



The MOBOTIX E-Mobility-Solution-Pack Comprehensively Covers the Application Areas of the Growth Industry

March 23, 2023

Langmeil, March 2023 - More security, better processes, and higher revenues - that is the promise of the latest MOBOTIX Solution Pack with effective total solutions for companies in e-mobility - one of the world's most rapidly expanding growth markets. As the amount of charging stations grows along with the rapidly increasing number of motor vehicles powered by electricity, this market will continue to accelerate in the coming years.

Growing global e-mobility market

One in nine passenger cars sold globally now has an electric powertrain. In Europe, the electric share of total sales (EU, EFTA & UK) was already 19.2% in 2021, with more than 300,000 e-charging stations for slow charging. This represents a 30% increase year-on-year. In the United States, charging stations increased by 12% to 92,000 in 2021.

The global electric mobility (e-mobility) market was approximately \$152 billion in 2020 and is expected to reach roughly \$718 billion by 2030, growing at a compound annual growth rate (CAGR) of 22% from 2021 to 2030.

New requirements of a new industry

Beyond general security and fire safety, intelligent video technology can support processes and operations around electric charging to ensure the charging station's safe, effective, and profitable operation. Many stations are out of the way, and the terrain is confusing. A recognizable video system deters potential offenders, gives the user a sense of security, and effectively protects against vandalism, robbery, and theft. Accidents or damage can also be traced and resolved.

E-charging stations must also be cost-efficient and have a high utilization rate and low downtime. Lastly, the operator wants to achieve the highest possible customer satisfaction. MOBOTIX video technology can help to detect operating errors and intervene via signals. At the same time, the system maintains a customer-friendly ambience. It uses statistics and market research tools to ensure permanent process optimization of

the station in the customer's interests. Unauthorized visitors can also be detected, and the charging system is blocked to protect against misuse. In addition, the MOBOTIX systems can indicate upcoming maintenance in good time, which can be carried out before a breakdown occurs.

Essential data from real-time license plate recognition

Controlled access via MOBOTIX license plate recognition increases security at charging stations on the one hand. On the other hand, it also improves service through automated access or prioritization of regular customers. You can optimize the service and customer satisfaction using the generated vehicle documentation and marketing data. End customers need to know that MOBOTIX systems are "Made in Germany," promise the highest cyber security, and are 100 percent DSGVO & NDAA compliant.

Remote access via MOBOTIX CLOUD and MOBOTIX HUB.

Typically, e-charging stations are operated with a small staff or entirely autonomously. However, they can still be monitored remotely around the clock via [MOBOTIX CLOUD](#) and [MOBOTIX HUB](#). In critical incidents or other events, MOBOTIX video technology enables immediate intervention, e.g., via a micro and audio function - even without personnel on site and for several stations simultaneously.

Anticipatory fire protection

Anticipatory fire protection is essential for e-mobility, e-charging stations, and batteries for e-cars. MOBOTIX systems are not only predestined but they are also certified multiple times and internationally for qualified early fire detection. This means that MOBOTIX systems can not only ensure optimum fire protection during the charging process but can also be used to safeguard stationary energy storage systems - 24 hours a day, seven days a week, 365 days a year.

Success story: Citywatt:

The focus of the solution at Citywatt, a full-service provider of conceptual charging infrastructure, is on image recording to optimize utilization and detect any operating errors. In addition, damage or vandalism must be noticed, documented, and resolved. MOBOTIX video technology also provides important information about the charging behavior of customers and the vehicles used. This data is used to optimize the stations to increase customer satisfaction. Since there is usually no staff on site, the effort required to maintain recorders must be avoided. Therefore, the image data is stored cyber-securely and decentrally in the MOBOTIX CLOUD via the MOBOTIX Bridge.

"Based on fundamental industry and expert knowledge, the E-Mobility Solution Packs from MOBOTIX are specifically tailored to certain, mostly young industries or even niches, and offer companies enormous simplifications, optimization possibilities, or help to increase revenues. In addition to general security and protection measures and optimal fire and vandalism protection, it is always a matter of generating added value for MOBOTIX users from specific challenges," explains Christian Cabirol, designated CTO of MOBOTIX AG.

Here you can find the full range of MOBOTIX Solution Packs, including realized success stories from the field:

<https://www.mobotix.com/en/solutions/solution-packs>