

Solar Wind Hybrid System



A hybrid renewable energy system utilises two or more energy production methods, usually solar and wind power.

The major advantage of solar / wind hybrid system is that when solar and wind power production is used together, the reliability of the system is enhanced. Additionally, the size of battery storage can be reduced slightly as there is less reliance on one method of power production. Often, when there is no sun, there is plenty of wind.

Wind solar hybrid system may be installed at wind potential areas having annual average wind speed of about 15 kmph (4.17 m/s) at 20 m height. Both solar & wind are supplementary in nature. The wind component of the hybrid system has to be at least 60% of the total capacity.

Wind solar hybrid system stores electricity produced by the wind generator in a bank of batteries. An inverter can convert the DC electricity to AC to run common household appliances.