Technology in Agriculture

Power up with variable speed generator

DIESEL generators are used to power irrigation systems in remote areas.

Diesel powered pumps have the advantage of pumping water on demand, also in varying daily capacity, depending on the operating times and over high heads.

Diesel engines have a fairly low capital cost.

On the downside the diesel pumping system relies on fuel and is therefore at the mercy of fuel cost variations and exchange rate fluctuations.

Diesel engines also require regular maintenance, linked to the hours of operation and have a fairly short life expectancy, being highly dependent on the level of maintenance, operating conditions and the quality of the engine and the installation.

Regen Power has developed fully automatic hybrid power systems combining solar panels and wind generators with the innovative variable speed generator Hybrid Gen (patent pending) for providing low cost electricity supply for homes, hospitals, communication towers, water pumping and water treatment.

Hybrid Gen saves fuel in a diesel generator by running the engine at variable speeds in response to the variation electrical load demand.

Regen's expertise in the field of remote area renewable energy electrification has been drawn from various research activities and publications of director Professor Chem Nayar with more than 30 years of vast experience in this field and Regen Power intellectual property, which includes US Patent titled power conversion system and method of converting power (US Patent Number 7,072,194 granted in 2006), a power management system and method for optimising fuel consumption, (patent pending) and variable speed gas turbine generation system and method (patent pending).

Regen Power has joined with Irrisys, Australia's most experienced irrigation specialist, to provide smart irrigation system saving energy, time and money.

The Irrisys Remote Pressure Control System (IRPCS) incorporates Irrisys sensing and control with variable frequency drives (VFD) to provide the ability to only run your pump at the required duty for the position of the irrigator at any time rather than run the pump at the maximum duty for the whole run.

By doing this you will save large amounts of energy, lowering the cost of irrigation.

With the cost of solar panels drastically reduced by about 70 per cent in the past three years, this is the right time to go for a solar hybrid irrigation system.



❒ **More information: Contact Damien Butler 0419 384 624 or Raj Hira 0410 270 968, sales@regenpower.com or www.regenpower.com**

Remote Pressure Control Pumping Solutions

Irrisys remote endspan and hardhose pressure control systems have been specially designed to provide effective watering at the most efficient duty. Your energy costs will be reduced every time you water!
Other features include remote start and stop and SMS based alert directly to your phone! Instant control and information!



COMING SOON - Irrisys Connect
A complete internet based monitoring and tracking system for your farm linked directly to you computer and/or GPS location. Pump, dam and irrigator management solutions and onsite farm management from anywhere in the world!

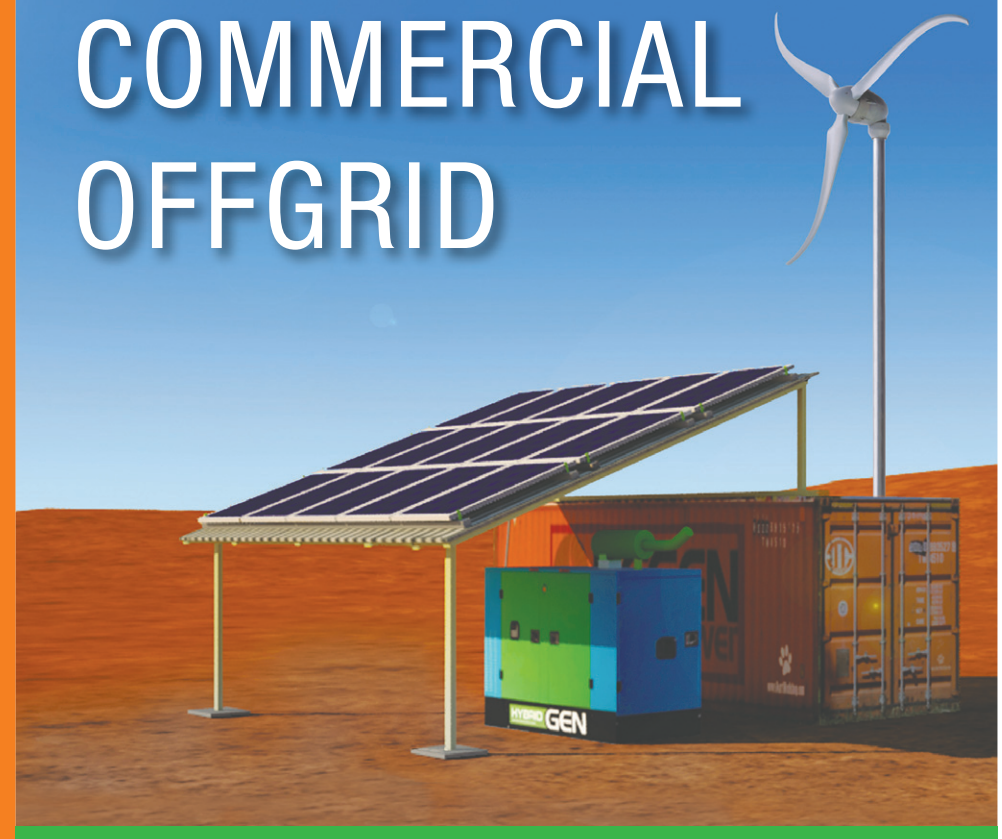
Authorized distributors of Teco electric motors & Emerson variable speed drives

Irrisys
irrigation made easy

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- Most cost effective remote area power system available in the market
- Incorporate award winning, fuel efficient variable speed diesel generator (HybridGEN)
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