

Does Iraq have a green energy policy?

The establishment of Iraq Renewable Energy and Energy Efficiency Agency in 2010 and the formation of the Iraq Renewable Energy Agency (IREA) in 2016 further solidified the country commitment to green energy. In 2018, the country electric power consumption had risen to 0.75 MWh per capita, and wind energy capacity reached 100 MW.

Why is Iraq launching a Green Hydrogen strategy in 2030?

The culmination of these efforts is evident in the launch of Iraq green hydrogen strategy in 2030, which marks a significant step towards a sustainable energy future with renewable energy contributing 25% to the electricity generation mix by 2027. 60, 61, 62. Table 3.

Can a green hydrogen-based energy system help Iraq achieve sustainable economic resilience?

The study investigates the potential of transitioning Iraq, a nation significantly dependent on fossil fuels, toward a green hydrogen-based energy system as a pathway to achieving sustainable economic resilience. As of 2022, Iraqi energy supply is over 90% reliant on hydrocarbons, which also account for 95% of the country foreign exchange earnings.

What is the future of electricity supply in Iraq?

There are a number of pathways available for the future of electricity supply in Iraq but the most affordable, reliable and sustainable path requires cutting network losses by half at least, strengthening regional interconnections, putting captured gas to use in efficient power plants, and increasing the share of renewables in the mix.

Does Iraq need a green hydrogen economy?

Iraq faces a unique set of obstacles that must be addressed to ensure a successful and sustainable shift towards a green hydrogen economy. One of the challenges for sustainable country transition to a green hydrogen economy lies in its energy infrastructure, which relies heavily on fossil fuels.

How much natural gas did Iraq produce in 2022?

Iraq consumed significantly more natural gas than it produced in 2021, primarily for electric power generation. The country also flared over 630 billion cubic feet (Bcf) of natural gas in 2022 due to inadequate pipeline and processing infrastructure, making it the second-largest flaring country globally.

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Iraq's Ministry of Electricity announced on Friday the launch of combined cycle projects across 67 existing power plants, with a goal of generating 4,000 megawatts (MW) of clean energy.

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The combination of high solar irradiance and moderate wind speeds presents an advantageous scenario for integrating renewable energy sources into green hydrogen production in Iraq. Solar energy can be utilized by deploying solar panels or concentrating solar power systems, while wind energy can be tapped by setting up wind turbines.

A ROADMAP TO PREPARE IRAQ'S POWER SECTOR FOR ENERGY TRANSITION <https://iraq.fes> iii
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