

BRUGES, BELGIUM

# PRIMOVE E-BUS

E-mobility for UNESCO World Heritage city



Clean, quiet and convenient, the **BOMBARDIER PRIMOVE** wireless charging system is perfectly suited for Bruges, Belgium, with its well-preserved historic city centre attracting millions of tourists every year.

The only mode of public transit in Bruges is buses. With an historic city centre recognized as a UNESCO World Heritage Site, Bruges is shifting from conventional bus operation to quiet and emission-free electric bus service. The invisible and efficient

*PRIMOVE* wireless charging system for electric buses allows seamless integration, thereby enhancing historic urban environments like Bruges.

Together with Belgian transport operator De Lijn, bus manufacturer Van Hool and battery supplier Emrol, we will equip three 9.7-metre electric buses with our *PRIMOVE* charging technology. The smaller city buses are a perfect fit for Bruges's historic narrow streets, as is the *PRIMOVE* 200 system for mid-size e-buses. The three e-buses will serve a 3.2-kilometre line with 5 stops.



 <b>Bus line<sup>1</sup></b> Journey time	<b>3.2 km</b> between 10 and 15 minutes
 <b>Depot</b> Charging time	<b>2</b> 5-12 minutes
 <b>Potential bus stops</b>	<b>5</b>

<sup>1</sup>Project status as of October 2015. Bus route and connected parameters subject to change.

### Customized fast charging

During daily passenger operations, the batteries will be recharged in the depot using *PRIMOVE* fast high-power inductive charging. The dwell times at the depot provide sufficient time to top up the batteries for uninterrupted service. For the preparation of the e-buses at night, they will be charged conductively.

#### The PRIMOVE e-bus in facts

<b>Bus</b>	Van Hool A308-EV 9.7 m • Weight (empty): 11,420 kg • Capacity: 17 seated, 38 standing
<b>Charging system</b>	<i>PRIMOVE</i> charging 200 • Charging power: 200 kW • Efficiency: > 90% • Grid connection: 750 V DC
<b>Battery system</b>	EMROL • Type: Li-ion • Capacity: 36 kWh • Voltage: 500 to 720 V
<b>Propulsion system</b>	Siemens • Nominal drive: 160 kW • Auxiliary power supply: 400 V AC • Supply: 24 V DC

#### Bombardier Transportation

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