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Green Hydrogen and Biomethane, the short-term future of energy transition

By

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Abstract

Green hydrogen and, when integrated with biomethane plants, is set to play a key role in Spain's energy transition. Biomethane sites will provide convenient Bio-CO₂ streams for viable synthetic methane production due to the CAPEX and OPEX synergies of those technologies. The Spanish countryside is rich in renewable energy (to produce competitive green hydrogen) and rich in agro-cattle feedstock for the biomethane facilities. Together, these technologies create a circular, complementary ecosystem to replace fossil Natural Gas. Their synergies strengthen the resilience of Spain's energy system, accelerate the replacement of fossil fuels, and maximize the value of renewable resources—positioning the country as a leader in Europe's shift toward a fully sustainable energy model.

Short biography of Mr. Julio Hidalgo



He joined Univergy in 2021 to set up the Green Hydrogen Division.

Univergy Group is a relevant player in the development and construction of big renewable energy facilities and is present in more than 20 countries.

Julio Hidalgo is a professional with more than 25 years of experience in engineering, operations and business development in companies from various sectors like Biotechnology, Pharma, Chemical and Renewable Energy.

Julio Hidalgo has a MSc in mechanical engineering from Universidad Pontificia de Comillas in Madrid.