Latvia smart grid monitoring devices

As LMT is the first to offer a nationwide LTE-M network, the fast-growing supply chain monitoring startup "Kedeon" has partnered up with the mobile operator to test and use the new network with its purpose-built sensor devices to monitor environmental factors during deliveries, such as temperature, humidity, UV light, and others.

To enhance the efficiency of monitoring and maintaining transmission power lines, AS Augstsprieguma tikls (AST), in collaboration with forestry company AS Latvijas valsts mezi (LVM), has developed a specialised ...

Smart Grids, in proportion to their fastest-growing popularity, also pose challenges in ensuring reliability and efficient operation. In these scenarios, Distribution Automation (DA) plays a pivotal role in providing advanced monitoring and control systems. The idea of this research work is to propose a Markov Model for Smart Grid Monitoring to enable ...

Towards a self-healing, fully automated grid. Smart and embedded systems that combine distribution management systems, advanced metering infrastructure and data from substation gateways to shape the grid similar to the internet, with the ability to self-diagnosis and self-healing - that"s the vision of many in the smart grid industry.

The integrated renewable energy resources (RERs) based smart grid in the power distribution network (PDN) has financial and ecological benefits. However, the emergence of RER-based microgrids and substations without real-time monitoring of their power parameters leads to various challenges in the PDN, such as suboptimal resource allocation, poor load ...

Digital and automated management of the low voltage power grid improves the maintenance of the power grid and the quality of services by speeding up the fixing of electricity interruptions. Advanced big data management and new data analytics tools give the possibility to use AI opportunities and benefits.

Latvia is punching above its weight to become an in-novative player in hydrogen technologies for energy storage and smart grid solutions. In September 2024, TechTour Hub will host and organise "The European Hydrogen Valleys 2024" international conference in Riga, bringing together industries across Europe. The

Latvian distribution system operator Sadales tikls AS has reported completing the smart meter rollout to 1.1 million metering points throughout the country. The company has reported that almost all of its ...

Smart grid technology requires robust access control and remote monitoring to protect customer data. As the power grid expands and modernizes to meet the requirements of renewable energy and a more electrified world, our solutions are critical for power generation, transmission and distribution infrastructure.

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The Latvian National Smart Grid Platform was founded at the beginning of 2015 on the basis of the Smart Grid Research Center (SGRC), taking into account the achievements and competence of the IPE scientists in the energy sector as well as the support of the Ministry of Economics of the Republic of Latvia and the Latvian Power Engineering and ...

Pilot DHS in Latvia -boiler house of «Jekabpils Siltums», Ltd. Used smart devices: oNew boilers monitored in automatic regime, oHeat exchanger meter can be read remotely, oVideo surveillance. Source: Jekabpils Siltums

Latvian distribution system operator Sadales tikls AS has reported completing the smart meter rollout to 1.1 million metering points throughout the country. The company has reported that almost all of its approximately 790,000 customers now have smart meters, except for a small number, less than 1%, that have not been able to be accessed so far.

Our TE Kries grid monitoring and automation solutions enable to pinpoint faults and weak connections in the grid, providing an effective tool for power monitoring and asset management. They make the otherwise costly, labor-intensive upgrades on the entire grid unnecessary and consequently improve reliability, as measured by the System Average ...

The drastic increase in distributed energy resources (DERs) leads to challenges in the operation of distribution systems worldwide. While several solutions for grid monitoring and control are available on the market and in literature, this research is the first of its kind aiming to supervise the grid by providing a modular configurable unified hardware and software ...

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CAHORS designs equipment used to monitor both underground and overhead MV/LV distribution substations. These solutions are multi-purpose, modular and smart. For example, they can be used to monitor a number of LV feeders to improve charging balance.

Experimental verification of smart grid control functions on ... Latvia 7Sadales t¯ikls AS, Riga, Latvia 8Texas A& M University, Doha, Qatar 9Hunan University, Hunan, China Correspondence ... While several

solutions for grid monitoring and control are available on the market and in literature, this research is the first of its ...

The IEEE Smart Grid Bulletin Compendium "Smart Grid: The Next Decade" is the first of its kind promotional compilation featuring 32 "best of the best" insightful articles from recent issues of the IEEE Smart Grid Bulletin and will be the go ...

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From protection devices such as smart reclosers and sectionalizes to automated metering devices and substation asset monitoring systems, advanced IEDs will proliferate along power systems. Ultimately, ...

The Low Voltage Grid Monitoring and Control ecosystem enables: Real-time visualization Collection and visualization of real-time data and measurements from smart components installed on the low-voltage network (transformers, smart boxes, switches, sensors).

This review paper discusses various techniques for real-time monitoring of power systems in smart grids. Real-time monitoring is essential for maintaining the stability, reliability, and security ...

The literature conducted a comprehensive business requirement analysis on smart grid monitoring using cloud computing technology [1]. By deeply understanding the business process and requirements of smart grid monitoring, the literature has clarified the functional and performance requirements required for the monitoring system.

A Recent Development of Monitoring Devices on Smart Grid Lilik.J. Awalin 1, M. Khairil Rahmat 2 1Universitas Airlangga, school of Advanced Technology and Multidisciplinary, Gedung Nanizar Zaman Joenoes, Kampus C Unair Jl. Mulyorejo, Surabaya 60115, Indonesia. 2Universiti Kuala Lumpur, British Malaysian Institute, Jalan Sungai Pusu Batu 8 Gombak 53100, Malaysia

Hence, the existing typical power grid or the classical power grid or the physical power grid should be restructured into a more smart grid that can include smart devices that are not only able to facilitate power flow but can also transmit and retrieve data for control and monitoring purposes . Thus, due to these all factors, smart grids are ...

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