Immersion Liquid Cooling for Base Stations in Five Central Asian Countries



Overview

Developed by Kortrong at its new base in the national-level Khorgos Economic Development Zone, the project integrates manufacturing, marketing, and service for rapid, localised response and deep alignment with regional needs — serving Xinjiang while extending to the Belt and Road core. Developed by Kortrong at its new base in the national-level Khorgos Economic Development Zone, the project integrates manufacturing, marketing, and service for rapid, localised response and deep alignment with regional needs — serving Xinjiang while extending to the Belt and Road core. On November 9 at 16:00, at coordinates 44°7′N, 80°37′E beside the 402-kilometre border, the switch was closed and the transformer indicator lights illuminated. Kortrong successfully synchronized theworld'slargest&Xinjiang's first immersion liquid cooling energy storage station — 300 MW/600 MWh. Immersion cooling technology encompasses systems in which electronic components are directly exposed to and interact with dielectric fluids for cooling purposes. This includes systems using single-phase or two-phase dielectric liquids, leveraging their thermal

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capabilities to manage and dissipate. Evoc Adam IC21S01 is a 21U single-phase immersion liquid cooling system with high energy efficiency, high density, high reliability, and high availability. It is designed for business application scenarios such as 5G data centers, communication base stations, C-RAN data centers, and more. Supports. Segments - by Component (Coolant, Heat Exchangers, Pumps, Controllers, Others), by Cooling Type (Direct-to-Chip, Immersion Cooling, Rear Door Heat Exchanger, Others), by Base Station Type (Macrocell, Microcell, Picocell, Femtocell), by Application (Telecommunications, Data Centers, Others) Upcoming. Liquid Immersion Cooling System by Application (Data Center, High Performance Computing, Others), by Types (Single-Phase, Two-Phase), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy. For decades, air cooling has been the standard for data centers. Rows of CRAC units, raised floors, and hot-aisle/cold-aisle containment kept servers running. But in 2025, that model is under pressure.

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One of the most prominent cooling technologies to solve this problem is immersion colling. This method has developed in various types with their respective advantages and disadvantages...



OverviewDielectric liquidsFormsServicing and maintenanceEvolutionHistoryOther uses



More than a shared energy storage station, it now acts as a stabilising cornerstone for the Northwest China grid.



This comprehensive review examines energy-saving cooling technologies for data centres (DCs) and telecommunication base stations (TBSs), highlighting methods ...



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Immersion cooling has many benefits, including but not limited to: sustainability, performance, reliability, and cost. The fluids used in immersion cooling are dielectric liquids to ensure that they can safely ...



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From a regional perspective, Asia Pacific dominates the liquid cooling for 5G base stations market, accounting for the largest share in 2024, primarily due to aggressive 5G infrastructure investments in ...



In more detail, this paper comprehensively compiles the latest findings of immersion cooling technology which includes an overview of the cooling system, history, implementation, ...



Continued innovation in liquid immersion cooling technologies, along with a focus on developing cost-effective solutions, will be crucial for sustained growth and broader market penetration.

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	Find out how Shell''s gas-to-liquids (GTL) technology is enabling the latest immersion cooling solutions for data centres.
	This article explores why immersion cooling is gaining adoption, how it works, the benefits and challenges, and why hyperscalers are making it central to next-generation campuses.

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