

A Proposal for Photovoltaic Solar Systems for Villas in Jordan

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With shortage of energy resources in Jordan, the dependence on renewable energy resources is quite reasonable. Recently new regulations were issued for encouraging installing renewable energy systems at residential areas becomes economical. Solar radiation in Jordan is ideal for building photovoltaic solar systems for residential areas.

In this paper a procedure is proposed to estimate the benefits of solar system installation in Villas in Jordan. Hundreds of thousands of villas are there in various cities, towns and villages in Jordan. A computer program is proposed to calculate the size and design parameters for photovoltaic solar system for villas. Different types of system designs are offered. The system may be designed to take benefit of the newly issued regulation for selling and buying electric energy. Stand-alone systems may also be considered. Payback periods for the proposed systems is to be calculated for encouraging taking advantage of the regulations and offering a benefit to the national economy of Jordan.