

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 ...

Research and Technology, vol. 32, p p. 345-360, 2011. [50] M. -H. Kim, and J.-W. Jeong, Cooling performance of a 100% outdoor air system integrated with indirect and direct evaporative coolers

The research evaluates the impact of applying the SSBD-DSIoEW for governmental power generation plants and investigates the challenges and obstacles of SSBD-DSIoEW applications in Iraq by ...

analyzed. It is emphasized that in the actual research and development, the research and design of the dehumidifier must be considered in the entire dehumidification evaporative cooling air conditioning system. At present, power-driven cooling and dehumidification are widely used in industry, but its main disadvantage is high energy consumption.

As an efficient energy storage method, thermodynamic electricity storage includes compressed air energy storage (CAES), compressed CO<sub>2</sub> energy storage (CCES) and pumped thermal energy storage (PTES). At present, these three thermodynamic electricity storage technologies have been widely investigated and play an increasingly important role in ...

Energy is essential in our daily lives to increase human development, which leads to economic growth and productivity. In recent national development plans and policies, numerous nations have prioritized sustainable energy storage. To promote sustainable energy use, energy storage systems are being deployed to store excess energy generated from ...

Iraq merely has "voluntary consociational arrangements in the federal government" (O'Leary, Citation 2010a, p. 79, emphasis added), risking that some groups are left out. The Ethnic Power Relations dataset lists the Sunni Arabs as being "powerless" after 2012, meaning their elite representatives do not hold power or do not have influence on decision ...

Energy storage systems are essential in modern energy infrastructure, addressing efficiency, power quality, and reliability challenges in DC/AC power systems. Recognized for their indispensable role in ensuring grid stability and seamless integration with renewable energy sources. These storage systems prove crucial for aircraft, shipboard ...

Battery technologies overview for energy storage applications in power systems is given. Lead-acid, lithium-ion, nickel-cadmium, nickel-metal hydride, sodium-sulfur and vanadium-redox flow ...

Large-scale energy storage technology is crucial to maintaining a high-proportion renewable energy power system stability and addressing the energy crisis and environmental problems.

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The resource orientation of the Iraqi economy implies the development of a competitive advantage of the oil industry through the industry's infrastructure development.

The research addresses the role of the digital economy in the growth of the Iraqi economy during the period from 2010 to 2022. The research is based on the hypothesis that the digital economy has ...

Recent advancements in single-stage evaporative cooling (EC) have showcased their effectiveness as an energy-efficient and sustainable air-conditioning (AC) solution. However, several challenges hinder the widespread adoption of EC in various applications. These challenges include climate sensitivity, substantial spatial requirements, ...

In Iraq, the aging power plants, transmission losses, and inadequate distribution networks have led to inefficiencies in energy supply, contributing to power shortages during ...

The research contributes valuable insights into the dynamics of electricity supply and demand in Iraq and offers performance evaluations for better energy planning and ...

- 1) Determining whether the Iraqi EFL university learners observe or flout the maxims of politeness principle.
- 2) Assessing the mastery of the maxims of politeness principle by the Iraqi EFL university learners.
- 3) Identifying which maxim(s) of ...

The Article comprises legal evaluation of Iraqi constitutionalism in its historical context - the study is devoted to understanding the constitutional dynamic happened over almost 20 years.

In this study a 4.4 kW stationary compression ignition engine is coupled with a double pipe heat exchanger, vapour absorption refrigeration system and thermal energy storage system to achieve ...

The erosion of the "50-50" principle of splitting power between Iraqi Kurdistan's main political parties could have serious consequences for the future of the region. ... As an independent institution, we produce evidence-based research, publications and events on defence, security and international affairs to help build a safer UK and a ...

1. Introduction. For decades, science has been intensively researching electrochemical systems that exhibit extremely high capacitance values (in the order of hundreds of Fg<sup>-1</sup>), which were previously unattainable. The early researches have shown the unsuspected possibilities of supercapacitors and traced a new direction for the development of electrical ...

Washington, D.C., United States of America; April 18, 2024: GE Vernova (NYSE: GEV) has announced multiple strategic initiatives with the Republic of Iraq aiming to boost generation and enhance the availability of power supply across the country. The announcements were made on the sidelines of the Iraqi Prime Minister H.E. Mohammed Shia'a Al-Sudani's ...

A stand-alone LAES normally has three key subsystems, namely an air liquefaction unit (LFU) for charging, a storage subsystem, and a power recovery unit (PRU) for discharging, as illustrated in figure 2. The storage subsystem consists of three stores, one for liquid air (main store), one for compression heat and one for high-grade cold energy.

This study aims to analyze and implement methods for storing electrical energy directly or indirectly in the Iraq National Grid to avoid electricity shortage. Renewable energy ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power generation from wind and solar resources is a key strategy for decarbonizing electricity. Storage enables electricity systems to remain in... [Read more](#)

Intelligence Agency (CIA) concluded that more than 90 percent of Iraq's petroleum-refining capacity was rendered inoperative. The ironic aspect of all this is that Iraqi forces required very little petroleum. The Iraqi air force essentially sat out the war, and ground forces in Kuwait used Kuwaiti refining capabilities and oil stocks.

in Table 3 indicate the highest net power capacity of Iraqi power stations and other facilities that use renewable-energy sources to generate electricity. The total capacity includes

The study aims at investigating and evaluating the application of green building principles in the Iraqi construction legislation through conducting a comparative analysis of Iraqi environment and ...

The chapter explains the various energy-storage systems followed by the principle and mechanism of the electrochemical energy-storage system in detail. Various strategies including hybridization, doping, pore structure control, composite formation and surface functionalization for improving the capacitance and performance of the advanced energy ...

Recovering compression waste heat using latent thermal energy storage (LTES) is a promising method to enhance the round-trip efficiency of compressed air energy storage (CAES) systems.

Opponents of the Iraq war argue that this failure by the UN showed the frailty of the Security Council and its limitations in restraining member states from resorting to the use of armed force. Notably, the US and its allies disregarded the sovereignty principle which has high priority in the UN Charter (Franck, Citation 2003).

Iraq has had a unique, extraordinary, and contradictory historical relationship with international law and world order. From its inception as a modern and sovereign state in 1932, it was considered the pride of the new postwar order - a triumph of the "peaceful" workings of the international institution of the Mandate system of the League of Nations.

In this research, we study the operation and challenges of a renewable energy facility in the city of Kut, in central Iraq, which is common in Iraq, the electricity is generating from oil and gas which are harmful to the environment. In the article we have made a detailed study on power generation by relying on sunlight and the water of the Tigris

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