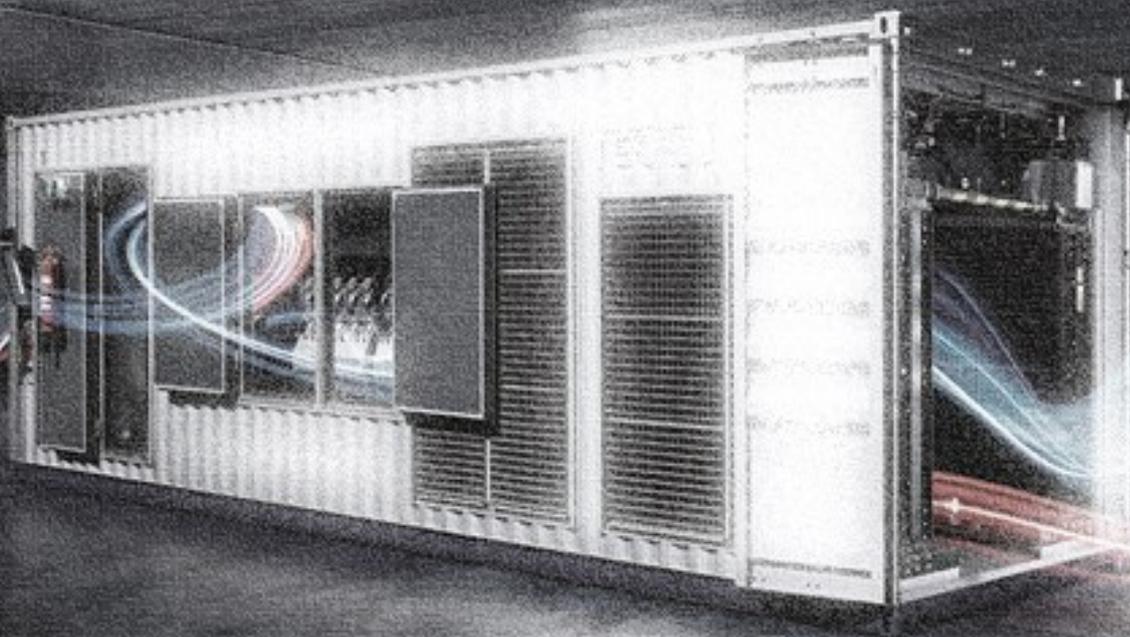




Variable Speed Diesel

Opportunity Statement



www.renewableready.com
ABN 59 617 259 300

Opportunity On a Page

Fixed speed diesel generation fails to provide the flexibility required within modern hybrid diesel applications. Consumers increasingly require a diesel technology able to operate cleanly and efficiently across its entire capacity range, one offering improved transient response, and one compatible and complementary to renewable technologies. All of this must be achieved without compromise to the simplicity and reliability and of a standard diesel generator.

Renewable Ready (RR) has extensively explored the capability of fixed speed diesel technologies to operate at low load, concluding that a variable speed configuration is required to achieve market expectations. In partnership with Regen Power and the University of Tasmania, RR has successfully demonstrated variable speed diesel configurations, and is currently progressing unitisation of a utility scale PMG variable speed diesel. The collaboration is targeting an operational 250kW pilot program early 2019. The host facility is anticipated to be an operational remote area power system within the Northern Territory. Given the difficulty in successfully demonstrating the technology remotely, a Commercialisation Partner (CP) is sought to thoroughly test and refine the concept prior to deployment into the field. The group is actively seeking a CP with access to test bed, mechanical and remote service expertise, able to lead workshop based proof of concept preceding remote field testing. The CP will also lead logistics to site, having experience in packaging generation equipment into 20ft ISO containers. In return for the invested in-kind labor, facilities and expertise, the CP will be offered either an exclusive license or IP ownership linked to further commercial deployment of the technology, subject to negotiation.

With the ability to operation efficiently irrespective of load, variable speed diesel generation offers fuel savings exceeding 50% at low load. The approach permits a 70% single step load application while maintaining emissions compliance. The market potential extends beyond remote area power into electrified transport systems and standalone diesel applications. Applications we're keen to discuss with potential partners.

