

Iraq intends to generate 25% of its energy from green sources by 2030, and in 2022 made \$750m in low interest loans available to fund solar initiatives. An increase in renewable power will drive growth in green hydrogen and ammonia production.

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.

Iraq boasts substantial renewable energy reserves, particularly abundant solar exposure with approximately 300 days of sunshine annually, and formidable wind resources in its western and southern regions [76]. Furthermore, with a projected significant growth in population over the impending years, a commensurate surge in energy demand is ...

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Iraq has one of the highest solar irradiation levels in the world, according to a study conducted by the trade association of the German solar energy industry on behalf of GIZ in 2023. The country's abundant sunlight provides the basis for solar energy production.

In a strategic move toward harnessing the untapped potential of Iraq's solar landscape, major global photovoltaic (PV) players are taking the lead in shaping the nation's green energy sector.

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Iraq boasts a strong potential renewable energy base: It has significant solar irradiance levels, economically-viable wind speeds in some areas, and hot springs that could present an opportunity for the geothermal development (pending technical assessments).

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The present paper explores the status of and future prospects for renewable energy in Iraq. The potential of

renewable energy sources has been revised and a review has been completed of available renewable energy options in the industrial and electrical sectors.

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