

Johnson Matthey selected by Phelan Green for landmark e-SAF plant in South Africa

LONDON, UNITED KINGDOM, June 16, 2026 /EINPresswire.com/ -- Phelan Green Hydrogen has announced it has licensed technologies from Johnson Matthey Catalyst Technologies (JM CT) for its planned electro sustainable aviation fuel (eSAF) facility in the Western Cape, South Africa.

Construction of the facility in Saldanha Bay is expected to begin by the end of 2026 and is part of the wider Phelan Green Hydrogen Project which expects investment of R47 billion (more than £2 billion).

The licence win represents the first phase of the project, which when completed is expected to be one of the world's first commercial-scale eSAF production facilities, able to produce around 35,000 tonnes of eSAF each year, intended for sale into the EU/UK markets. That will be the equivalent of producing up to 6% of the EU and UK's mandated eSAF volumes for 2030.

Once all phases are complete the facility is expected to supply around 140,000 tonnes of eSAF in total each year.

Johnson Matthey's HyCOgen™ technology uses a catalysed process to convert CO₂ and electrolytic (green) hydrogen into carbon monoxide (CO). This CO is then combined with additional hydrogen to form syngas. HyCOgen technology integrates with FT CANS™ technology, jointly developed and co-owned by JM and bp, which converts syngas into synthetic crude oil, supporting overall process efficiency. This synthetic crude oil will then be upgraded to produce



Johnson Matthey Logo



Photo left to right: Alberto Giovanzana, CEO Catalyst Technologies, Johnson Matthey and Paschal Phelan, Chairman, Phelan Green Energy.

synthetic paraffinic 

Alberto Giovanzana, CEO of JM CT, said: "Phelan Green's plans for an eSAF facility in the Western Cape are a landmark project. It will be one of the world's first commercial-scale eSAF facilities and a clear signal that SAF can scale today. It also marks Johnson Matthey's first deployment of HyCOgen and FT CANS in Africa."

Blair Phelan, Managing Director Phelan Green Group, said: "Securing these licence and engineering agreements with Johnson Matthey completes the technology backbone of our project. Their team's support has been instrumental in getting us here. We are now ready to turn renewable energy, CO₂ and water into sustainable aviation fuel, and to prove that eSAF can be produced at commercial scale, here in South Africa."

About Johnson Matthey

For over 200 years Johnson Matthey has used advanced metals chemistry to tackle the world's biggest challenges.

Many of the world's leading energy, chemicals and automotive companies depend on our technology and expertise to decarbonise, reduce harmful emissions and improve their sustainability.

And now, as the world faces the challenges of climate change, energy supply and resource scarcity, we're actively providing solutions for our customers – metals that matter, for a healthier world.

For more information visit www.matthey.com.

About Phelan Green

Phelan Green is a highly successful developer of clean energy for over 20 years. Its sustainable fuels development platform will advance largescale green hydrogen, eFuels and industrial decarbonization projects. Through its subsidiary Phelan eFuels, the company is developing one of the most significant electro-sustainable aviation fuel projects globally, supporting the global aviation sector transition to a low carbon footprint.

For more information visit www.phelangreen.com.

For media enquiries

Johnson Matthey:

Email: [jmpmr@matthey.com](mailto:jmpr@matthey.com)

Telephone: +44 207 269 8001

Liliana Resende

BCM Public relations

2037442236

[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/919766527>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.