



# Case Study

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## Trumpf

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# Pioneer of Electromobility

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At the beginning of 2019, the high-tech company TRUMPF opened one of Germany's largest electric charging stations in its own parking garage. Nearly 90 charging points are available to employees, customers, and guests. The charging infrastructure was perfectly adapted to the existing conditions and designed with a focus on the future. However, these 90 charging points are just the beginning. TRUMPF has the capacity to expand its charging station to up to 400 charging points if needed and is already planning further steps toward electromobility. With this, TRUMPF demonstrates how a company can drive forward electric mobility and make it work to its advantage.

## Facts and Figures

Since February 2019, one of Germany's largest electric charging stations has been inspiring the switch to electromobility.

At its company headquarters in Ditzingen, the company opened one of Germany's largest electric charging stations in February 2019. In the company's own parking garage, employees can charge their private vehicles, pool cars, and company cars. Customers and guests can also use the facility to power their electric cars. On a dedicated floor, there are more than 45 single and twin wallboxes with a total of 86 charging points.

With a power connection of 1,200A available, each wallbox can easily be supplied with up to 22 kW.

## About TRUMPF

TRUMPF is not only a supplier and user but also a pioneer in the field of electromobility.

TRUMPF is one of the world's leading companies in the fields of machine tools, laser technology, and electronics for industrial applications. Founded in 1923 as a mechanical workshop, it has since evolved into a family-owned high-tech company with around 14,500 employees. Seventy subsidiaries, along with numerous sales and production sites, are spread across the globe.

As a technology and market leader in industrial lasers, for example, in battery manufacturing, TRUMPF focuses on future-oriented topics. Although the company remains open to various technologies, it is a trailblazer in electromobility, taking on a leadership role through its products and its dedicated sustainability department, setting itself apart from other companies.





## Motivation

TRUMPF is embracing change and actively shaping the mobility of tomorrow.

Electric vehicles have long been part of the company's fleet, and more recently, StreetScooters have been added for on-site transportation. With its own charging stations, TRUMPF is taking decisive action and encouraging its employees to switch to electromobility.

“The number of private electric car drivers at TRUMPF is increasing. We want to give our employees the opportunity to conveniently charge their cars during working hours.”

**Jürgen Schäfer,**  
Head of Construction Projects  
at TRUMPF

“The capacity is designed for a total of 400 charging points. This means that, in the medium term, more than 15 percent of our parking spaces can be equipped with charging infrastructure.”

**Jürgen Schäfer,**  
Head of Construction Projects  
at TRUMPF

More and more employees are relying on a simple and efficient power supply for their vehicles, and the demand for charging at the company continues to grow. TRUMPF is proactively addressing these upcoming challenges and taking early precautions to support the transition in transportation. With these steps, TRUMPF is well-positioned for future developments.

# Implementation

With a constant focus on the future, TRUMPF has successfully managed this large-scale construction project.

The initiative for the company's own charging stations originated from TRUMPF's sustainability department, as electromobility continues to gain visibility and importance. Internally, employees increasingly advocated for the ability to charge their vehicles on-site. At that time, part of the company's vehicle fleet had already been electrified, making electromobility a tangible reality within the company premises and between locations. reev was brought in for the design, implementation, and operation of the charging system. Since the parking garage was newly constructed, the charging station could be seamlessly integrated into the planning process.

The charging infrastructure was designed with foresight, allowing the existing 86 charging points to be expanded to up to 400 charging points in the future. This would cover around 15% of all available parking

spaces. To ensure sufficient power supply as the number of users grows, a 5 MW transformer was installed. Although this capacity exceeds the current infrastructure requirements, it reflects how seriously TRUMPF takes the rise of eMobility and its importance in the coming years.

Access to the parking level with the charging points is controlled by a barrier and monitored by a camera that recognizes vehicles with electric license plates, ensuring that only electric cars occupy the designated parking spaces. Employees use their internal ID cards to start the charging process. Activating the ID card for charging offers two main benefits: first, there was no need to set up a new access system or issue an additional card; second, the employee identification allows reev to intelligently allocate charging sessions to the appropriate accounts and, for fee-based employee vehicles, automatically initiate the billing process.

Although companies were allowed to offer free, tax-exempt charging to their employees until the end of 2020, TRUMPF decided from the very beginning to have its employees pay a small fee for charging their vehicles.

**>45**

charging  
stations

**86**

charging  
points

**400**

charging points  
possible

**1.200A**

total power  
(so far)

**up to 22kW**

charging capacity  
per point

Nevertheless, employees still benefit, as the costs for hardware and electricity at TRUMPF are significantly lower compared to purchasing and installing a wallbox at home. Since the charging stations in this case must comply with calibration regulations, slightly higher initial acquisition costs had to be accepted.

## Operation

TRUMPF can relax – all complex processes happen in the background.

The operation of the parking garage is now in full swing. Since reev handles all billing processes, maintenance, and service, the new electric charging station does not create any additional workload for TRUMPF. Through reev's intelligent software, TRUMPF can track charging sessions if needed, monitor its charging and load management, review station utilization, and access many other features – all while ensuring full compliance with data protection regulations.

The entire billing process runs automatically in the background. Employee charges are processed monthly via credit card, while pool and company vehicles are billed through dedicated accounts. Guests can use roaming services, while customers have access to ad-hoc charging with immediate credit card payment.

Since reev manages the entire billing and accounting process, TRUMPF is relieved of this task – potentially for more than 10,000 users – saving valuable accounting resources.

At the end of each month, TRUMPF receives a detailed, account-specific report of all reve-

nues. Employees receive individualized invoices. For TRUMPF, the electric charging station essentially operates itself, with only an occasional review of the accounting required.

“The approach taken by reev, to offer a tailor-made, comprehensive solution for companies, suited us perfectly. The automated billing and subsequent allocation to companies and cost centers would be impossible to manage manually.”

**Tim Veith**, Sustainability Manager at TRUMPF

## Outlook

The project has just been successfully completed, and TRUMPF is already working on realizing its next vision. seiner nächsten Vision.

The success of the project at the Ditzingen site fully validates TRUMPF's efforts. Since the opening, within just a few months, many new users have embraced the offering and registered to use the charging infrastructure. In Ditzingen, TRUMPF has set a positive example – not only for its many other locations but also for other companies.

The noise of the construction work for the charging station has barely faded, yet TRUMPF is already moving forward with its next project. The company is now taking the initiative in the area of electric car-sharing.

By setting up an “eCar to go” station on-site, TRUMPF aims to give employees who do not yet own electric vehicles the opportunity to experience eMobility.

In addition to test drives, this initiative will also provide a convenient and sustainable transportation solution for the highly frequented route between Ditzingen and Stuttgart Airport. reev is once again partnering with TRUMPF on this project, developing a custom payment module specifically for the new car-sharing system.

## About reev

reev offers flexible products and services that provide an easy entry into eMobility for any application. Anwendungsfall einen ein

reev is an expert in intelligent, networked charging solutions. The Munich-based company has set itself the goal of enabling everyone to shape the future of electromobility and actively contribute to the mobility transition. To achieve this, reev has developed a simple, transparent, and fully automated charging platform for managing and controlling electric vehicle charging infrastructure.

The user-friendly software solution is customizable and suitable for any application. The software is available as a bundle (a combination of hardware and software), as a full-service package (including consulting, planning, implementation, maintenance, and support), or as a standalone solution.



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