

Does Saudi Arabia have a low-carbon economy?

Saudi Arabia is taking a more active role to enact local policies towards a lower-carbon economy. There is a growing push within the Kingdom to develop and apply clean energy technologies and reduce dependence of the domestic economy on oil consumption.

Does Saudi Arabia need subsidized energy?

Increasing demands on the energy resources due to rapid industrialization and population growth has raised awareness in Saudi Arabia that decades of subsidized energy and profligate energy usage is no longer a viable option, neither as part of a national energy policy nor as part of its international environmental commitments.

What is the most critical sub-barrier in KSA?

In this study, dependence on fossil fuels (B13) is identified as the most critical sub-barrier because it plays a substantial role in KSA's energy and economy. Many countries, especially those with rich fossil fuel reserves, are struggling to switch from traditional energy sources to renewables.

Is re a problem in the KSA?

New jobs in RE and job losses in existing industries could be problems as the KSA shifts from an oil-driven economy to one based on RE. The third highest-ranked sub-barrier was cultural and social norms (B74). RE should be acknowledged culturally in the KSA, where oil is a major economic and social factor.

How does UNDP help Saudi Arabia?

UNDP plays a key role in assisting Saudi Arabia with the enabling activities necessary to undertake its commitment under the UN Framework Convention on Climate Change (UNFCCC) through its Second National Communication (NSC) Programme.

What are the best solution strategies for re adoption in the KSA?

First, the fuzzy AHP method was used to assess the weights of the main barriers and sub-barriers impeding the adoption of RE in the KSA. Next, the fuzzy TOPSIS method is used to rank the best solution strategies for the successful adoption of RE technologies in the context of the KSA. Fig. 2. The hierarchical decision-making framework. 5.1.

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Digitalization and the adoption of smart energy solutions are central to Saudi Arabia's efforts to modernize its energy sector and achieve the goals outlined in Vision 2030. These technologies ...

The shift from fossil fuels to low-carbon energy solutions is crucial to mitigate the effects of climate change.

The Kingdom of Saudi Arabia (KSA) has formulated a policy framework to accelerate the development of renewable energy (RE) as part of Vision 2030.

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Saudi Arabia's energy strategy focuses on maximising returns from hydrocarbons while expanding renewable energy capacity. Acknowledging peak oil demand could occur before 2030, the Kingdom is investing in clean energy solutions. With plans to produce 50% of its energy from renewables by 2030, Saudi Arabia is diversifying its energy mix. The National Renewable ...

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Digitalization and the adoption of smart energy solutions are central to Saudi Arabia's efforts to modernize its energy sector and achieve the goals outlined in Vision 2030. These technologies are instrumental in enhancing energy efficiency, optimizing resource utilization, and ensuring a sustainable energy future for the Kingdom.

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We specialize in providing sustainable solutions to increase energy efficiency and within the framework of Saudi Vision 2030 towards a future that ensures zero carbon neutrality by 2060 and a commitment to clean

energy and sustainability.

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