AT TOKYO

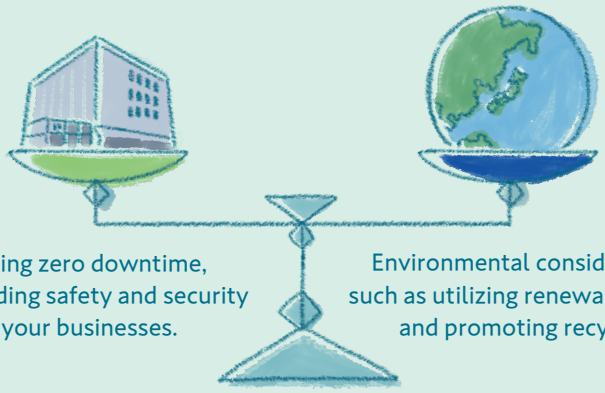
Environmental Initiatives

2021（Issued in 2022）

@Tokyo

Eco-friendly while Providing Peace of Mind

We, AT TOKYO data centers, promise safety and security
for your business, maintaining high-level service
and zero-downtime operation.
We remain highly conscious of the environment,
even as we consume large amounts of energy
and operate various facilities every day.



Realizing zero downtime,
and providing safety and security
for your businesses.

Environmental considerations
such as utilizing renewable energy
and promoting recycling.

AT TOKYO aims to provide environmentally friendly data centers.

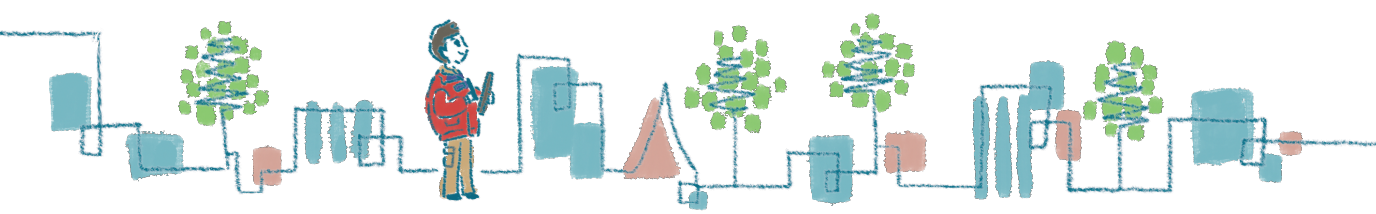
NEWS

Received the Grand Prize of the Electricity Use Rationalization Committee Chairman's Award

Chuo Data Center (CC1) reduced electricity and water consumption by replacing existing water-cooled packaged air conditioners upon renewal with highly efficient air-cooled packaged air conditioners. It also removed the 400V to 200V three-phase transformers and installed a new 400V packaged air-conditioner for loss reduction.
Additionally, Chuo Data Center #2 (CC2) reduced power consumption by increasing the heat exchanger capacity to enable free cooling while lowering the ratio of pre-cooling operation. These highly evaluated achievements earned them the Grand Prize of the Electricity Use Rationalization Committee Chairman's Award.

Award of CC1

Award of CC2

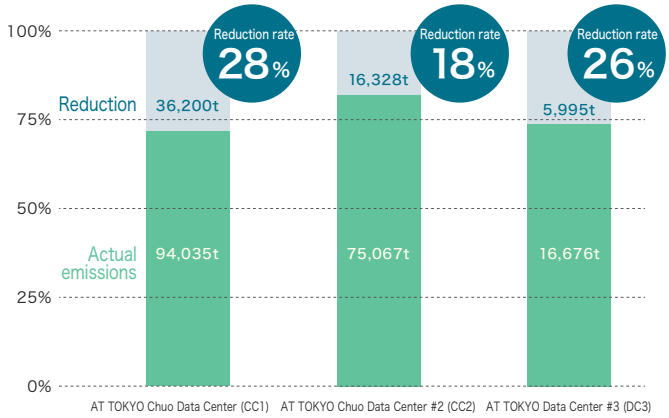


AT TOKYO's Energy Conservation by Numbers

Because data centers consume a large amount of energy, AT TOKYO has worked on reducing greenhouse gas emissions through a variety of efforts, both large and small.

AT TOKYO not only meets greenhouse gas reduction obligations, but also expands the volume of its reduction every year at Chuo Data Center (CC1), Chuo Data Center #2 (CC2) and Data Center #3 (DC3). In FY2020, the bankable reduction amount was 14.4% higher than in FY 2016, when the three centers were assessed. In addition, we reused cooling water that would otherwise have been disposed of to reduce the amount of used cooling water (blow-down water) used to process the heat generated in the server room; in FY2021, we successfully reused a total of 15,860m³ of the water.

Specified Greenhouse Gas Actual Emissions and Reduction for Fiscal Year 2020



● The target emission amount agreed with the Tokyo Metropolitan Government (TMG) is indicated as 100%. Reduction = Emission amount agreed with the TMG - Actual emissions

Blow-down Water Reuse Rate during 2021 Average 38.2%

	April to June	July to September	October to December	January to March
Blow-down Water	9,400m³	11,136m³	11,195m³	9,777m³
Reused Water	4,191m³	2,575m³	4,883m³	4,211m³
Reuse Rate	44.6%	23.1%※	43.6%	43.1%

* The lower percentage resulted from a decrease in the amount of collectable reused water, as most of the equipment was not in operation due to repair.

Achieving Expansion of Computer Rooms and Equipment as Well as Energy Conservation with Zero Downtime

— CC2 was Recertified as a Top-Level Facility —

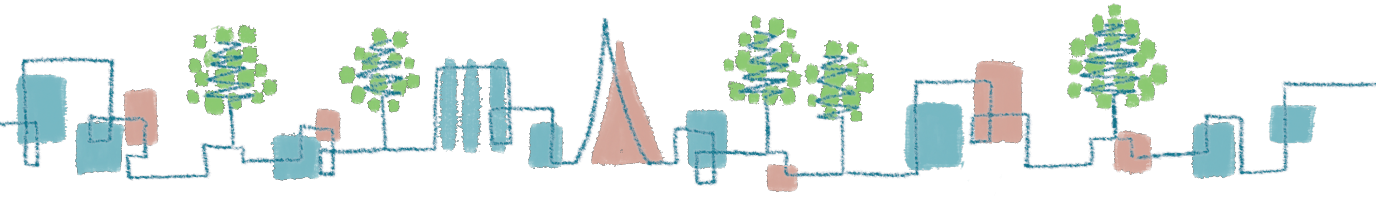
The Tokyo Metropolitan Government certifies business facilities that take particularly outstanding global warming countermeasures as Top-Level facilities. This is the first recertification year for the Chuo Data Center #2 (CC2) since it was certified in FY2015.

The center was able to obtain the Top-Level Facilities certification again in recognition of its efforts to promote energy-saving measures, such as improving the capacity of heat exchangers, while implementing the expansion of computer rooms and equipment with zero downtime.

Top-Level Facilities assessment in progress

Top-Level Facilities certification

Project team member who received the Top-Level Facilities certification



INTERVIEW

Behind the scenes in AT TOKYO's environmentally friendly data centers

AT TOKYO realizes 24/365 zero downtime operation as a leading data center colocation service company, providing carrier-neutral, flexible connections. So, what does sustainability mean to AT TOKYO? Here, we introduce the voices of AT TOKYO members who are making consistent and forthright efforts toward achieving a carbon-free society through what we can do as data centers.

Being Certified as a Top-Level Facility Isn't our Goal, but a Beginning

During the updating of certification for CC2, we faced scheduling and communications difficulties between our team members, caused by factors such as as remote working and shift work. Therefore, obtaining recertification under such circumstances gave us a great sense of accomplishment. We recognize that obtaining certification is not a goal in itself, but merely the beginning, and it is important to continue improving our energy conservation performance to pass it on to future generations. We have been working to visualize and organize data using our DCIM (Data Center Infrastructure Management) system so that we can respond to team member changes and guideline revisions. We will continue to cooperate with our customers to achieve even higher efficiency in our data centers.

Masashi Tsuruta, Senior Engineer,
Operation Planning Group, Facility Operations Dept.

Air Cooling of the Packaged Air Conditioning Systems Was Realized through Cooperation between the Manufacturer and Our Company

We received a recognition for introducing air-cooled packaged air conditioners in order to conserve the power of the air conditioning for CC1. We took great care in updating the heat rejection equipment while maintaining operation of both the air-conditioning and monitoring functions within the CPU rooms. Normally, AC outdoor units are installed outdoors, but in this case, they were located in a semi-outdoor locations, so there was a possibility that exhaust heat might be trapped within the space. Therefore, we conducted CFD* analysis and other methods to confirm the suitability of the installation environment. This was probably the most important point for air cooling of the packaged air conditioning for CC1. We will continue to promote energy-saving efforts through cooperation between the manufacturer and our company.

Kenji Shigehara, Manager,
Center for control and operation, Facility Operations Dept.

* Computational Fluid Dynamics: Refers to airflow analysis in this case.

Aiming to Achieve a Sustainable Society via Data Center Businesses

It is essential to advance measures for the environment and occupational health and safety from international and long-term perspectives. A shift to renewable energy is one of our top priorities. As a first step, in October 2022, we will launch the Customer Sustainability Support Program, which provides to our customers the environmental value originating from renewable energy sources. In line with our mission of 24/365 zero downtime operation, it is also important to protect the health and safety of our employees. We will strengthen our management system in compliance with ISO 45001 (Occupational Health and Safety Management Systems) to create a workplace environment that ensures the safety, security, and health of our employees.

Kiminori Kobayashi, General Manager,
Sustainability Dept. Strategic Planning Office

AT TOKYO will continue to maintain its high awareness of energy conservation and the environment, aiming to enhance the convenience of its customers from diverse industries, while constantly striving to be the most highly evaluated data centers for each and every customer.

@Tokyo

AT TOKYO Corporation https://www.attokyo.co.jp/
5-6-36 Toyosu, Koto-ku, Tokyo, Japan TEL:03-6372-3500 FAX:03-6372-3009 Mail:at-sales@attokyo.co.jp

 22-2819161