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| **Abstract:** |  |
| Variable speed wind turbines are widely used wind energy conversion system (WECS). Among them doubly fed induction generator (DFIG) and permanent magnet synchronous generator (PMSG) are mostly used. PMSG based wind turbines are getting more popular in recent times because of their several advantages over other types. Direct drive capability and low speed operation are some of it’s significant advantage over other type. This paper describes two rotor types of grid connected PMSG, non-salient pole or round pole rotor and salient pole rotor and shows a comparative study between them. The mathematical model was designed and simulated using Matlab/Simulink. Simulation results have been shown to analyze their performances. | |