

0% pollution
100% innovation



Ecological, economical, electrical, the **ebus** is simply smart urban mobility. Today's clean, green cutting-edge technology that enhances quality of life for Europe's cities of tomorrow. The **ebus**, with no noise, no pollution and maximum convenience and safety is the future of European public transport.
www.ebus.eu



TROLLEY is implemented through the CENTRAL EUROPE Programme co-financed by the ERDF



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND

trolley
Promoting electric public transport



Salzburg AG

ebus
the smart way

Trolleybus: Facts & Figures

- **Political framework:** The EU climate and energy package aims at decreasing greenhouse gas emissions by 60 %¹ by 2050 and can only be reached by a change of the operating system in the transport sector. The EU climate and energy targets to be met by 2020 identify the transport sector as one of the key factors to achieve sustainable reduction of energy consumption and CO₂-emissions.
- **A proven technology worldwide:** Trolleybus systems are a proven technology that directly responds to today's challenges concerning new technical and environmental requirements. More than 40,000 vehicles are being operated in about 320 cities, in 47 countries as different as Russia, Canada, China, Czech Republic, Italy or Austria. Interestingly, a lot of trolleybus systems are in place in cities elected as the best places in the world and Olympic cities.
- **A long-term history:** This success story dates back to 1882, when the first Trolleybus was built by the German engineer Werner von Siemens. Around 1930 the age of the modern Trolleybus system began when reliable overhead contact systems were introduced.
- **Energy-efficient:** Trolleybuses have the lowest possible consumption of non-renewable resources (50 % less compared to diesel buses²) and are 100 % environmentally friendly when using energy from renewable sources.
- **Comfort and safety for passengers:** In operation, Trolleybuses have the lowest possible noise and vibration levels in public transport and are less involved in road accidents than other means of public transport.
- **Competitive yet combinable with other modes:** It takes less time to realize and construct Trolleybus systems compared to tram networks and provides similar passenger capacity at much lower construction costs (up to 80 %³).



¹ WHITE PAPER: „Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system“, European Commission, 2011

² <http://www.trolleybusmotion.com/de/>, 2011

³ <http://www.trolleybusmotion.com/de/>, 2011

As Trolleybuses may have more than one electric motor and can be equipped with additional power sources they can carry on when they are not connected to the wire, which makes them much more flexible than rail-dependent traffic.

It is also possible to combine or extend existing tram networks with Trolleybuses, allowing for synergies and the flexible, short-notice reaction to local needs.

- **Particularly long life cycle:** Community budgets benefit from the system advantages of Trolleybuses, due to long lifetime.
- **TROLLEY consortium:** The TROLLEY consortium consists of nine European electric public transport stakeholders located in Central Europe:
 - Salzburg AG (Austria), Lead Partner
 - City of Brno (Czech Republic)
 - Barnim Bus GmbH, Eberswalde (Germany)
 - TEP S.p.A., Parma (Italy)
 - LVB, Leipzig (Germany)
 - City of Gdynia (Poland)
 - University of Gdansk (Poland)
 - SZKT, Szeged (Hungary)
 - TrolleyMotion, Salzburg (Austria)



The TROLLEY consortium was founded in 2010 and is one of the projects that are funded and supported by the CENTRAL EUROPE (CE) programme. CE is a European Union programme that encourages cooperation among the countries of Central Europe to improve innovation, accessibility and the environment and to enhance the competitiveness and attractiveness of their cities and regions.

- **Main objectives of the TROLLEY consortium**
 - Optimization of the use of energy, to increase the efficiency of public transport in general
 - Improvement of patronage and the overall image of Trolleybuses
 - Delivery of transferable strategies and innovative ways of promoting Trolleybus systems in Central Europe as environmentally friendly mode of transport and appropriate alternative to regular diesel bus or costly tram systems

Read more about Trolleybus systems by visiting www.ebus.eu

Our trick?
It's electric.



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