

## 新闻稿

Oct 24, 2013 | 编号: 134698

# Volvo Car Group completes successful study of cordless charging for electric cars

Volvo Car Group has been a partner in an advanced research project that has studied the possibilities of inductive charging for electric vehicles – and the results show that this technology for transferring energy via an electromagnetic field has a promising future.

“Inductive charging has great potential. Cordless technology is a comfortable and effective way to conveniently transfer energy. The study also indicates that it is safe,” says Lennart Stegland, Vice President, Electric Propulsion System at Volvo Car Group, and adds “There is not yet any common standard for inductive charging. We will continue our research and evaluate the feasibility of the technology in our hybrid and electric car projects.”

### **Cordless charging**

Inductive charging uses an electromagnetic field instead of a cord to transfer energy between two objects. An induction coil creates an alternating electromagnetic field from a charging base station. A second induction coil in the portable device picks up power from the electromagnetic field and converts it back into an electrical energy that charges the battery. This technology is common in electrical home appliances such as electrical toothbrushes but is not yet commercially available to charge electric cars.

“With inductive charging, you simply position the car over a charging device and charging starts automatically. We believe that this is one of the factors that can increase the customer’s acceptance of electrified vehicles,” says Lennart Stegland.

### **Research in Flanders**

The completed research project, which included inductive charging for cars and buses, was initiated by Flanders’ Drive, the knowledge centre of the automotive industry in the Flanders region in Belgium. It featured a consortium of companies, including Volvo Car Group, Bombardier Transportation and the coachbuilder Van Hool. The project was partly funded by the Flemish government. Volvo Cars supplied the car for the inductive charging project: a Volvo C30 Electric with a power output of 89 kW (120 hp).

“The tests demonstrated that our Volvo C30 Electric can be fully charged without a power cable in app. 2.5 hours. In parallel with this, we have also conducted research into slow and regular charging together with Inverto, which was also a partner in the project,” says Lennart Stegland.

### **Volvo Cars has focus on electrification**

Volvo Cars’ ambitious strategy for electrification has also resulted in the successful launch of the fast-selling Volvo V60 Plug-in Hybrid, which entered series production in 2012.

The company has initiated strategic co-operation with Siemens in order to develop electrical drive technology, power electronics and charging technology as well as the integration of these systems into electric vehicles.

## 关键词:

Environment, Technology, Concepts, Sustainability, Press Releases

---

本新闻材料中的描述和事例与沃尔沃汽车公司国际系列车型相关, 描述的配置可能是选则性的, 产品规格可能在各国不尽相同或发生变化, 恕不另做通知。

[media.volvocars.com](https://media.volvocars.com) >

[volvocars.com](https://volvocars.com) >

Copyright © 2025 Volvo Car Corporation (or its affiliates or licensors).