

Design of 100 kW Induction Generator for Wind Power Plant at Tamanjaya Village-Sukabumi

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Abstract : This paper present about induction generator design for 100kW power output capacity. Induction machine had been chosen because of the capability for energy conversion from electric energy to mechanical energy and vise-versa with operation on variable speed condition. Stator Controlled Induction Generator (SCIG) was applied as wind power plant in Desa Taman Jaya, Sukabumi, Indonesia. Generator was designed to generate power 100 kW with wind speed at 12 m/s and survival condition at speed 21 m/s.

Keywords : wind energy, induction generator, Stator Controlled Induction Generator (SCIG), variable speed generator

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