

A Project Report Submitted to the
Visvesvaraya Technological University, Belgaum-590 018
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Entitled
HYBRID POWER PLANT

*In Partial Fulfillment of Requirement For The Award of The Degree of Bachelor of Engineering of The
Visvesvaraya Technological University, Belgaum, Karnataka.*

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Abstract

Much of the solar panels are unable to gain maximum power from the sun, hence in this project an arrangement is made in such a way to obtain maximum peak point of the sun with help of tracking system. From sunrise to sunset the position of the sun is not fixed and therefore the generated solar energy varies with sunlight collected by the panel. The sun tracking system detects the ultimate position of the sun at which the maximum solar energy will be generated by the panel.

Wind do not flows only in one direction. So if the blades (fins) are fixed in any one of the direction then the efficiency of generated power is not up to the mark. Wind Tracking System is mainly designed and developed to detect the wind movement and turn the wind blades (fins) at that direction.

As project is Hybrid Power Plant a Hydro Power Plant is also a part of project. As an application, Project also controls light and fan load as per the sensors' output. Whenever light intensity in room increases circuit de-activates the light load and fan will be activated only when room temperature increases beyond some preset cooling room temperature