

## **CERTAIN PERFORMANCE INVESTIGATIONS ON VARIOUS CONTROL TECHNIQUES FOR HYBRID POWER SCHEME**

Now a day's Solar Power is essential for all domestic purposes due to the demand of power consumption. But the single Solar system doesn't give the consistent yield due to sun power illumination. To conquer these issues to use different power sources and maintained continues power supply to consumer side. This reason use many type of converter and control techniques for hybrid power scheme. The hybrid power scheme initially utilizes different module power controllers for independently expose to different duty cycles. The constant DC source is carried out by hybrid power scheme is to optimize the different duty cycle and to provide constant voltage through the load. The designed converter control system provides good transient and steady state response for hybrid power scheme. An attempt has made to replace the different technique which is much efficient in controlling non-linear systems to obtain the fast output response. However the output performance is low depends on various load condition. Using various approaches like PSO, HPSO and Binary coded GA will be used to produce constant output, better performance under various load conditions. But now industries are used for IoT techniques with stores the controller data's in cloud to automatically control the output voltage to the load side.