

Dortmund's future-oriented development at Lake Phoenix to incorporate Smart Grid

Dortmund utility DEW21 chooses PPC's BPL technology for its futuristic Smart Energy Project

Mannheim, 17 January 2012 +++ Dortmunder Energie- und Wasserversorgung GmbH (DEW21) has chosen PPC's technology for a future-oriented smart energy project at Lake Phoenix in Dortmund.

The site of the giant Hermannshuette steelworks is one of Germany's largest urban development projects; a futuristic location for technology and quality of life.

Using PPC's innovative Broadband Powerline technology, DEW21 will create a Smart Grid infrastructure as the basis for sustainable energy usage, starting with Smart Metering and gradually expanding to include the integration of renewable power generators in the grid around Lake Phoenix.

The Project is underway since the start of 2012. PPC presented its latest BPL technology developments, as well as the Smart Grid project at Lake Phoenix during the E-world energy & water 2012 in Essen. (7th – 9th February 2012, Hall 2 / Stand 2-429).

For DEW21, the Smart Energy reference project "Smart-Phoenix" not only provides the opportunity to roll out a smart metering infrastructure, but also provides the chance to evaluate the various other Smart Grid applications – whether it is substation monitoring, the integration of distributed generators, such as solar panels and micro-CHPs, Smart Home applications or e-vehicles.

"There are two reasons why we chose BPL technology", explains Roland Brüggemann, Head of Information Transmission Technology and Project Manager at DEW21 "Firstly, we wanted a future-proof solution – the BPL infrastructure offers an IP-based transfer of data and is therefore open to different applications which go far beyond Smart Metering. Secondly, a BPL infrastructure is also economically sound, as it uses the existing infrastructures of the low and medium voltage grids to transfer data."

Additionally, PPC's BPL technology already meets the Security Profile requirements proposed by the BSI (Federal Office for Information Security), such as the ability to transfer TLS encrypted data (TLS = Transport Layer Security).

Press Release



DEW21

The Dortmunder Energie und Wasserversorgung GmbH (DEW21) has more than 1,000 employees and supplies around 330,000 households in the Dortmund region with electricity, natural gas, heat and water. Conscious of its social responsibility towards climate change, DEW21's corporate mission aims to use its know-how as a sustainable thinking energy company, to provide advanced, energy saving services and the increased production of energy from renewable sources to ensure a responsible use of natural resources. DEW21 invests nationwide: currently producing four wind parks in, for example, Saxony-Anhalt and the Eifel region, landfill gas plants, the Westphalia water works and photovoltaic systems in urban areas which produce around 200 GWh of electricity per year. In 2020 the proportion of energy from renewable energies should represent at least 25 per cent.

Power Plus Communications (PPC)

Power Plus Communications, Mannheim (www.ppc-ag.com), is a leading provider of Broadband Powerline communications systems (BPL) for Smart Metering and Smart Grids. Both Managing Directors Ingo Schönberg (CEO) and Eugen Mayer (COO) have led the company since its foundation in 2001. PPC's other shareholders include employees and Climate Change Capital Private Equity, the PE investment fund of London-based Climate Change Capital Group (CCC), who has invested more than US\$1.6 billion in the clean tech industry.

PPC's Broadband Powerline Technology (BPL) provides utilities amongst others a powerful solution for the required meter reading in Europe. The open, standards-based BPL communications technology uses the existing electricity grid. Actual consumption data from an electronic meter is transferred over the grid to the utility via a Gateway located in the house. This is done in real-time, encrypted and via Internet-Protocol. As a pioneer of BPL technology, PPC has outstanding experience and expertise and has already developed BPL networks on electricity grids supplying more than 500,000 households. PPC is a partner in multiple Smart Grid projects such as E-Energy (Germany), DG Demogrid (Austria) and the 'Low Carbon Network Fund' (Great Britain). PPC has also received numerous awards for its innovative products and solutions, including for example, the "potential innovation" award from the German Chambers of Industry and Commerce (DIHK) as one of the ten most innovative companies in Germany, as a "Landmark" by the initiative "Germany, Land of Ideas" and the "Guardian Global Cleantech 100".

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