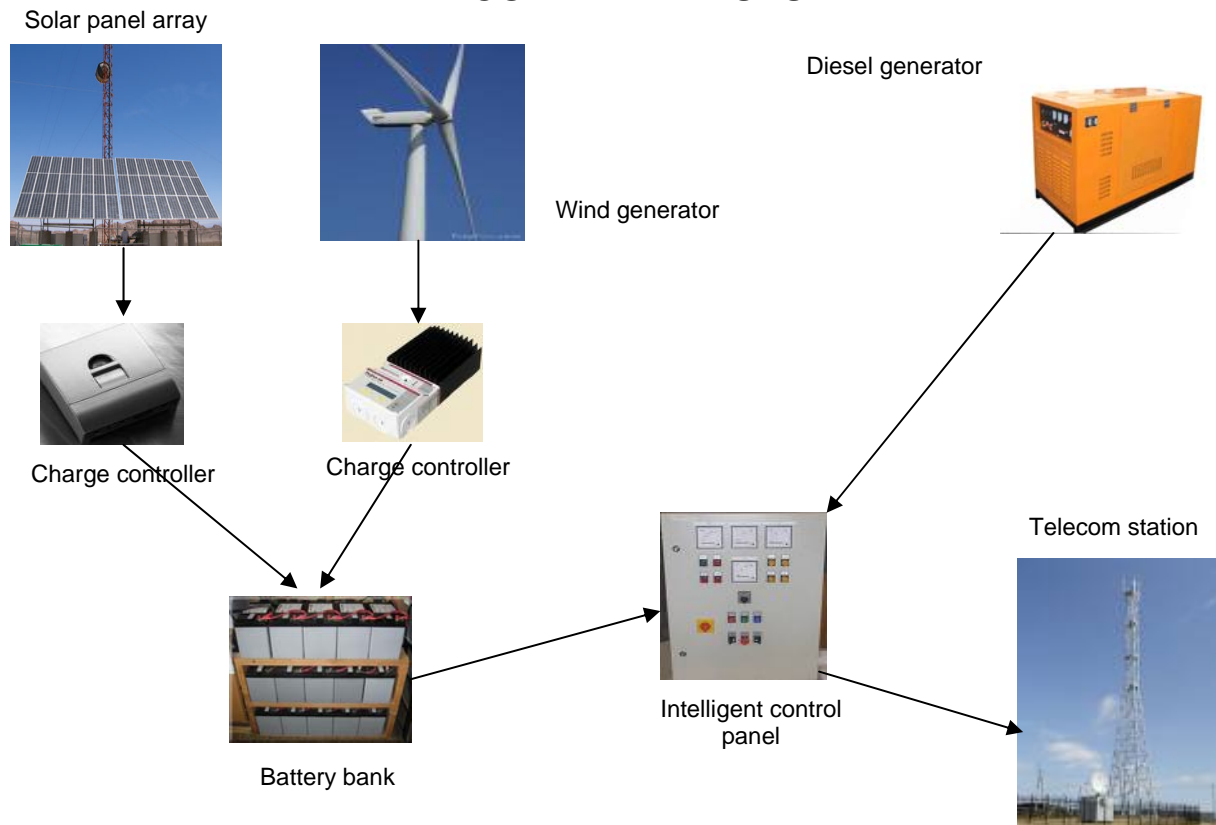




Fortune CP

TELECOM HYBRID SYSTEM



Fortune CP solutions provide a competitive alternative to pure diesel systems that are increasingly under cost pressures due to fuel costs, frequent servicing requirements and problems associated with CO₂ emissions. Most telecommunication applications involve hybrid systems. Depending on the application, the systems can be configured with a mix of solar, wind, diesel and other power sources. The systems can also be fitted with remote monitoring and control features.

Telecommunication applications include mobile networks, VSat stations, microwave, rural payphones, fiber optic repeaters, local exchanges and other remote applications.

The components of the system can vary depending on requirements and can be configured to suit various needs. We design supply and install systems to include:

1. Solar power, wind power and generator
2. Solar power and generator

The systems are designed to provide power 24/7. System lifetime is usually 20-25 years.

The system above includes:

- Solar panels with charge controller, mounting (ground or pole), circuit breaker, lightning protection and battery bank
- Wind generator with tower, controller and battery bank
- The solar and wind systems go through a battery bank storing DC power (used by most telecom stations). Depending on requirements a small inverter can be installed to tap power from the batteries and provide AC power for small appliances.
- Diesel generator with automatic switching system and rectifier. This is the last resort and used only in emergencies or on cloudy days if the system is solar and generator alone.
- Control panel—this controls the power sources
- Remote monitoring system—a data logger and GSM system that transmit information to remote computer at the office.

The first source of power is electricity from the solar panels or solar panels and wind generator. The control panel treats the solar system as the primary source of power. If the power from solar panels and wind generator is all consumed, the controller triggers the generator to take over. Note that the generator is the last resort since its power is expensive to run.

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