

## Media Release

Schaffhausen

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### **GF Piping Systems: Discussing energy-efficient and sustainable cooling solutions for data centers in tropical regions**

**GF Piping Systems' president Joost Geginat and Assoc. Prof. PS Lee, Programme Director of Sustainable Tropical Data Centre Testbed (STDCT), toured the new testbed under construction and discussed their shared passion for energy efficiencies and commitment towards finding sustainable solutions for liquid cooling in tropical environments.**

Digitization has led to a growing global demand for data centers. The housed computer servers generate a lot of heat. Hence, data centers are currently air-cooled at temperatures between 23 and 27 degrees Celsius, and at ambient humidity of 50 to 60 per cent. Maintaining such controlled environments requires high energy consumption, particularly in tropical countries, resulting in high cost and carbon emissions.

The National University of Singapore (NUS) and Nanyang Technological University (NTU Singapore), together with key stakeholders in Singapore's data center industry, are establishing a new state-of-the-art testbed facility to develop innovative and sustainable cooling solutions for data centers located in tropical locations.

The new STDCT – the first of its kind in the tropics – will serve as a data center simulation for academia and industry to work together to future-proof the region's data center industry to test efficient suitable cooling methods. GF Piping Systems' COOL-FIT will be used for chilled water pipework and ecoFIT for condenser water pipework.

Programme Director Associate Professor Lee Poh Seng, who is from the Department of Mechanical Engineering under the NUS College of Design and Engineering, toured the testbed together with Joost Geginat, President of GF Piping Systems and the company's CFO Thomas Hary.

"We are very proud to be a partner in this project geared to reduce energy consumption and CO<sub>2</sub> footprint of all digital solutions. Additionally, our knowledge exchange with STDCT and the results of this testbed serves as inspiration for the next generation of innovative GF products supporting a more sustainable future" says Joost Geginat.

**[Read more on innovative data center liquid cooling technology promoted by GF Piping Systems here.](#)**

#### **For further information, please contact:**

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#### **About GF Piping Systems**

As the leading flow solutions provider for the safe and sustainable transport of fluids, GF Piping Systems creates connections for life. The division focuses on industry-leading leak-free piping solutions for numerous demanding end-market segments. Its strong focus on customer-centricity and innovation is reflected by its global sales, service, and manufacturing footprint and its award-winning portfolio, including fittings, valves, pipes, automation, fabrication, and jointing technologies.

GF Piping Systems has its own sales companies in 31 countries, which means it is always by its customers' side. Production sites in 36 locations in America, Europe, and Asia ensure sufficient availability and quick, reliable delivery. In 2021, GF Piping Systems generated sales of CHF 1'971 million and employed 7'686 people. GF Piping Systems is a division of Georg Fischer AG, founded in 1802 and headquartered in Schaffhausen, Switzerland.

[www.gfps.com](http://www.gfps.com)

**Picture**

GF Piping Systems visiting the Sustainable Tropical Data Center Testbed under construction in Singapore.

f.l.t.r. Ian Waldock, Director Data Centers (Asia Pacific); Adi Wirawan, Managing Director Southeast Asia; Joost Geginat, President of GF Piping Systems; Prof. Lee Poh Seng from NUS Department of Mechanical Engineering; Thomas Hary, CFO; Alexandre Geiger, Head of ASEAN; Michael Toh, Head of Asia.

Source:  
GF Piping Systems