

## WATTBOOSTER vehicle charging stations opt for Socomec

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**SOCOMECS SUNSYS PCS<sup>2</sup> bidirectional converter has been selected for the electric vehicle charging stations of three WATTBOOSTER pilot projects in Slovakia and Poland.**

Greenhouse gas emissions are directly responsible for global warming. Their reduction is a major global priority. A substantial part of this problem is linked to the pollution generated by internal combustion vehicles. Electric vehicles provide an available, ecological and responsible response to stop these negative external costs.

The **widespread introduction** of fast and intelligent charging networks is the central element of the electric vehicle challenge. This is the reason why the WATTBOOSTER project has decided to set itself the following objective: **to boost the charging stations** of conventional electric vehicles by equipping them with renewable energy production facilities and **storage systems**. The aim of this system is to optimise the energy produced and consumed locally.

The originality of the initiative is based on the **upgrading of existing charging stations**. **The number of electric vehicles using the station can be doubled without the need** to resize the connection to the public grid. The consumption of locally produced energy is optimised. The other innovative aspect of the project is based on the **use of used batteries** from electric vehicles. After a few years of operation, electric vehicle batteries can no longer provide sufficient performance for electro mobility. They can however be given a **second life in static storage systems**. As a result, WATTBOOSTER has improved the availability of the charging station and **reduced energy costs**.

WATTBOOSTER's stated goal is to equip 1000 charging stations by 2025 in the European Union and Great Britain. The prospects for strong growth in electric vehicles in the coming years are encouraging promoters of faster, more flexible, more economical and more ecological charging solutions.

The SUNSYS PCS<sup>2</sup> 66kVA bi-directional converter from Socomec is the core of the charging station. It enables:

- **to store energy** in batteries when local production and electricity supplied by the grid exceed consumption,
- **to reinject it** when the consumption for recharging vehicles is higher than the combination of production + grid supply.



The charging station is **connected to a cloud server** hosting a peak clipping algorithm to control the limitation of power demand from the network. These initial pilot projects allowed all the components of the WATTBOOSTER project to be tested.

[Find out more about the SUNSYS PCS<sup>2</sup> converter](#)

### SOCOMECS: When energy matters

Founded in 1922, SOCOMECS is an independent, industrial group with a workforce of 3600 people spread over 28 subsidiaries in the world. Our core business – the availability, control and safety of low voltage electrical networks with increased focus on our customers' power performance. In 2018, SOCOMECS posted a turnover of 537M€\*.



POWER SWITCHING



POWER MONITORING



POWER CONVERSION



ENERGY STORAGE



EXPERT SERVICES

\*Estimated 2018

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