

World premiere in Amsterdam

NewMotion participates in Dutch Vehicle-to-Grid pilot

NewMotion, Europe's biggest provider of smart and safe charging solutions for electric driving, installed the world's first public charge points that can charge electric vehicles *and* deliver electricity back to the grid by using Vehicle to Grid (V2G) technology.

The company participates in a pilot in Amsterdam and teams up with energy company Alliander, technology company Enervalis and innovation platform Amsterdam Smart City.

With V2G technology, electricity stored in the batteries of electric cars can be made available to the grid at times of high demand. In case of low demand, electric vehicles can be recharged. In the future, electric drivers using this technology can receive a fee for their contribution to the grid. In addition, grid operators can use the storage capacity of electric cars to balance peaks and troughs in energy supply and demand. The pilot in Amsterdam is part of the City-Zen project, which aims to create more energy-efficient cities. The first results of the V2G-pilot in Amsterdam are expected at the end of February 2018.

Broad deployment of V2G

Most of the V2G-charge points used in this pilot are located at public locations throughout Amsterdam. There are also charge points at the offices of accounting firm PwC and at a large sports facility, where electric vehicles can be either charged or provide electricity directly to the internal network of these organizations. This is called *Vehicle to Office*. NewMotion CEO Sytse Zuidema: "In the Netherlands alone, we're expecting to have around one million electric vehicles in 2025. At the same time, decentralized generation of electricity through solar panels and wind turbines is responsible for an ever increasing share of the total electricity supply. Due to the irregular availability of sun and wind, it is imperative that storage capacity becomes available so that sustainably generated electricity can be stored for peak moments in energy demand. These developments pave the way for the broad deployment of V2G technology." The pilot in Amsterdam is one of the projects in which innovation platform Amsterdam Smart City (ASC) participates. ASC's Annelies van der Stoep says: "V2G is definitely one of the technologies that can make an important contribution to sustainable and energy-efficient cities. We are proud to be part of this world premiere."

Potential backup

The primary goal of the pilot in Amsterdam is to test V2G technology. Marisca Zweistra of energy company Alliander says: "In close collaboration with our partners, we are testing the impact of V2G on the low-voltage network. In addition, we want to see whether V2G has potential as a back-up in the event of electricity failures and if more of the self-generated solar energy at

offices can be used for the electricity supply of these locations. If this is the case, there will be less load on the grid and as a result, fewer expensive power cables will have to be installed.”

Note to editors:

For more information, please contact Estee Chaikin (NewMotion) at + 31 6 3192 0720) / e.chaikin@newmotion.com.