

With the increasing use of generative AI and interactive AI such as ChatGPT,  
Demand for dedicated servers is growing rapidly.  
But because AI tasks use dozens of times more power and generate a lot of heat,  
The previous cooling system was insufficient, and it was difficult to operate the server unless a dedicated facility  
was built.

It also requires a lot of power to cool.  
A mechanism to optimize energy consumption is considered an issue.

In response to these challenges,  
NTT Communications offers Green Nexcenter.

"Green Nexcenter" is Japan's first ultra-energy-saving data center service that supports liquid-cooled server  
equipment.

Work with server equipment vendors to provide customers with optimal and flexible solutions.

"Green Nexcenter" uses a liquid refrigerant with a higher thermal conductivity than air.  
Cool the server by circulating fluid through the cooling plate installed on the processor.

Delivers an IT environment that can consume anywhere from 20 kW to up to 80 kW of power per rack.

The pPUE value for per-room power efficiency is the highest in the country at 1.15.

Power consumption for cooling server equipment compared to conventional systems

We offer ultra-energy-saving services that reduce energy consumption by about 30%.

To prevent global warming,

We use 100% renewable energy to achieve net-zero CO2 emissions.

Renovation of existing data centers and collaboration with server equipment vendors

We provide services that best suit the customer environment quickly and flexibly.

There is no need for customers to provide exclusive air conditioning equipment.

A liquid-cooling system that doesn't require extensive equipment

Compared to other systems, we can reduce initial customer installation costs.

It is also highly maintainable and more available and reliable than other cooling methods.

“Green Nexcenter” is designed not only for existing data centers,

We will also introduce the system to new data centers.

In the future, the entire NTT Group will strive for low power consumption, high quality, high capacity,

We aim to create a "low-power ICT infrastructure" that promotes carbon neutrality by connecting with the IOWN APN (IOWN-All Photonics Network), a low-latency network.

NTT Communications,

We will continue to respond in a timely manner to our customers' business demands using generated AI and GPUs.

We will strongly promote our customers' businesses.

[END]