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BOMBARDIER PRIMOVE to Provide Wireless Charging and Battery Technology to Berlin

March 18, 2015 — Berlin
Transportation, Press Release

- Installation of first *PRIMOVE* charging station in Berlin begun
- Passenger revenue service to start in summer 2015
- Expected CO2 savings of around 260 tons per year

Berlin will be the first capital city to turn a complete bus line into an eco-friendly route using e-buses with the wireless *PRIMOVE* charging system and the compact *PRIMOVE* battery system. Starting in summer 2015, passengers on the city centre bus line 204 will be able to enjoy a quiet and zero-emission ride through Berlin. The



1 of 5 : Jérémie Desjardins, Business Leader PRIMOVE at Bombardier Transportation explains fast inductive charging with the PRIMOVE system in Berlin

German Federal Ministry of Transport and Digital Infrastructure (BMVI) is supporting the project in the context of the "International Showcase Programme for E-mobility Berlin Brandenburg".

↓ [Low Resolution \(101 KB\)](#)

↓ [High Resolution \(4 MB\)](#)

On the occasion of the installation of the inductive charging pad at Berlin's first charging station today, the project partners Berliner Verkehrsbetriebe (BVG; Berlin public transport authority), Technical University (TU) Berlin and Bombardier Transportation invited representatives from the BMVI, the City of Berlin and media to inform them about the technical details of the wireless charging technology, the current project status and the further project milestones. At the event, guests had the rare opportunity to inspect the charging pad, which will be invisibly embedded under the ground in just a few days. The precast charging pad weighs seven tons, is five meters long, two meters wide and 25 centimetres thick.

Bombardier's innovative *PRIMOVE* system charges the Berlin buses' batteries at 200 kW in the very few minutes of dwell time spent at the end stations. This allows the e-buses to serve the 6.1 km long bus line back and forth – without additional stops or battery changing for an entire day. As with an electric toothbrush, charging works without a cable connection. As soon as the e-bus is positioned over the underground charging pad, the pick-up coil mounted on the underside of the vehicle lowers. The inductive energy transfer begins, generating an electromagnetic field. This poses no danger to drivers, passengers or pedestrians – or even to people with pacemakers. With the optimization of the transfer frequencies and advanced shielding, the charging system falls well below the very strict European limit values for electromagnetic emissions.

Starting in April 2015, additional *PRIMOVE* charging stations will be installed at the route's second end stop as well as at BVG's bus depot where the four e-buses will be based. The e-buses will be built this spring by the Polish manufacturer Solaris. The twelve meter long vehicles are equivalent to the Urbino 12 electric bus equipped with *PRIMOVE* charging and batteries, which has been in successful passenger operations in Braunschweig, Germany, since March 2014. The delivery of the first e-bus to the Bombardier site in Mannheim, Germany, for final coordination of the technical components is planned for May 2015. Following this, the vehicles will be delivered to Berlin for approval and commissioning. In summer 2015, passenger operations on route 204 will commence.

Berlin's new fleet of e-buses will save around 260 tons of CO₂ per year. In order to achieve the same effect, around 250 private cars in Berlin, on the basis of normal driving behaviour, would have to be switched to electric mode.

Further material:

Can an electric bus compete with a diesel bus in daily operation? You'll find the answer in [this video](#).

How cities already benefit from the convenient zero-emission *PRIMOVE* e-mobility solutions can be seen in [this video](#) about the *PRIMOVE* project in Braunschweig, Germany.

About the *PRIMOVE* Portfolio

With its flexible *PRIMOVE* portfolio, Bombardier offers the world's only one-stop shop for true e-mobility. The fully integrated system for electric rail and road vehicles allows cities and the transport industry to easily incorporate electric mobility. The complete package includes the inductive *PRIMOVE* fast charging system, the lightweight, long-life *PRIMOVE* batteries and the efficient *PRIMOVE* propulsion.

Other *PRIMOVE* Projects

The first *PRIMOVE* 12 meter long e-bus has successfully served passengers in Braunschweig, Germany since March 2014. In December 2014, the world's first 18 meter articulated e-buses complemented passenger operations in Braunschweig. Bombardier is currently also working on implementing its *PRIMOVE* system for electric buses in Mannheim, Germany, and in Bruges, Belgium. For the booming Chinese city of Nanjing, trams have been equipped with lightweight and long-life *PRIMOVE* batteries. In addition, tests with a dynamically charged truck were successfully completed in Mannheim in January 2014.

About Bombardier Transportation

Bombardier Transportation, a global leader in rail technology, offers the broadest portfolio in the rail industry and delivers innovative products and services that set new standards in sustainable mobility. *BOMBARDIER ECO4* technologies – built on the four cornerstones of energy, efficiency, economy, and ecology – conserve energy, protect the environment and help to improve total train performance for operators and passengers. Bombardier Transportation is headquartered in Berlin, Germany, and has a very diverse customer base with products or services in more than 60 countries. It has an installed base of over 100,000 vehicles worldwide.

About Bombardier

Bombardier is the world's largest manufacturer of both planes and trains. Looking far ahead while delivering today, Bombardier is evolving mobility worldwide by answering the call for more efficient, sustainable, and enjoyable transportation everywhere. Our vehicles, services and, most of all, our employees are what make us a global leader in transportation.

Bombardier is headquartered in Montréal, Canada. Our shares are traded on the Toronto Stock Exchange (BBD) and we are listed on the Dow Jones Sustainability World and North America Indices. In the fiscal year ended December 31, 2014, we posted revenues of \$20.1 billion. News and information are available at bombardier.com or follow us on Twitter [@Bombardier](https://twitter.com/Bombardier).

Notes to Editors

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