New EV charging infrastructure solutions for UK market

A new range of multi-standard rapid charging points for electric vehicles is unveiled this week at LCV2013 at the Millbrook Proving Ground (4-5 September). The equipment is now available from Siemens as a result of an exclusive agreement for UK distribution rights with the Portuguese Group Efacec, the country’s largest in the field of electricity and electronics, and customised solutions for energy, mobility and the environment.

Fully-approved to OLEV specifications, the infrastructure technology is supported and maintained by Siemens’ 24/7 in-house contact centre capabilities and comprehensive service packages, all tailored to meet individual customer requirements and ensure maximum system availability and safety. All new charging units can be fully connected to Siemens or third party back-office systems to provide Pay As You Go access and collection of rich usage data providing increased customer access and interesting insight on utilisation of charging equipment, vehicles’ charging patterns and the impact on the electricity grid.

The new range of industry leading charging technology from Efacec includes both modular DC and AC variants for all types of charging standards including CHAdeMO and CCS COMBO 2 options. For slow or fast charging, the AC Charger with single or dual outlets provides single phase 3.6 kW up to three phase 22 kW charging output and can be floor standing, pole or wall mounted. Combining AC and/or DC fast charging both modular DC 20kW and DC 45kW chargers provide charging times of just 20 and 40 minutes depending on EV type and can be kiosk or non-kiosk in configuration.
According to Manuel Pedro Fernandes, EV Charging - Business Development at Efacec, as a key innovator and provider in the electric vehicle infrastructure market, Siemens is committed to the delivery of sustainable and long-term solutions.

‘The EV infrastructure market is now moving away from the initial wave of low power underutilised on-street equipment. EV charging equipment manufacturers, drivers and infrastructure owners are now demanding more powerful fast charging units that provide drivers and operators with improved and easier access to enable greater range and increased flexibility’, he said.

This requirement for fast charging and improved access leads to the provision of fully network solutions both at an energy/load management level and at customer access level for increased payment options, availability status and reservation’, he added.

According to Efacec, there are a number of positive factors that provide confidence to long-term market sustainability and growth. These include continued growth in new EV registrations and an increasing number of affordable, purpose-built EVs launched by major car manufacturers and more planned. In addition, from 06 April 2015, EV fleet drivers will pay significantly less tax than petrol or diesel drivers and OLEV have made £37M government grants available for EV infrastructure development for the next two years - targeted at on-street residential charging, government buildings, train station car parks and rapid charging.

Siemens is now one of the major suppliers in the growing UK Electric Vehicle Infrastructure market. The company’s success has been built on operating Source London, Europe’s largest EV membership scheme with over 1100 charge points, and providing high-end charging equipment and services to leading utility companies and local authorities.
In Corby, a new network of Siemens EV charging points for electric vehicles has recently been installed by Siemens as part of an agreement with Electric Corby with the support of Corby Borough Council. Seventeen 3-phase AC chargers and one DC rapid charger are currently installed at fourteen different sites including a fourteenth century public house in Rockingham, parking bays and associated services at Rockingham racetrack and a 50kW rapid charger in a central location in the town of Corby.

Siemens charging solutions are designed, built and installed for long term field deployment and high level of usage making them sustainable long-term technology choices.

Siemens Mobility and Logistics Division
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EFACEC has long experience in power electronics design and industrial product manufacturing which allows us to successfully make our own product development and engineering. Currently EFACEC EV charging family has 3 product lines, Home Charging, Normal Public Charging and Fast Charging. EFACEC has started the EV charging program in 2008 developing solutions and products for the different EV charging market segments.