

In this study, the restructuring plan of Iran's distribution network into a smart grid configuration is proposed, in which various scenarios such as the integration of smart metering systems, hybrid electric vehicles, smart buildings, distributed generation sources, energy storage facilities, and demand-side resources have been investigated.

This paper presents a comprehensive feasibility study for the construction of a 10-MW grid-connected photovoltaic (PV) power plant aimed at mitigating energy deficits in Iran's iron ore mining sector, particularly during blackout periods.

The paper presents a multi-year, multi-objective framework for integrating Renewable Energy Sources (RESs) into the high voltage transmission network of Iran's National Power Grid ...

Discussions emphasized the need for reforming energy subsidies to incentivize renewable investments, and the importance of grid integration technologies like energy storage and smart grids to...

The paper presents a multi-year, multi-objective framework for integrating Renewable Energy Sources (RESs) into the high voltage transmission network of Iran's National Power Grid (INPG). The objective functions in this study are the total cost, including the investment cost and operating cost for the planning horizon, and the system reliability.

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

Deploying an AMI is an essential early step to grid modernization. AMI is not a single technology but it is an integration of many technologies such as smart meter, communication network and management system that provides an intelligent connection between consumers and ...

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Implementations of Smart Transmission Grid in Iran (Case Study: Khorasan Regional Electricity Company)
Abstract: Smart transmission grid developments in Iran bring forward new requirements and challenges for the national power system. Regarding to Iranian smart transmission grid roadmap, the activities performed to implement it in Khorasan

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