

Control system for wind/diesel power generation

Danvest Energy of Denmark has developed a new control system for stand-alone wind/diesel operation with high wind penetration. The new control system is based on a traditional diesel generator set fitted with wind/diesel equipment which, together with direct connected standard wind turbines, constitutes a complete stand-alone power system for automatic and continuous power supply.

The diesel generator set is an integrated part of the control system which can control the grid and any number of standard wind turbines – up to nearly twice the capacity of the diesel generator – with constant power quality. The system is simple, robust, reliable and easy to operate and maintain. It is ideal for operation in isolated and remote areas.

The Danvest system is designed to be extended with fresh water production by desalination of sea water. The distillers operate by consuming all the excess heat and surplus wind power. When fresh water production is the primary function, the system is supplemented with a low-energy fresh water system which uses only electricity. The standard distillers are reliable and easy to maintain. *Contact: Danvest Energy, Rudolfgaardsvej 1B, DK-8260 Aarhus/Viby J, Denmark. Tel: +45 (86) 720 033; Fax: +45 (86) 296 564.*

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