



Contribution ID: 82

Type: Oral

Strengthening Regulatory Infrastructures to Establish Iraqi Nuclear Power Plant Programme and Deployment of Small Modular Reactor (SMRs)

Strengthening Regulatory Infrastructures to Establish Iraqi Nuclear Power Plant Programme and Deployment of Small Modular Reactor (SMRs)

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Abstract:

The total electrical energy installed in Iraq is about 34 GW, including investment stations for the private sector, which amounts to 10 GW, at an annual production rate of 18 GW, and the highest production achieved in September 2022 amounted to 24 GW, which is the highest peak load achieved, while the highest peak load required is 32 GW, with an annual demand growth rate. The rates of processing hours for the whole of Iraq reached 17 hours, and these numbers represented the best numbers since 2003. The biggest obstacle affecting the production of electric power was the provision of the necessary fuel, especially natural gas, for gas generation stations.

According to the five-year plan of the Ministry of Electricity, the total energy will be 42 GW by the year 2026, including solar energy, while the biggest challenge to benefit from the available generated energy is to provide the necessary fuel.

Recovery of the country following the war and reconstruction of the destroyed infrastructure is the Government's highest priority, with a great focus on increasing electric power production, power transmission, and distribution networks, rehabilitation of old power generation stations, networks, and power transmission lines, and introducing some modern technologies in the field of electric power. Other priority areas of development include improving education at all levels, enhancing research and development (R&D) programmes, harnessing R&D for water resource management, harnessing information and communication technology in support of development projects, and improving trade and export.

The Integrated National Energy Strategy (INES) for Iraq describes the current challenges facing Iraq's energy sector and the opportunities presented by energy sources.

Country OR International Organization

Iraq

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Track Classification: Topical Group D: Considerations to Facilitate Deployment of SMRs: Track 13: SMRs in Energy Planning for Climate Change Mitigation