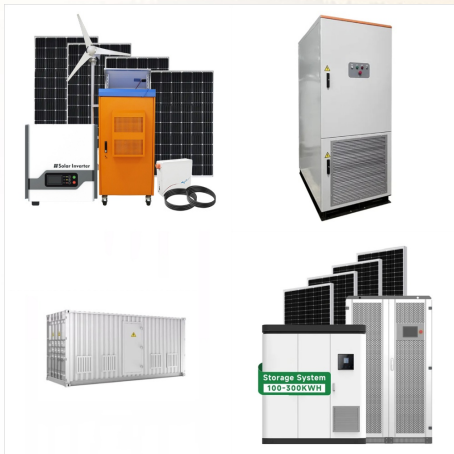




An innovative Saudi-based solar windows startup has set its sights on solving the world's growing demand for clean energy sources. Called iyris, the award-winning company, incubated by the King Abdullah University ???



However, solar power accounted for just 0.5% of the country's total electricity production in 2020, with oil and gas dominating the country's domestic energy mix. Yet this is not to say that Saudi Arabia's solar industry is non-existent, merely that it has invested more readily in foreign projects than ones on its own doorstep.



Saudi Arabia is a member of the Gulf Cooperation Council (GCC) countries, with an annual GDP of \$1,108,150 million [10] and also a country heavily relying on fossil fuels that results in large-scale CO<sub>2</sub> emission [7], [11]. According to Patalong [12], Saudi Arabia has set ambitious goals for renewable energy, hoping to reach 27.3 GW by 2024 and 58.7 GW by 2030.

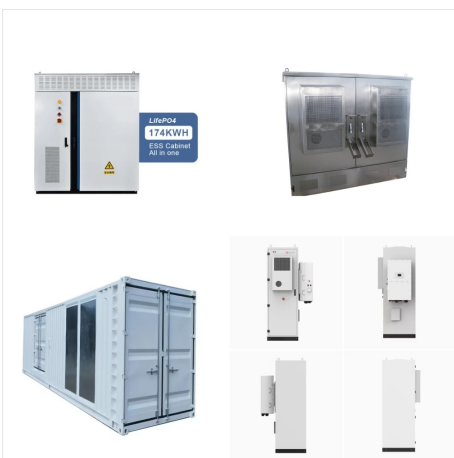
# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



RIYADH: Saudi startup Mirai Solar placed second, after Egypt's Viridia Tech, in the first run of the Mega Green Accelerator program, a scheme to promote environmental startups in the Middle East.



tion of solar modules.<sup>5</sup> The International Energy Agency predicts that solar energy will account for over 5 percent of the global power production capacity by 2020.<sup>6</sup> Makio Yamada Makio Yamada investigates economic diversification in Saudi Arabia and G.C.C. countries and their economic relations with Asian countries. He is a Teaching Fellow



An Innovate UK-funded industry group is working on a new generation of transparent solar panel technology that matches the costs and performance of standard high-performance glazing while delivering clean, ???

# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Saudi Arabia is positioning itself as a key player in the global renewable energy sector with a bold goal of generating 50% of its electricity from renewables by 2030. This ambitious plan includes significant investments in solar energy, capitalizing on the country's abundant sunlight.. Saudi Arabia gets \$3.2billion funding for 5.5GW Solar Projects. .



The global solar windows market size was valued at \$9.0 million in 2022, and solar windows industry is projected to reach \$22.5 million by 2032, growing at a CAGR of 9.6% from 2023 to 2032.



Ubiquitous Energy is building transparent solar windows with the material. Ubiquitous Energy deposits organic layers directly on glass using standard glass coating equipment. According to the firm, the transparent solar ???

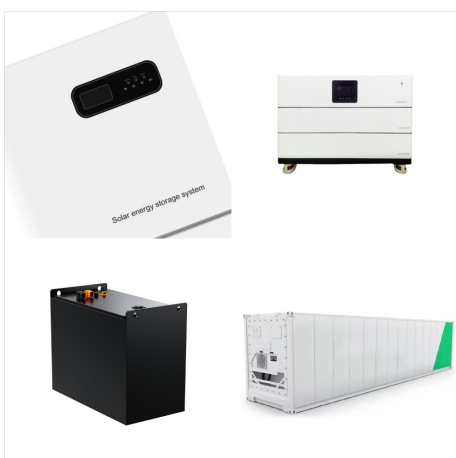
# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Transparent solar panels look like clear glass and let light through like regular windows. But they're made with a type of solar glass that absorbs ultraviolet and infrared light types of light that aren't visible to the ???



1-Accelerate Investment in Solar Energy Infrastructure: Investing in solar energy infrastructure is pivotal for Saudi Arabia's journey towards a sustainable and resilient future. This entails channeling increased ???



"To both residential and commercial building occupants, Ubiquitous Energy's transparent solar windows provide a clear, natural experience that is expected from traditional windows, but with renewable energy generation that can be used for self-contained, on-board power and smart functionality or to offset energy consumption elsewhere.



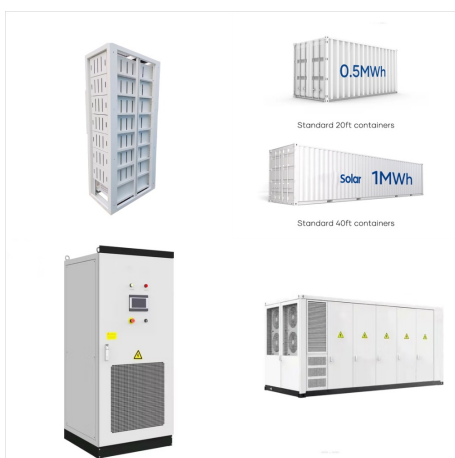
# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Saudi Arabia's Renewable Energy Ambitions. Saudi Arabia has established a goal to source at least 50 percent of its power from renewable energy by 2030, 58.7 GW of which is expected to come from solar and 40 GW from wind. This target is the most ambitious of its kind among Gulf Cooperation Council (GCC) countries (Figure 1).



London ??? While maintaining its leading global position as a producer of hydrocarbons, Saudi Arabia is embarking on a major transformation of its energy sector, rolling out cleantech projects???ranging from hydrogen and carbon capture to solar and wind power???as part of its long-term plans to achieve a zero-carbon economy, a new report by the Energy ???



Saudi Arabia (SA), being the world's largest oil producer and exporter, has traditionally relied on oil and gas for electricity generation due to abundant reserves and a significant role in global oil markets [14].However, the environmental impacts of fossil fuel usage, such as air pollution, greenhouse gas emissions, and climate change, have prompted the ???

# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Ubiquitous Energy estimates the windows would provide about 30 per cent of a building's electricity needs, depending on factors such as geographical location, elevation and tree cover, and imagine



Current Developments and Future Prospects. Several companies are actively working on commercializing solar window technology: Ubiquitous Energy: This company has rolled out its UE Power product in 12 pilot installations, including at Michigan State University and its own headquarters in Redwood, California. They aim to manufacture floor-to-ceiling solar ???



Saudi Authority for Industrial Cities and Technology Zones (Modon) announced that it houses 23 factories to support renewable energy supply chains in the Kingdom, including solar energy panels and systems. ???

# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



This renewable project is a new milestone for TotalEnergies in Saudi Arabia where TotalEnergies is currently building the 119 MW Wadi Al Dawasir solar power plant, which will start operation in



The Chinese solar PV supplier JinkoSolar has signed a supply contract with the Saudi company ACWA Power to deliver 3 GW of solar panels for the PIF4 solar cluster project in Saudi Arabia. The contract features two major sub-projects within the PIF4 cluster, namely the 1.2 GW Haden project, located near Makkah, and the 1.8 GW Al-Khushaybi project, located in ???



Saudi Authority for Industrial Cities and Technology Zones (Modon) announced that it houses 23 factories to support renewable energy supply chains in the Kingdom, including solar energy panels and systems. Modon CEO Khalid al-Salem said the Authority supports the renewable energy sector by empowering supply chains and localizing its main components ???

# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Saudi Arabia has significant potential in renewable energy, and has worked in recent years to harness the power of the sun and wind to generate electricity. of Household Energy Survey 2019" from the General Authority for Statistics finding that only 1.6% of respondents use solar energy at home. Even so, 52.3% of respondents were



The Saudi Power Procurement Company (SPPC) has unveiled the qualified developers for 4.5 GW of solar and wind projects offered as part of the sixth round of the country's National Renewable Energy Programme (NREP).



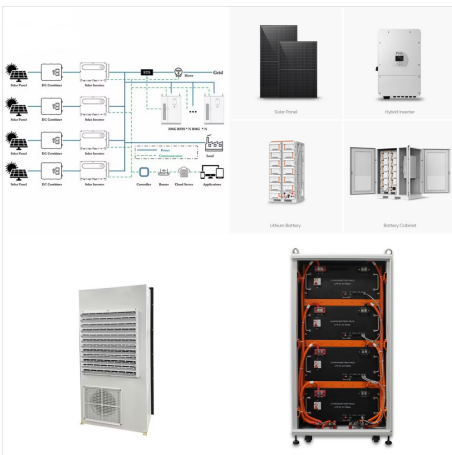
Jeddah-based Desert Technologies, which already operates a PV assembly line in Saudi Arabia with an annual capacity of 110 MW for high-efficiency PERC monocrystalline modules (up to 540Wp power output) has announced a major expansion plan. With an annual nameplate capacity of 5GW, the firm plans a 3GW solar cell manufacturing capacity and a ???



# SAUDI ARABIA UBIQUITOUS ENERGY SOLAR WINDOWS



Glass provides our windows to the world, but it can also be the weakest link. Solar Gard Armorcoat(R) can keep occupants safe and protects your assets from weather and intrusion. 79% of solar energy. 0% Energy Cost Savings. Save up to 30% on your annual energy bills. 0% UV light Protection. Solar Gard films block over 99% of harmful UV



According to the General Authority of Statistics, the percentage of households using solar energy in Saudi Arabia was only 1.6% in average in 2018. On the other hand, the percentage of households who want to use PV technology in ???