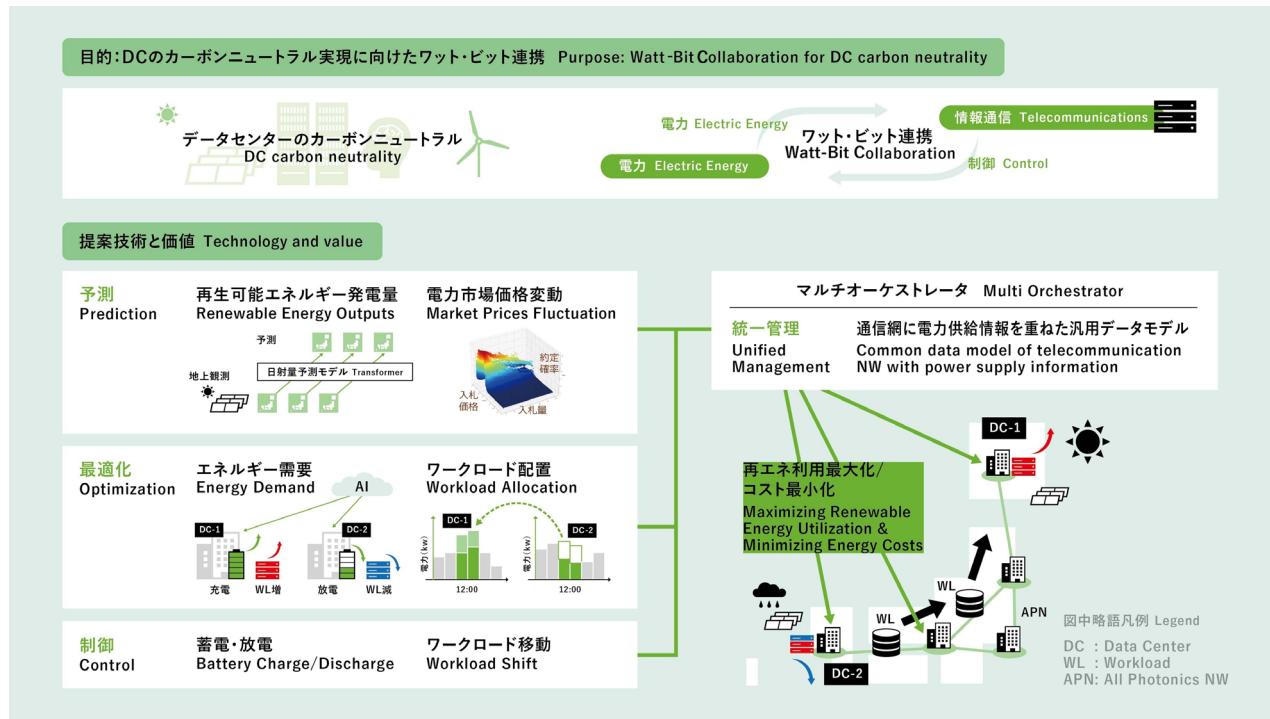


Contributing to carbon neutrality by matching renewable energy supply with power demand
Dynamic Watt-Bit Collaboration

Background and Technical Challenges

It is essential to establish and integrate technologies that accurately predict constantly fluctuating power demand and renewable energy generation and optimize them instantly via watt-bit collaboration.



R&D Goals and Outcomes

Achieving carbon neutrality at data centers.

Key Technologies

01 Core Technologies

- Renewable energy supply and electricity market price prediction
- Energy demand optimization
- Workload allocation optimization
- Unified data management

02 Key Differentiators

There is no commercially available technology that can achieve prediction, optimization, control, and common data models for watt-bit collaboration.

Key Technologies	
01 Core Technologies	02 Key Differentiators
<ul style="list-style-type: none">• Renewable energy supply and electricity market price prediction• Energy demand optimization• Workload allocation optimization• Unified data management	There is no commercially available technology that can achieve prediction, optimization, control, and common data models for watt-bit collaboration.

Use Cases	Energy	R&D phase	Research
Technology Schedule	FY25-26	Commercialization Schedule	FY27-29
【Exhibitors】 NTT, Inc.	【Co-exhibitors】 NTT WEST, Inc., QTnet, Inc.	【Contact】 NTT Technology Planning Department	【Related Links】 https://group.ntt/en/newsrelease/2025/06/11/250611a.html