Iraq hybrid on grid solar system

Hybrid energy systems (HESs) consisting of both conventional and renewable energy sources can help to drastically reduce fossil fuel utilization and greenhouse gas emissions.

Solar energy and hybrid microgrids in Iraq can greatly reduce fossil fuel reliance. Iraq"s daily power outages show the urgent need for reliable, sustainable energy. Delphi survey shows neighborhood diesel generators are an inefficient, costly fix.

It is obvious from Table 3 that the hybrid system composed of a 7 kW PV, 21 batteries, and a 5 kW converter with the national grid is the optimum option. The NPC and COE of this scenario are USD 33,747 and 0.142 USD/kWh, respectively.

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