

Article Overview

IoT-enabled smart distribution boxes in Sri Lanka are part of the country's emerging smart grid and energy management solutions, enabling real-time monitoring, prepaid electricity metering, and enhanced energy efficiency.

Smart Grid Initiatives

Sri Lanka has begun deploying IoT-based smart-grid solutions through collaborations between the Lanka Electricity Company (LECO), Dialog Axiata, and the University of Moratuwa. These systems convert standard electronic meters into smart meters capable of maintaining a prepaid wallet, allowing consumers to top up electricity like a prepaid mobile service. The smart distribution network is monitored in real-time using Network Monitoring Devices (NMDs), which track low-voltage distribution, detect faults, and measure power quality parameters such as voltage sags and swells, enabling utilities to respond quickly to interruptions. The initial deployment covers 3,200 smart meters and 150 network monitoring devices, with plans to scale up. Prepaid electricity metering is particularly beneficial for low-income communities and is currently available in the LECO Green Energy Zone in Kotte.

Commercial Availability

For residential or commercial applications, smart distribution boxes can be purchased online in Sri Lanka through platforms like Daraz.lk, offering a variety of models suitable for energy management and IoT integration. Local companies such as OneSmart provide fully Sri Lankan IoT solutions, including smart lighting, energy management, appliance control, and access control, which can be integrated with smart distribution boxes to create energy-efficient and automated buildings.

Benefits and Applications

- o Real-time monitoring of electricity consumption and distribution network health
- o Prepaid electricity management, reducing long credit periods for utilities
- o Fault detection and power quality analysis, improving reliability
- o Energy efficiency and automation for homes and enterprises
- o Scalability and flexibility, allowing integration with IoT platforms and analytics systems

Future Outlook

The adoption of IoT smart distribution boxes in Sri Lanka is expected to expand as part of the broader smart grid transformation, supporting both utility-level monitoring and consumer-level energy management. Integration with analytics platforms and Meter Data Management (MDM) systems ensures that utilities can



Sri Lanka IoT Smart Distribution Box

optimize operations while providing transparent, cost-effective electricity solutions . Overall, IoT smart distribution boxes in Sri Lanka represent a key step toward modernizing the power sector, enhancing energy efficiency, and enabling flexible, prepaid electricity solutions for consumers.

Modern commercial facilities in Sri Lanka are adopting modular, smart-ready systems to transition away from legacy, fixed-point

Effective management of energy and water resources is crucial for achieving sustainable development. This report

An innovative Internet of Things (IoT) enabled smart-grid solution will introduce prepaid

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The proposed system encompasses hardware components, cloud architecture, and features that enable real-time

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Energy users in Sri Lanka are beginning to benefit from a smart grid solution developed by a partnership between Lanka Electricity

In the Sri Lanka EMEA IoT market, there is a growing emphasis on leveraging IoT technologies across various industries such as

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industrial

Water resource management in Sri Lanka is hindered by inefficient water distribution systems in reservoirs and tanks, resulting in

to the younger generation. Smart farming in Sri Lanka Sri Lanka has a vibrant ICT sector, with some e-agriculture

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