



Long-haul & regional
road transport

Static/logistical
infrastructure

BOSCH - Secure multi-point megawatt charging station



Funded by the
European Union

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Developed by :



Project by :



Operational fields

Technologies

Solutions



BOSCH SECURE, MULTI-POINT MEGAWATT CHARGING STATION

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Solution description

The first secure, flexible MCS Hub at the core of the TEN-T network

The secure, multi-point Megawatt Charging Station at Bosch's site in Karlsruhe is a public charging hub designed to enable fast, simultaneous charging of heavy-duty and light-duty electric vehicles.

This high-power infrastructure supports over 4 MW peak power, integrates 1.2 MW battery storage system, and leverages smart energy and communication systems to ensure secure, interoperable, and efficient operations, making it ideal for high-throughput logistics environments.

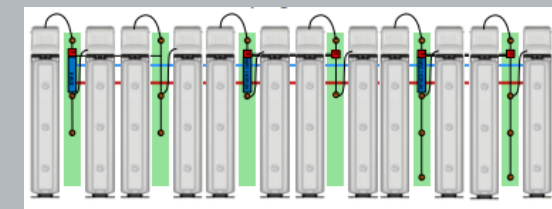


Benefits

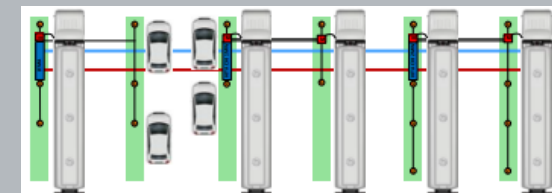
- **Ultra-fast, high-capacity charging**
Up to 1+ MW per MCS port enables rapid turnaround for both heavy-duty and light-duty electric vehicles, minimizing downtime.
- **Multi-vehicle, multi-port flexibility.**
Supports simultaneous charging of multiple vehicle types with 5 MCS and 18 CCS connectors
- **Secure and with Smart Energy Use.**
A charging facility that meets all EU safety requirements, featuring an integrated battery storage and smart EMS to optimize energy flows

Main beneficiary:
CHARGING POINT OPERATORS

NIGHT 12 HDVs charging in 6 hours



DAYTIME 5 HDVs charging in ≤ 45 minutes



Technology readiness level : **8**
Implementation stage : **Pilot**

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Want to receive insights
on business needs and
user requirements for
**ultra-fast
charging infrastructure?**



Learn more about
Bosch's charging
station



WATCH THE VIDEO!



Would you like to know more?
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www.etp-logistics.eu/alice-projects/flexmcs/

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