



Solar wind hybrid system diagram

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Series hybrid RE power system with single AC bus for all AC load [15].

Parallel (hybrid) RE power system with both AC and DC bus plus AC and DC loads [15].

Parallel hybrid RE system with both AC and DC bus for only all AC loads [15].

According to many renewable energy experts, a small "hybrid" electric system that combines homewind electric and homesolar electric (photovoltaic or PV) technologies offers several advantages over either single system.

Many hybrid systems are stand-alone systems, which operate "off-grid" -- that is, not connected to an electricity distribution system. For the times when neither the wind nor the solar system are producing, most hybrid systems provide power through batteries and/or an engine generator powered by conventional fuels, such as diesel. If the batteries run low, the engine generator can provide power and recharge the batteries.

Adding an engine generator makes the system more complex, but modern electronic controllers can operate these systems automatically. An engine generator can also reduce the size of the other components needed for the system. Keep in mind that the storage capacity must be large enough to supply electrical needs during non-charging periods. Battery banks are typically sized to supply the electric load for one to three days.

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