# Wind turbine and solar panel hybrid system Lebanon

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A smart hybrid system, combining fuel cell, wind turbine and thermal solar system is presented. o The proposed system allows maximizing the yearly produced energy by optimizing the supplied power at each period of the year. o A case study on the region of Daher Elbaidar in the east of Lebanon is considered. o

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The result shows a 122 kW solar power plant, a 67 kW onshore wind farm and a 223 kW biomass pyrolysis system constitute the optimal configuration of the hybrid energy system, generating...

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This study will be improved by selecting the right zone to place the hybrid system in order to produce the optimal energy from the sun and from the wind. In addition, the next system will contain different wind turbines and solar panels in order to study the functioning of a hybrid solar and wind farms.

on-grid hybrid power system consisting of a 90kW solar PV, 10kW wind turbine based permanent magnet synchronous generator, a 10,000Ah nickel metal hydride battery and a 3.123MVA diesel generator. A simple load-based control strategy is adopted to switch efficiently between the power sources to meet the demand. The system is tested for

The 300 watts polycrystalline panels will be chosen for the installation of the system since it has the higher power rate among all the photovoltaic panels exposed in the Lebanese market with the vertical axis wind turbine to form a combined green energy power production system.

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