

What is Intelligent Energy Management?

Over the last few years, the term intelligent energy management, also called smart energy management, has emerged as a growing idea in the power systems literature. This is due to the rapid increase in energy consumption in today's applications, ranging from industrial to commercial (Nizetic et al., 2020).

Can intelligent energy management systems save energy?

Forecasts show that, over the next two decades, the world's electricity production is expected to increase by over 40 per cent and its demand by approximately 85 per cent (Newell and Raimi, 2020). This has prompted the researchers and vendors to develop various intelligent energy management systems (IEMSs) for saving energy.

What are the challenges in implementing intelligent energy management systems?

Challenges in implementation of intelligent energy management systems. The output of an energy management systems is dynamic in nature and difficult to predict because of the dynamic behaviors of consumers and utilities (Yu et al., 2020).

Can intelligent energy management systems fill the existing gaps?

New perspectives in the field are proposed to fill the existing gaps. In the last decade, there have been significant developments in the field of intelligent energy management systems (IEMSs), with various methods and new solutions proposed for managing the energy resources intelligently.

Why do we need Intelligent Energy Networks?

This requires the development of more reliable, resilient, and sustainable intelligent energy networks to meet the ever-growing energy demands of the future.

How can computational intelligence be used in energy management systems?

One way to do this is to integrate computational intelligence in energy management systems while enabling technologies, such as machine learning and deep learning, can be used to read the dynamic behaviors of energy consumers.

Over the last few years, the term intelligent energy management, also called smart energy management, has emerged as a growing idea in the power systems literature. ... (2020), a concept of cross-domain data in smart energy services was presented to support a big data platform. The data was gathered from energy managers, local administrations ...

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Climate change has become a major problem for humanity in the last two decades. One of the reasons that caused it, is our daily energy waste. People consume electricity in order to use home/work appliances and devices and also reach certain levels of comfort while working or being at home. However, even though the environmental impact of this behavior is not ...

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Tel: +966 13 833 0919 Fax: +966 13 833 0939 info@i-Energy . Quick Links. About Us; Our Services; Our Team; Our Clients; Contact Us ...

Big data is an ascendant technological concepts and includes smart energy services, such as intelligent energy management, energy consumption prediction and exploitation of Internet of Things (IoT) solutions. As a result, big data technologies will have a significant impact in the energy sector. This paper proposes a high level architecture of a big data ...

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First, carry out research on key technologies of intelligent energy service system, and build an intelligent energy service system architecture based on "Internet + ubiquitous Internet of ...

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DAVOS, Switzerland, Jan. 18, 2024 /PRNewswire/ -- As global leaders gather at the World Economic Forum to discuss critical challenges facing the planet, Intelligent Energy, a pioneer in fuel cell ...

The origins of Intelligent Energy began at Loughborough University in the UK during the late 1980s, [1] when the University became one of Europe"s first research and development centres for proton-exchange membrane (PEM) fuel cell technology. In 1995, the UK"s first kW-level PEM fuel cell stack was produced by the R& D team. In June of that year, Advanced Power Sources ...

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