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LG ELECTRONICS SHOWCASES AI DATA CENTER COOLING SOLUTIONS AT DATA CENTER WORLD 2026

Comprehensive Cooling Portfolio and Strategic Partnerships Are Designed to Maximize Data Center Efficiency and Performance

News Summary

- LG Electronics is highlighting its comprehensive cooling solutions for AI data centers at Data Center World 2026, with an end-to-end portfolio that extends from chip cooling to overall facility power infrastructure.
- Key technologies featured at the conference include LG's direct-to-chip and immersion cooling systems, data center cooling management integrated software, PADO's AI-based workload orchestration platform and a jointly-developed DC Grid solution that helps reduce energy loss.
- LG's presence at DCW reinforces the company role as an integrated cooling solution provider, focused on performance and energy efficiency.

WASHINGTON, April 21, 2026 — LG Electronics is presenting integrated cooling solutions for AI data centers (AIDCs) at the 2026 Data Center World (DCW) conference this week in Washington, D.C. The global exhibition, focused on data center and infrastructure technologies, features LG's end-to-end cooling portfolio for AIDCs, underscoring the company's capabilities as an integrated cooling solution provider.

"Solutions that help improve performance and support greater efficiency are at the heart of LG's long-term strategy as we continue to expand our AI data center cooling capabilities," said LG Electronics USA Senior Vice President Steve Scarbrough, general manager of LG Air Conditioning Technologies. "AI data centers require advanced cooling technologies, and we recognize they also need power and operations to work together in a more integrated way."

Full Direct-To-Chip Cooling Lineup for AI Workloads

At DCW 2026, LG is featuring its Direct-to-Chip (DTC) cooling lineup for data centers that uses liquid cooling technologies to support high thermal density and power demands. Its cold plate integrates a skived fin structure to help manage coolant flow and assist in heat management from high-performance chips. The 1.4-MW Coolant Distribution Unit combines a compact configuration with LG's control and sensing technologies, supporting stable operation and helping improve energy efficiency through inverter-driven pumps.

Also on display is LG's Computer Room Air Handler system, which incorporates high-efficiency rated EC fans and motors, along with an Air-cooled Centrifugal Chiller , extending coverage from server-level cooling to overall facility infrastructure.

Partnerships in Immersion Cooling Solutions

LG is expanding its portfolio with immersion cooling solutions through collaborations that aim to address the growing cooling demands of high-density AI environments. The lineup includes immersion cooling tank systems developed with U.S.-based Green Revolution Cooling , as well as cooling fluids jointly developed with SK Enmove, a provider of premium base oils and lubricants. These solutions immerse IT equipment directly in dielectric liquid to support stable cooling performance even in high-heat environments.

Advanced Control and Operation Capabilities

To complement its hardware, LG is strengthening its control and operation capabilities through Data Center Cooling Management. The software enables integrated monitoring and data-driven control across complex cooling infrastructure, including coolant distribution units, computer room air handlers and air-cooled centrifugal chillers.

Cooling management software supports continuous operation through early anomaly detection and virtual sensor-based diagnostics. It contributes to enhanced risk management with predictive maintenance, while real-time adjustments based on IT

workloads can help improve operational efficiency. Its 3D visualization capabilities allow operators to monitor system status and manage data center operations more effectively.

New Platform Maximizing Compute per Megawatt™

Beyond cooling technologies, LG is highlighting software and power infrastructure solutions aimed at helping improve data center efficiency and increasing overall processing capacity. Among them is an AI-based workload orchestration platform developed by PADO, a company that emerged from LG NOVA, LG Electronics's North America Innovation Center.

Serving as an intelligent "energy-aware compute orchestrator" for data centers, the PADO platform analyzes IT, cooling and power systems, leveraging a multi-physics digital twin and reinforcement learning to enable real-time operational changes. For example, it can shift power from idle servers to systems managing more demanding AI workloads, which may support up to 25 percent more utilization.

Jointly-Developed DC Grid Solution to Enhance AIDC Power Efficiency

In parallel, LG is presenting a Direct Current (DC) Grid solution for data center operations, developed in collaboration with LS Electric, LS Cable & System and LG Energy Solution. The DC Grid solution is intended to reduce energy loss by minimizing the power conversion stages common in traditional Alternating Current (AC) systems, where around 25 percent of energy can be lost as heat.

The solution enables major data center equipment, including chillers, to operate directly on DC power, which can lower initial power loss to approximately 15 percent.* When paired with renewable energy sources such as solar power, this figure may be further reduced to as low as 10 percent. The result is potentially improved power efficiency that can contribute to lower total operating costs.

Visitors to booth #416 at Data Center World 2026 in the Washington Convention Center April 20-23 can experience LG Electronics' AI data center solutions, including the direct-

to-chip cooling lineup, immersion cooling tank systems, cooling management integrated software, PADO's AI-based workload orchestration platform and jointly-developed DC grid solutions.

* *The test was performed under limited conditions, and the results may vary depending on the test conditions.*

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About LG Air Conditioning Technologies USA
LG Electronics USA's Air Conditioning Technologies business is based in Alpharetta, Ga. LG is a leading player in the air conditioning market, manufacturing both commercial and residential air conditioners and building management solutions. From consumer and individual units to industrial and specialized air conditioning systems, LG provides a wide range of products for heating, ventilating, air conditioning, water heating, and building controls. Eleven-time ENERGY STAR® Partner of the Year, LG Electronics USA (based in Englewood Cliffs, N.J.), is the North American subsidiary of LG Electronics Inc., a smart life solutions company with annual revenues of more than $60 billion. Learn more about LG's HVAC offerings at lghvac.com or follow on social: LinkedIn, YouTube, X (Twitter), Facebook and Instagram.

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