



## Spreading the use of solar energy applications in the new lands of Egypt to achieve sustainable development

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**Abstract:** Despite the abundance of renewable energy sources in the Arab countries, especially solar energy, the income of the projects of this kind started late compared to the most important global producers of solar energy and states that do not have such resources. And in recent years, it has become a pressing need for solar energy, which was the reason for the low percentage of the renewable energy of the total energy sources available and which does not exceed an average of about 6% for Arab Countries, mostly from hydroelectric power for more than 20% global average. Something that would necessitate the Arab countries, especially Egypt, to study and determine the use of solar energy applications for the deployment of use in severe arid areas, which requires raising the awareness of the residents of the new lands with this use and make them aware of sustainable practices, in order to invest in and implement development projects to raise integrated agriculturally, industrially and service using those applications. Therefore, the research targeted the determination of the possibilities of achieving sustainable development in extremely arid areas in the Arab countries and particularly Egypt using solar energy applications. so the research reached the possibility of creating sustainable cities in the severe arid areas to be able to feed itself through various farming systems that use all solar energy applications in all sectors, whether agricultural, industrial or service sectors as it moved and directed senior Arab investors to The allocation of their capital to invest in solar energy cooperation with renewable energy funds in the direct financing of investments.

**Key words:**Renewable energies - Solar energy - Solar systems - New lands -Sustainable Development.

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