



Home > Technology

Dug Technology sets sight on building carbon-free data centre in WA's Geraldton

by **albitross** — May 26, 2021 in **Technology** 0



Software program agency Dug Expertise has revealed plans to construct a carbon-free high-performance computing (HPC) campus powered by renewable vitality in Western Australia's coastal metropolis of Geraldton.

The power will likely be located on 45 hectares of land, and can characteristic an preliminary six-megawatt knowledge corridor and a capability of greater than 200 petaflops. The corporate stated there are plans to develop the campus to multi-exaflop scale as soon as its proposed 10 knowledge halls are commissioned.

The corporate additional added the campus would utilise Dug's patented immersion-cooling know-how, with the plan to in the end energy the positioning utilizing photo voltaic and wind. The set up of an onsite hydrogen battery system can be being investigated, the corporate stated.

"The vast majority of our purchasers are very involved about local weather change. This usually manifests itself as questions requested about our carbon footprint in mission discussions and tenders. Oil and fuel firms are eager to take care of their 'social license to function' and need this to be part of their future," the corporate instructed ZDNet.

"The main focus of our purchasers outdoors of the oil and fuel business is equally usually on the carbon footprint of HPC ... the price of energy generated by renewables within the Geraldton area can be lower than the price of energy off the grid. This determination is superb for enterprise and the planet."

In accordance with the corporate, the enchantment to construct in Geraldton is as a result of the town is taken into account to be "one of many world's premier renewable vitality areas", plus the positioning will likely be near the town's TAFE, which has an AARNET fibre connection and latency is just 3.5 milliseconds from Geraldton to Perth.

"It has a great local weather for each wind and photo voltaic, which enhance one another to allow close to round the clock energy provide," the corporate added.

Dug Expertise claimed that after accomplished, the Geraldton website would turn into the corporate's largest website inside its world knowledge centre community and will likely be utilized by purchasers together with Harry Perkins Institute of Medical Analysis and Curtin College, in addition to others within the useful resource sectors and in tertiary schooling.

The corporate has put aside an preliminary AU\$5 million to construct the preliminary knowledge corridor, whereas value particulars for the vitality storage resolution is but to be finalised.

Building of the positioning, topic to approval, is about to start within the third quarter of 2021 with the stage 1 knowledge corridor because of be commissioned within the first half of 2022.

Final month, Dug Expertise and Curtin College signed a decade-long partnership to collaborate on radio astronomy and inexperienced know-how, in addition to assist the college's involvement within the Sq. Kilometre Array mission.

Much more just lately, the corporate signed an settlement with Commonwealth Scientific and Industrial Analysis Organisation (CSIRO) Info Administration and Expertise to supply HPC and storage by way of its Dug McCloud platform.

Dug Expertise, which listed on the Australian Securities Index solely in August final 12 months, reported throughout its 2021 half-year outcomes that it achieved income of AU\$24.2 million and earnings earlier than curiosity, tax, depreciation, and amortisation of AU\$4.2 million.

In a buying and selling replace on Wednesday, the corporate famous unaudited income from January 1 to 30 April 2021 was \$11.8 million, down \$2 million from the \$13.8 million recorded throughout the corresponding interval final 12 months. Regardless of this, the corporate stated there are "optimistic" indicators of progress for FY22.

"Whereas income within the companies division in the identical four-month interval has been beneath expectations, HPCaaS and utility software program revenues have continued to develop by way of the interval," the corporate stated.

Dug Expertise additional added that tender exercise has elevated because of recovering market circumstances, stating it has written almost \$46 million in new work proposals within the companies division throughout the 4 months of 2021.

"This represents 10% progress on pre-COVID-19 ranges over the identical interval in 2019," the corporate added. "This elevated degree of exercise has led to rising mission awards and is anticipated to contribute positively to income progress in FY22".

Associated Protection

South Australia to get new AU\$70m knowledge centre from DCI

Boosting DCI's load in Adelaide's Kidman Park to five.4MW by mid-2022.

Microsoft to launch first knowledge centre area in Malaysia

The brand new knowledge centre area varieties a part of the corporate's Bersama Malaysia initiative, which additionally goals to talent over 1 million locals by the tip of 2023.

Amazon unveils its largest single renewable vitality mission ever

The corporate is investing in an offshore wind mission in Europe.

CSIRO: Australia is lacking out on AU\$3.1b business in lithium-ion battery recycling

Australia's nationwide science company has put ahead 18 suggestions of how the nation may step up recycling efforts of lithium-ion batteries.