Press Release

DEKRA assures compliance and quality of hydrogen refueling

Full Range of Testing Services for Hydrogen Refueling Stations

- CEP approval for conformity tests in accordance with ISO 19880-1c
- Hydrogen quality certification in accordance with DIN EN 17124
- Leading German institutes ZSW and ZBT are first supply partners

DEKRA is one of the first testing organizations to have received approval for all key services relating to hydrogen refueling stations (HRSs). Commissioned by refueling station operators, the DEKRA experts can certify the facilities' compliance with all the applicable safety standards and the quality of the hydrogen they deliver.

In summer 2023, DEKRA was authorized by the Clean Energy Partnership (CEP) to independently test and certify hydrogen refueling stations in accordance with ISO 19880-1c. This puts DEKRA among the first recognized testing organizations to be authorized by CEP for this task. DEKRA already has a fixed supply agreement with the Ulm-based Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW) for the testing, including acceptance testing, of the refueling stations.

Impurities in the hydrogen can damage the fuel cells in vehicles, so the hydrogen sold at refueling stations in Germany must meet the standards defined in DIN EN 17124, which is required by carmakers. As a new service, DEKRA is also offering the testing and confirmation of hydrogen quality at the pump. DEKRA already has the first confirmed clients for its testing services to ensure safe refueling in accordance with ISO 19880-1c. DEKRA has fixed supply agreements with the ZSW as well as the Duisburg-based Hydrogen and Fuel Cell Center (ZBT) to test hydrogen quality and perform acceptance testing at refueling stations.

As an expert testing organization, DEKRA is supporting the hydrogen economy with its expertise and a wide range of services and solutions. The aim is to facilitate the transformation for all consumption sectors – mobility, industry, and buildings – and to design a secure infrastructure for the generation, storage, and distribution of hydrogen. In addition, DEKRA experts are involved in national and international committees, industry organizations, and associations.

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About DEKRA

DEKRA was originally founded in 1925 to ensure road safety through vehicle inspection. With a much wider scope today, DEKRA is the world's largest independent non-listed expert organization in the testing, inspection, and certification sector. As a global provider of comprehensive services and solutions, we help our customers improve their safety, security, and sustainability outcomes. In 2022, DEKRA generated sales totaling nearly EUR 3.8 billion. The company currently employs almost 49,000 people who offer qualified and independent expert services in approximately 60 countries on five continents. With a platinum rating from EcoVadis, DEKRA is now in the top one percent of sustainable businesses ranked.

About ZSW

The Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW) is one of the leading institutes for applied research into the major issues relating to the energy transition, including photovoltaics, wind energy, battery technology, fuel cells, electrolysis, e-fuels, circular economy, policy advice, and the use of AI for process and system optimization. It works in tandem with industry to pave the way to market for new technologies. The challenge falls to more than 300 employees and around 100 research assistants at the ZSW bases in Stuttgart and Ulm. The ZSW also operates a test site for wind energy and another test site for PV systems. The institute is also a member of the Innovationsallianz Baden-Württemberg (innBW), an alliance of ten applied research institutions. www.zsw-bw.de

About ZBT

ZBT is one of the leading research institutes in Europe for fuel cell, hydrogen, and energy storage technologies. It is a sought-after research and development partner in both European and national cutting-edge research as well as in industrial projects focusing on automotive applications, distribution/storage, and stationary power generation. An o*utstanding technical infrastructure is available to the approx. 180 employees at ZBT, which includes production facilities, test facilities, chemical laboratories, and high-tech analytics. www.zbt.de*