

Event:
Date:
Place:

Technical Seminar
GREEN DATA CENTERS
Wednesday February 12, 2020



#	Kamila Kufłowski	
Title:	Sales Manager International at Efficient Energy GmbH, Feldkirchen/Munich, Germany	
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Presentation title:	Sustainable, Safe And Efficient Cooling With Water As Refrigerant	
<p>Rapid progress in the IT sector through increased industrial and transport networking, IoT applications, hybrid multi-cloud environments and Industry 4.0 are causing ever-increasing demand for computer performance and the ability to process large data volumes. One of the consequences of these developments is a huge rise in energy consumption, which causes high energy costs. IT and Server Room Cooling presents a major contribution to the overall energy consumption of a data center. This makes energy efficiency and low operating costs key criteria for operators.</p> <p>Apart from common key factors like a high availability and operating safety as well as a successive build-up of the thermal loads, topics like the European F-Gas Regulation and Global Warming are becoming ever more urgent and important. New F-Gas mixtures reduce the Global Warming Potential but increase the flammability risk and imply additional guidelines relating to environmental, fire and water protection, sound pollution etc. Cooling with water (R718) as refrigerant constitutes a paradigm shift with numerous advantages such as:</p> <ul style="list-style-type: none"> • Highly available, clean and low cost refrigerant R718 • low pressures (vacuum) and not flammable nor toxic • F-Gas Regulation does not apply • DIN EN378 does not apply • Simple, easy and safe installation <p>Cooling data centers and server rooms with refrigeration systems that use water as a refrigerant has already proven itself as sustainable in several applications showing it is a safe and economical solution. In contrast to conventional HFC technologies, there are no supply bottlenecks or statutory restrictions.</p> <p>Water as a refrigerant has excellent material and thermodynamic properties. It is chemically stable, has a high evaporation enthalpy and is the most sustainable and environmentally friendly refrigerant. After a lifetime use in a closed circuit, operators can simply release it back into the environment.</p>		
Short CV:	<p>Kamila is a known expert in the cooling industry with a great network. Before joining Efficient Energy, she worked for well-known companies such as Aggreko Germany, Engie Refrigeration and Smardt Powerpax, where she introduced a new air-cooled chiller model in Melbourne/Australia. Thanks to her great expertise in refrigeration and proven international business experience, she is an eloquent speaker on stage.</p>	

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CV:

In April Kamila Kuflowski took over the responsibility for the International Sales of Efficient Energy GmbH with focus on expanding the market mainly through a partnership network. She takes care of the systematic development of international markets with a primary focus on European countries. The historically close cooperation between Efficient Energy and Menerga lead to an OEM solution combining Menerga's indirect evaporative cooling system with the unique eChiller cooling technology. The eChiller is the only serial refrigeration system in the market using water as refrigerant with a Turbo Compressor. Additionally, she started to establish further partnerships in different European countries. Kamila continuously works on the push of water as refrigerant on various international platforms.

Most recently, she worked for several years at Aggreko Deutschland GmbH in the field of temporary power, cooling and heating turnkey installations. Based in Frankfurt am Main/Germany one of her main target sector were Data Centers and adjacent industries. Previously, she worked in Sales and Marketing for Smardt Powerpax in Melbourne, Australia, where she was responsible for launching a new line of air-cooled chillers with Danfoss-Turbocore compressors. The new chiller models were equipped with a special condenser coating to improve the heat exchange, reduce maintenance and withstand corrosive environments for installations close to the shore. For many years, she also worked for Engie Refrigeration in Lindau being in charge of the Sales Development in Switzerland, Austria, France and Spain. In addition to a profound Know-How in the field of refrigeration and many years of experience in International Sales, Kamila Kuflowski enriches Efficient Energy through her capability of building indirect sales structures through strategic partnerships.