Wind solar hybrid system suppliers

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Ryse Energy is a primary manufacturer of small wind turbines, with our range of products from 3-60kW capacity, making our portfolio of wind technology the most advanced, innovative diverse in the sector.

Each solar PV system we offer is custom-configured to the unique requirements of the site, incorporating solar PV panels and power inverters. The Ryse team have installed more than 300 roof and ground-mounted installations in a variety of sizes from residential to multi-MW systems. These solutions can be for both on-grid and off-grid energy systems.

As an advanced small-wind turbine manufacturer and technology supplier of world-leading solar PV and battery storage, we believe hybrid renewable energy systems are the future of energy. With the combined energy sources of solar PV and wind, a hybrid renewable on-grid or off-grid energy system is more effective at meeting the demand requirements of a system running 24-hours.

The sight of propeller-like rotating blades positioned high up the pole of a tall horizontal-axis wind turbine (HAWT) may be familiar to many. Often grouped in wind farms, HAWTs provide significant amounts of energy for local communities. One drawback to HAWTs is the...

Wind energy is a clean and inexhaustible energy source widely used as a working fluid for wind farms for centuries. However, its use as a means of electricity supply began modern era due to the rise of environmental concerns and fuel resources issues. The global...

Wind Turbines combined with solar require smaller battery banks than solar only systems. This is due to the fact that a solar only system does not generate significant amounts of electricity during cloudy and stormy weather. The battery bank must be large enough to carry you through the bad weather days. With solar and wind, during bad weather days, wind speeds tend to increase and the wind module continues to charge your batteries during the bad weather days while your solar panels are idle.

Voltage at Nominal Power (Vmpp)

Current at Nominal Power (lmpp)

The Trihelix overcomes the limitations of traditional renewable energy. The technology incorporates BOTH wind and solar energy into a hybrid technology that is ideal for any location. It utilizes wind, solar, or both depending on the environmental conditions of the day. This proven system has undergone extensive testing in multiple climates including frigid Scandinavia, the Caribbean islands, and the Middle East.

The TriHelix maximizes available natural resources to provide energy where it’s needed the most.

Military grade materials and EMP hardened electronics makes the TriHelix a first of it’s kind.

The turbine housing is made from aircraft grade aluminum which makes it both sturdy and durable. The optional tower pieces are created from 7 foot sections of 10 gauge steel, laser cut and crafted into tower sections. Additional sections may be added, 7 feet sections at a time to reach the desired height for each unit. The use of both aircraft aluminum and 10 gauge steel makes this unit light and easy to put in place as well as extremely durable for longevity.

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