

Green ammonia plant to source power from grid

20 JANUARY 2023 BY [JENNIFER AGUINALDO](#)



Engie, Fertiglobe and Masdar are developing the 150MW green hydrogen-based facility

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The consortium developing the 150MW green hydrogen-based ammonia production facility in Ruwais, Abu Dhabi, plans to purchase renewable energy from Emirates Water & Electricity Company (Ewec) to power the facility.

"The project will not include a dedicated renewable energy asset... the plan is to sign a green power-purchase agreement with Ewec," Stephan Gobert, senior vice president for hydrogen at Engie, tells MEED.

Engie is co-developing the project in partnership with Abu Dhabi-listed petrochemicals firm Fertiglobe and UAE clean energy firm Masdar.

It is understood Technip Energies is in the process of completing the project's detailed design. The consortium aims to take a [final investment decision](#) on the project by the fourth quarter of 2023, as MEED has previously reported.

The planned facility is expected to reach commercial operation by early 2026.

It will support green ammonia production and will be installed near Fertiglobe's ammonia production plants, with Fertiglobe as the sole long-term offtaker.

It is the first project arising from a strategic alliance between Engie and Masdar that was announced in December 2021.

The two companies are looking to develop projects with a capacity of at least 2GW by 2030, with a total investment in the region of \$5bn, Engie said at the time.

Gobert said several projects as part of the planned green hydrogen hub in Abu Dhabi are in early exploratory stages.

In addition, Engie serves as a carbon adviser to Emirates Steel's [low-carbon steel project](#).

The bulk of the planned green hydrogen projects announced in the Middle East and North Africa region, including the \$6.5bn Neom green hydrogen project, are envisaged with an integrated and dedicated renewable energy facility.