# Drivers for roof solar panels in Qatar

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The deployment of solar panels on homes in Qatar is a necessary and crucial step in achieving the nation's vision for clean energy by 2030. However, there are several key challenges that must be addressed before Qatar can successfully deploy solar panels on a large scale. A previous study identified the top five challenges hindering the deployment of solar panels in Qatar, which include a lack of interest in renewable energy due to the availability of other sources of energy; subsidized conventional electricity that makes renewable energy uncompetitive; lack of awareness of renewable energy; shortage of government initiatives; and a lack of environmental concern. To address these challenges, stakeholders can consider six PANELS drivers (potential, awareness, net-zero pathway, energy efficiency, lowering subsidies, and sustainability). Qatar has immense potential for investing in solar energy, given its high number of sun hours per day, experience in the energy market, and financial capacity to invest at a large scale. The country has set ambitious goals to generate 20% of its energy needs from renewable sources by 2030, and solar energy is an important part of this strategy. Lack of awareness has been identified as a key challenge to the deployment of renewable energy in Qatar. To address this, it is important for the government to implement projects that enable households to engage and demonstrate the benefits of installing solar panels. The installation of solar panels can play a significant role in raising awareness and driving transformation towards the use of clean energy. In addition, raising public awareness of renewable energy can lead to increased support for policies and initiatives aimed at promoting clean energy. Energy efficiency is another important driver for the adoption of solar panels in Qatar. Buildings in Qatar consume a significant amount of energy due to the hot climate, and improving energy efficiency can help reduce the overall energy consumption. Lowering subsidies for conventional electricity can also help make renewable energy more competitive. Sustainability is another important driver for the adoption of solar panels in Qatar. The country is committed to reducing its carbon footprint, and solar energy can help contribute significantly to meeting the country's energy needs while reducing greenhouse gas emissions. In conclusion, the deployment of solar panels on homes in Qatar is an essential step in achieving the nation's vision for clean energy by 2030. By considering the six PANELS drivers, stakeholders can create effective strategies for promoting the adoption of solar panel installations and realizing the vision for a sustainable future.

**Biography:** Dr. Ziad Hunaiti is the CEO of Knowledge Well and a University of Cambridge qualified coach. He is also a visiting scholar at the University of Brunel, London. With over 50 journal articles, Dr. Hunaiti is a multidisciplinary researcher with expertise in various fields.

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