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Review on Microgrid Based Source Management by Using Fuzzy Logic Controller

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Abstract: Present-day, the non-renewable power reassets, that is achieve from nature as a shape of coal, fueloline etc, are exhaustive in nature and are depleting rapidity because of boom in population. The power that is in-exhaustive in nature referred to as renewable power gives as opportunity to nonrenewable power reassets. Due to terrible effect of convectional power reassets at the environment, Renewable power sources grow to be famous now a day. Solar power reasserts are one in every of them. The intake of electricity technology through photovoltaic gadget has tempted vast in current years. The improvement of photovoltaic gadget vegetation consciousness directly to achieve the maximum advantage of amassed sun power. In this paper we're version and manage the renewable power primarily based totally sun p-v gadget the use of MATLAB environment. This grid related MATLAB version is studied beneath specific tiers of sun radiation and converting climate conditions. P-V solar array gadget with a 180-diploma mode three segment inverter is advanced withinside the paintings that is appropriate for small to medium electricity application. The specific units of firing pulses are generated primarily based totally on enter technology and cargo facet behavior. Hence controller is prepared with specific firing angles set which act in step with loading and supply facet conditions. The output of this inverter is fed to the grid AC gadget for synchronization the use of coupling transformer. This AC grid gadget is attached with different sorts and score of load. That load is attached with gadget the use of Fuzzy Logic controller. That make gadget shrewd for load management primarily based totally on to be had enter supply. Finally, gadget stability, overall performance and temporary responses are analyzed. All simulation is executed in MATLAB 2019..

Keywords: non-renewable power reassets

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