

SOLAR POWER - 1 KW SYSTEM ENERGY GENERATION STUDY AND COST CALCULATION

ARPITA DE

Assistant Professor, Gyan Ganga Institute of Technology and Sciences, Jabalpur, Madhya Pradesh, India

ABSTRACT

Due to climate change and vulnerability of fossil fuels, environmental protection goals that lead towards a massive increase in renewable energy generation, e.g. photovoltaic (PV), solar thermal power, etc. have been proposed. Solar photovoltaic (PV) generation is one of the most important renewable energy resources, which is a green and clean energy too which is the need of the hour where we currently stand and see the Conventional energy Resources getting depleted at a very fast pace. The operation and control of the solar PV generation system are important for its application and a Case Study of 1kW system is presented in this paper along with the Cost Calculation and how this can relate to a Voltage support for the existing system.

KEYWORDS: Cost Calculation, Energy Generation Analysis, Solar, Voltage Support