



Chemours Joins Forces with NTT DATA and Hibiya Engineering, Ltd. For Full-Scale Opteon™ 2P50 Product Trial

March 14, 2025

Partnership marks an important step in product commercialization and aims to enhance data center efficiency and sustainability using innovative two-phase immersion cooling technology

WILMINGTON, Del.--(BUSINESS WIRE)--Mar. 14, 2025-- The Chemours Company (Chemours) (NYSE: CC), a global leader in delivering innovative performance chemistry, today announced the launch of a full-scale product trial with [NTT DATA](#) and a leading regional engineering firm, [Hibiya Engineering, Ltd.](#), focused on data center two-phase immersion cooling. The trial follows successful lab testing and aims to revolutionize data center cooling strategies through cutting-edge technologies, including Chemours' advanced dielectric fluid, [Opteon™ 2P50](#). This announcement marks an important step in the product commercialization process, which includes lab trials, field trials, equipment specification, customer selection, and ultimately commercial contracts and sales.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20250313597062/en/>



Inside look at the full-scale product trial with Chemours Opteon™ 2P50
(Photo: Business Wire)

[The product trial](#) was designed to address the growing data center energy and cooling gap. As data centers evolve to meet the demands of high-performance computing and artificial intelligence (AI), they generate more heat and higher energy demand. This collaboration will explore

next-generation cooling technologies that ensure optimal computing performance today and into the future, while supporting significant gains in data center efficiency and sustainability.

"We are pleased to partner with Chemours and the broader data center value chain to accelerate the practical application of liquid and immersion cooling technologies through this field trial," said Kouhei Kurotaki, Deputy Manager of Technology Consulting Division at NTT DATA Japan. "Opteon™ 2P50 directly addresses the growing heat generation and energy use challenges facing data centers, and we believe this trial will help address key value chain questions. By driving joint verification and specification we can fully meet customer requirements, support safe construction and operation, provide more sustainable IT services, and ultimately accelerate adoption of innovative technologies."

The field trial will engage a wide range of industry participants from data center operators, equipment manufacturers, and engineering design firms to IT vendors and research institutions.

"Joining forces with these industry leaders for an Opteon™ 2P50 field trial represents an exciting step forward in our journey to help solve the big data energy and water crisis," said Izabela Jasinska, Liquid Cooling Venture Leader. "As AI adoption grows and next generation graphics and central processing chips become the standard, traditional cooling technologies simply cannot keep up. We developed Opteon™ 2P50 specifically for data centers, to not only increase the performance and efficiency criteria, but also to dramatically reduce the environmental footprint of data centers around the globe."

Opteon™ 2P50, Chemours' developmental dielectric thermal management fluid, has an ultra-low global warming potential of 10 (AR6) and superior performance capabilities [compared to traditional or single-phase cooling technologies](#). This developmental fluid can eliminate up to:

- 90% of data center cooling energy,
- 40% of overall data center energy consumption,
- Nearly eliminate water use in most climates,
- Significantly decrease interior noise pollution, and
- Reduce the physical data center footprint by up to 60%.
- Additionally, the fluid can be recovered, reprocessed and reused in perpetuity, creating a circular solution.

Chemours' participation in this trial underscores the company's dedication to sustainable innovation and partnership with industry leaders to address the data center cooling gap.

For more information, visit [Opteon.com](https://www.opteon.com).

About The Chemours Company

The Chemours Company (NYSE: CC) is a global leader in providing industrial and specialty chemicals products for markets, including coatings, plastics, refrigeration and air conditioning, transportation, semiconductor and advanced electronics, general industrial, and oil and gas. Through our three businesses – Thermal & Specialized Solutions, Titanium Technologies, and Advanced Performance Materials – we deliver application expertise and chemistry-based innovations that solve customers' biggest

challenges. Our flagship products are sold under prominent brands such as Opteon™, Freon™, Ti-Pure™, Nafion™, Teflon™, Viton™, and Krytox™. Headquartered in Wilmington, Delaware and listed on the NYSE under the symbol CC, Chemours has approximately 6,000 employees and 28 manufacturing sites and serves approximately 2,500 customers in approximately 110 countries.

For more information, visit chemours.com or follow us on X (formerly Twitter) [@Chemours](https://twitter.com/Chemours) or [LinkedIn](https://www.linkedin.com/company/chemours).

About NTT DATA

NTT DATA is a \$30+ billion trusted global innovator of business and technology services. We serve 75% of the Fortune Global 100 and are committed to helping clients innovate, optimize and transform for long-term success. As a Global Top Employer, we have diverse experts in more than 50 countries and a robust partner ecosystem of established and start-up companies. Our services include business and technology consulting, data and artificial intelligence, industry solutions, as well as the development, implementation and management of applications, infrastructure and connectivity. We are also one of the leading providers of digital and AI infrastructure in the world. NTT DATA is part of NTT Group, which invests over \$3.6 billion each year in R&D to help organizations and society move confidently and sustainably into the digital future.

For more information visit nttdata.com.

About Hibiya Engineering, Ltd.

Hibiya Engineering, Ltd. is a leading engineering company dedicated to advancing innovative solutions in the fields of data center cooling, building systems, and environmental technologies. With a strong commitment to sustainability and cutting-edge technology, Hibiya Engineering collaborates with global partners to develop and implement next-generation cooling systems that enhance energy efficiency and reduce environmental impact. The company's expertise spans across various sectors, including the development of advanced dielectric fluids and two-phase immersion cooling technologies, aimed at revolutionizing data center operations. Hibiya Engineering continues to drive innovation and excellence, ensuring optimal performance and sustainability for its clients worldwide.

For more information visit the [Hibiya Engineering, Ltd. website](https://hibiya-engineering.com).

Forward-Looking Statements

This press release contains forward-looking statements, within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, which involve risks and uncertainties. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to a historical or current fact. The words "believe," "expect," "will," "anticipate," "plan," "estimate," "target," "project" and similar expressions, among others, generally identify "forward-looking statements," which speak only as of the date such statements were made. These forward-looking statements may address, among other things, new product development and expected contributions to advancing the data center energy efficiency, improving sustainability, circularity, decreasing environmental footprint, plans to continue investment in research and development, all of which are subject to substantial risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. These statements are not guarantees of future performance. Forward-looking statements also involve risks and uncertainties that are beyond Chemours' control. Matters outside our control, including general economic conditions, geopolitical conditions and global health events, and changes in environmental regulations in the U.S. or other jurisdictions that affect demand for or adoption of our products, have affected or may affect our business and operations and may or may continue to hinder our ability to provide goods and services to customers, cause disruptions in our supply chains such as through strikes, labor disruptions or other events, adversely affect our business partners, significantly reduce the demand for our products, adversely affect the health and welfare of our personnel or cause other unpredictable events. Additionally, there may be other risks and uncertainties that Chemours is unable to identify at this time or that Chemours does not currently expect to have a material impact on its business. Factors that could cause or contribute to these differences include the risks, uncertainties and other factors discussed in our filings with the U.S. Securities and Exchange Commission, including in our Annual Report on Form 10-K for the year ended December 31, 2024. Chemours assumes no obligation to revise or update any forward-looking statement for any reason, except as required by law.

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