by 3 GWh to 44 GWh in 2016. In total, renewable energy sources accounted for 37.7% of electricity and 6.3% of combustibles.</li> <li>■ 3.4 GWh of green electricity was produced in 2016.</li> <li>■ First certification of the plants in Wesel and Haldensleben (DE) to ISO 50001 – a total of five plants are certified to this standard.</li> </ul>	<ul style="list-style-type: none"> <li>■ Same improvement in relative CO<sub>2</sub> emissions as for eco-efficiency, i.e. 5% per year on average.</li> <li>■ Long-term CO<sub>2</sub> target compatible with the two-degree target set out in the 2015 Paris Agreement (science-based): Reduction of absolute CO<sub>2</sub> emissions (Scopes 1 and 2) by 6% between 2015 and 2021 to under 240,000 tonnes (based on organic growth).</li> <li>■ Annual purchase of an additional 3 GWh of green electricity and increase in the share of electricity and combustibles accounted for by renewable energy sources to 45% and 10% respectively by 2021.</li> <li>■ Continuation of the fuel-reduction plan: Reduce emissions of new vehicles to 100 grams of CO<sub>2</sub>/km by 2020.</li> </ul>
<p><b>Processes and Infrastructure</b></p> <p>Geberit procures and operates durable and high-quality infrastructures such as buildings, equipment and tools.</p>	<ul style="list-style-type: none"> <li>■ Demolition and safe disposal of infrastructure and systems in Wesel and Haldensleben (DE), Gaeta (IT), Limoges, Digoin and Selles-sur-Cher (FR) and Ekenäs (FI) that were obsolete and no longer required. Old, inefficient machines in Langenfeld (DE) and a total of four tunnel kilns in Haldensleben (DE) and Slavuta (UA) were scrapped or put out of operation.</li> <li>■ Number of injection moulding machines with energy-efficient drive technology increased from 137 to 150.</li> <li>■ An optimised manufacturing process for the production of urinal divisions reduces throughput times, energy consumption and occupational safety risks.</li> <li>■ Process optimisation for the manufacture of the Mepla multilayer pipe in Givisiez (CH) with a reduction in water and natural gas consumption of over 70%.</li> <li>■ Two tunnel kilns for ceramic production were previously retrofitted with state-of-the-art burner technology. In 2016, this technology was also installed in an additional three tunnel kilns, resulting in savings of around 3.6 GWh of gas.</li> </ul>	<ul style="list-style-type: none"> <li>■ Consistent renewal of machine fleet with energy-efficient drive technology. Further increase in the number of injection moulding machines with energy-efficient drive technology (hybrid, fully electrical, standby) from 150 to 155 machines.</li> <li>■ Removal of two additional tunnel kilns in Ekenäs (FI).</li> <li>■ Process optimisation for the manufacture of Mapress fittings in Langenfeld (DE) with a reduction in electricity and natural gas consumption, reduced use of lubricants and lower quantities of hazardous waste. Implementation of first fully electrically driven production line.</li> <li>■ Retrofitting of an additional six tunnel kilns for ceramic production, reducing gas consumption by a total of around 27 GWh/a and saving a total of some 6,500 tonnes of CO<sub>2</sub> emissions.</li> </ul>
<p><b>Occupational safety</b></p> <p>Geberit operates safe production plants and promotes a safety culture at a high level.</p>	<ul style="list-style-type: none"> <li>■ Global implementation of the Geberit Safety System, including integration into the Geberit management system and certification according to OHSAS 18001.</li> <li>■ The accident frequency rate (AFR) decreased by 14.0% to 9.8. The accident severity rate (ASR) increased slightly by 1.6% to 209.4.</li> <li>■ All 17 Geberit production plants and 7 of the 16 former Sanitec plants are certified to OHSAS 18001.</li> </ul>	<ul style="list-style-type: none"> <li>■ Long-term objective: AFR and ASR to be reduced by 50% between 2015 and 2025, targets AFR = 5.5 and ASR = 90.</li> <li>■ Integration of the Geberit Safety System into the Geberit management system and certification of all production plants to OHSAS 18001 by the end of 2018.</li> <li>■ Introduction of the new occupational safety standard ISO 45001 (replacing OHSAS 18001).</li> </ul>