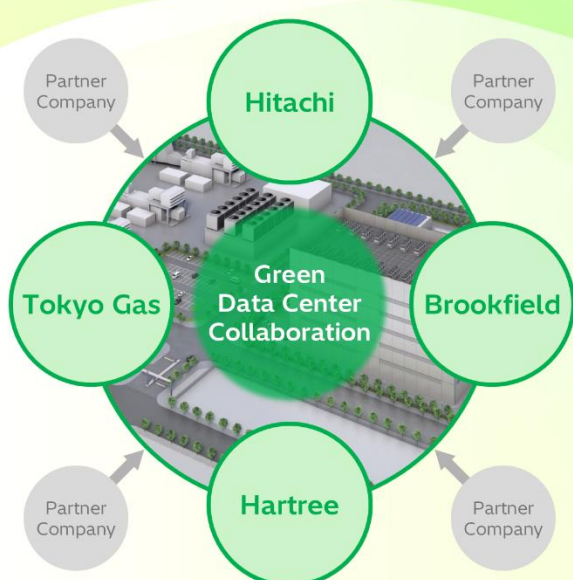


Hitachi, Brookfield, Hartree, and Tokyo Gas Launch Collaboration to develop green data centers with on-site power generation to meet rapidly growing AI demand

Aiming to realize data centers that generate their own energy, utilize it stably and efficiently, and contribute to decarbonization through use of green energy and other sustainable energy solutions.

Integrated design of data centers, on-site generation, carbon offsets to enable secure power supply, reliable operations, and decarbonization



Aims of the Collaboration

- Highly reliable and efficient energy supply combining multiple power sources
- Redundant configuration of the entire data center infrastructure, including cooling and power distribution facilities
- Balancing a stable power supply with carbon neutrality
- Standardization of major data center equipment

Photo is for illustrative purposes only

Image of the ecosystem for realizing green data centers

Tokyo, October 19, 2026 - Hitachi, Ltd. ("Hitachi"), Brookfield Japan Kabushiki Kaisha ("Brookfield"), Hartree Partners Singapore Pte. Limited ("Hartree"), and Tokyo Gas Co., Ltd. ("Tokyo Gas") signed a Memorandum of Understanding (MoU) on September 30 regarding collaboration to develop green data centers in Japan ("Collaboration").

The MoU now includes Tokyo Gas, and builds on a previous MoU signed by Hitachi, Brookfield and Hartree^{*1}, which was announced in July 2025. The MoU demonstrates the continued commitment of all parties to develop green data centers in Japan. Through the MoU, the four companies will formulate a basic concept for power-integrated green data centers that generate their own energy, utilize it reliably and efficiently, and contribute to decarbonization through green energy and other related measures^{*1}, while promoting the development of a standardized model that can be deployed flexibly. This approach aims to reduce excessive reliance on the power grid, expand data center siting options, promote local production and consumption of energy, shorten project lead times, and enable scalable deployment. As the first projects under the Collaboration, the four companies plan to develop green data center projects in the Kanto and Kyushu regions.

Through the Collaboration, the four companies will combine their respective expertise to address the critical societal challenges of securing power, ensuring stable operations, and promoting decarbonization for AI data centers.

^{*1} Press release issued on July 17, 2025: [Hitachi, global investment firm Brookfield, and global commodities trading firm Hartree Begin to Explore a Funding Scheme in the Environmentally-friendly Digital Infrastructure Sector](#)

*2 Specifically, this refers to the implementation of measures contributes to the decarbonization of data centers by offsetting—fully or partially— greenhouse gas emissions generated during the lifecycle of the fuel, from mining to combustion, through the use of carbon credits (carbon offsetting) as well as through the use of non-fossil fuel certificates and other environmental attributes.

Background

In recent years, the spread of AI technologies and accelerating digitalization have driven a surge in data center construction, particularly in urban areas, leading to growing electricity demand in Japan. As

longer lead times for securing power capacity due to grid constraints become increasingly apparent, greater importance is being placed on optimizing energy supply—including advanced coordination between power and communications networks at data centers—and enhancing resilience. At the same time, demand for decarbonized data centers is growing. As part of its Green Transformation (GX) initiatives, the Japanese government has advocated for the development of sustainable infrastructure, including the use of green energy and other related measures and the regional decentralization of data centers^{*3}. In addition to ensuring the reliability of facilities and power supply, the development of flexible infrastructure capable of responding to the accelerating advancement of AI technologies has become an important issue for stable data center operations. To address these challenges, demand is growing for a new model of data center infrastructure that can simultaneously ensure a stable power supply, achieve decarbonization, and meet the demands of AI.

*3 Source: Ministry of Internal Affairs and Communications, “Future Initiatives for Watt-Bit Collaboration.” (https://www.soumu.go.jp/main_content/001050386.pdf)

Further details about the MoU and the strengths of each company

The four companies aim to develop the following standardized model for green data center designed to achieve high reliability across both its energy supply and operations.

(1) Energy supply combining multiple power sources

The four companies will explore a highly reliable and efficient energy supply model that uses on-site generation facilities as the primary power source and combines multiple other sources, including battery storage and grid power.

(2) Redundancy across the entire infrastructure

The four companies will build redundancy into the entire data center infrastructure, including cooling and power distribution equipment, to maintain stable operations in the event of equipment failures or fluctuations in power supply.

(3) Definition of decarbonization requirements

The four companies will define requirements for data center decarbonization, including the utilization of carbon credits, environmental attributes, renewable energy, and other decarbonization measures.

(4) Standardization and modularization of major facilities

By standardizing and modularizing major facilities—including data center buildings and equipment, as well as on-site power plants and related equipment—the four companies aim to shorten data center project lead times and enable scalable deployment according to demand.

The key strengths of each company are as follows.

Company name	Strengths
Hitachi	Design of cooling and power generation facilities for data centers, and provision of related equipment and maintenance services, leveraging engineering capabilities in the energy and digital fields and the solutions of Lumada ^{*4} , which accelerates digital innovation.
Brookfield	Global track record of operating 150+ data centers with ~2GW of operating data center capacity globally. Global track record of developing renewable power generation. Brookfield owns and operates ~47GW of operating renewable power generation and currently brings online ~8GW of new generation capacity annually.
Hartree	Track record in development of renewable energy projects (including battery storage), commodity derivatives trading, and energy supply (including green energy), leveraging its expertise in commodity trading and track record in developing renewable energy projects in the power, LNG, and carbon credit sectors.

Tokyo Gas	Track record in provision of services for the design, development, and operation of on-site power generation facilities, as well as energy supply and decarbonization solutions leveraging its expertise in the planning, design, construction, and operation of energy supply facilities and infrastructure, under the energy solutions brand "IGNITURE" ^{*5} —which delivers value through decarbonization, resilience, and optimization.
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*4 A collective term for Hitachi's advanced digital technologies, solutions, and services that create value from customer data and accelerate digital innovation.

(<https://www.hitachi.com/products/it/lumada/global/en/index.html>)

*5 Tokyo Gas and Tokyo Gas Engineering Solutions Corporation ("TGES") have launched "IGNITURE," a brand for their solutions business, to drive the full-scale rollout of their solutions. Through the solutions offered under the IGNITURE brand, households, businesses, and local communities can seamlessly achieve both a "more prosperous future"—realized through greater cost-effectiveness, convenience, and efficiency driven by optimization—and "sustainable lifestyles and business operations"—achieved through initiatives such as decarbonization and enhanced resilience.

**IGNITURE's corporate page is here (<https://www.tokyo-gas.co.jp/en/IR/library/pdf/anual/24e05.pdf>).

Initial projects and future outlook

As their first projects under the Collaboration, the four companies will conduct due diligence and formulate a development plan, including the facility configuration and business model for green data center projects in the Kanto and Kyushu regions. Additionally, they will seek participation from a broad range of partners, including IT companies, manufacturers that use data centers, and financial institutions, to further expand the collaborative framework. Through these activities, the four companies will promote the establishment of a new green data center model that integrates energy supply and data center design, contributing to the advancement of a sustainable digital society.

Comments from each company

Hitachi Vice President and Executive Officer, CEO of AI & Software Services Business Unit Yoshinori Hosoya said:

"We have entered an era in which the competitiveness of a data center is greatly influenced by how power is secured and operated. In addition to equipment related to data centers and power generation facilities, Hitachi supports operational efficiency and stable operations of data centers through 'HMAX Data Center'^{*6}—a suite of solutions leveraging Physical AI that enables the autonomous and integrated operation of power, IT, and cooling infrastructure within data centers. Through this collaboration, we will build upon these efforts to drive the optimization of both energy infrastructure and data centers. Together with our partners, we aim to establish a sustainable and scalable green data center model toward realizing a harmonized society."

*6 Hitachi press release issued on September 3, 2026: [Hitachi launches HMAX Data Center, a suite of solutions for integrated data center infrastructure operations](#)

Brookfield Japan CEO Luke Edwards said:

"We are committed to supporting the development of world-class digital infrastructure in Japan by bringing together data center development and sustainable energy solutions. Brookfield is one of the world's largest investors in AI infrastructure, with more than US\$100 billion deployed across data, power and compute assets, and in renewable energy where we have a US\$144 billion portfolio spanning hydro, solar, wind, storage, distributed energy, nuclear and other sustainable solutions. We are delighted to partner with Tokyo Gas, Hitachi and Hartree. By bringing together the expertise of all four companies, we will accelerate our efforts to develop a new generation of data centers in Japan supporting the continued growth of Japan's digital economy."

Hartree Managing Director and Head of Asia Pacific Ahmed Al-Awa said:

"With the advent of the AI era, the convergence of power and digital infrastructure has become more important than ever. By leveraging each company's technological expertise, business platforms, and deep knowledge of energy markets and risk management, we aim to execute projects that will strengthen Japan's industrial competitiveness and contribute to sustainable economic growth.

We are confident that this collaboration has the potential not only to create new business opportunities, but also to make a meaningful contribution to Japanese society by supporting the development of critical digital infrastructure and a sustainable energy future.”

Tokyo Gas Co., Ltd. Takayuki Uenaka, Managing Executive Officer of Tokyo Gas Co., Ltd. and President and Representative Director of Tokyo Gas Engineering Solutions Corporation, said:

“Amid rapidly growing demand for data centers driven by the widespread adoption of AI and the advancement of digital transformation (DX), securing sufficient power and the lengthy timelines required for infrastructure development have become major challenges.

Leveraging its long-standing expertise in energy supply and engineering, we aim to simultaneously achieve the early launch, stable operation, and decarbonization of data centers by optimally combining grid power with on-site power generation, battery storage, renewable energy, and other energy sources.

Through this collaboration, partners with different strengths will work together to establish a new business model by jointly conceptualizing and designing energy infrastructure and data centers, with the aim of expanding the model to a wide range of regions and projects through standardization.

We will work to translate this collaboration into concrete projects and contribute to the development of sustainable energy and digital infrastructure that supports the AI era.”

About Hitachi, Ltd.

Through its Social Innovation Business (SIB) that brings together IT, OT(Operational Technology) and products, Hitachi aims to be a global leader in continuously transforming social infrastructure through digital, contributing to a harmonized society where the environment, wellbeing, and economic growth are in balance.

Hitachi operates worldwide across four sectors – Digital Systems & Services, Energy, Mobility, and Connective Industries – as well as a Strategic SIB Business Unit focused on new growth areas. With Lumada at its core, Hitachi creates value by combining data, technology and domain knowledge to solve customer and social challenges.

Revenues for FY2025 (ended March 31, 2026) totaled 10,586.7 billion yen, with 606 consolidated subsidiaries and approximately 290,000 employees worldwide. Visit us at www.hitachi.com.

About Brookfield

Brookfield is a leading global investment firm with more than \$1 trillion in assets under management. The firm owns and operates high-quality businesses and real assets that provide essential services and form the backbone of the global economy. Brookfield invests on behalf of institutions and individuals around the world across infrastructure, energy, private equity, real estate, and credit. With more than a century of operating experience and a global presence in over 50 countries, Brookfield deploys long-term capital to generate sustainable value for its clients and shareholders. Brookfield Corporation (NYSE: BN, TSX: BN) and Brookfield Asset Management (NYSE: BAM, TSX: BAM) are publicly traded in New York and Toronto.

For more information, please visit our website at www.brookfield.com.

About Hartree Partners

Hartree Partners, LP is a leading global merchant commodities firm facilitating the flow of energy, metals, agriculture, and environmental products across the full commodity supply chain, connecting producers and consumers. Hartree was founded in 1997 and is jointly owned by senior management and funds managed by Oaktree Capital Management, LP, and employs around 5,000 individuals worldwide. For more information, please visit

<https://www.hartreepartners.com/>.

About Tokyo Gas

Since its founding in 1885, the Tokyo Gas Group has been responsible for the stable supply of energy, primarily in the Tokyo metropolitan area. Guided by its Group Management Philosophy, "Standing by every person and dedicating ourselves to the society, we shall be the energy that weaves the future.," the Group aims to achieve both a stable supply of energy and decarbonization, thereby contributing to the realization of a carbon-neutral society by 2050. Tokyo Gas and TGES provide a wide range of solutions to business customers under "IGNITURE," a solutions business brand that delivers value through decarbonization, resilience, and optimization. In the data center sector, TGES offers its "Power Hybrid DC Solution*," which combines grid power with on-site power generation using gas cogeneration systems to contribute to a stable power supply and the early launch of data centers.

*Power Hybrid DC Solution is a registered trademark of Tokyo Gas and TGES.

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