

ENVIRONMENT

Protection of the environment and the prevention of climate change are key corporate objectives for DEUTZ. We manufacture environmentally responsible products that meet the latest emissions standards and even future emissions standards and therefore make a vital contribution to protecting the environment. Our production processes are also resource-efficient. More than ten years ago, DEUTZ decided to implement an environmental management system as a way of contributing effectively to environmental protection. The system keeps track of aspects that are highly relevant to the environment, such as keeping the air clean, avoiding and correctly disposing of waste, protecting against soil and water pollution and sustainably reducing energy consumption.

ENERGY MANAGEMENT SYSTEM

We have successfully deployed our energy management system at our Cologne sites since 2013, and it first achieved certification in November of that year. In April 2015, as part of the annual quality and environmental audit, the certification body DNV GL once again accredited the energy management system without any reservations. As planned, the ISO 50001 certificate was then extended to all German sites. This means that we also satisfy the provisions of the German Energy Services Act (EDL-G), which requires all companies categorised as being larger than an SME to conduct energy audits.

The ongoing expansion of additional meter infrastructure enables energy to be monitored and, at the same time, provides a transparent overview of all energy flows. Additional potential was identified by implementing a variety of technical and organisational measures last year. The resulting annual savings amount to 775 MWh of electricity and 1,116 MWh of heat.

However, the potential for further savings is still far from exhausted: additional efficiency measures and the final phase in the expansion of the monitoring system are already being planned for 2016. New opportunities for savings will be opened up by the closure of the Cologne-Deutz site and the associated relocation of some manufacturing operations to the new production hall at the Cologne-Porz site, which is being built in accordance with the latest requirements under the German Energy Saving Regulation (EnEV).

DEUTZ Group: Energy consumption in our plants¹⁾

MWh	2015	2014
Electricity ²⁾	77,388	87,944
Natural gas	34,243	34,768
District heating	23,857	22,596
Heating oil	3,788	3,456
Diesel fuel ³⁾	21,252	32,313

¹⁾ Plants in the DEUTZ Group, excluding joint ventures.

²⁾ Recovered energy has been subtracted.

³⁾ At 9.85 kWh/litre (mean).

ENVIRONMENTAL MANAGEMENT SYSTEM

In April 2015, external environmental auditors from the certification body DNV GL found once again that DEUTZ AG's environmental management system conforms to the international ISO 14001 standard. For the first time since the environmental management system was implemented, a main target was defined and quantified in 2015: a year-on-year reduction of CO₂ emissions by at least 2.0 per cent per engine.

A comparison of total annual emissions shows that CO₂ emissions have gone down by around 13 per cent. This trend correlates closely with the production programme, which was smaller than in 2014.

CO₂ emissions per engine (Scopes 1–3) increased to 460kg in 2015 (2014: 365kg). The targeted reduction in CO₂ emissions of 2 per cent per unit of production was not achieved because we have an underlying energy requirement for the production of our engines (Scope 2 emissions) that applies regardless of the size of a production programme.

The closure of the site in Cologne-Deutz and the construction of the new shaft centre at the Porz plant are expected to lead to a significant improvement in our carbon footprint. DEUTZ is therefore continuing to pursue its target of a 2 per cent reduction in CO₂ per engine in the coming reporting year.