Press Release
Wolkersdorf, 14.04.2026

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Efficient, clean, electric: Team Sauberes Karlsruhe expands its electric vehicle fleet and charging infrastructure, driving a consistent transformation toward sustainable waste management.

The electrification of municipal utility vehicle fleets is a key component of sustainable mobility. Team Sauberes Karlsruhe (TSK) initiated this transition at an early stage and, together with Powerlines, implemented a powerful and scalable charging infrastructure that is already being expanded following its successful commissioning.

The goal is to reliably supply and manage energy for electric waste collection vehicles without compromising efficiency or operational safety. A decisive factor for TSK was Powerlines' strong service philosophy, ensuring that the charging infrastructure is not only built but also operated with high availability over the long term, with disruptions quickly and professionally resolved.

The operations depot at Ottostraße in Karlsruhe serves as the logistical hub of the municipal service provider. From here, 50 waste collection vehicles head out into the city early each morning. Since 2024, TSK has tendered seven electric collection vehicles in the first phase, followed by 11 additional ones in 2025.

To implement the charging infrastructure, TSK collaborated with a strong network of technology and infrastructure partners. Powerlines was responsible for the complete installation of the Kempower charging hardware, including integration into the existing infrastructure. The implementation of IO-Dynamics' intelligent charging management system reduces peak loads and increases the use of locally generated PV electricity.

For TSK, ensuring the long-term performance of all charging points was of central importance. Since failures in daily waste management operations would have severe consequences, Powerlines' service capabilities played a decisive role in partner selection. Powerlines impressed with a unique, nationwide service model that guarantees rapid response times, high technical expertise, and reliable support during ongoing operation.

The Powerlines solution includes two Kempower Power Units C802, each with four charging points (control units 200A, 10m), providing charging capacities of up to 160 kW. The intelligent charging management enables dynamic load distribution between the power unit and

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charging points, ensuring that vehicles with shorter dwell times receive higher power than those with longer parking durations. The electrical installation includes connecting the power and control units to the low-voltage main distribution system. Additionally, an electrical distribution unit for AC charging points was installed, supplying cars, vans, and sweepers. The transformer station and backup power system were provided on-site by TSK.

In a subsequent tender, Powerlines once again prevailed: the company will expand the charging infrastructure at the Ottostraße site in Karlsruhe, adding twelve additional charging points with a total capacity of over 1,000 kW. Commissioning is scheduled for summer 2026.

The result is a charging infrastructure that sets new standards. It offers high flexibility for different vehicle types, maximum efficiency through intelligent charging management, and scalability for future expansions. With this solution, Team Sauberes Karlsruhe is well equipped for the future and demonstrates how collaboration and innovative technology can make sustainable mobility a reality.

Dennis Egen, Mobility Manager at Team Sauberes Karlsruhe: “With this charging infrastructure, TSK has created the foundation for operating its fleet efficiently and sustainably. The combination of powerful hardware, intelligent charging management, and Powerlines as a reliable partner prepares the municipal service for the mobility of tomorrow.”

Felix Fait, Roll-Out Manager at Powerlines: “This project shows that green mobility in the public sector can already be a reality today. Electric waste collection vehicles reduce CO_2 emissions, improve air quality, and enhance the quality of life in the community. Many thanks to all project participants for the excellent cooperation.”

About Powerlines

Powerlines build future networks for rail, energy, and e-mobility. The Group implements complex overhead and transmission line construction projects for international customers and provides innovative charging infrastructure solutions. The Powerlines Group is one of Europe’s leading providers of infrastructure electrification solutions. The electrification of public transport systems is the basis of decarbonisation and thus the reduction of CO_2 emissions in transport. The construction and expansion of energy transmission infrastructure is paving the way for the energy transition. The Powerlines Group has its headquarters in Lower Austria and local subsidiaries in Central and Northern Europe. The Group employs over 1,370 people. In the 2024 financial year it generated a turnover of EUR 440 million. The Powerlines Group is an Equans France company.

About Equans and Equans France

Equans, a subsidiary of the Bouygues group, is a global leader in the energy and services sector.

In France, Equans France draws on its historic brands Ineo, Axima, and Bouygues Energies & Services and its strong local presence to support businesses, local authorities, and industries in meeting the challenges of the energy, industrial, and digital transitions.

With the ability to operate at every stage of projects’ lifecycle, Equans France brings together 35,000 employees to design, install and supply tailor-made solutions that optimize clients’ equipment and usage, enhancing

infrastructure performance and energy efficiency. Its expertise spans electrical engineering, HVAC, refrigeration, fire safety, Facility Management, multi-technical maintenance, IT & Telecommunication, and digital solutions.

On a global scale, Equans operates in 20 countries, with 83,000 employees across 5 continents and a turnover of 18.72 billion euros in 2025. Following a similar dynamic, its subsidiary Equans France achieved a turnover of 7.2 billion euros in 2025 and operates in nearly 30 countries.

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