

HYBRID RENEWABLE ENERGY POWER SYSTEM

Solar-Wind-Diesel Hybrid Power System

- ☀ Most cost effective remote area power system available in the market
- ☀ Incorporate award winning, fuel efficient variable speed diesel generator (HybridGEN™)
- ☀ Seamless integration of solar PV and wind turbine generators
- ☀ Government rebates available
- ☀ Payback period of 12-18 months

Package inclusive of:

- Variable speed diesel generator (HybridGEN™)
- 5 kW solar and charge controller
- 1 kW wind turbine
- 24 x 2 V, 800 Ah batteries
- 7 kW Australian made inverter

Other options available



Call 08 9456 3491 or visit www.regenpower.com

HYBRID RENEWABLE ENERGY POWER SYSTEM (HyREPS)

Many remote communities around the world are dependent on diesel generators for their energy requirements. Diesel generators are also a major source of backup power in many developing countries experiencing frequent power cuts and power reliability concerns. In the past decade, diesel prices have more than doubled. High fuel costs have translated into tremendous increases in the cost of energy generation. Diesel generators are also a major source of pollution. Solar and wind power technologies are clean, affordable, readily available, sustainable and can replace or supplement generators in both residential and commercial applications. Hybrid energy systems integrate these renewable energy technologies with diesel generators with or without battery storage to provide grid quality power in remote areas not connected to a utility grid.

Regen Power provides a state of the art Hybrid Renewable Energy System (HyREPS) that hybridises a number of key Renewable Energy Resources such as Solar PV, CSP technology, Wind Turbines, Biomass etc depending on resource availability with our award winning HybridGEN technology to provide a reliable remote power generation solution that operates at a fraction of the traditional diesel generator costs. This solution is very suitable for powering remote mobile telecommunication towers, mining camps & operations, resorts, island communities, farms and other remote power applications.

System Costs

Solar Only	HybridGEN (kW)	PV (kW)	Wind (kW)	Battery (2V, 800 Ah)	Inverter (kW)	Price
5 kW HyREPS	8	3	N.A.	24	5	\$50,000
7 kW HyREPS	8	5	N.A.	24	7	\$59,000
Solar and Wind	HybridGEN (kW)	PV (kW)	Wind (kW)	Battery (2V, 800 Ah)	Inverter (kW)	Price
5 kW HyREPS	8	3	1	24	5	\$55,000
7 kW HyREPS	8	5	1	24	7	\$64,000
5 kW HyREPS	8	3	2	24	5	\$60,000
7 kW HyREPS	8	5	2	24	7	\$69,000
5 kW HyREPS	8	3	3	24	5	\$65,000
7 kW HyREPS	8	5	3	24	7	\$74,000

Award Winner

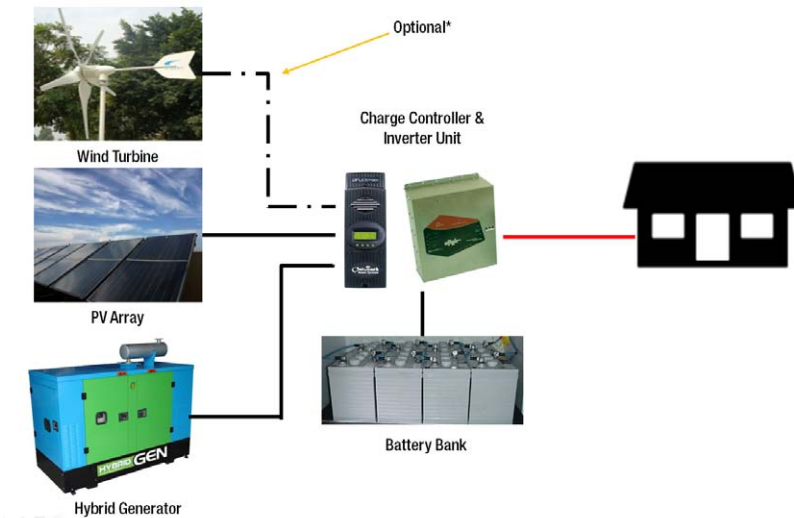
Regen Power was awarded the Product and Technology Award by the Sustainable Energy Association of Australia (SEA). The Product and Technology award is for any innovative new renewable energy product, introduced onto the market since the start of 2010. Regen received the award for its Variable Speed Diesel/Bio-Diesel Generator marketed as HybridGen™.

The salient features of the Regen Power Variable Speed Diesel/Bio-Diesel engine are greater efficiency and improved performance reliability. The key innovation, in addition to these inherent advantages, is that with the help of a smart controller, the machine can be readily integrated to other renewable energy sources such as photovoltaics and wind power. Given the intermittency of solar and wind, this is a major step forward to supplying a more predictable and dependable output. The new technology allows the diesel generator to run at variable speed (rather than at a constant speed) while maintaining constant frequency and voltage; delivering the variable load.

Key Advantage of HyREPS

- Low operating cost
- Scalability
- Reliable
- Low carbon emission

System Schematic Diagram



* Depending on wind profile location.

Notes: System cost is supply only. Additional installation costs apply. This system is Patent Pending.

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