

High-Precision Solution for Sri Lanka's Energy Internet



Overview

Energy users in Sri Lanka are beginning to benefit from a smart grid solution developed by a partnership between Lanka Electricity Company (LECO), the Dialog-University of Moratuwa Mobile Communications Research Laboratory and mobile operator Dialog Axiata. Currently collecting data from 3,200. Sri Lanka aims to reach net-zero emissions by 2050, and this method is in line with its wider objectives of renewable energy adoption and sustainability. (Yasarathne et al, 2024) In addition, solutions powered by AI can tackle the problem of solar energy's intermittency, making sure that vital. The World Food Programme (WFP) reports that more than 50% of Sri Lankan households now rely on food coping strategies, such as meal reduction and skipping meals, worsening nutritional deficits especially among children and pregnant women. Considering the elevated energy costs and reliance on costly fossil fuels, there is an urgent require for inventive alternatives.

Article Content

Starlink in Sri Lanka 2025: How Satellite Internet Will Transform ...

For a country with strong but uneven mobile and fibre coverage, Starlink promises a game-changing solution to bridge the digital divide in Sri Lanka. But what exactly will it bring? How does it

Top Internet of Things Companies in Sri Lanka

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Sri Lanka unveils vision for digitalisation and energy

The focus is on developing smart grids, implementing renewable energy technologies, and adopting innovative energy storage solutions to meet

Sri Lanka Takes First Step Towards Smart Grid

Energy users in Sri Lanka are beginning to benefit from a smart grid solution developed by a partnership between Lanka Electricity Company (LECO), the Dialog-University of Moratuwa Mobile

Sri Lanka unveils Digital and Energy Transformation Vision

The Government of Sri Lanka has launched a bold strategy to integrate digitalization and renewable energy, aiming to position the nation as a digitally empowered,

Shaping Sri Lanka's digital economy: 5G's impact on our

Promising Economic Impact of 5G for Sri Lanka 5G in Sri Lanka will have a significant economic impact, particularly by boosting e-government

Sri Lanka unveils vision for digitalisation and energy

The Government of Sri Lanka has unveiled an ambitious vision to transform the nation into a digitally empowered economy, integrating energy and

Simple, sector-specific IoT solutions to drive economic value in Sri ...

Similarly, in the agricultural sector (7.9% of Sri Lanka's 2015 GDP), sensors are used to control nutrients and PH levels, and treat fungi in soil, driving increased yield. We therefore believe

FEASIBILITY ASSESSMENT OF SMART GRID TECHNOLOGY FOR THE SRI LANKAN ...

ABSTRACT This study examines the viability of using smart grid technology in the urban areas of Sri Lanka as a solution to the electricity sector's challenges. Considering the elevated energy costs and

Integrated Innovations: How Technology Can Rescue Sri Lanka's

Building a circular economy, investing in energy-for-food systems, and fostering regional innovation hubs could transform vulnerabilities into opportunities, ensuring that Sri Lanka — and

Starlink High-Speed Internet Launches in Sri Lanka -

Starlink high-speed, low-latency satellite internet has officially launched in Sri Lanka, bringing fast and reliable coverage nationwide.

AI-BASED SOLAR ENERGY INTEGRATION ENHANCES

Sri Lanka may improve the sustainability and resilience of its telecommunications industry and diminish its reliance on fossil fuels via the use of AI-based solar energy integration. (Alsheyab

World Bank Document

Executive Summary The World Bank Group (WBG) undertook the Sri Lanka Energy Infrastructure Sector Assessment Program (Infra SAP) study to assess the future investment needs to develop the

100% ELECTRICITY GENERATION THROUGH RENEWABLE ENERGY

The joint UNDP and Asia Development Bank "Initial Assessment of Sri Lanka's Power Sector - Electricity Generation through 100 per cent Renewable Energy" describes the technical challenges to meet this

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(PDF) IoT implementation for energy management

Effective energy management is essential to address the growing energy demand and sustainability challenges in Sri Lanka. The Internet of Things

Microsoft PowerPoint

Also this will facilitate real-time energy auditing of each feeders. "Supporting Electricity Supply and Reliability Improvement Project" which is funded by the ADB has called for tenders to procure 25,

Starlink in Sri Lanka: Revolutionizing Connectivity and Unlocking ...

Conclusion: A Connected Sri Lanka Emerges Starlink is more than an internet provider—it's a catalyst for equity, resilience, and innovation. By erasing geographic barriers, it

FEASIBILITY ASSESSMENT OF SMART GRID TECHNOLOGY FOR

Despite challenges, the study shows the necessity of smart grid deployment for attaining a more efficient, dependable, and sustainable energy system in Sri Lanka's urban areas.

Sri Lanka Journal of Food and Agriculture (SLJFA)

Developing economies like Sri Lanka, where small-scale food crop agriculture is dominating, have the potential to benefit from precision agricultural technologies (PATs) to a greater extent.

Starlink Launches High-Speed Satellite Internet Service

Elon Musk confirmed via social media that Starlink's high-speed, low-latency satellite internet service is now officially available in Sri Lanka. This

(PDF) High Voltage Direct Current (HVDC)

The country's energy infrastructure, particularly in the area of high-voltage direct current (HVDC) transmission, has a lot of potential for expansion.

New Renewable Energy | Sri Lanka Sustainable Energy Authority

New Renewable Energy NRE targets The Sri Lanka Sustainable Energy Authority was established upon realising the necessity of having an apex institution to drive Sri Lanka towards a new level of

AI-Driven Solutions for Ceylon Electricity Board: Towards a Smarter ...

The integration of AI into the operations of the Ceylon Electricity Board (CEB) and its successor entities represents a significant advancement for Sri Lanka's energy sector.

Digitalization and Decarbonization of Sri Lanka's Electric Power

This article aims to examine how integrating digital technologies and renewable energy sources can transform Sri Lanka's electric power system into a resilient, efficient, and sustainable model.

Looking island wide to overcome Sri Lanka's energy crisis while

Model and analyse the least cost, rapid defossilisation of Sri Lanka's current energy system by mid-century while ensuring that the country's energy demand is always met for the time

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