Solar wind power generator schematic

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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].

Aside from self-starting ability, efficiency and optimization of the wind turbine were discussed in the studies, with CFD analysis used in the majority of cases. An unsteady (transient) ‘‘Reynolds-Averaged-Navier-Stokes’’ (URANS) method was used as well as a quadratic equation based on a regression model and a rotational degree of freedom solver (6DOF). Obtaining an accurate prediction of the turbine"s behavior during startup requires the correct distribution of the lift and drag forces [14,15].

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