

Zambia upgrades electrical distribution boxes



Overview

Direct from the manufacturer: Transformers for power grid upgrades in Zambia and the Democratic Republic of the Congo.

Key Takeaways

Zambia is modernizing its electrical distribution infrastructure to enhance reliability, safety, and efficiency across the country. Overview of Distribution Upgrades

ZESCO Limited, Zambia's national power utility, is spearheading efforts to upgrade the country's electrical distribution network. The Distribution and Customer Services (D&CS) directorate oversees the distribution of electricity across more than 56,000 km of network, ensuring power reaches urban and rural areas efficiently. The Planning and Projects Directorate at ZESCO is responsible for planning, developing, and replacing critical infrastructure, including distribution boxes and panels, to improve operational efficiency and reliability.

Infrastructure Investments



Recent projects include the supply of 22,000 wooden electricity poles valued at USD 3.6 million, aimed at strengthening the distribution network and supporting the expansion of power lines across Zambia . These upgrades are complemented by the installation of high-quality distribution panels engineered to optimize power management, enhance safety, and ensure uninterrupted electricity supply . Companies like Accurate Sheet Metals Limited provide these modern panels tailored to Zambia's electrical landscape .

Impact on Power Supply

The upgrades are part of a broader strategy to improve electricity reliability and efficiency. Zambia's electricity generation capacity reached 3,871.32 MW in 2024, with hydroelectric plants contributing 82% of the energy mix, supplemented by solar and coal power . Modernizing distribution boxes and panels ensures that this generated power is delivered safely and efficiently to consumers, reducing outages and improving service quality.

Conclusion

Zambia's ongoing upgrades to electrical distribution boxes and related infrastructure reflect a commitment to modernizing the power sector. By combining strategic planning, investment in poles and panels, and advanced engineering solutions, ZESCO and its partners are enhancing the reliability, safety, and efficiency of electricity distribution nationwide .

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