

# Mozambique makes bulk purchase of SFP liquid-cooled power switches

## Article Overview

Mozambique is increasingly investing in liquid-cooled power and energy systems to enhance efficiency, reliability, and industrial performance.

Mozambique has been actively integrating liquid-cooled energy storage and power systems to stabilize its renewable energy grid and support industrial growth, particularly in mining and agriculture sectors . These systems manage heat efficiently in battery units, which is critical in tropical climates where average temperatures reach 28°C, ensuring consistent performance and reducing energy waste . The adoption of liquid-cooled technology also lowers operational costs, with hybrid storage systems cutting electricity costs from \$0.28/kWh to \$0.11/kWh in mining operations . Liquid-cooled SFP (Small Form-factor Pluggable) switches represent a similar technological advancement in networking. These switches, developed by companies like Cisco and Arista, use direct-to-chip liquid cooling to extract heat from high-power components, enabling higher bandwidth, port density, and energy efficiency . For example, Arista's XPO modules integrate liquid-cooled cold plates capable of supporting 400W+ module power consumption, replacing multiple traditional OSFP modules while reducing failure rates . This technology is particularly suited for AI data centers and high-demand industrial networks, which Mozambique may leverage to support its growing energy and industrial infrastructure. The strategic benefits of adopting liquid-cooled switches in Mozambique include:

- o Enhanced reliability: Continuous operation in high-temperature environments without thermal throttling .
  - o Energy efficiency: Potential energy savings of 30-50% compared to air-cooled systems .
  - o Scalability: Supports denser network fabrics and larger industrial or data center deployments .
  - o Economic impact: Reduced downtime and operational costs, with typical ROI within 3-5 years .
- In summary, Mozambique's bulk purchase of liquid-cooled SFP switches aligns with its broader strategy of modernizing energy and industrial infrastructure. By combining advanced cooling technologies with high-performance networking, the country is positioning itself to meet rising industrial demand, improve grid stability, and support large-scale renewable energy integration .

Energy giant TotalEnergies has announced it is preparing to resume operations at the long-awaited Mozambique LNG

Mozambique became a shareholder of Africa50 in 2024, in a bid to boost energy and other infrastructure. In 2025, for

The QFX5250-64OE-L marks a significant evolution in data center switching, delivering unprecedented

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This article follows a real deployment where cooling fiber optic SFP transceivers were tuned for liquid-cooled racks, cutting link flaps

French oil major TotalEnergies and its fellow partners on the \$20 billion Mozambique LNG project have agreed to

The Mozambique energy market report provides expert analysis of the energy market situation in Mozambique. The

Rovuma LNG, we will produce and process gas off the Mozambique coast The Rovuma LNG project will be the key to developing a

Mozambique's energy infrastructure remains underdeveloped, especially in rural areas. The country's electricity grid is

SMB AI-Systems & High-Speed Interconnect delivers advanced data center solutions, 400G/800G transceivers, liquid-cooled

Liquid-cooled power supplies in which all the high-power components are placed on one side of the unit. When the

The Mozambique LNG project will bring significant economic benefits to Mozambique during

A unit of German engineering giant Siemens has won a deal to supply power generation equipment and boil-off gas

Globeleq says that commercial operations have started for what is said to be Mozambique's first combined utility-scale

ABB's 26-month project will culminate in a significant installed base in Mozambique for ABB and will involve

TotalEnergies SE and its partners will end force majeure on their liquefied natural gas project in Mozambique, paving

Coral Norte FLNG Mozambique LNG and Rovuma LNG together could bring well over 30 Mtpa of new capacity once



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