

# TUV Rheinland issues first green hydrogen and green ammonia certificate globally

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TUV Rheinland has announced the issuance of the first green hydrogen and green ammonia certificate globally to Green Hydrogen & Chemicals SPC for the production of green hydrogen and green ammonia as part of the Greenfield Project, a PV-powered hydrogen-ammonia plant with a planned production capacity of 1.2 million t of green ammonia in Oman.

Green Hydrogen & Chemicals SPC, a 50:50 joint venture subsidiary of ACME Group & Scatec ASA, has been assessed and fulfilled all criteria for the entire Greenfield Project based on the defined production methods, transport methods and the applications of hydrogen. TUV Rheinland's certification for carbon-neutral hydrogen provides an evidence of supplying hydrogen to the recipient in a climate-neutral manner, irrespective of the life-cycle stage of hydrogen production, distribution and usage.

By providing green hydrogen and green ammonia certification (TUV Rheinland Standard H2.21 Carbon-Neutral Hydrogen), TUV Rheinland enables stakeholders to ensure that ammonia and hydrogen produced from regenerative sources has significantly lower levels of greenhouse-gas emissions than conventional hydrogen or fossil fuels.

Rajat Seksaria, CEO of ACME Group, said: "We are proud to be the recipient of the world's first Green Hydrogen Certification from TUV Rheinland. This certificate will enhance our capability to cater to international markets across Europe, America and Asia region for the supply of Green Ammonia. We have already started work on the Oman plant and are on track to commission the world's first large-scale green ammonia project. Green accreditation from leading agencies such as TUV Rheinland is an important milestone in our efforts."

Commenting on the issuance of the first such certificate globally, Benedikt Anselmann, Regional Executive Vice President, India, Middle East & Africa, TUV Rheinland said: "Hydrogen can help tackle several energy challenges we are currently facing and it has the potential to achieve a clean, secure and affordable energy future. We at TUV Rheinland are committed to contributing to a future that meets the needs of both mankind and the environment in a sustainable manner by supporting the development of Hydrogen as the energy carrier of the future." He added, "We are proud to issue the first ever Green Hydrogen and Green Ammonia certificate to Green Hydrogen & Chemicals SPC as per TUV Rheinland Standard H2.21 Carbon-Neutral Hydrogen."

V Ravi Kumar, Vice President, Industrial Services, TUV Rheinland India said: "Hydrogen plays a critical role in energy transformation and the demand is increasing worldwide. In our TUV Rheinland Standard H2.21, we have specified requirements that allow a certification of the Product Carbon Footprint as less than or equal to zero. In addition, based on the 'Carbon-Neutral Hydrogen' certification, by fulfilling other specific criteria, optional additional criteria can be certified such as Green Hydrogen, Blue Hydrogen, Turquoise Hydrogen, RED II compliant Hydrogen."

Read the article online at: <https://www.worldfertilizer.com/environment/20042022/tuv-rheinland-issues-first-green-hydrogen-and-green-ammonia-certificate-globally/>