

Who is responsible for Energy Management and production in Pakistan?

After the independence of Pakistan in 1947, regional governments were responsible for energy management and production until the inception of the Water and Power Development Authority (WAPDA) in 1958 [24]. In later years, the indigenous energy resources are identified and were dedicated for only power generation.

Why is smart technology a problem in Pakistan?

The modern world is using smart technology like High Voltage DC (HVDC), smart sensing instruments, advanced measuring devices, and Flexible AC Transmission System (FACTS) [68]. While in Pakistan, the controlling methods are outdated. The main reason behind the shortfall is untrained staff, lack of facilities, and inadequate resources.

Why is smart grid implementation a problem in Pakistan?

Issues and challenges for smart grid implementation in Pakistan The net income of the power sector of Pakistan is encountering a huge shortfall, the main reason of which seems to be the non-technical losses (NTL's). Human manipulations that are mainly external to the system have only added to these losses over the past twenty years [42].

What are the problems facing the power sector in Pakistan?

The power sector of Pakistan is facing many issues such as departmental mismanagement, huge dependence on imported fossil fuels, the greater cost of power generation, lower production of energy along with old monitoring and controlling mechanism equipped with outdated devices.

Which is the cheapest source of electricity in Pakistan?

The total capacity of coal in Pakistan is around 185 billion tons and is considered the cheapest source of electricity in Pakistan. The major coal field lies in the province of Sindh with a capacity of 175 billion tons.

How has disruption impacted power system reliability in Pakistan?

The economic growth of Pakistan has been plunged dramatically. Prior to the economy, the investment in the power sector is also reduced. Consequently, the disturbance and disruption have greatly affected the power system reliability.

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Potential implementation of smart grid technologies has been given wide attention for modernization of electrical power systems. Existing power grid infrastructure of Pakistan is ill-suited to ...

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In the 21 <sup>&st</sup>-century energy is crucial for existence, and its constant and abundant supply provides a country with much-needed economic growth and social development. However, Pakistan's electrical power infrastructure is deficient due to insufficient and inefficient power generation, inadequate transmission and distribution facilities, and obsolete metering systems ...

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