

What is Vietnam's Power Plan?

Vietnam's power plan prioritises building new power infrastructure to support national energy security, socio-economic development, and industrialisation. It emphasises energy transition, smart grid construction, and advanced power system management to align with global green trends.

Can AI technology improve the electrical system in Vietnam?

Vietnam developed solar and wind power. Research of AI technologies in this area is highly recommended to manage the electrical system effectively. We identified above that a systematic or meta review approach can be applied in the future to extend the aspects of analysis presented here.

How can Viet Nam become a smarter power system?

This has been a policy challenge for the industry to achieve more substantial progress in smart grids, making the power system not only more modern but also a smarter one for Viet Nam. Regulations for smart appliances capable of adjusting the demand based on supply conditions or electricity tariff.

Does Vietnam have a smart grid development roadmap?

Vietnam has been implementing the current Smart Grid Development Roadmap since 2012, following the Prime Minister's Decision No. 1670/QĐ-TTg dated 8 November 2012. However, as stated in this project TOR, the existing roadmap has not been updated to align with Vietnam's evolving policies and the significant growth in renewable energy sources.

Can AI predict energy output in Vietnam?

AI-related studies in the energy sectors in Vietnam are, however, scarce. Most AI-related studies focus on forecasting energy output and consumption. For example, Quang et al. (2021) and Nguyen et al. (2021) examine how AI technologies can be used to forecast the output of large-scale power plants.

Who manages the power sector in Vietnam?

The Vietnamese power sector is managed by the Government through the Ministry of Industry and Trade (MOIT), the Commission for Management of State Capital at Enterprises (CMSC) and other line ministries. There are four key departments and agencies under MOIT authorised with mandates to regulate the power sector.

IoT technology can render the Vietnamese power grid more adaptable, efficient, and sustainable. It serves as a foundational infrastructure for the integration of renewable energy resources, ...

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For the purpose of this analysis, Vietnam's power transmission system (500-220kV) was simulated in peak/off-peak load conditions with the largest proportion of renewable energy ...

About CHINT. Founded in 1984, CHINT Group Co., Ltd. (hereinafter referred to as "CHINT") is a global leading smart energy solutions provider. Over the past 40 years since its establishment, CHINT has always focused on industry and brand building, deeply implemented the strategy of "Industrialization, Technologization, Internationalization, Digitalization and ...

Machine learning for MCU implementation (tiny ML) is a growing field that offers new and enhanced functionality for battery management and motor control. ML algorithms discover information and patterns in complex sensor data that can be used to optimize performance and improve understanding of overall system health. In addition to advances in tiny ML techniques, ...

Vietnam's power plan prioritises building new power infrastructure to support national energy security, socio-economic development, and industrialisation. It emphasises ...

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Whether and how the implementation of intelligent power systems truly impacts carbon reduction in developing countries remains unclear. Therefore, this paper combines urban and firm-level data to explore this issue, specifically proposing the hypothesis that the implementation of intelligent measures in the electricity system can effectively ...

In a significant technological breakthrough, a local research team has successfully implemented an intelligent lighting system powered by solar energy, complemented by Internet of Things (IoT) and artificial intelligence (AI) technologies. This innovation aims to address the critical lack of infrastructure and access to the national grid in border and island ...

The proposed intelligent power quality monitoring system is developed in the LabVIEW environment. ... ISBCC"16, and ICBCC"18 in India, CCCA"14 in Vietnam and CCNC"14 in USA. His area of research includes Grid Computing, Cloud computing, Big Data, Web semantics and also involved in the domain like biomedical application, Mammogram ...

a more intelligent power system with the deep integration of smart power electronics. The smart inverter is one of the most critical components for the optimal operation of Smart Grid.

This review describes a cloud-based intelligent power management system that uses analytics as a control

signal and processes balance achievement pointer, and describes operator acknowledgments that must be shared quickly, accurately, and safely. The current study aims to introduce a conceptual and systematic structure with three main components: demand ...

**The Role of IPMs in Heat Pump Efficiency.** Intelligent power modules (IPMs) are crucial in controlling the power flow to inverter compressors and fans in heat pump systems. (Figure 2) These modules adjust the frequency and voltage of ...

Intelligent Electronic Devices (IEDs) play a vital role in the protection and control of modern power systems. They facilitate real-time monitoring, fault detection, and automation, which are essential for maintaining grid stability and reliability.

A smart power-saving system was constructed based on Internet of Things (IoT) technology to address energy waste in university classrooms, laboratories, libraries, and public office areas. The system adopts the STM32F1 microcontroller, HC-SR501 infrared sensors, and V831 video detection modules to monitor occupancy. Various sensors are used in control terminals. ...

Master intelligent motor control core technology ... During the solar power &quot;boom&quot; period in Vietnam, robots and automatic cleaning hands used to clean solar panels manufactured by Sharetech have helped many organizations and businesses operate large-scale solar power systems. ... to clean solar panels manufactured by Sharetech have helped many ...

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Prof. Kang Chongqing serves as the Chinese director of the Imperial-Tsinghua Research Center on Intelligent Power and Energy Systems, and Prof. Goren Schaubert is the British director. This is an important progress in promoting cooperation between Tsinghua University and Imperial College of London after Tsinghua University President Qiu Yong and ...

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Image credits: Vietnam Plus. The proposed first phase of the project, scheduled to run from 2025 to 2027, is estimated to cost over 392 billion VND (approximately US\$ 15.9 million), which will be sourced from the city's budget. ... The intelligent transport system is also expected to provide a crucial tool for state management agencies in the ...

Application of Intelligent Transportation Systems in Vietnam: Challenges and opportunities for sustainable transportation Paper Identification number: SCS12-013 Truong Hoang Hai<sup>1</sup>, Dinh Van Hiep<sup>2</sup> Institute of Planning and Transportation Engineering (IPTE) Telephone (+84-4) 3628-5578, Fax. (+84-4) 3628-5578

enhancement of SCADA systems for the Power Corporations, equip automation systems for 110kV substations, and install remote metering systems for large electricity consumers. Phase 3 (from 2023 onwards): focusing on automation of distribution ...

The Intelligent Smart Energy Management Systems design, as seen in Fig. 1, is for demand-side energy management that prioritizes renewable energy sources. The three main components of this strategy are a predictive smart energy management system, PV generation and data collecting, and an Internet of Things ecosystem that provides users with information ...

Smart grid implementation is facilitated by multi-source energy systems development, i.e., microgrids, which are considered the key smart grid building blocks. Whether they are alternative current (AC) or direct current ...

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