Berlin-Brandenburg
International Showcase for Electromobility
Overview of Core Projects
eMO is an agency of the State of Berlin. It operates under the aegis of Berlin Partner for Business and Technology and does not possess its own legal identity. eMO’s partners are the State of Brandenburg and companies and institutions in the fields of business and science.
Electromobility in Berlin-Brandenburg

New mobility strategies and renewable forms of energy – electromobility is an ideal vehicle for bringing these two fields together. Electromobility is therefore of great interest to government, science, business and society.

Berlin-Brandenburg is committed to meeting the future challenges as a metropolitan region. In the field of “urban technologies,” intensive research, developing and testing are being carried out today. This is not a new thing. Indeed, Berlin has a long tradition of innovation in the field of transport. Throughout history, the city has been – and will continue to be – a “first mover” with regard to new mobility concepts.

Based on its existing infrastructure for alternative drive systems, the capital region has now emerged as a pioneer in Germany. In fact, Berlin-Brandenburg sets the national standard in the field of electromobility, with 80 projects, more than 2,000 electric vehicles, 500 public accessible charging points and four hydrogen filling stations. The capital region is also a benchmark beyond national borders. Our ultimate goal is to set standards in Europe and worldwide as well.

In 2012, the German federal government together with the federal states announces the launch of four showcases for electromobility in Germany: this marked the introduction of a new instrument designed to pool expertise in the fields of energy supply, electric vehicles and transport systems. These showcases represent large-scale regional demonstration projects and pilot initiatives whereby business, science and public administration cooperate to examine innovative elements of electromobility and to make it possible for the general public and the international community to experience these elements in a clear and understandable manner.

The Berlin-Brandenburg International Showcase for Electromobility is funded by the German federal government as well as by the states of Berlin and Brandenburg. The showcase is coordinated by the Berlin Agency for Electromobility eMO.

www.emo-berlin.de/en/showcase/overview

Gernot Lobenberg
Director, Berlin Agency for Electromobility eMO
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Berlin-Brandenburg
International Showcase for Electromobility

The Berlin-Brandenburg Showcase serves to demonstrate and further develop the theme of electromobility. The goal is to show the concrete benefits and uses of sustainable mobility in the public sphere and allow the general public to experience these benefits in a tangible way. Over a period of three years, a number of questions will be examined in roughly 30 core projects at the Berlin-Brandenburg Showcase and additional associated projects:

- User acceptance
- Suitability for daily use
- Infrastructural requirements
- Environmental impact

In this context, innovative mobility concepts and new business models involving different user demands will receive just as much focus as regulatory frameworks.

Today, more than 2,000 electric vehicles are on the roads in the capital region: this number is higher than in any other city in the nation. In 2012, Germany’s very first electric carsharing program also got its start here. Other providers have also expanded their fleets of electric vehicles or plan to do so in the future. With over 500 public charging points in the region, Berlin-Brandenburg also has the largest publicly accessible charging infrastructure in Germany.

The states of Berlin and Brandenburg are pioneers in the field of sustainable mobility and regenerative energy. The region’s other business location advantages include:

- **Political center of Germany** (place of the federal government, embassies and associations)
- **Attraction for tourists and talents** (more than 27 million overnight stays and more than 11 million guests per year make Berlin the third most popular travel destination in Europe)
- **Pioneer in environmentally friendly transport** (very good elaborated public transport network, almost half of Berlin households have no car)
- **Sustainable energy generation and supply** (Brandenburg is set to cover 100% of its energy needs with renewable energies by 2020)
- **Cross-manufacturer location for cooperation** (no manufacturer dominates the region)
- **Renowned interdisciplinary R&D** (24 e.g. professorships in the "Electromobility Research Network" at the TU-Berlin)

Berlin-Brandenburg is eager to establish itself as an internationally recognized model for electromobility. The conditions to achieve this are particularly favorable: in Berlin and Brandenburg, more than 100 projects – including the roughly 30 “core” projects – are currently being implemented, prepared or already completed, all focusing on the theme of electromobility. These include first and foremost fleet projects, but also dynamic charging and storage.

### Key Statistics

- **Duration Showcase program**: 2013 - 2016
- **More than 100 partners from business, science, politics and administration**
- **Roughly 30 core projects in the Berlin-Brandenburg Showcase**
- **Roughly 1,000 charging points set to emerge as part of the Showcase projects**
- **More than 900 single/double-track electric vehicles planned**
- **Project volume of roughly €90 million**
  - Roughly €34 million financing via companies
  - Roughly €36 million funding via the German federal government
  - Roughly €20 million funding from the states of Berlin and Brandenburg
**Focal**

At the heart of the Showcase are four application-oriented focal points, all of which represent intersections of the sub-systems of vehicles, energy and transport (see image):

- **Driving** - Emission-free mobility in passenger and freight transport, intermodality, fleets, electric carsharing.
- **Charging & Parking** - Sustainable expansion of the public infrastructure,
- **Storage** - Electromobility as part of a Berlin-Brandenburg smart grid and
- **Integration** - Connecting mobility solutions with the power grid and innovative business models using information and communication technology, training and ongoing education.

**Projects in the Berlin-Brandenburg Showcase**

Roughly 30 core electromobility projects allow the region to test out e-mobility in a hands-on manner. For example, electric vehicles are being used in delivery transport and waste disposal. Commuters between Brandenburg and Berlin are also encouraged to switch to Pedelecs with the help of a Pedelec corridor. In addition, a battery-electric powered bus line is set to drive through the city of Berlin and charge at the final station inductively.

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**Education & Research**

The capital region has a wide range of R&D expertise that is closely linked to one another. The transfer of innovation is driven forward by means of concrete projects and intensive dialogue between science and business. In order to generate attractive training and professional opportunities in the field of electromobility, the capital region relies on the academic environment and Germany’s much-lauded dual vocational training system.

**Energy & Charging Infrastructure**

Electromobility in the capital region is able to operate in a sustainable manner as a result of its use of regenerative energy and the active role of electric vehicles in an intelligent power grid. The powerful, user-oriented and innovative charging infrastructure is currently being expanded significantly in cooperation with partners in industry.

**Electric Freight Transport**

The use of low-emission electric transport vehicles allows for supply and disposal services to take place at expanded hours in dense urban areas. This creates the opportunity for sustainable and economically viable logistics concepts and more urban compatibility, e.g., via noise reduction.

**Information and Communication Technologies**

Information and data services are being developed for users at the interfaces of energy production, energy supply, e-vehicles and transport systems in order to ensure the seamless linkage of private, commercial and public mobility services.

**Passenger Transportation**

Connecting private individual electromobility to electric passenger transport in an intelligent way makes an important contribution to sustainable urban mobility. New concepts are being tested under everyday conditions with regard to the use of electric vehicles in passenger transport: their effect on parking and the reduction of emissions is also being examined.
EFFF – Electromobility Driving Academy
Training for driving instructors, driving students, and fleet managers

Brief Description
Thus far, the topic of electromobility has not yet been integrated into traditional driving courses and instruction.

The idea of “environmentally friendly” electromobility as an essential element in a sustainable transport system is the focus of a new type of mobility school. The goal here is the development of a training concept for electromobility and multimodality that is oriented towards instructors, students and fleet managers

Focus Areas
- Concept development for a new “mobility school” on the basis of the “Scenario Electromobility 2025 Berlin” developed at the TU Berlin, the goal of which is to foster links between electric vehicles and other transport modes in the organization of everyday individual mobility
- Creation of learning/teaching modules for driving-school programs using electric vehicles suitable for testing, different charging infrastructures and other mobility offerings at a chosen Berlin driving school
- Development of a series of seminars with specific reference to electromobility, electric vehicles, multimodal mobility offerings, transport operators
- Establishment of an online mobility portal designed to facilitate the knowledge transfer of the project findings and to foster links with driving schools, associations, and other stakeholders in Germany and abroad

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Learning eMobility
Training and professional development for high-voltage technology in motor vehicles

Brief Description
The partners of the “Learning eMobility” project develop and test training curricula designed to provide professionals in the field of automobiles and two-wheeled vehicles – as well as professionals from other vocational areas – the expert knowledge they need for a successful start in the field of electromobility.

Focus Areas
· Establishment of training and demonstration centers focusing on high-voltage motor vehicles in the automobile and two-wheeled vehicle sectors
· Development of a manufacturer-independent and cross-market training and professional development program for the maintenance, diagnostics and repair of e-vehicles (especially relating to high-voltage technology in motor vehicles)
· Participation in the development and establishment of Germany-wide and international technical standards as well as training and certification standards in the field of high-voltage technology
· Expansion of international networks that include stakeholders in the training and certification of personnel active in electromobility in neighboring European countries and in China

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· Zweiradmechaniker-Innung Berlin
· Landesinnungsverband der Elektrotechnischen Handwerke Berlin/Brandenburg (associated)
· GFBM Akademie (associated)
Brief Description
This project develops new concepts and solutions with regard to the training and certification of professionals able to meet the demands of electromobility. The aim is to develop exemplary solutions along the entire chain of education and also to create sustainable structures that give professionals the skill sets they need to operate effectively in the field of electromobility. The project develops offerings for students, apprentices, professionals, executives and multipliers.

Focus Areas
• Analysis of existing needs with regard to training and education
• Development of professional and academic qualification concepts and learning settings for industry and trade
• Offerings that foster student orientation and the depiction of career paths for young talent, especially for girls and young women
• Development of "Lernwelt Electromobility" workspaces with training institutes and companies
• Creation of a join learning portal

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• Hochschule für Technik und Wirtschaft Berlin
• Lernfabrik NEUE TECHNOLOGIEN Berlin gGmbH
CCS Berlin – Combined Charging System
Development and demonstration of rapid charging stations

Brief Description
Development and demonstration of the Combined Charging System (CCS) in an urban environment and making use of a rapid recharging infrastructure, corresponding e-vehicles and the testing/communication of relevant application concepts (billing methods, business and mobility models).

Focus Areas
- Technical development and implementation in keeping with the specifications set out in the IEC Norm 61851-23/-24 and ISO 15118 (hardware and communication)
- Development of billing options, business and mobility models incorporation the inclusion of the infrastructure at corresponding internal and external service platforms
- Pilot program with 2-4 quick recharging e-vehicles and 7 rapid recharging columns in Berlin to test the viability of the systems for everyday use
- Expansion of the rapid recharging concept by linking it to other showcase regions

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- Daimler AG
- Deutsches Zentrum für Luft-Raumfahrt e.V. (DLR)-Institut für Verkehrsforschung

Associated Partners
- Volkswagen AG
- ABB Automation Products GmbH
Expansion of Recharging Infrastructure in Berlin

**Brief Description**
The objective of the state of Berlin is to expand the charging infrastructure to match the trend of demand for locations, number of charging stations and charging technology. The administrative and financial funding for the project, which is seen as an impetus, will prepare and implement around 800 charging stations during a multistage process. In the second phase, beginning in the summer of 2015, expansion will take place solely based on proven needs.

**Focus Areas**
- Implementation of an EU-wide allocation of service contracts for the extension and operation of charging facilities for electric vehicles in public and semi-public areas in Berlin
- Public participation competition
- Dialogue process
- Allocation of partial contracts

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IPIN – Integration Platform for Intelligent Network

Brief Description
The idea behind the IPIN project is to develop a comprehensive “smart grid” concept. The concept will be used to draw conclusions with regard to current and future storage technology needs. In addition, the project will enable the visualization of the linked results and the simulation of (extreme) scenarios.

The project’s objective is to examine the extent to which electromobility can make a meaningful contribution to grid management and to estimate current and future needs in terms of storage technologies.

Focus Areas
- Linkage of Berlin and Brandenburg as producers and consumers of renewable energies
- Linkage and integration of the findings of the projects involved
- Development of a comprehensive “smart grid” concept taking into consideration electric mobility applications
- Visualization of the interplay among energy generation / grid management / storage / consumption by e-vehicles

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- Technische Universität Berlin – DAI-Labor
Micro Smart Grid EUREF

Brief Description
The goal is to expand the Micro Smart Grid (MSG) to form a research and testing network. The conceptual development foresees the implementation of additional hardware components, such as energy generators and storage units, but also the connection of the MSG to a decentralized energy management system. All components will be integrated in such a way that allows for an examination of multiple scientific questions that will form part of a Masters program called “Energy and the City” at the TU-Campus EUREF GmbH. The operative goal is to provide the integrated car sharing fleet with 100% renewable energies and to expand the EUREF Campus long-term into a self-sufficient “island” operation.

Focus Areas
- Expansion and optimization of the Micro Smart Grid EUREF as a multidimensional linked TwinLab
- Demand-response monitoring in energy control centers, upgrading the infrastructure to allow for grid-independent operation
- Embedding into the overall energy expansion of the EUREF Campus as a sustainable city district
- Development of interoperable solutions for the operative management of Micro Smart Grids in connection with electric fleets
- Development of cross-industry business models
- Research into the user and user-related requirements and experiences with MSG systems and components

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- Vattenfall Europe Innovation GmbH

Associated Partners
- BLS Energieplan GmbH
- DB Fuhrparkservice GmbH
PlaG-inn

Demand-oriented planning, efficient approval processes, innovation-oriented procurement and private financing of recharging infrastructure

Brief Description
The goal of this project is the further development and model-based demonstration of processes and instruments with which the charging infrastructure for electric vehicles in the public sphere can be organized in accordance with concrete demand, but also approved of in an efficient manner, appropriately priced and adequately financed.

Focus Areas
- Demand-oriented site planning
- Analysis of legal and technical requirements
- Development of efficient rules for cooperation between local authorities and operators in the construction of a publically accessible recharging infrastructure
- Creating the potential for the private financing of the recharging infrastructure by means of a crowdfunding model

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Associated Partner
- Berlin Senate Department for Urban Development and the Environment
SMART - Capital Region

Grid concept for the capital region, real-world laboratory tests in the 5MW class, load assessment of a low CO₂ fleet

**Brief Description**

This project is designed to show how large of renewable energy generated in Brandenburg can be used in that state's urban centers as well as in the city of Berlin.

To that end, a corresponding concept with regard to power and heat supply will be developed for the capital region. This concept will enable not only the highest possible proportion of renewable energies but also a growing share of electric drive transportation.

As a result, the project is intended to serve as a worldwide example for comparable metropolitan regions.

**Focus Areas**

- **Sub-project 1**: Grid concept development for the Berlin-Brandenburg capital region incorporating the grid studies undertaken by the state of Brandenburg in 2006/2008 and 2010/2011 as well as the adoption of many Power2Heat systems, energy input back into the grid, a wide-ranging recharging infrastructure, electrolysis, possibly with methanation.

- **Sub-project 2**: Real-world test laboratory with 5 MW output to match the power/heat of the BTU Campus by means of EEG facilities built to the same load/production ratio expected for Berlin-Brandenburg in 2030.

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- Stadtwerke Forst GmbH  
- Vattenfall Europe Generation AG  
- Stromnetz Berlin GmbH
DisLog
Resource-efficient distribution logistics for urban areas using electric drive delivery vehicles

Brief Description
The main goal of this project is the introduction of electric-drive and hybrid utility vehicles in inner-city freight transport for the purpose of promoting the economic, transport-efficient and ecological design of delivery processes.

The new “DisLog” logistics concept is being developed in such a way that it can be transferred to other locations and industries.

In addition, the project also seeks to deliver a definition of the “optimal urban delivery vehicle” (structure, lightweight construction, drives, container system, etc.) that will be tested in conjunction with service providers by means of practical tests.

Focus Areas
- Optimization of inner-city delivery processes using light-weight electric utility vehicles
- Halving the stoppage times of delivery vehicles via the use of modular container systems
- Reduction of the transaction times from warehouse to recipient
- Benchmarking of available e-vehicles as well as practical testing of vehicle systems already available on the market for light-weight delivery vehicles

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- Messenger Transport & Logistik GmbH
- Oskar Böttcher GmbH & Co. KG (OBETA)
ElektroAES
The use of three electric waste disposal vehicles

Brief Description
This project addresses environmentally friendly electric drive concepts for waste disposal. It calls for the use of three garbage trucks with different electric dumpster-emptying systems mounted on triaxial hybrid chassis, tested in cities and their surrounding environs. The aim is to demonstrate the technical capability and cost-efficiency of the vehicles. The vehicle batteries will be charged at intelligent charging stations that feature a high proportion of wind power.

Focus Areas
- Determining the technical parameters of three hybrid trucks with various types of electric-drive waste collecting systems
- Production, adaption and modification of the electric waste-disposal vehicles
- Testing of electric waste disposal systems in Berlin, Potsdam and the Oberhavel area
- Analysis of the technical and economic usage data
- Creation and operation of recharging stations that charge batteries primarily using wind power
- Optimization of electric waste disposal through the development of a battery management system

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Associated Partner
- Volvo Group Trucks Central Europe GmbH
- NTM, NÄRPES TRÄ & METALL
**KV-E-CHAIN**

**Comprehensive electric transportation chain for combined transit**

**Brief Description**

The KV-E-Chain project will serve to demonstrate a fully electric long-haul delivery transportation chain. Goods will be transported in containers and swap bodies then taken by train from western Germany to Berlin’s Westhafen port and from there distributed in a manner that is fully electric. An important new aspect here will be the use of electric vehicles officially approved for road use and having a total weight of up to 40 tons.

The goal is to provide a closed-loop electric powered transportation chain from the central warehouse to the retailer via an urban logistics hub and thus to foster the development and implementation of combined electric powered transportation (long-distance rail transport), electric powered freight transport (by street) and retail transport.

**Focus Areas**

- Realization of a fully electrified supply chain with heavy e-trucks in urban logistics
- Integration of e-trucks into existing fleets
- New business concepts in city logistics using e-mobile solutions
- Testing of the use of solar-generated electricity for an electric recharging station

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- Berliner Energieagentur GmbH
NaNu!
Multi-shift operations and nighttime deliveries with electric vehicles

**Brief Description**
This project will test multi-shift operations using medium-weight utility vehicles with fully electric drive systems. In order to improve the overall economic efficiency of e-commercial vehicles, the project will take place during low-traffic nighttime hours and use schedule-based charging.

In particular, the project seeks to achieve the following goals:
· Shift delivery and transport processes to the nighttime (quiet trucks)
· Multi-shift operations by means of schedule-based 24h availability of trucks (value generation using electric utility vehicles)
· Use of various sources for the supply of removable batteries (fleet charging with grid compensation) within the vehicle’s usage time framework
· Improvement of the payload ratio
· Cost reductions for electric utility vehicles by means of prolonged vehicle use

**Focus Areas**
· Organization of 24h operations from the perspective of logistics, customers and regulative laws
· Introduction of a removable battery system for electric utility vehicles
· Setting up of schedule-based recharging that coordinates with logistics service providers and energy providers

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· Castellan AG
SMART E-USER
Concept for electric urban logistics

Brief Description
This project focuses on research, development and testing of the systemic network of components that includes electric vehicles, logistics processes, transportation, IT systems and energy. The goal is to provide proof of an economically sustainable overall concept for the electric mobility urban commercial transport of goods and services.

A user-neutral dynamic route planning system that integrates all the latest traffic data will be developed for the planning and control of electric vehicle deployment.

In addition, the goal is to develop business models for the use of electric vehicles in urban areas.

Focus Areas
· At the center of the Smart e-User research project are two application pilots in passenger and freight commercial traffic.
· Wide-ranging use of electric vehicles (up to 3.5t) in urban commercial transport in order to demonstrate economically viable applications with regard to the supply of goods and services to selected urban areas of Berlin.
· Identification of user groups for electric vehicles for urban commercial traffic followed by the derivation of appropriate user profiles.
· Within the framework of a prototype simulation, the project will examine the potential for an extensive implementation of the resulting electromobility concepts taking into account energy, logistical, traffic and economic perspectives.
· Specifically in the field of commercial goods transport, the project will examine the opportunities and potential for an electromobility city-hub.

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· MediaVita GmbH
· VdTÜV e.V.
Expanded und adaptive electromobility services: technology, development, delivery

**Brief Description**

This project is intended to advance the integration of applications and data in order to create innovative offerings in the e-mobility business environment. In order to ensure the efficient and high-quality development of innovative services, the project will involve service developers, providers and users.

The goal of the project is to link electric mobility offerings to the seamless commercial and private use of an intermodal e-mobility ecosystem based on innovative information and communication technologies.

**Focus Areas**

- Developing and making available semantic, context-sensitive core services, processes and data models for the e-mobility domain.
- Simplification of development and making available e-mobility services in order to reduce both the development costs and the time-to-market for service providers.
- Enabling a new generation of e-mobility services that are distinguished by cross-domain (energy system, electric vehicle, transport system) semantics, context-sensitivity, personalization and real-time billing capabilities.

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**Project Partners**

- Orga Systems GmbH
- Bosch Software Innovations GmbH
- Innovationszentrum für Mobilität und gesellschaftlichen Wandel GmbH (InnoZ)
Open Mobility Berlin
Networked e-mobility services for B2B customers

Brief Description
This project seeks to combine various mobility services from the fields of vehicle, transport and energy in a manner that creates added value. This approach will enable further innovative mobility services and concepts. In addition, providers of complementary services will be integrated more easily into the dynamic developments on the market.

The goal of the project is to provide business customers with easy access to cross-industry mobility services as part of the "Berlin-Brandenburg International Showcase for Electromobility."

Focus Areas
- Support for an interoperable charging infrastructure across multiple operators
- Integration of eCar-fleets and public transport (ÖPNV)
- Linking of eCar-fleets of different operators to create a comprehensive and close-knit mobility network

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- Technische Universität Berlin
  Fachgebiet Wirtschafts- und Infrastrukturpolitik
eFahrungs – Fleet Management – Fleet-Based Sharing
Cross-business use of electric vehicles in corporate fleets

Brief Description
The project’s objective is the verification of economically sustainable business models based on the cooperative organization of corporate fleets (with respect to electric vehicles), for individual corporate fleets and the associated ecosystem of service providers.

Focus Areas
· Testing a business model for the cooperative, cross-fleet use of electric vehicles in corporate fleets with up to 600 vehicles by 2015
· Creation of a software infrastructure for cross-fleet optimization of vehicle utilization and integration of services
· Development of IT-supported/based services for the efficient and economical operation of electric vehicles in fleets
· Development and testing of incentive schemes for the use of electric vehicles in corporate fleets
· Increasing the acceptance of electromobility among fleet operators
· Determining the necessary conditions for the transition of corporate fleets to electric vehicles

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· Technische Universität Berlin, Institut für Soziologie, Planungs- und Architektursoziologie

Associated Partner
· con energy unternehmensberatung gmbH & co. kg
E-BUS Berlin
Fully electric bus operations including recharging infrastructure

Brief Description
The project’s objective is the introduction of electric vehicles featuring innovative charging techniques in public transport and the demonstration of the use of inductive charging technology during ongoing operations.

Berlin's public transport association, the BVG, intends to establish an electric bus line including an inductive charging infrastructure. The battery capacity in buses can be reduced to a size of 90 kWh, thanks to opportunity-based charging.

Focus Areas
· Transition to a fully electric bus line by Berlin's public transport association, Berliner Verkehrsbetriebe (BVG)
· Wireless charging of busses at final terminals using an integrated inductive charging system
· Collection and evaluation of practical experience in day-to-day operations so as to be able to draw conclusions with regard to suitability for wider implementation.
· Demonstration of the added value resulting from zero-emissions and quiet vehicles as well as the unobtrusive integration of the charging infrastructure into the urban landscape

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Project Partners
· Vossloh Kiepe GmbH
· Solaris Deutschland GmbH
· Bombardier Transportation GmbH
· Technische Universität Berlin, Fachgebiet Methoden der Produktentwicklung und Mechatronik (MPM)
Electrifying Berlin's Vehicle Fleet

Brief Description
By converting up to 10% of Berlin's state fleet to sustainable drive technologies, this project is designed to foster the visibility and market penetration of electromobility.

The project supports the nationwide public procurement program of vehicles with alternative drive systems in keeping with the recommendations of the National Platform for Electric Mobility (NPE) and the goal of Germany's federal government to convert 10% of federal and state vehicle fleets as part of its Electric Mobility Program.

Focus Areas
· Support for a nationwide public procurement program of vehicles with alternative drive technologies (in accordance with the recommendations of the NPE) and the goal of the federal government to convert 10% of the federal and state vehicle fleets as part of the Electromobility Program.
· Contribute to the reduction of emissions in Berlin as well as climate protection (reduction of CO₂ emissions)
· Support the State of Berlin's role as a leader and role-model for reinforcing trust and acceptance of new technologies
· Testing of the everyday use of electric mobility in the public sphere

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Project Partners
· Berlin Senate Department for the Interior and Sports
· Berlin Districts
· Subsidiary Authorities
Electric Fleets for Berlin-Brandenburg

**Brief Description**

The project’s objective is the development, practical testing and establishment of e-fleets that take into consideration all the latest ICT developments and integrate them into the energy grid.

The primary aim is to boost the efficiency of electric fleets as part of an intermodal landscape of services. An additional idea is to increase user acceptance of the services by adding value via new technologies and attractive applications. The user-focused research accompanying the project will enable the identification of critical success factors for the upcoming market roll-out phase.

**Focus Areas**

- Practical testing of e-fleet-applications with large numbers of vehicles
- Integration and networking of e-fleets with public transport (intermodality and multimodality) and the Micro-Smart-Grid (see the project of the same name)
- Increase user acceptance by means of added value for customers (e.g., making e-vehicles LTE-capable providing a context-adaptive, intermodal e-mobility assistance systems for smartphones)
- User-focused research so as to identify critical success factors for the market roll-out (usage routines, stress)

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**Project Partners**

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- choice GmbH  
- Technische Universität Berlin - DAI-Labor  
- Innovationszentrum für Mobilität und gesellschaftlichen Wandel (InnoZ) GmbH
**Electric mobility for social welfare institutions**

**Brief Description**
This project seeks to test the day-to-day viability of electric mobility. In this case, three social-service institutions in particular will be supported in Berlin.

The goal is to demonstrate the reliability of electric mobility for day-to-day use and also to make it possible for a broad group of the population to gain experience with electric vehicles. Regular vehicle monitoring will contribute to a sustainable and future-oriented form of electric mobility featuring a high level of safety and security.

**Focus Areas**
- Organizing a test fleet consisting of a total of nine electric vehicles for three social service agencies in Berlin and the installation of a corresponding charging infrastructure (wall box system)
- Testing of the different applications and usage areas as well as the reliability of electric vehicles operating at a maximum over the course of three years
- Reduction of emissions and resources for sustainable mobility with a high degree of safety and security
- Developing new business models (e.g. dynamic carsharing) and new transportation concepts by means of telematics systems in electric vehicles and integrating them into associated projects

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- Nachbarschaftsheim Schöneberg Pflegerische Dienste gGmbH
- Björn Schulz Stiftung
- Urban Software Institute GmbH & Co. KG
Intelligent Mobility Station
Themed train station “Networked Mobility and Energy” (IMS)

Brief Description
The project’s objective is to equip, test and demonstrate Berlin’s Südkreuz train station as an intelligent intermodal transportation hub.

In order to reinforce intermodality in public transit, the idea is to use renewable energy generated within the urban center and combine it with innovative storage and charging systems in the public sphere.

The intelligent mobility station will thus offer a fully electric mobility experience that is powered by locally generated renewable energy.

Focus Areas
- Integration of electromobility in the public transport sector into the everyday operations of a transit station (eCarsharing, Pedelecs)
- Generate, store and distribute locally generated renewable energy for the CO₂ optimization of the electric carsharing fleet and the nearby retail shops
- Development of transferable business models for the implementation of Smart Grids in closed-loop distribution networks (airports, railway stations, hospitals, etc.)
- Implementation of a seamless chain of information at the train station by means of indoor navigation
- Development of a concept for linking the indoor navigation with existing information systems to form a seamless chain of information from door to door

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- Alcatel-Lucent Deutschland AG
- Reiner Lemoine Institut gGmbH
- Schneider Electric Deutschland GmbH

Associated Partners
- DB Energie GmbH
- DB Bahnpark GmbH/DB Fuhrpark Service GmbH
- DB Rent GmbH
- Contipark Parkgaragen GmbH
EBikePendeln—Driving Fun with Wind at Your Back
Electric bikes replace commuter cars in Berlin-Brandenburg

Brief Description
This project involves gathering as much experience as possible in the replacement of commuter traffic by means of Pedelecs. The Pedelec corridor will extend from urban structures in Berlin all the way to suburban communities in Brandenburg.

The individual, health-enhancing, environmentally friendly and space-saving Pedelec will be integrated into intermodal mobility concepts.

Focus Areas
· Installation of secure Pedelec parking places at selected S-Bahn and U-Bahn stations and central locations
· Setting up bike connections suitable for Pedelecs along the southwest corridor of Berlin (Steglitz-Zehlendorf District) and in the neighboring municipalities of Teltow, Kleinmachnow and Stahnsdorf
· Testing of Pedelecs on the commuter paths of employees at businesses along the corridor within the framework of operational mobility management
· Documentation of the use and acceptance of Pedelecs within the framework of targeted accompanying research
· Knowledge transfer to the overall Pedelec system by means of expert workshops, info events, the portal of the Berlin Senate Department for Urban Development and the Environment and via the bicycle knowledge portal of the Federal Governments National Bicycle Plan 2020 (nrvp.de/pedelec)

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· Hochschule für Bildende Künste Braunschweig, Institut für Transportation Design (ITD)
· team red Deutschland GmbH

Associated Partners
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· Brandenburg Ministry of Environment Health and Consumer Protection
· Brandenburg Ministry of Infrastructure and Agriculture
· Community Stahnsdorf
· Community Kleinmachnow
· Municipal Teltow
· Administrative District Potsdam-Mittelmark
· District Steglitz-Zehlendorf
Potsdamer Platz – Experience Berlin Sustainably

**Brief Description**
This project will develop a publically accessible communication and testing platform for new forms of mobility at Potsdamer Platz in Berlin. By means of this highly frequented platform, the idea is to measure and examine the trust in and acceptance of new technologies. This research will enable conclusions to be drawn on the suitability of electromobility for widespread adoption. The testing will be based on the everyday use of electric vehicles and the related infrastructure. Private and commercial users will be included in this process.

**Focus Areas**
- Development and creation of a communications and testing platform
- Testing of electric vehicles and infrastructure solutions in day-to-day use
- Analysis of the activities in the Potsdamer Platz quarter
- Development of a mobility concept for local company and residents that makes use of electric vehicles
- Development of more intermodal mobility offerings for visitors to the neighborhood
- Development of a public and semi-public infrastructure by means of joint projects
- Setting up and testing of an electric mobility concept for commercial fleet operators through project partners

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**Associated Partners**
- yoove Mobility GmbH
- ECE Projektmanagement G.m.b.H. & Co. KG
Framework Conditions for a Widespread Roll-Out of Mobility Ticket Solutions

Efficient incorporation of electromobility into transit systems through intermodal information, billing and sales systems

Brief Description
This project's goal is to develop the essential institutional and organizational basis for the introduction and offering of a cross-regional mobility ticket over the long term. The project links existing mobility offerings to one another and integrates eco-mobility offerings into the overall transportation network.
The project will provide recommendations with regard to the structure and implementation of integrated information, billing and distribution channels.

Focus Areas
- Development of a systemic approach with regard to the linking of existing mobility offerings – in particular public transport – with different types of electromobility
- Analysis of possible information and billing models for mobility ticket solutions
- Development of essential institutional and organizational basics for the introduction and sustainable management of a mobility ticket

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- KCW GmbH

Associated Partners
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- Berlin Senate Department for Urban Development and the Environment
- Verbraucherzentrale Bundesverband e. V. (vzbv)
Other Projects in the Berlin-Brandenburg Region

The impulses from the Electromobility Showcase will be used for the development of new projects

The Berlin Agency for Electromobility eMO coordinates and communicates the electromobility activities carried out within the framework of the Electromobility Showcase. However, it also initiates new electromobility projects for the capital region based on these activities. Strategically relevant projects are identified and developed all the way to the implementation stage. The region's goal until 2020 is to become an internationally acknowledged model for electromobility. To this end, it uses its potential in a determined way by initiating new projects and seeking to implement them by the year 2020 in a long-term way and to the benefit of business, environment and society. Three projects are described in more detail and act as examples:

• Initiatives Berlin Brandenburg: Electric Fleet Vehicles for the Capital Region

The goal of this project is to bring up to 500 commercial e-vehicles to the streets of the capital region. As part of this project, Germany's Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety covers 45 percent of the added costs of an electric vehicle or plug-in hybrid in comparison to conventional vehicles using combustion engines. The responsible partner handles the vehicle purchasing and leasing. The project will last from January 1, 2014 to December 31, 2016 and is aimed at all companies, institutions and public institutions from Berlin and Brandenburg interested in going electric with their fleets.

**Project coordination:** Berlin Agency for Electromobility eMO  
**Project partners:** X-Leasing GmbH, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Institut für Verkehrsforschung  
**Associated Partners:** Vereinigung der Unternehmensverbände in Berlin und Brandenburg e.V. (UVB), Industrie-und Handelskammer Berlin, Handwerkskammer Berlin, Innung des Kraftfahrzeuggewerbes Berlin the state of Berlin: represented by the Senate Department for Economics, Technology and Research, the state of Brandenburg: represented by the Brandenburg Ministry of Economics and Energy, Verein Berliner Kaufleute und Industrieller (VBKI), Elektro-Innung Berlin – Landesinnung für Elektrotechnik
**EMOBILITY WORKS: Integration of e-mobility in European municipalities and companies**

EMOBILITY WORKS is an EU-supported project designed to promote the long-term integration of electromobility in European municipalities and companies. The project fosters national and regional networks that integrate electromobility long-term into their planning based on their prior experiences and the resources available to them. Action plans for the integration of electromobility are in the works for Eberswalde, Hohen Neuendorf and Iserlohn, among others, and will serve as the basis for the targeted implementation of activities in the field of e-mobility even beyond the project period (March 1, 2014 to August 31, 2016).

**Project coordination:** Grazer Energieagentur GmbH (Austria)

**Project partner:**
- Berlin Partner for Business and Technology GmbH/Berlin Agency for Electromobility eMO (Germany), B.&S.U. Beratungs- und Service-Gesellschaft Umwelt mbH (Germany), Ecubasrl (Italy), Center for Renewable Energy Sources and Saving (Greece), Hermia (Finland), Monus Minek SEES (Estonia), Ramboll Finland Ltd (Finland), Alba LocalEnergy Agency (Rumania), FUNDACION SAN VALERO (Spain), Hydrogen Fuel Cells and Electromobility in European Regions – HyER (Belgium), Energetska agencija za Podravje (Slovenia)

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**Baden und Laden in Brandenburg (Trip’n Charge in Brandenburg)**

This project seeks to make electromobility visible and tangible for everyone. Berlin-Brandenburg citizens and visitors to the region take short trips and vacations with their own or rented bikes, cars, busses and trains to the rich landscape of the federal state with the most lakes in Germany. With the help of this initiative, which is financed by means of its own resources, people can discover the broad landscape of Brandenburg in an electro-mobile manner. At this point, roughly 20 charging points for e-vehicles have been installed at 17 tourist companies and locations in the state of Brandenburg where they can be used by guests. Other destinations are set to be added to the project throughout its duration (March 4, 2014 until December 31, 2015).

**Project Coordination:** TMB Tourismus Marketing Brandenburg GmbH

**Project Partners:** Berlin Agency for Electromobility eMO, DriveNow GmbH & Co. KG
Partners of the Berlin-Brandenburg Showcase

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- Berlin Districts
- District Authority Steglitz-Zehlendorf
- Björn Schulz Stiftung
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- Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
- Federal Ministry of Transport, Building and Urban Development
- Federal Ministry of Economics and Technology
- Bundesverband Solare Mobilität e.V.
- Bundesvereinigung der Fahrlehrerverbände e.V.
- DEKRA e.V.
- Fahrlehrer-Verband Berlin e.V.
- Municipal Kleinmachnow
- Municipal Stahnsdorf
- Handwerkskammer Berlin
- Innung des Kraftfahrzeuggewerbes Berlin
- KoNaMo – Kompetenznetzwerk Nachhaltige Mobilität eG
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- Brandenburg Ministry of Environment, Health and Consumer Protection
- Brandenburg Ministry of Economics and Energy
- Berlin Senate Department for Labor, Integration and Women's Issues
- Berlin Senate Department for Education, Youth and Science
- Berlin Senate Department for the Interior and Sports
- Berlin Senate Department for Urban Development and the Environment
- Berlin Senate Department for Economics, Technology and Research
- Municipal Teltow
- Verband der TÜV e. V. (VdTÜV)
- Verbraucherzentrale Bundesverband e.V. (vzbv)
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- Adam Opel AG
- Alcatel-Lucent Deutschland AG
- Audi AG
- AWU Abfallwirtschafts-Union Oberhavel GmbH
- B2M Software AG
- Berliner Hafen- und Lagerhausgesellschaft mbH
- Becker Büttner Held Consulting AG
- Becker Büttner Held Rechtsanwälte Wirtschaftsprüfer Steuerberater
- Berliner Energieagentur GmbH
- Berliner Stadtteilreinigungsbetriebe Anstalt öffentlichen Rechts
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- BGZ Berliner Gesellschaft für Internationale Zusammenarbeit mbH
- BLS Energieplan GmbH
- BMW AG
- Bombardier Transportation GmbH
- Bosch Software Innovations GmbH
- Castellan AG
- choice GmbH
- Citroën Deutschland GmbH
- con energy Unternehmensberatung GmbH & Co. KG
Companies (in alphabetical order):

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- CTM Fahrzeugbau GmbH
- Daimler AG
- DB BahnPark GmbH
- DB Energie GmbH
- DB Fuhrpark Service GmbH
- DB Rent GmbH
- DB Station & Service AG
- Deutsche Post AG
- DHL Solutions Fashion GmbH
- E.ON edis AG
- E.ON New Build & Technology GmbH
- ECE Projektmanagement G.m.b.H. & Co. KG
- eM-Pro Elektromobilität GmbH
- Enertrag AG
- envia Mitteldeutsche Energie AG
- GASAG Berliner Gaswerke Aktiengesellschaft
- German E-Cars GmbH
- German E-Cars Research & Development GmbH
- GridLab GmbH
- HaCon Ingenieurbüro mbH
- Hermes Logistik Gruppe Deutschland GmbH
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- Deutsches Institut für Urbanistik gGmbH
- Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) Institut für Verkehrsforschung
- Energieversorgungsnetze und Integration Erneuerbarer Energien (SENSE)
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- GFBM Akademie gGmbH
- Hochschule für Bildende Künste Braunschweig, Institut für Transportation Design (ITD)
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- Innovationszentrum für Mobilität und gesellschaftlichen Wandel (InnoZ) GmbH
- Internationale Akademie für innovative Pädagogik
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- Technische Universität Berlin
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Showcase Berlin-Brandenburg

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