

Low-loss distribution network automation in the Gulf region



Overview

The GCC is witnessing rapid development in ports, international airports, and distribution centers, prompting the warehouse management systems in the Gulf to combine AI with IoT sensors in their workflows to minimize human errors. The Gulf Cooperation Council (GCC) is presently experiencing a technological revolution, where warehouse automation is transforming logistics networks and supply chain operations across the region. The warehouses located in the UAE, Saudi Arabia, and other GCC countries are undergoing a fundamental. To handle trade flows, the GCC logistics hubs have taken a different tack, focusing on building automated digital solutions. These. The Gulf region is rapidly evolving as a pivotal hub for global trade, driven by significant advancements in supply chain technologies. As artificial intelligence (AI) and the Internet of Things (IoT) reshape logistics and operations, professionals in Egypt, Saudi Arabia, and the wider MENA region. Gulf Automation System (GAS) is a pioneer in Industrial Automation and Applications Development that provides world-class solutions to global clientele in the areas of automation system design, assembly and integration services. The thrust areas of the company are Design, Development, Maintenance.

Article Content

Loss reduction optimization strategies for medium and low-voltage ...

Problem With the rapid development of social economy, the problem of line losses in distribution networks gradually becomes prominent, which directly affects the efficiency and economy

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Pathlock, the enabler in identity and application access governance, has announced a strategic partnership with Gulf IT Network Distribution, the leading provider of identity provisioning

Planning and Operation of Low Voltage Distribution Networks: A ...

Abstract: The low voltage (LV) distribution network is the last stage of the power network, which is connected directly to the end user customers and supplies many dispersed small-scale loads. In ...

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Future of Warehouse Automation in the GCC: Trends

The Gulf Cooperation Council (GCC) is presently experiencing a technological revolution, where warehouse automation is transforming logistics

Energy loss calculation and voltage profile improvement for the ...

The performance of Low Voltage Distribution Networks (LVDN) often falls short, resulting in high voltage fluctuations and significant energy losses for end consumers in 0.4 kV systems. This

(PDF) Low-Voltage Distribution Network Loss-Reduction

Consequently, this paper introduces a loss-reduction method for low-voltage distribution networks that leverages load-timing characteristics and adjustment capabilities.

The adoption of industry 4.0 practices by the logistics industry: A ...

This present review aims to systematically review the adoption of Industry 4.0 technologies in the Gulf Cooperation Council (GCC) region, with a focus on the logistics industry.

Control and Automation Systems for Distribution Networks

Abstract Distribution networks have traditionally had low levels of automation and control, primarily centered around the use of SCADA to monitor medium voltage (MV) feeders together with a

Innovative distribution automation for low voltage networks to ...

The energy transition requires significant investments in the modernization of worldwide electrical infrastructures. Digitalization and automation of the low voltage network are key tools to

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The article examines how mobile networks in the GCC support mobile gaming and analyzes how network speed, latency, and jitter impact the gaming

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This paper proposes a hybrid approach for optimizing DG allocation to minimize power loss in distribution systems. The proposed hybrid approach combines the Dung beetle optimizer

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(PDF) Analysis of distribution network reliability based on ...

This study uses a variety of efficiency indicators, like automation coverage, fault detection time, and consumer complaints, to discover the primary

AI And IoT Revolutionizing Gulf Supply Chains And

These certifications combine theoretical grounding with practical case studies relevant to the Gulf and MENA region, enabling learners to apply AI and IoT

Assessing the contribution of automation to the electric distribution ...

Distribution System Operators (DSOs) should adapt their network operations and business to newly developed technologies and solutions for medium and low voltage grids . Demand

Loss reduction optimization strategies for medium and low-voltage ...

Methodology In order to reduce line losses, a loss optimization model for low and medium voltage distribution networks based on an improved Gray Wolf optimization support vector machine is

Analysis of distribution network reliability based on distribution ...

This study investigates the influence of distribution automation on the dependability of electricity networks, concentrating on important functional metrics and their relationship with network efficiency.

AI and Supply Chain Automation in the GCC's Logistics Hubs

The GCC is witnessing rapid development in ports, international airports, and distribution centers, prompting the warehouse management systems in the Gulf to combine AI with IoT sensors in their

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Gulf Smart Logistics and Supply Chain Powered by AI, IoT

Now, Gulf governments are heavily investing in AI and IoT-driven logistics ecosystems. From digital ports and AI-powered customs systems to IoT

Research on Energy Saving and Loss Reduction Strategy Based on

Research on Energy Saving and Loss Reduction Strategy Based on Reasonable Line Loss Interval of Low-voltage Distribution Network Wei Hu¹, Qiuting Guo^{1*}, Xu Huang², Weiheng Wang²

Distribution Automation Service in Gulf

GK Expertise provides advanced Distribution Automation Services in the Gulf, offering reliable solutions for efficient grid management, real-time monitoring, and seamless automation to enhance power

Research on the minimum network loss optimization control ...

Second, the control strategy for minimum network loss of the active distribution network based on the distributed power flow controller is proposed. Finally, the simulation model of the active

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