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Low carbon hydrogen



Low carbon hydrogen

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Embracing the **energy transition** with low carbon hydrogen



We help our customers unlock the potential of low carbon (blue) hydrogen, which is produced using natural gas equipped with carbon capture, utilization, and storage ([CCUS](#)).

From our hydrogen centers of excellence around the world, we provide our customers with integration solutions that provide a pathway to low cost and more environmentally sustainable hydrogen production at scale.

We help lower CO₂ emissions by equipping natural gas-dependent hydrogen projects with CCUS, trapping the CO₂ by-product. This reduces the CO₂ intensity of hydrogen used in hard-to-abate industrial processes and sectors.

112

low carbon (blue) hydrogen projects

350 MW

EPC contract for the world's biggest low carbon production plant



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Choosing the right process technology

We're technology neutral so we advise on the best available technologies and evaluate technical and economic options for our customers' low carbon hydrogen production assets.

Our experts are also experienced with natural gas reforming technologies including steam methane, autothermal, and gas heated reformers. And our relationships with licensors provides flexibility and optimization options to streamline early project development.



Speak to an expert today

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Our key industries



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Low carbon hydrogen



Renewable hydrogen

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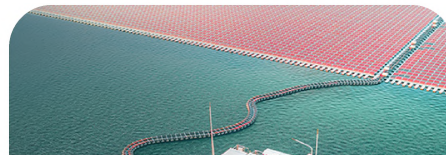
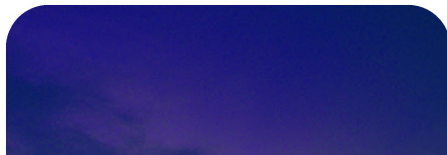
Hydrogen

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Carbon capture, utilization and storage

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Power networks

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Our experience

Hydrogen production with carbon capture and storage capabilities

We're helping our customer evaluate the possibility of building a hydrogen production plant, including CO₂ capture, liquefaction, and export facilities in the Netherlands. The project aims to capture up to two million tons of CO₂ per year which will then be reinjected and stored in an offshore reservoir.

Supporting a low carbon hydrogen plant in the UK

We're providing procurement management contract services for a 350MW low carbon hydrogen production plant in the UK, expected to be one of the first large-scale low carbon hydrogen plants in the world. This includes modifications within the refinery to accept low carbon hydrogen to power production instead of fossil fuels.

Technical evaluation of using 100 percent hydrogen as an industrial fuel

We conducted a technical evaluation study to help our customer explore whether it is technically possible and safe to replace natural gas with low carbon hydrogen.

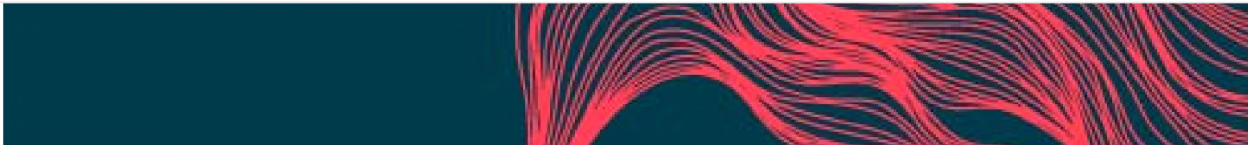
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