

AT TOKYO

Environmental Initiatives

2019

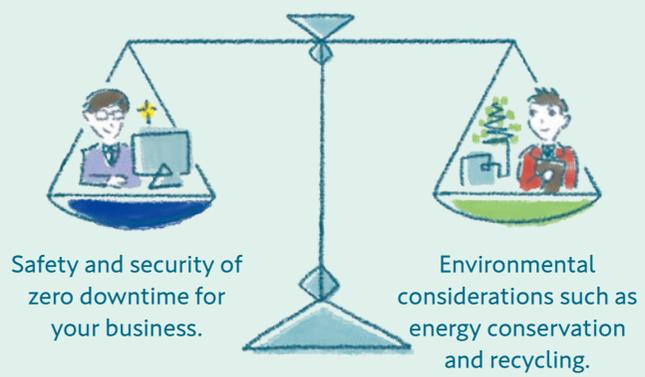




# Eco-friendly while Providing Peace of Mind

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.



AT TOKYO aims to provide environmentally friendly data centers.

Three of our data centers have been evaluated for our environmental initiatives and certified as "Top-Level Facilities" for outstanding global warming countermeasure efforts

Environmental consideration through energy-saving initiatives is essential for data centers, which consume large amounts of energy. AT TOKYO has been highly evaluated for its various environmental initiatives, especially in regard to facility operation, and certified by the Tokyo Metropolitan Government (TMG) as "Top-Level Facilities" for outstanding global warming countermeasure efforts\* since 2010. Currently, three data centers are certified. We intend to work even harder to contribute to the environment by continuing to increase our employees' awareness of energy conservation.



Tokyo Cap and Trade Program  
2015-T0506

AT TOKYO Chuo Data Center (CC1)



Tokyo Cap and Trade Program  
2016-T2008

AT TOKYO Chuo Data Center #2 (CC2)



Tokyo Cap and Trade Program  
2017-T1896

AT TOKYO Data Center #3 (DC3)

\* The Tokyo Metropolitan Government-certified facilities that have demonstrated excellence in both design and operational efforts to counter global warming. Among these, extremely excellent facilities are defined as "Top-Level Facilities". AT TOKYO's three certified data centers all received "Top-Level Facilities" certification.



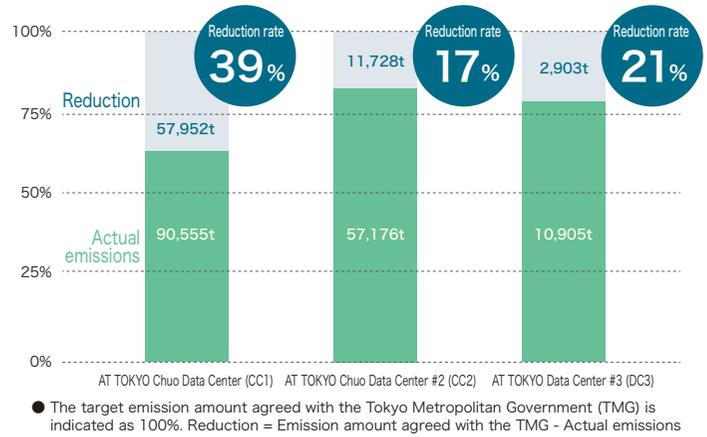
# AT TOKYO's Energy Conservation by Numbers



With the realization of a “decarbonized society” in mind, the Tokyo Metropolitan Government has announced the goal of reducing greenhouse gas emissions in Tokyo by 30%, compared to 2000, before 2030. AT TOKYO not only meets greenhouse gas reduction obligations\*, but also contributes to reducing environmental burdens by cutting actual emissions through a range of energy conservation efforts.

\* Each facility is required to reduce actual emissions toward the greenhouse gas emission target amount agreed with the Tokyo Metropolitan Government. If actual emissions are reduced below the agreed amount, a part of the reductions can be saved and banked as CO<sub>2</sub> reduction credit.

## Specified Greenhouse Gas Actual Emissions and Reduction for Fiscal Year 2018



## Reuse of Cooling Water to be Disposed of and other Environmental Considerations

The heat produced by AT TOKYO Chuo Data Center's server room is processed by cooling water being partly evaporated in a cooling tower. The inclusions of cooling water become dense due to evaporation, so density is adjusted through water supply and drainage. At this point, by reusing the cooling water/blow-down water to be disposed of via an advanced filtration device, we strive to reduce water consumption. As a result, we succeeded in reusing 39% of blow-down water on average per year. Other than that, we proactively take environmental initiatives such as by turning data centers into green spaces and installing solar panels.



Cooling tower

### Blow-down Water Reuse Rate during 2019 ← Average 39%

	January to March	April to June	July to September	October to December
Blow-down Water	9,292m <sup>3</sup>	8,619m <sup>3</sup>	8,795m <sup>3</sup>	7,670m <sup>3</sup>
Reused Water	3,435m <sup>3</sup>	3,157m <sup>3</sup>	3,253m <sup>3</sup>	3,416m <sup>3</sup>
Reuse Rate	37%	37%	37%	45%



Solar panel



Wall greening



Commendation by the Tokyo Metropolitan Government (TMG)

### 110,000t-CO<sub>2</sub> Reduction Credit Donated to the Tokyo Metropolitan Government

In June 2019, AT TOKYO donated 110,000t-CO<sub>2</sub> to the Tokyo Metropolitan Government among the CO<sub>2</sub> reduction credit banked. AT TOKYO fully agrees with the “Zero Emission Tokyo\*” initiatives the Tokyo Metropolitan Government is aiming for and cooperates in this way for carbon offset.

\* The Tokyo Metropolitan Government's vision of keeping global warming under 1.5 °C and contributing to reduce CO<sub>2</sub> emissions to net zero by 2050.



# INTERVIEW

## Behind the Scenes in AT TOKYO

### Data Centers that Are Friendly to the Environment



We, AT TOKYO, operate data centers that excel in connectivity with major cloud service providers and telecommunications carriers in- and outside Japan with 24/365 zero downtime operation, and we are certified by the Tokyo Metropolitan Government as “Top-Level Facilities” for three of our data centers. It is a rare occurrence for a company to have as many as three data centers certified as “Top-Level Facilities” in Tokyo. We’d like to introduce the back story of receiving this certification.



#### The Crucial Importance of Retaining Top-Level Facilities Certification Every Year

Our customers place great importance on environmental considerations, and “Top-Level Facilities” certification provides strong evidence of our environmental friendliness. “Top-Level Facilities” update inspection takes place every five years, including more than 200 inspection items and with a level of standards that rises every time, so our daily activities become increasingly important. I feel that it would be a difficult task to maintain and update this certification even if we receive it, without the strong will and determination of everyone, as a company.

**Norio Mitsui**, Group Manager, Integrated Monitoring Group, Facility Operations Dept., Engineering & Services Div.

#### The Difficulty of Energy Conservation at Data Centers and the Great Value of Achieving It

Data centers consume enormous amounts of electricity. For such data center businesses, we can conserve energy by being creative with air conditioning systems such as by employing heat sources efficiently and circulating cool air effectively. We cannot directly control the energy consumption of our customers’ assets, devices, but we can suggest to them, for example, energy-saving arrangements from the standpoint of a space provider.



**Masaki Chono**, Senior Engineer, Facility Operations Group, Facility Operations Dept., Engineering & Services Div.



#### The Unified Awareness of the Whole Company and Persistent Efforts Are the Keys to Success

With the spread of the Internet and cloud computing, there is an explosive increase in data center usage in a form that is not readily apparent. The more customers use data centers, the greater the energy that is consumed, so operators take many initiatives toward energy conservation every day via persistent efforts such as through effective airflow management and optimal operation of refrigeration equipment. In addition, we contribute to the environment via efficient use of resources such as recycling waste materials during facility upgrades. AT TOKYO will continue to aim for highly environmentally friendly data center operations, while gaining and maintaining customers’ trust.

**Hisashi Ito**, Associate Director, Engineering & Services Div.

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.



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