



Press Release +++ Hannover Fair 2016 – Energy Efficient Industrial Megawatt Fuel Cell Power Plant+++

**FuelCell Energy Solutions (FCES) at Hannover Fair 2016**  
**First Megawatt industrial fuel cell power plant**

*The largest fuel cell module in Europe was delivered by FuelCell Energy Solutions (FCES) to Friatec AG in Mannheim, Germany, in February 2016. Once the plant is going operational in summer FCES will exceed for the first time the megawatt threshold.*

**Dresden, March 2016 – A further increase in energy efficiency is essential for the energy policy objectives of Germany. The German industry has a key role as one of the largest energy consumers. High performance fuel cell power plants can contribute significantly to a clean and efficient energy generation. With the current CHP law (KWKG 2016) in Germany electricity can be generated for less than 10 cents per kilowatt hour. Already in February 2016 Europe's largest fuel cell module was delivered to Friatec AG in Mannheim, Germany by FuelCell Energy Solutions (FCES) which is located in Dresden. The fuel cell is now being built by E.ON Connecting Energies, E.ON's subsidiary for integrated energy solutions, and will go operational in summer 2016. With a rated capacity of 1.4 MW the fuel cell of FCES exceeds for the first time the megawatt threshold in Europe. In the future the natural-gas powered fuel cell will supply the specialist of corrosion-resistant and wear-resistant materials with around 11.2 GWh of electricity and 6,000 MWh of thermal energy for self-consumption. To help the innovative technology to the broad breakthrough, FCES provides industrial customers very flexible leasing and contracting solutions as well as the operation under a Power Purchase Agreement (PPA). (hall 27, booth J50/8; hall 27, booth B40)**

Because of its continuous availability fuel cells can be used in all industrial sectors with a high base load for electricity and heat. The 1.4 MW unit built at Friatec AG has an electrical efficiency of 47 % and will cover about 60 % of the total energy requirements for the production processes. „Our production



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processes require a large amount of power and heat, so we are very happy to have the opportunity to utilize fuel cells to generate these necessities as efficiently and as cleanly as possible to advance our environmentally-friendly production processes.“ says Klaus Wolf, CEO of Friatec AG. The company will reduce its CO<sub>2</sub> emissions due to the simultaneous use of heat and electricity by about 3,000 tons annually.

### **Industrial use of process heat**

Basically, the process heat of the fuel cell with up to 400 °C produced in the non-combustion power generation can be further utilized as steam, hot water or cold via a heat exchanger in the industrial production processes. Therewith the systems achieve a high overall efficiency of over 90 %. The 24/7 monitoring by FCES ensures the optimal control of the systems even without own operating personnel at all times.



BU: Already this summer the fuel cell module delivered in February will go operational at Friatec AG, Mannheim.

### **About FuelCell Energy Solutions GmbH**

FuelCell Energy Solutions manufactures, sells, installs, and services stationary fuel cell power plants that efficiently and economically generate electricity and usable high quality heat suitable for making steam. Administrative offices are located in Dresden, Germany and manufacturing operations are located in Taufkirchen, Germany. Continuous power generated at the point of use with the virtual absence of pollutants supports energy security and power reliability as well as sustainability initiatives. Ultra-Clean baseload distributed generation is attractive to electric utilities, universities, hospitals,



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government facilities, industrial operations and other locations with significant power needs. For more information please visit our website at [www.fc.es.de](http://www.fc.es.de)

### **About E.ON Connecting Energies**

E.ON Connecting Energies is a member of E.ON Group and specializes in integrated energy solutions for industrial, commercial and public-sector customers. The company designs, finances, installs and operates systems and equipment that deliver lasting reductions in energy consumption and CO2 emissions as well as life-time cost savings.

### **About FRIATEC AG**

FRIATEC AG is a specialist company for products made of non-corroding and wear-resistant materials. Based in Germany, the Company serves global markets, including jointing technology for pipe systems, high-performance ceramics and special pumps, and ceramic components used in laboratory, electrical engineering and medical engineering. Since 2003, FRIATEC AG has been a member of the ALIAXIS group of companies with headquarters in Brussels, Belgium. ALIAXIS is the worldwide largest producer of plastic pipe systems for the construction industry and utilities.

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