

Green hydrogen to drive heavy transport

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Minister for Energy, Renewables and Hydrogen and Minister for Public Works and Procurement
The Honourable Mick de Brenni



Construction of a renewable hydrogen plant expected to fuel heavy transport in Queensland's Western Downs is expected to start in the next six months creating more jobs and more industry for Queenslanders.

The Palaszczuk Government will provide \$28.9 million towards a renewable hydrogen demonstration plant and refuelling facilities on the Western Downs as part of Queensland's plan for economic recovery that will support the state's ambitions to become a hydrogen and renewable superpower.

Publicly owned CS Energy has appointed IHI Engineering Australia (a subsidiary of IHI Corporation Japan) to construct the Kogan Renewable Hydrogen Demonstration Plant near Chinchilla, with work to start on site in six months.

CS Energy's plans for an associated refuelling network in South West Queensland are in the development phase.

Minister for Energy, Renewables and Hydrogen Mick de Brenni said the government would provide \$28.9 million towards the project from the government's \$2 billion Queensland Renewable Energy and Hydrogen Jobs Fund.

"The Kogan Renewable Hydrogen Demonstration Project will produce 50,000 kilograms of renewable hydrogen each year when operational in 2023," Mr de Brenni said..

"It is one of the most advanced renewable hydrogen projects in Queensland, with CS Energy's recently announced collaboration with Japan's Sojitz Corporation to export hydrogen to Palau, as well as strong interest from potential off-takers in the domestic heavy transport and haulage sector.

"Queensland has a unique competitive advantage in the production of renewable hydrogen, with our proximity to Asia, established infrastructure, manufacturing capabilities and renewable energy generation."

CS Energy has entered into an engineering, procurement and construction (EPC) contract with IHI Engineering Australia (a subsidiary of IHI Corporation Japan) for the Kogan Renewable Hydrogen Demonstration Plant.

Mr de Brenni said the innovative project was expected to create 20 jobs during construction and would support local businesses and jobs.

"This project highlights the significant value of Queensland's publicly owned power stations in the diversification of our State's future energy portfolio," Mr de Brenni said.

"The demonstration plant's hydrogen electrolyser will only be powered by behind-the-meter solar energy, making it one of the few truly renewable hydrogen projects in Australia.

"A range of businesses will be used to deliver this project, ranging from local contractors for some on-site works and services, to international suppliers of specialised equipment.

"It's great to hear that IHI Engineering Australia has already been in discussions with regional companies identified through CS Energy's skills mapping partnership Toowoomba and Surat Basin Enterprise."

CS Energy CEO Andrew Bills said IHI had proven expertise in renewable hydrogen and he looked forward to working with them again following their joint feasibility study into the Kogan project in 2021.

"This demonstration project will provide CS Energy with valuable expertise and learnings so that we can establish a footprint in the renewable hydrogen sector and prepare for upscaling to commercial scale," Mr Bills said.

"As Australia's energy sector transforms, it's really important that CS Energy diversifies our revenue streams so that we create a sustainable future for the business."

IHI Engineering Australia MD Motoya Nakamura said that CS Energy is an important partner of IHI and looks forward to working closely to deliver an exciting project in the hydrogen and renewables space.

"IHI welcomes the opportunity to be involved in the initial stages of kick starting the global green hydrogen and ammonia value chain and is committed to the development of this new industry in Australia," Mr Nakamura said.

"IHI has been a significant contributor to the development of the energy sector in Australia over the last 50 years and looks forward to expanding our low carbon project portfolio over the 50 years to come."

The demonstration project includes the co-location of a solar farm, battery, hydrogen electrolyser, hydrogen fuel cell, hydrogen storage and out loading facility.


It will be built next to CS Energy's Kogan Creek Power Station, but will only be powered by renewable energy from the solar farm.


Construction is expected to begin in September 2022 once all relevant development approvals have been finalised.


CS Energy will operate and maintain the plant once it is completed.


The demonstration plant will form part of CS Energy's energy hub at Kogan Creek.


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