

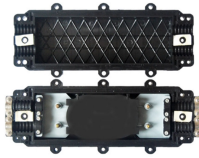
Intelligent Solution for Base Station Energy Management System in Finland



Overview

Elisa's DES solution is an AI/ML-powered engine that can transform its radio access network into a distributed virtual power plant that optimizes energy management through more efficient charging and discharging of storage batteries. Elisa in Finland is using cellular basestation backup batteries as an AI-enabled virtual power station. Using the Radio Access Network (RAN) to run a Virtual Power Plant could save telecoms operators around 50% of their current electricity costs by optimising their energy purchases as well. Unique Distributed Energy Storage (DES) solution enables Elisa to optimise the energy procurement of its base stations and offer electricity grid balancing services to the local Transmission Service Operator. A VPP is a cloud-based power plant that plays a crucial role in. Finland telecommunications firm Elisa has received €3. 17 million) from the government to form a VPP using batteries which could be the largest of its kind in Europe.

Intelligent Solution for Base Station Energy Management System in



Finnish telecommunications company Elisa has won a €3.9m (\$4.16m) grant from the government of Finland to roll out a "Distributed Energy Storage" (DES) solution across its network.



Cell site energy storage plus smart controllers powered by AI could see operators reduce their own energy costs and sell stored energy back to the grid, Finnish operator says in new white ...



Now, Finnish operator Elisa thinks it can be part of this solution using their newly developed DES solution. The DES technology leverages AI and machine learning to intelligently ...



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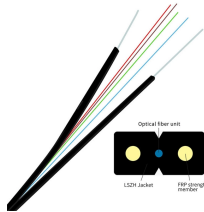
LoRawan outdoor base station



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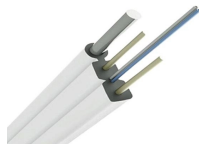
Elisa ran an initial trial of its DES solution in Finland across 200 base stations in 2022 as well as its network in Estonia. By 2025, the system will be rolled out to 2000 Elisa base stations in ...



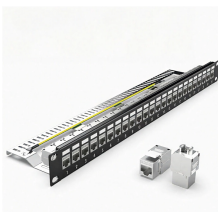
Espoo, Finland - Nokia today announced the launch of the Nokia Virtual Power Plant (VPP) Controller Software, a unique near-real-time software-based end-to-end platform that helps mobile operators ...



Now its AI-driven Distributed Energy Storage (DES) has gone live in Finland and it is not only saving Elisa money, it's also having the unforeseen benefit of knocking a few percentage points ...



The VPP operates via smart management of backup power from batteries to provide flexibility in electricity supply across thousands of base stations in the radio access network ...



Elisa has developed its unique DES solution, an AI/ML powered engine that allows it to transform its radio access networks into a distributed virtual power plant that optimises energy ...

Contact Us

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