

## Case Study



# Luth Eolas Pty Ltd: Kwinana Energy Transformation Hub (KETH)

**Luth Eolas Pty Ltd is a wholly owned subsidiary of the Future Energy Exports Cooperative Research Centre and was established in 2021 to develop, build and operate the Kwinana Energy Transformation Hub. More details can be found at [www.keth.com.au](http://www.keth.com.au).**

The Kwinana Energy Transformation Hub is the flagship project of the Future Energy Exports Cooperative Research Centre (FEnEx CRC). KETH is an industrial-scale facility to research, test and demonstrate decarbonisation technology solutions for the energy industry. It comprises of an 800 kg/day green hydrogen electrolyser and a 10 tonnes/day LNG facility. It will be a first-of-a-kind facility providing an open-access, multi-user environment for demonstrating and testing energy transition technologies at industrially relevant scale, as well as certification of equipment and training for hydrogen and LNG facility operators. The facility plans to be operational by early 2025, subject to a successful capital raising by the end of this year.

A Valmec Australia Pty Ltd and Kent partnership was awarded the Front-End Engineering Design (FEED).

Valmec is a leading Australian energy, resources, and infrastructure service group, providing construction, commissioning, and maintenance services from conception to decommission, across the full asset lifecycle. Kent is a global integrated energy services company with a 12,000-strong team delivering sustainable and innovative engineering services and project delivery solutions for the oil and gas, industrial, renewables and low carbon industries. Combined, Valmec and Kent offer an end-to-end delivery solution for this project.

The KETH project allows companies to de-risk energy transition technologies and strategies before the next wave of investments targeting Net-Zero. It is a great example of collaboration between industry, government, training and research organisations.

Reaching this FEED milestone for the facility is an excellent outcome for FEnEx CRC and its mission to demonstrate industrial-scale process technologies that can decarbonise LNG exports and lower the cost of clean hydrogen production.

