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ABSTRACT

ABSTRACT The photovoltaic energy is the best substitute for petrochemistry fuel and it will substitute for gasoline gradually. The photovoltaic energy will become more important, if the petroleum is consumed. Thus the application of photovoltaic energy system will be popular in the future. A management and control system is designed by using LabVIEW program in this thesis, Base on this monitoring process, the photovoltaic energy system is managed and the energy is used more efficient. According to our design, the monitoring and self-management are applied for a photovoltaic energy system, the advantage of this system will increase efficiency safety and reliability. The photovoltaic module with load is monitored and managed automaticly and the application is studied for real system in this project also. we convince that the contributions of this energy management system in this thesis will be significant.

Keywords : photovoltaic energy ; petrochemistry fuel ; LabVIEW program ; self-monitoring and management