

عنوان مقاله:

Social Capacities to Facilitate the Establishment of Solar Energy Technology and its Effects on Sustainable Rural Development (Case Study: Kerman Desert Region, Iran)

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خلاصه مقاله:

Purpose: The use of solar energy has long been human interest. Some countries are trying to gradually replace fossil energy with solar energy because of special benefits such as lack of environmental pollution, frequency, immortality, and sustainable access. The potential of solar energy provides a good platform for the development of marginal villages and regions that are deployed away from urban centers or rural population centers. However, in some countries, despite the favorable weather conditions, for various reasons, the use of solar energy technology is still not commensurate with the potentials. **Design/Methodology/Approach:** This research adopted a descriptive-analytical method to explain the potentials of solar energy technology for sustainable rural development in the study area on ۴۰۰ randomized samples. The potential and process of developing and expanding solar energy technology, as an effective factor, was determined by ۳۴ items under indicators such as education and awareness-raising, knowledge and skills, trust-building, capacity building, participation, and partnership in investment. The dependent research variable was also measured through ۱۰۶ items in ecological, socioeconomic, and physical dimensions of settlement development. **Findings:** The results suggested that the utilization of solar energy technology was effective in promoting sustainable development indicators of rural settlements in the study area. Hence, it is suggested to pay further attention to improving training and raising awareness as well as building support for villagers to increase the level of employment, participation, and investment in the utilization of solar energy technology.

کلمات کلیدی:

Solar energy, Sustainable rural development, Kerman desert region, Iran

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