EXIT-LYON Energy

Topological structure of wind-solar hybrid system

Overview

The optimal torque control algorithm can derive maximum power against the fluctuating wind speed. This technique is focused on the change of the PMSG torque to obtain the maximum energy from the wind turbine, in this process, reference torque is generated at specified wind speed. The PV module generates distinct power levels under varying concentrations of solar irradiation. Figure 3 Illustrates I–V characteristics of a PV module under. There is an optimum estimate of the mechanical rotor speed at a certain wind speed that refers to the optimal wind power generation. The Wind Side Converter. The gride side converter performs the power flow control by controlling the grid side d-q axis components of the current. Two loop control strategy is developed for.

Article Content

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