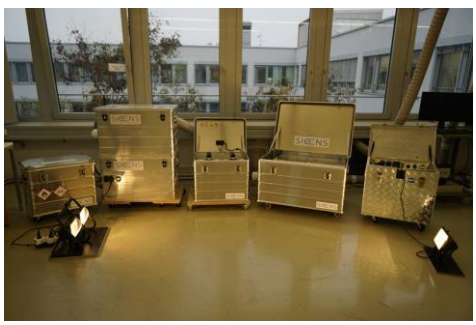
Newsletter 2/2016

Siqens presents at the Shanghai New Energy Auto Show 2016

Managing director Lars Behrend demonstrates how the Ecoport 800 doubles the range of battery-driven delivery vehicles

Siqens took part in a joint business trip to China at the beginning of November as one of ten companies. The intention of the trip was to explore the opportunity of the rapidly growing electric mobility market in China. Managing director Dr. Lars Behrend met automotive company executives, government agencies and universities during stopovers in Beijing and Shanghai. The highlight of the trip was visiting the New Energy Auto Show in Shanghai. Dr. Behrend presented driving cycle simulations of electric vehicles with Siqens' new fuel cell, the Ecoport 800, as a new concept to ensure full range in all driving situations. Even though batteries performance is increasing, their low energy density remains a challenge. A liquid fuel such as methanol has a 15 times higher energy density than next-generation lithium ion batteries. The use of methanol as a source of electricity and heat will make the extended range of electric vehicles more cost-efficient in the future. Dr. Behrend presented the new hybrid concept in Shanghai and demonstrated how even a small combined heat and power unit such as the Ecoport 800 can clearly increase the range of electric vehicles, especially in winter or heavy traffic situations. The unpredictable range in different driving conditions prevents many consumers from switching to e-mobility. Siqens' goal for the coming months is to verify the results from the simulation by means of a test vehicle.

New Ecoport hybrid system completes first autonomous field test



The Ecoport 800 proves its capability as part of the innovative 2 kW lithium ion hybrid system.

Following field tests of the new Ecoport 800 system in the spring and summer of 2016, Siqens has now successfully completed tests with an Ecoport hybrid system using a homegrown battery solution. The battery, together with the Ecoport 800, will be commercially available next spring. Re-charging of the battery takes place via the Ecoport 800, photovoltaic or normal power sockets. The Ecoport hybrid solution delivers 4 kW peak power, up to 2kW for 1.5 h and can be re-charged in 2,5h by the methanol fuel cell. The Ecoport hybrid system is developed for AC units as used in construction, infrastructure maintenance, (such as railways, roads, networks) or in horticultural companies. Michael Mozer from Gartenbau Mozer, a Siqens test partner, was full of praise: "Quite often, we are working far from any power grid. Now, we always have a reliable power supply. "

Siqens nominated for the Global Cleantech Top 100

We now belong to the global Cleantech companies with the best market prospects!

Siqens has been nominated for the list of the best Cleantech companies worldwide, the Global Cleantech Top 100. The finalists will be chosen from current list of 250 companies during the Cleantech Forum San Francisco. The forum takes places from January 23-25, 2017 in Hilton Parc 55, San Francisco. Every year, the Cleantech Group names 100 innovative companies, who, according to experts, have the greatest market potential over the next 5 to 10 years. The assessment system includes nominations from the Cleantech Community as well as high-ranking expert committees. You can find the full list of "GCT Top 100 Ones to Watch" here.

About Siqens

Siqens is a German start-up which provides self-sufficient energy systems. The company combines solar power and batteries with a small fuel cell to achieve total self-sufficiency. Siqens developed the fuel cell, which bridges the gap between solar or wind energy provision. After carrying out substantiated research and development and multiple field tests, the company is now preparing to enter the market.

In 2012, Siqens received the f-cell award for its new technological approach to fuel cell technology. In the spring of 2015, Siqens was chosen by a European Union commission of experts, as one of very few German companies, as a recipient of the 'Horizon 2020/SME Instrument' funding programme. With this programme, the EU honours leading innovators and financially supports the development of excellent technical innovations into marketable products.