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Abstract:

The economy, national security, and health care all rely heavily on the reliable supply of electricity. It has been approved as a smart grid (SG) that is altering the concept of power production, distribution, monitoring, and control by integrating communication technologies and sensors into power systems, especially for EVs. Many issues must be addressed to determine the Smart Grid's compatibility. The smart grid's safety is one of the most difficult and critical aspects of its operation. For the Internet of Things permitted phase, a safe demand-side management machine that uses machine learning is suggested. According to their choices, the proposed demand-side management (DSM) machine safeguards their energy efficiency. Smart grid infiltration may be managed with a specific flexibility sample. The ML classifiers are used to predict swindling enterprises using an elastic agent. Companies that specialize in power management and intermediate control are advised to analyze power data to reduce energy consumption.

Complete Specification

Claims:1. Server for energy management in a Smart Grid environment, which includes: an application module communicably coupled to the platform server, configured to enable operation of any of a plurality of Smart Grid Apps; a consumer-side module communicably coupled with the server, and configured for bi-directional communication with a plurality of consumers; and a server-side module communicably coupled to the platform server, and configured for bi-directional communication with a plurality of consumers; and a server-side module communicably coupled to the platform server, and configured for bi-directional communication with a plurality of consumers.

2. An application module including at least one API designed to allow integration with any of a number of Smart Grid Applications is included in the platform server according to claim 1.

3. Additionally, the platform server of claim 1, wherein at least one of the Smart Grid Applications is designed to analyze and process the data, is further comprised.

4. Using a CIM (Common Information Model) standard, the translation module of the platform server of claim 4 is set to function.

5. More specifically, the computer-implemented method of claim 1 further includes: configuring the first and second nodes to collect first raw sensor data to generate the first and second time series of data values, respectively, or processing a third time series of data values received from a third node in the network environment to generate the first time series of data values.

, Description:In general, this innovation relates to electric vehicles (EVs), and more specifically, to infrastructure improvements and additions that allow for the charging of multiple EVs via a power supply grid with Artificial Intelligence (AI) and Internet of Things (IoT) capabilities.

DISCUSSION OF THE PRIOR ART:

Efforts to reduce greenhouse gas (GHG) emissions have been proposed and put into action due to this growing concern. Customers, investors, and governments alike are

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