Press Release



Safety and performance 23 June 2022

TÜV SÜD: new certification marks for fuel-cell systems and components of H2 systems

Munich. TÜV SÜD presents two new certification marks, one for the certification of fuel-cell systems and one for components of hydrogen systems. By using these marks, manufacturers can inspire trust in the safety and performance of their systems and components. The international testing, inspection and certification (TIC) company, in turn, provides these marks to drive the sought-after decarbonisation of our economy.



Since May 2022, TÜV SÜD Product Service has offered two new voluntary certification marks, "Fuel cell system" and "Hydrogen system component", for stationary, factory-made fuel-cell systems and hydrogen-carrying components respectively. While fuel cells produce electricity based on an electrochemical reaction, hydrogen-carrying components such as valves, fuelling nozzles,

breakaway couplings and hoses are used at H₂ (re)fuelling stations or on H₂ vehicles. By affixing the certification mark of the independent TIC company to their products, manufacturers communicate their quality and safety awareness to purchasing agents and consumers, but also gain competitive edge. The normative basis comprises IEC 62282-2 and -4 for fuel-cell modules, IEC 62282-3 for fuel-cell systems, ISO 19880-3 and -5 for hydrogen valves and dispenser hoses and ISO 17268 for breakaway couplings and fuelling nozzles.

Products and production under scrutiny

Certification confirms more than the products' or systems' conformity with the national and international technical safety standards. Where necessary, TÜV SÜD also inspects the production factory and performs regular surveillance audits. In Garching near Munich, TÜV SÜD operates a cutting-edge hydrogen testing laboratory where components and systems are tested for their H₂ readiness, compatibility and performance, from design validation to type approval and certification.

Page 1 of 2

Being one step ahead of market development

"Fuel cells and hydrogen offer the opportunity to effectively reduce emissions in industrial and consumer goods, in the transport sector and in energy production", says Martin Sekura, Hydrogen Business Development Manager at TÜV SÜD. Case studies from steelworks show that customers are increasingly willing to pay higher prices if this energy carrier is used to improve the carbon footprint.

Certification of fuel cells and hydrogen components has not been required by law in the majority of cases to date. However, the planned recast of the Alternative Fuels Infrastructure Regulation (AFIR) might change this in the medium term. By expanding the infrastructure for alternative fuels, the European Union is creating opportunities to effectively drive decarbonisation. "Our voluntary certifications enable their holders to leave a mark and already promote sustainability today, keeping us one step ahead of development", points out Martin Sekura.

More information can be found at: https://www.tuvsud.com/en/press-and-media/2022/march/cutting-edge-hydrogen-laboratory-opened

Note for editorial staff: The press release and high-resolution photos are available on the Internet at www.tuvsud.com/newsroom.

Media Relations:

Dirk Moser-Delarami	Tel. +49 (0) 89 / 57 91 – 15 92
TÜV SÜD AG	Fax +49 (0) 89 / 57 91 – 22 69
Corporate Communications	Email <u>dirk.moser-delarami@tuvsud.com</u>
Westendstr. 199, 80686 Munich, Germany	Internet www.tuvsud.com/de

Founded in 1866 as a steam boiler inspection association, the TÜV SÜD Group has evolved into a global enterprise. More than 25,000 employees work at over 1.000 locations in about 50 countries to continually improve technology, systems and expertise. They contribute significantly to making technical innovations such as Industry 4.0, autonomous driving and renewable energy safe and reliable. www.tuvsud.com

Page 2 of 2