Introduction e-buses
BVG Berlin

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With more than 1.2 million passengers a day our bus services are a major pillar of public transport in Berlin.

6,481 stops – our city bus network is the largest in the country.

- 441m passengers
- 1,400 vehicles
- 6,481 stops
- 154 lines
- 1,738 km in total length
The BVG follows a path into a locally emission-free public transport system deploying different technologies.

**Goal 2030: locally emission-free bus fleet**

A variety of alternative drive technologies are available:

- **E-EN**
  - E-Bus (depot charging)
- **E-Metro-Bus**
  - E-Bus (Opportunity-Charging)
- **feasibility study**
  - E-Bus (trolley battery hybrid)
- **H₂-Fuelcells** (-Hybrid)
- **H₂-combustion**

Long lead time before implementation → Standard-technology is not defined yet → Parallel and continuous tracking of technology development
A feasibility study researches the technical and operational requirements of a trolley battery hybrid system in Berlin.

### Goals
- Researching the feasibility of trolley battery hybrid e-buses in the context of the Berlin transport system, including a comparison with other technologies.
- Creation of visualisations for negotiation and participation processes.

### Project Framework
- Conducted by consultants of PTV Group & IFB Institut für Bahntechnik/TU Dresden.
- The feasibility study is subsidized by the German Ministry of Transport.
- Also the Berlin Senate Department for the Environment, Transport and Climate Protection is part of the workgroup.

- **Spatial focus**: Berlin-Spandau.

- **Scope of the feasibility study**
  - State of the art analysis
  - Technical and operational dimensioning
  - Creation of scenarios
  - Profitability, cost and sustainability analysis (incl. technology comparison)
  - Visualisations