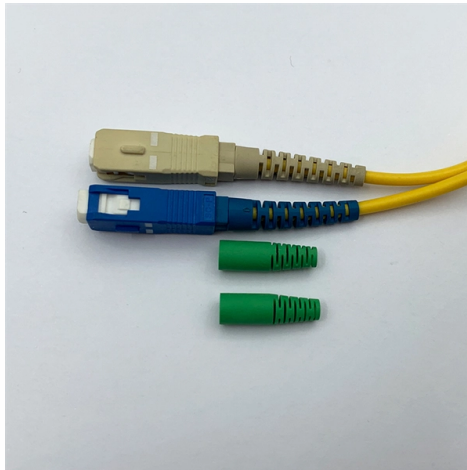


Anti-tracking solution for Malaysia's energy management system



AI Overview

Implementing anti-tracking in Malaysia's EMS involves secure data collection, anonymization, and controlled access to prevent unauthorized monitoring of energy usage. Overview of Energy Management Systems in Malaysia Malaysia has widely deployed smart meters and EMS platforms to monitor energy consumption, detect theft, and optimize efficiency. For example, 5.56 million smart meters have been installed across Peninsular Malaysia, enabling detection of over 5,000 electricity theft cases between 2021 and 2025 through real-time monitoring and integrated enforcement measures. Commercial EMS platforms like Easi EMS and Xenergi EMS provide real-time energy tracking, predictive alerts, and integration with IIoT sensors to optimize energy usage and reduce costs. Schneider Electric's EcoStruxure Microgrid Advisor also offers cloud-based energy optimization with secure device communication. Anti-Tracking Strategies To prevent unauthorized tracking of energy consumption data, EMS operators can implement the following measures: 1. Data Anonymization and Aggregation Aggregate energy data at the building or zone level rather than individual devices to prevent identification of specific users or equipment. Use pseudonymization techniques to replace identifiable information with unique codes, ensuring privacy while maintaining analytical capabilities. 2. Secure Communication Protocols Encrypt data transmitted from smart meters or IIoT sensors to the EMS platform using TLS/SSL or other secure protocols. Implement VPNs or private networks for remote monitoring to prevent interception of sensitive energy data. 3. Access Control and Authentication Restrict access to EMS dashboards and data repositories to authorized personnel only. Use multi-factor authentication (MFA) and role-based access control (RBAC) to limit exposure of sensitive energy informat...

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II. PROPOSED SYSTEM ion of electricity theft through an IoT-based platform. This system aims to enhance transparency in energy consumption and ensure precise monitoring of power usage within

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