

Is solar energy a viable energy source in Iraq?

Solar energy potential for 14 different areas in Iraq was estimated, and it was in range of (2200-3300 kWh). The wind speed at 10 m above ground level for many regions in Iraq is also suitable for electricity generation. The environmental impacts of the energy production based on the current scenario were compared with renewable and natural gas.

What is Iraq's solar energy strategy?

Iraq's solar energy strategy should be based on attracting foreign direct investments with strong commitment to diversifying its energy mix and to become energy independent bolstered by its willingness to collaborate with international array of local and foreign partners. Iraq's path forward is not, however, free of potential pitfalls.

Is Iraq suitable for solar energy exploitation?

Iraq geographical location is quite suitable for solar energy exploitation, as it is located in the southwestern side of the Asian continent extending between (29.50-37.22  $^{\circ}$  N) and (38.45-48.45  $^{\circ}$  E) (Shubbar et al. 2016; Jassim and Goff 2006).

Does Iraq need to invest in solar energy?

The country's approach by Gaffney, Cline & Associates in 2018 for the to attract investment in solar energy has not Government of Iraq (GoI), Iraq needs to invest been very successful previously, including the more than US \$44 billion for five years in gas-to- government offer of US\$ 3.5 per kWh feed-power value chain.

How can small and medium scale solar be used in Iraq?

solutions of small and medium scale solar, which are more than rooftop but less scaled than utility scale such as distributed generation, which has not been addressed so far in Iraq, and could participate in relieving the overload on the national grid, achieve de-centralization, create jobs, develop SMEs, reduce electricity bills on the long-term.

Does Iraq have a good power sector?

As a major producer, Iraq's electricity sector is almost entirely dependent on fossil fuels, which account for more than 80% of power generation. Despite its vast energy resources, the performance of the country's power sector is sub-optimal.

This paper aims to highlight the importance of solar energy in Iraq as a potential contributor to help bridge the gap between electricity supply and growing demand. ... no. 1, pp. 33-40, 2017. K. I. Abaas & M. T. Chaichan, "Experimental study of using solar energy storage wall for heating Iraqi houses purposes," Wassit Journal for Science ...

However, this energy source can play an important role in energy production in Iraq, as the global solar

radiation ranging from 2000 kWh/m<sup>2</sup> to a 2500 kWh/m<sup>2</sup> annual daily average. In addition, the study presents the limited current solar energy activities in Iraq. The attempts of the Iraqi government to utilize solar energy are also presented.

Solar energy potential in Iraq is significant due to its geographic location within the Sun Belt. ... solar: Off-river pumped hydro energy storage site selection: Li et al. (2020) China: GIS-based fuzzy multi-criteria evaluation ... yearly maintenance charges for the cabling, and the average grid electricity rate were all taken into account ...

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Iraq's \$680 million fund for clean energy development supports these efforts, demonstrating the government's ambition to build a green economy and foster international cooperation aiming for this goal. Fragile grid demands innovative solutions. As the demand for solar power grows in Iraq, Iraq emerges as a burgeoning solar market.

to rotate working pumps [31, 32]. Solar energy can also be used directly to produce potable water [33, 34]. Despite the enormous potential of Iraq in the field of solar applications but to date it is backward and rare use. The shift to solar energy needs a lot of attention and educating the public on its importance.

This study presents an outlook on the renewable energies in Iraq, and the potential for deploying concentrated solar power technologies to support power generation in Iraq. Solar energy has not been sufficiently utilized at present in Iraq. However, this energy source can play an important role in energy production in Iraq, as the global solar radiation ranging from ...

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