

The smart grid is a network of computers and power infrastructures that observe power system parameters and control energy usage. Smart power grids supports decision makers using sensor networks and adaptive and intelligent algorithms of post failure restoration ensure quick and precise localization of faults and selection of the best ...

This article intends to present the implementation roadmap methodology of smart Iran's Electricity distribution networks by examining the road map of smarting in different countries and analyzing them, as well as reviewing the present situation of Iran from the point of view of smarting.

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studying the way of running the Smart Grid in the Iranian power network. The Iran Energy Efficiency Organization (IEEO) or SABA is responsible to carry out the design of Smart Grid in Iran. In this section some of the activities in Iran to reach the power grid modernization and the establishing of the Smart Grid are mentioned here.

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The vision of this roadmap says, the Islamic Republic of Iran, by 2025, aims to develop an electric smart grid as an efficient, secure, flexible, and stable grid that delivers the required high quality and reliable power to consumers and stakeholders.

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The smart grid concept incorporates many issues such as power system stability, power system reliability, self-healing, renewable energies, privacy and security, energy storage, flexibility in ...

electric utility network [4]. IEEE defines a smart grid as "an automated, widely distributed energy delivery network characterized by a two-way flow of electricity and information, capable of monitoring and responding to changes in everything from power plants to customer preferences to individual appliances" [5]. 1.2 Smart

## Transmission Grid

To identify the priorities and assets of Iran power electricity network, experts' viewpoints from industry and university have been collected using designed forms. Figure 7 demonstrates the...

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objectives of Iran Department of Energy, display deep changes in expansion of electricity network. It means smart grid, smart metering and new management is necessary. Three main parts of this research are (a) Definition of AMR, AMI, generic benefit of smart metering. (b) Smart metering

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This chapter is composed of two major sections: Smart Grid Technology Roadmap in Iran and National Smart Metering Program (FAHAM). The first section is develops the Iran smart grid roadmap project, which is one of the subprojects of the Iran Smart Grid National Grand Project. The roadmap focuses on technology development.

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# Smart electricity distribution networks Iran

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