

Chapter

Field testing of the full-scale vertical axis wind turbine model

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Abstract

For domestic application Vertical Axis Wind Turbines are best suited as compared to Horizontal Axis Wind Turbine. The problem encountered with Vertical Axis Wind Turbine is about self starting speed and performance. The Multistorey concept has been used to develop an innovative three storey Vertical Axis Wind Turbine. Field testing of Vertical Axis Wind Turbine has been conducted at wind site. Self starting speed of turbine has been estimated experimentally. The turbine self-starts at 1.5 m/s and achieves constant speed at 4 - 5 m/s. The coefficient of power was noted as 28% for that available wind speed of 7 m/s. The self starting wind speed and coefficient of power of the turbine is better as compared to the existing vertical axis wind turbines.

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