

**Clarke
Energy®**

Engineer - Install - Maintain



| Hydrogen

*Leading the
Hydrogen Transition*

JENBACHER
INNIO

Distributor New Units & Services

Trusted EPC contractor with a *proven track record*.

LOW CARBON H₂ PRODUCTION

Clarke Energy is a multinational provider of sustainable energy solutions, delivering tailor-made projects backed by a proven track record, a strong balance sheet and industry-leading aftersales service support.

We are an award-winning market leader within the distributed power generation and EPC sectors, with a global installed base of over 9GW.

Supporting the net-zero transition

Hydrogen is key to decarbonising high-CO₂ sectors. Clarke Energy enables your transition by integrating hydrogen into industry and transport for a low-carbon future.

Aftersales support

Our market-leading national service support coverage ensures smooth scheme operation.

Engineer, procure, construct

Inhouse design and project management, including complete build and grid connection.

H₂ ready INNIO Jenbacher gas engines

Clarke Energy is the authorised distributor and service partner for INNIO Jenbacher H₂ gas engines in 27 countries.



Seamless procurement practice

We provide one point of contact responsible for complete project development, mitigating customer risk.

Profound understanding of complete H₂ market

We understand our customer requirements, form solid partnerships, and engineer the best possible H₂ solution.



HYDROGEN PRODUCTION WITH CCS

Carbon capture and storage (CCS) is the process of capturing emissions from energy production before they reach the atmosphere. It is an important consideration when discussing hydrogen, as it enables the production of low-carbon hydrogen while the industry transitions to widespread renewable adoption.

Pairing CCS with hydrogen production allows for large-scale hydrogen availability while minimising environmental impact. Natural gas remains a readily available resource, and with CCS, its emissions can be significantly reduced, making it a viable pathway for expanding the hydrogen economy. This approach supports energy security and decarbonisation efforts simultaneously.

CCS is particularly valuable in hard-to-abate sectors, such as steel and chemical production, where carbon emissions are an unavoidable part of industrial processes. By integrating CCS into hydrogen production, industries can continue to operate efficiently while cutting their carbon footprint.

By linking these two processes together, we can drive meaningful emissions reductions and accelerate the transition to a more sustainable energy landscape.



END-USE APPLICATION

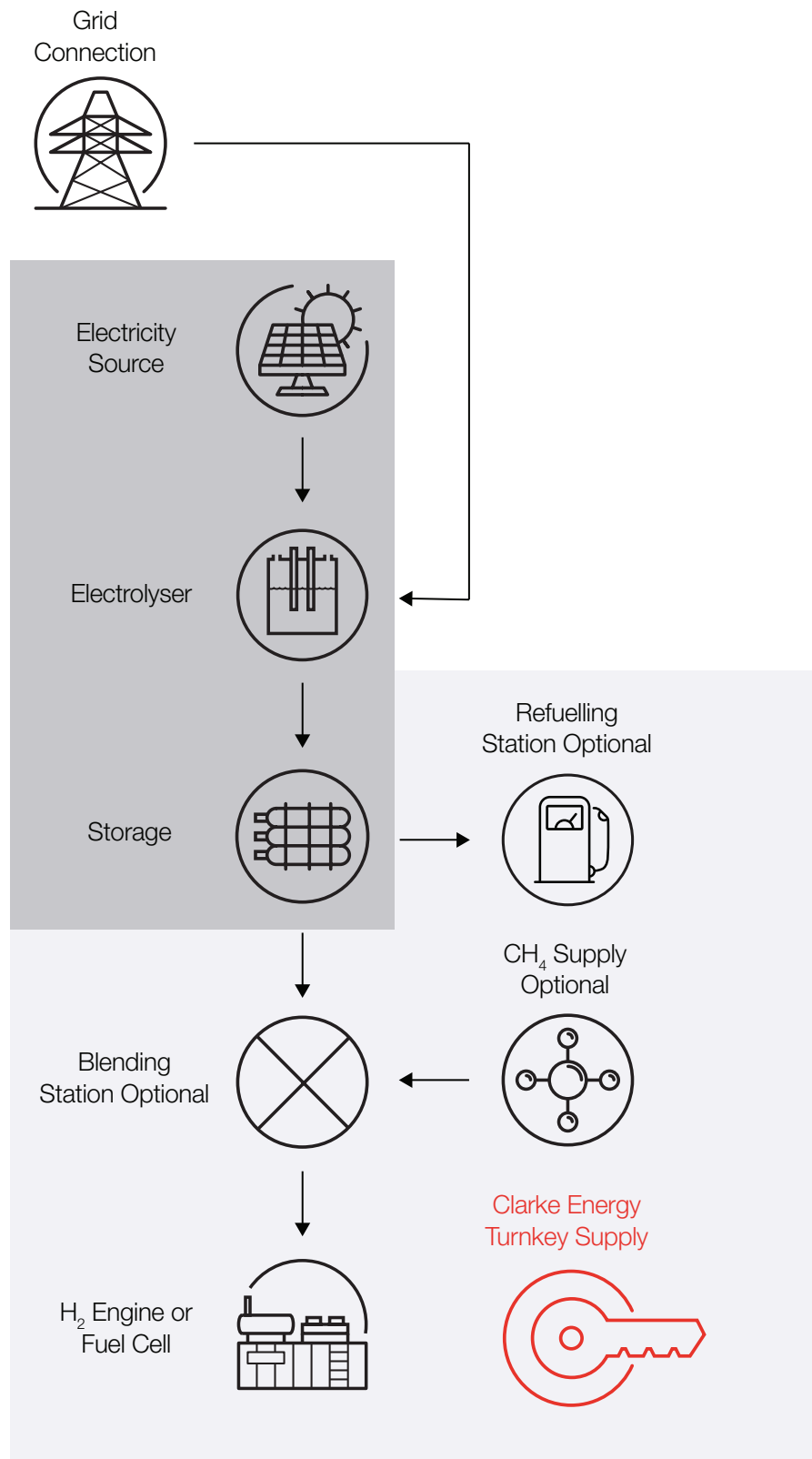
Once hydrogen is produced, it can be used directly in on-site INNIO Jenbacher H₂-ready gas engines to provide reliable power, heat, and cooling solutions. This is an ideal application for sites that require a flexible, sustainable energy source.

Integrating hydrogen into gas engines allows businesses to reduce their carbon footprint while ensuring energy security. Whether through existing or new installations, H₂-ready engines can support various industrial needs, offering an immediate, practical end use for hydrogen. Supporting blends, all the way up to 100% hydrogen, this solution will play a key role in the transition to a net-zero future.

INCORPORATION OF ELECTROLYSER, STORAGE & BLENDING

Clarke Energy takes a flexible approach, delivering power generation facilities for some of the world's most high-profile businesses. Alongside our expertise in distributed energy, we play a key role across the hydrogen value chain—supporting H₂ production through electrolysis, storage and distribution via refuelling stations, and end-use in fuel cells and hydrogen engines.

No matter the project size, we remain committed to achieving your business objectives with quality and customer service at the forefront.



Clarke Energy, a Rehlko Company, is a multi-award-winning global business specialising in the engineering, installation and maintenance of distributed energy solutions.

Clarke Energy supplies a range of different energy efficient, resilient, low carbon and renewable power generation and storage technologies. For gas based projects we are able to produce or accept renewable and low carbon fuels including hydrogen, biogas and biomethane / renewable natural gas (RNG).



To contact Clarke Energy
please visit our website.
www.clarke-energy.com