Case Study

Terhalle Holding

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Terhalle

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Using solar power efficiently: How companies can successfully switch to electric mobility

Why the timber construction company Terhalle decided to build its own charging infrastructure – and how reev supported the implementation.

Based in Ahaus in the Münsterland region, Terhalle Holding brings together several companies focused on sustainable construction – including timber frame construction, industrial and commercial buildings, turnkey projects, modular construction, window manufacturing and interior design. With more than 600 employees, Terhalle delivers both regional and international projects, with a strong commitment to quality, innovation and ecological responsibility.

Sustainability is firmly anchored in the company's philosophy: Resource-efficient work processes, the use of wood and renewable energy, and climate neutrality since 2019 are central to its approach. Based on its previous carbon footprint, Terhalle initiated a comprehensive transformation process – including in the area of mobility.

With the goal of electrifying its fleet and using the self-generated power from its PV systems, Terhalle decided to build its own charging infrastructure. Together with reev, a cloud-based solution with intelligent load management was implemented – designed to simplify daily operations and support future growth.

Project at a glance:

- **Locations:** 2
- **Charging points:** 50
- **Energy delivered via reev:** 23.990,089 kWh (Stand April 2025)
- **PV electricity used:** 390.000 kWh
- **Total users:** 57
- **Electric vehicles:** 42 company cars, 15 private EVs

Sustainably planned, efficiently implemented in-house

Before installing the charging infrastructure, Terhalle worked with its contracted electrical specialist to analyse potential locations, actual charging needs, and technical requirements. As the existing parking areas were due to be repaved, the company took the opportunity to install the necessary conduits for the future cabling of the EV charging stations during the groundwork.

The project began with the installation of six ABL mH3 Twin charging stations, each offering two charging points. The selected hardware was seamlessly integrated into the

existing setup and is fully compatible with the cloud-based software solution from reev – the reev Platform.

reev Platform as a convenient solution with integrated energy management

As charging demand increased for both company cars and private EVs, Terhalle gradually expanded its charging infrastructure

> ***"We chose the energy and charging solution from reev because it is not only compatible with our existing ABL charging stations, but also because the platform is easy to use and clearly structured."***
>
> **Lara Thesing**
> Fleet Manager, Terhalle Holding

– now operating 46 charging points across multiple locations, powered in part by its own photovoltaic systems generating 100% green electricity.
The infrastructure is centrally managed via the user-friendly reev Platform: from managing charging points and registering users to linking RFID chips and setting individual preferences such as PV-based charging and vehicle prioritisation – a complete solution for efficient charging infrastructure.

Efficient electricity use is enabled by dynamic load management with the integrated reev Energy Management System (EMS). It prevents load peaks, coordinates charging intelligently and fits seamlessly into daily operations. The solution is easy to integrate into routine workflows and helps Terhalle make the most of its available resources. With the integrated reev EMS, the peak load was reduced from 507 kWh to 403 kWh.

reev Energy Management System: Smart load distribution for maximum effiency

- Intelligent and dynamic load management: Efficient distribution of available power capacity.
- Cost efficiency: Reduces energy costs through optimal load control.
- Scalability & flexibility: Easily expandable, compatible with common hardware providers such as ABL, KEBA, Mennekes & more.
- Prioritised charging: Specific vehicles or users can be given charging priority.

Practical and versatile in everyday use

Today, the charging infrastructure is an integral part of daily operations. Various user groups benefit directly from the convenient charging options available on the company premises:

- **Company fleet vehicles**
- **Employees' private EVs**
- **Public charging on weekends**

Three advantages that make the difference

1. **E-mobility for employees:**
   The wide range of charging options encourages many employees to switch to an electric vehicle – conveniently rechargeable during working hours. This ensures optimal use of self-generated PV electricity.

2. **Independence through an in-house charging infrastructure:**
   Terhalle manages processes, costs, and access entirely in-house – without reliance on external providers.

3. **Centralised management with the reev Platform:**
   Whether it's user prioritisation, PV-based charging, or creating RFID access – all settings can be centrally, easily, and individually adjusted.

„We would definitely recommend the solution from reev – the quick integration into our existing infrastructure and the ease of use in daily operations convinced us."

Lara Thesing
Fleet Manager, Terhalle Holding

When sustainability becomes part of the identity

The decision to embrace e-mobility at Terhalle is part of the company's sustainability strategy. It also reflects their commitment to taking responsibility beyond their core business activities.

"As a timber construction company, we work with a sustainable raw material that stores CO_2 and continuously regenerates. That's why it was clear to us from the very beginning to take a leading role in the field of electromobility as well."

Josef Terhalle,
Founder of the Terhalle Group

Looking ahead: Easily scalable, built for the long term

By continuously expanding its charging infrastructure and implementing the reev Energy Management System, Terhalle has already laid the foundation for a future-proof e-mobility strategy – intelligent, flexible, and fully aligned with the company's sustainability philosophy.

All charging points are powered by 100% green electricity, with a large share coming from the company's own photovoltaic systems. This ensures that the use of electric mobility is optimally linked to on-site energy generation.

About reev

reev is an internationally operating software company based in Munich, offering a leading energy and charging platform for semi-public environments. The company's mission is to drive sustainable and future-oriented mobility. Its cloud-based solution enables simple charging, efficient energy use, and optimised load management – designed for businesses, hospitality, car parks, and residential housing.

As a reliable partner for charge point operators (CPOs), electrical installers, wholesalers, and charging station manufacturers, reev actively contributes to the expansion of charging infrastructure. Intuitive solutions for management, control, and billing ensure maximum functionality, ease of use, and security – for smart, connected, and sustainable mobility.

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