

Which technology is the dominant technology in Iran's long-term power sector?

The results showed that combined cycle would be the dominant technology in Iran's long-term power sector. Moreover, electricity generation from non-hydro renewables, solar PV in particular, should grow faster than the total power generation.

Are long-term energy planning studies in Iran satisfactory?

Conclusion and recommendations In this paper, the major long-term energy planning studies in Iran were reviewed. The reviews show that energy and power sector developments have mainly resulted from short-term plans and accordingly, the present situation is unsatisfactory.

How much natural gas is used in Iran's power plant?

Investigating the shares of different fuels in Iran's power sector during the previous three decades shows that the natural gas contributes between 42% and 75%, and the rest share belongs to liquid fuels [2,72]. It is assumed that the highest amount of available natural gas for power plant consumption in the base year is 70%.

Is resilient power system a key element for the smart grid?

Abstract: Due to the remarkable development of technology and economy, the resilient power system is emerging as a key element which inevitably leads us towards the Smart Grid.

grid and as a result, an overview of essential requirements for the implementation of a smart grid in Iran is obtained. The process of establishing the smart grid in Iran together with analysis of its

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to select optimal sites for solar power plants was utilized in Iran based on various climatic conditions and factors such as solar radiation, temperature, and humidity by Ahadi et al. [14]. This research aimed to determine the best location for constructing a solar power plant to harness Iran's high solar potential.

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The challenges concerning with the implementation of this concept along with their possible solutions are finally addressed in the power grid of Iran. Due to the remarkable development of technology and economy, the resilient power system is emerging as a key element which inevitably leads us towards the Smart Grid.

This smart grid should be able to bring new abilities such as high reliability, self-healing, energy efficiency, price response, peak load reduction, and distribution automation. This paper gives a ...

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Abstract Historically, the power distribution grid was a passive system with limited control capabilities. Due to its increasing digitalization, this paradigm has shifted: the passive architecture of the power system itself, which includes cables, lines, and transformers, is extended by a communication infrastructure to become an active distribution grid.

Proposing solutions to improve the situation of the Iranian day-ahead market. Abstract. Iranian day-ahead market (IDAM) launched in 2003. ... it is necessary to explain the condition of Iran's power grid and market. Table 2 shows the installed capacity and the number of power units, based on the type of generation, in Iran's

power grid in 2020 ...

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