

SÖDERTÄLJE, SWEDEN

PRIMOVE E-BUS

Scandinavia's First Inductively Charged Bus Line







An electric hybrid bus equipped with *Bombardier's* innovative *PRIMOVE* inductive charging system is running in Södertälje, Sweden, making it the first municipality in Scandinavia to feature a wirelessly charged bus line.

Since February 2017 the citizens of the Swedish city Södertälje are able to enjoy better air quality and less traffic noise. On route 755, between Södertälje Syd and Astrabacken/Tom Tits a new electric hybrid bus by commercial vehicle manufacturer Scania, equipped

with the inductive *PRIMOVE* charging system, is reducing emissions in the city.

To facilitate the new bus, the end stop of the route has been converted into a charging station that will enable the vehicle to quickly and conveniently recharge its batteries each time it stops there. With up to 200 kW of power, the charging station can supply enough energy to serve the entire 10 km-long route in just six to seven minutes. The charging station is owned and operated by Swedish energy supplier Vattenfall while a second charging station has been installed at the Scania test track in Södertälje.



	Bus line Journey time Headway	10 km Approx. 34 minutes 20 minutes (peak time) 30 min (off-peak)
	End stop Charging time	1 6-7 minutes
	Testing & R&D	1
	Bus stops (total)	4
	Number of e-buses	1

Versatile technology for a sustainable city

This project had been initiated by a project group, led by Scania, which has been investigating alternative mobility solutions to make mobility in Södertälje more sustainable. As a result, it was decided to install the *PRIMOVE* wireless charging system to a rechargeable hybrid bus.

A partnership for modern transport

To facilitate this project, Scania is cooperating with Vattenfall, the KTH Royal Institute of Technology in Stockholm, the Stockholm regional public transport operator SL and the Municipality of Södertälje.

The PRIMOVE e-buses in facts

Bus	SCANIA HYBRID citywide (12.0 m) • Weight (empty): 19,500 kg • Capacity: 31 seated, 27 standing
Charging system	<i>PRIMOVE</i> charging 200 • Charging power: 200 kW • Efficiency: > 90% • Grid connection: AC 400 V
Battery system	VSC BATTERY SYSTEM • Type: Li-ion • Capacity: 56 kWh • Voltage: 661 V
Propulsion system	SCANIA hybrid propulsion system 12 m • Electric power train: 130 kW • Combustion engine: 320 HP • Auxiliary Operating Supply Voltage: 400V AC • 24 V DC supply

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