

SMART CHARGING STATION FOR ELECTRIC BUSES, ARGENTEUIL

Enable charging of a fleet of eight electric buses for the first electric bus line in Argenteuil

Date : 2018 – Client : Transdev



Services provided

Turnkey solution including the design, creation, installation and maintenance of the charging system.

Technical details

- ✓ Integration of energy transformation and conversion with a shelter measuring less than 20 m².
- ✓ Energy conversion: Eight EN 61851-23-compliant DC/DC chargers.
- ✓ Six 60 kW chargers (slow charging).
- ✓ Two 120 kW chargers (fast charging).
- ✓ Pre-configured conversion room to house two additional chargers.
- ✓ Connection systems using remote wired charging masts next to the eight buses.
- ✓ DIN 70121-compliant PLC communication protocol.
- ✓ Remote monitoring system in the operating and maintenance rooms.

Strengths

- ✓ First all-in-one charging system: from high-voltage connection to the outlet.
- ✓ Interoperability: First system to demonstrate its ability to charge buses from different manufacturers.
- ✓ Compact solution (< 20 m²) installed at the depot with no need for a building permit.
- ✓ Scalable for the ability to charge up to 10 buses from multiple manufacturers simultaneously.

<https://www.youtube-nocookie.com/watch?v=nQtEP9G71aI>

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