Impact Reporting (April 1 2022～March 31 2023)

<table>
<tr><th>Eligible Project</th><th>ICMA Project Category</th><th>Impact Reporting Item</th><th>Disclosure Information</th></tr>
<tr><td>①5G-related investment</td><td>Energy efficiency</td><td>■Number of 5G base stations installed</td><td>■Approx. 30,000 Stations (As of March 31 2023)</td></tr>
<tr><td>②FTTH-related investment</td><td>Energy efficiency</td><td>■Number of subscribers (units)</td><td>■23.58 Million Agreements (As of March 31 2023)</td></tr>
<tr><td>③R&D for the realization of the IOWN concept</td><td>Energy efficiency</td><td>■Explanation of the intended effects of the eligible R&D projects
■Introduction of the progress of the R&D and examples of services and products</td><td>■Attachment</td></tr>
<tr><td>④Highly energy efficient and power-saving data center</td><td>Energy efficiency</td><td>■Amount of CO_2 emissions (t-CO_2)</td><td>■Not Applicable</td></tr>
<tr><td>⑤Green Buildings</td><td>Green Buildings</td><td>■Name of the Green Buildings, certification level obtained, and the timing of acquisition and reacquisition
■Amount of CO_2 emissions (t-CO_2)</td><td>
<table>
<tr><th>Property Name</th><th>Certification Level</th><th>Acquisition and Evaluation Timing</th><th>Amount of CO_2 Emissions for FY2022 (April 2022-March 2023)</th></tr>
<tr><td>Shinagawa Season Terrace</td><td>BELS Five star</td><td>December 2019</td><td>10,558 tons Co_2</td></tr>
<tr><td>Urbannet Nagoya Nexta Building</td><td>CASBEE Nagoya S rank</td><td>December 2019</td><td>2,461 tons Co_2</td></tr>
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<tr><td>⑥Renewable Energy</td><td>Renewable Energy</td><td>■Power generation capacity/ actual amount (GWh)
■Amount of CO_2 emissions reduced (t-CO_2)</td><td>■Power generation Actual Volume: 186GWh (Reference: Facility Capacity 360,000KW)
■Volume of CO_2 emissions reduced 87,097 tons-CO_2
(Buildings under construction excluded)</td></tr>
</table>

【Attachment】

We advanced initiatives to flesh out the IOWN concept and to roll out the technology and resolve issues in a range of industries.

IOWN Concept

Amid the accelerating digital shift in social and economic activities, the use of communication networks has expanded greatly, and we are approaching the limits of data volume, latency, and power consumption. The IOWN concept breaks this barrier with revolutionary photonics technology, with the goal of creating a sustainable world.

Low power consumption	Large capacity, high quality	Low latency
100 times greater power efficiency*	**125** times greater transmission capacity*	End-to-end latency reduced by **a factor of 200***
Provides various information and communication services at power consumption reduced by a factor of 100.	Capable of downloading 10,000 two-hour movies instantaneously (in 0.3 sec). (Compared with one movie in 3 sec with 5G technology)	Transmits real-time video without the latency experienced with digital TV or satellite broadcasting.
* Target power efficiency for portion where photonics technology is applied	* Target communication capacity per optical fiber cable	* Target latency in video traffic not requiring compression within the same prefecture

Research and Development for the realization of the IOWN concept

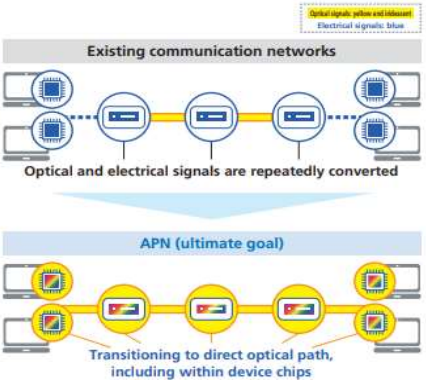
■Along with the start of APN IOWN1.0 service, we announced our future developments

[Start of Provision of APN]

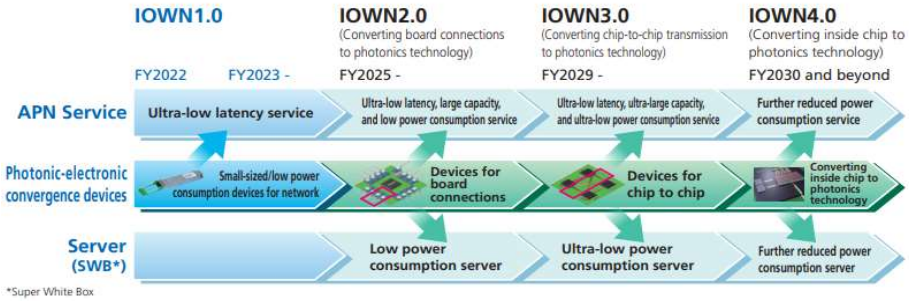
●In March 2023, as the first commercial service aimed at implementing IOWN (Innovative Optical and Wireless Network) concept, we began providing APN IOWN1.0 (All-Photonics Network), which introduces optics exclusively in all sections of the communication network.

What is APN?

In existing networks, repeated conversions of optical and electrical signals consume electricity, and control processing of communications traffic creates latency. By ultimately changing all these signals to optical signals, APN consumes less energy than current networks and realizes large-capacity networks with low latency.



■Toward a prompt release of IOWN2.0 and later versions, we pursued the development and release of new semiconductor components and software. We will continue working to achieve our targets and promptly realize this concept.



IOWN Open Innovation

■By discussing use cases with a wide range of global companies and groups and pursuing development of the necessary technologies, frameworks, and architectu we aim to realize IOWN as a new communication platform.

■The number of global major ICT companies, etc. that support IOWN's vision of the world and its innovations and that participate as members of the IOWN Global Forum has grown to 117 organizations (as of the end of March 2023).

IOWN GLOBAL FORUM

IT industry	Telecommunications industry	Various industrial and academic organizations
・Intel Corporation	・Chunghwa Telecom (Taiwan)	・Ajinomoto
・Sony Group	・KDDI	・JAXA
・Dell Technologies Japan	・ORANGE S.A. (France)	・Mitsubishi Chemical Group
・Ericsson	・Rakuten Mobile	・MUFG Bank
・Microsoft	・SK Telecom (South Korea)	・Mizuho Bank
・Nokia Corporation	・TELEFÓNICA (Spain)	・The University of Tokyo
・Red Hat, Inc., etc.	・NTT, etc.	・TOYOTA MOTOR, etc.

*Created based on information from the IOWN Global Forum website (the names of companies and other organizations may be shown using the commonly used names or abbreviations, and the names are listed in alphabetical order excluding founding members)