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The present study examines the potential for hydrogen production using the hybrid energy system at the Shagaya renewable power plant. Techno-economic and optimization analyses are used to identify the optimum configurations that reduce costs while increasing the renewable fraction and lowering greenhouse gas emissions.

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Keywords: Renewable energy, Kuwait power grid, solar photovoltaic system, environmental impact. Journal of Engg. Research, GCC 1st Engg.W Symposium Special Issue 1. INTRODUCTION Kuwait has high solar energy potential, with 2500-3000 sun hours per year and average ... power systems of the Arabian Gulf states. GCCIA was established to improve ...

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The Shagaya renewable power plant located in Kuwait's western region, where sunlight and wind are abundant, is an example of a hybrid energy system that utilizes a range of sustainable resources such as solar,

wind, and thermal power to generate electricity, with plans to achieve 3.2 GWe by 2030 [10].

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