

# DEUTA

## SUSTAINABILITY CONCEPT

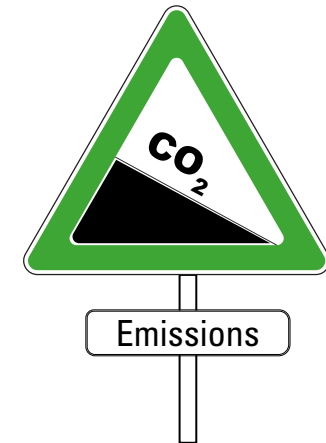
Preceding the preparation of a Sustainability Report pursuant to the EU CSRD Directive.



## Contents

---

Sustainable since 1905	5
Energy-efficient building rehabilitation	7
The new building	9
Green heat	10
Green electricity & photovoltaics	11
Sustainable to the last detail	13
Our manufacturing output - ecologically sustainable	14
What have we achieved to date?	15





## Sustainable since 1905

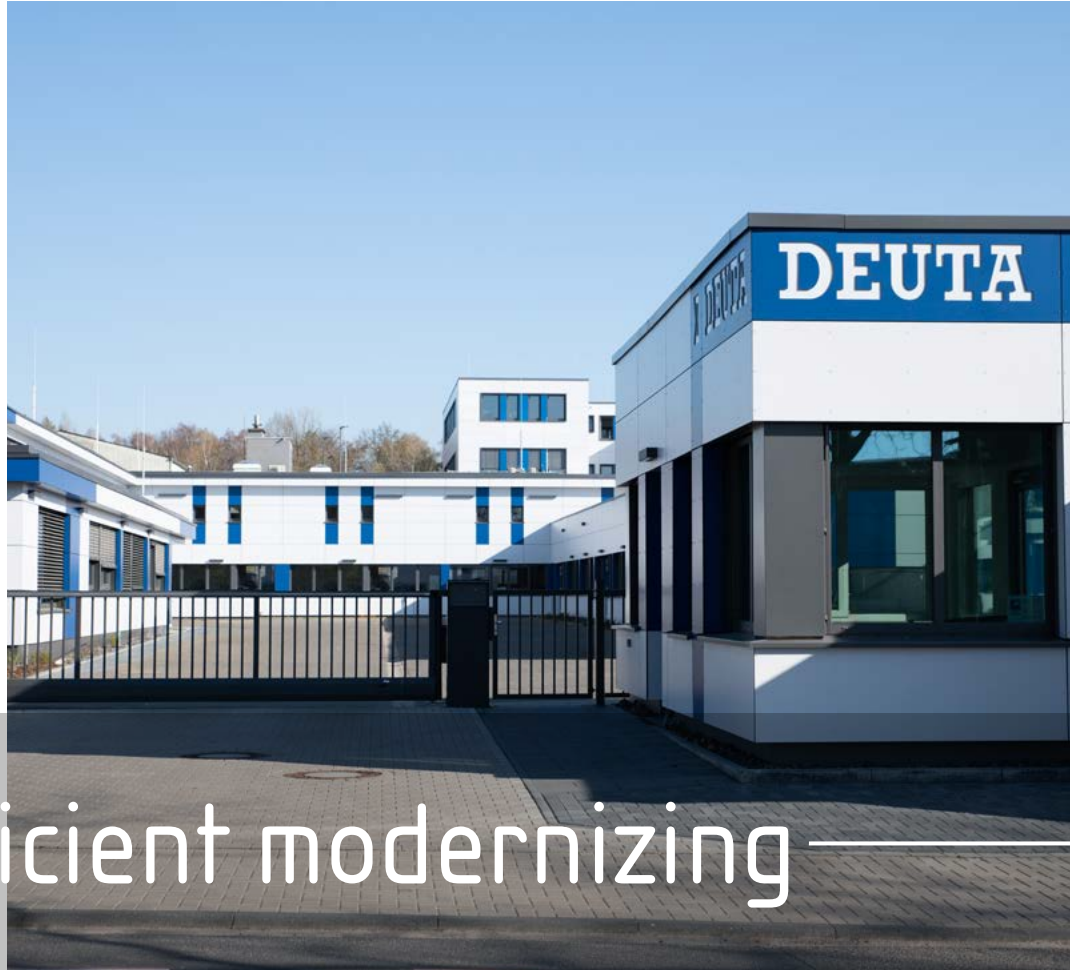
As a supplier to the rail vehicle industry, we take a long-term and future-orientated approach to everything we do. Our product developments are prepared with foresight to ensure decades of use. The products have a long service life and can usually be repaired if necessary. Moreover, in the event of certain components being discontinued, we endeavour to keep the device alive using replacements on a "form-fit-function" basis, without having to replace the product altogether. In line with our proactive obsolescence management strategy, we stockpile components to support our customers' long-term delivery commitments.

Sustainability is also a common thread that runs through our company history. DEUTA has been guided by the founding Rensch family since 1905. The company focuses on long-term corporate success, successful climate protection while meeting climate targets, and a self-image based on social responsibility and future-orientated action.

**Dr. Rudolf Ganz**  
Managing Director - Technical

**Thomas Blau**  
Managing Director - Commercial





Energy-efficient modernizing

## Energy-efficient building rehabilitation

Initially established in Berlin, the company's headquarters were relocated to Bergisch Gladbach in 1960. This is where all of the company's divisions are bundled – from software and hardware development through production, PCB assembly and the commercial departments.

Over the decades, our building has been repeatedly adapted to accommodate the company's changing requirements. However, the core fabric of the building has always been retained.

The most recent renovation of the main building took place between 2019 and 2022. Previously adorned with blue tiles, the building was transformed into a modern, energy-optimised complex with new windows and external shading.

2019-2022

Reduction in gas consumption:  
from approx. 1.3 million kWh/year  
to around 0.4 million kWh/year  
of 70%



## The new building

### The new building

Our continuous growth over recent years has also seen us considerably strengthen our development activities. Moreover, innovation needs space for realising ideas and visions – and this is something we are driving forward together with our customers.

Our company's traditional building in Bergisch Gladbach has therefore been supplemented by a new state-of-the-art structure. This additional office building, which is constructed to the latest energy efficiency standards, provides space for a total of 23 offices, meeting and creative rooms, together with shared desk space distributed over three floors. From here, around 90 employees are able to enjoy breathtaking views of Bergisch Gladbach.

## 2019-2022

Energy efficiency class: EnEV55

Heating: 7 deep boreholes for the geothermal heat pump with passive cooling

Photovoltaic system: 40 kW peak  
Providing sufficient capacity for the heat pump

## Green heat - low emissions & energy efficient

The main building has been heated by a cogeneration plant since 2014. This CHP plant also generates electricity in addition to heat. The generated electrical and thermal power is consumed entirely in-house.

Completed in 2022, the development building will be heated using a geothermal heat pump to conserve resources. The thermal energy from deep under ground is transferred to the building using a heat pump. In winter, heat is extracted from the ground and fed into the building. In summer, heat is extracted from the building via passive cooling (it is cooled) and returned to the ground. The more the bed-rock is heated in summer, the more efficiently the heat pump works during the following winter.



## Green electricity & photovoltaics

Photovoltaic systems make an important contribution to achieving climate targets and securing our energy supply. DEUTA already operates a 40 kWp photovoltaic system which is installed on the new building. When the planned expansion of the production facilities happens, a further 200 kWp (orientated east-west) will be installed on the roof. In the absence of sunshine, the electricity supply will be provided by 100% green electricity.

Fifteen charging points (up to 11 kW charging capacity) are available for our employees to charge their electric vehicles with electricity sourced from the photovoltaic system or green energy supply. The company vehicle fleet is also being gradually converted to electric.







Saving energy

## Sustainable - to the last detail

Energy is getting more and more expensive - while climate change makes protecting the environment increasingly important. DEUTA's electricity consumption has remained the same despite increasing production. Nevertheless, we are also focussing on seemingly small energy-saving measures that are having a big impact overall.

A key detail in our energy balance for conserving resources is how we light our buildings. We are gradually replacing all fluorescent tubes and high-voltage halogen lamps with LED lamps. Using motion and presence detectors allows us to reduce the time lights are switched on, thereby reducing power consumption to the bare minimum and ensuring the lights are switched off completely when not required.

We are also focussing on reducing primary energy consumption when it comes to radiators. Replacing old tubular/sectional radiators with modern, efficient flat panel radiators allows the flow temperature to be lowered, thereby saving both heating energy and CO<sub>2</sub> emissions.

DEUTA's premises are within easy reach of public transport. Train and bus stops are within walking distance. If we do have to switch to cars for any reason, we have a fleet of hybrid or purely electric cars that run on 100% green electricity.



# Our Production

## Our Production - ecologically sustainable

Ecologically-orientated production with the lowest possible environmental impact is a foregone conclusion at DEUTA.

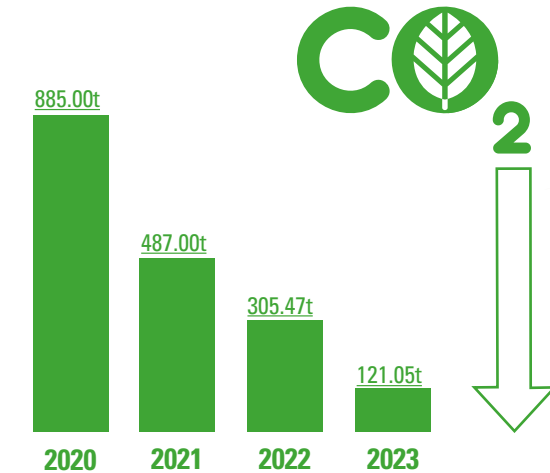
Our integrated TÜV-certified management system enables us to guarantee and document conformity with legal requirements, particularly those relating to the environment. In addition to the ISO 14001:2015 (environment and occupational health and safety) rules, we also comply with the ISO/TS 22163:2017 (Railway Industrial Standard) and ISO 9001:2015 rules.

The procurement, handling and disposal of hazardous substances are of particular importance. Moreover, materials that can no longer be recycled, such as electronic circuit boards, electrical appliances, cables and metals, are separated by type. This means they can subsequently flow back into the recycling loop as recyclable materials. It is necessary for our production area to be kept at an absolutely constant temperature and humidity. This is ensured by an efficient, high-performance electric heat pump and air conditioning system, which is naturally powered by 100% green electricity.

## This is what we have achieved so far:



We have halved our carbon emissions almost every year since 2020 (scope 1 and scope 2)



Scope 1 and 2 carbon footprint trend between 2020 and 2023



# DEUTA-WERKE

---

Paffrather Strasse 140 | 51465 Bergisch Gladbach | Germany  
Phone +49 (0) 2202 958-100 | Fax +49 (0) 22 02 958-145  
support@deuta.de | [www.deuta.com](http://www.deuta.com) | [www.icontrust.com](http://www.icontrust.com)