

# **Simulation and Analysis of a Medium PV Power Plant in Simulink Focused on Analyzing the Effects of Angle of Radiation on main Characteristics of Plant`s Outputs**

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**Abstract** Nowadays because of lots of restrictions in providing energy via fossil fuels men intended to obtain its most energy renewable systems. Photovoltaic is one of those eco-friendly renewable technologies which obtain sun power and turns it in to electricity. In this project the main purpose is to simulate a full model of a small photovoltaic power plant which can produce about 100 kw. The output of the pv array may reduce because of the environmental factors so that the MPPT system is involved in order to obtain the maximum power.

**Keywords :** Keywords: Photovoltaic power plant , MPPT system , matlab simulation.

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