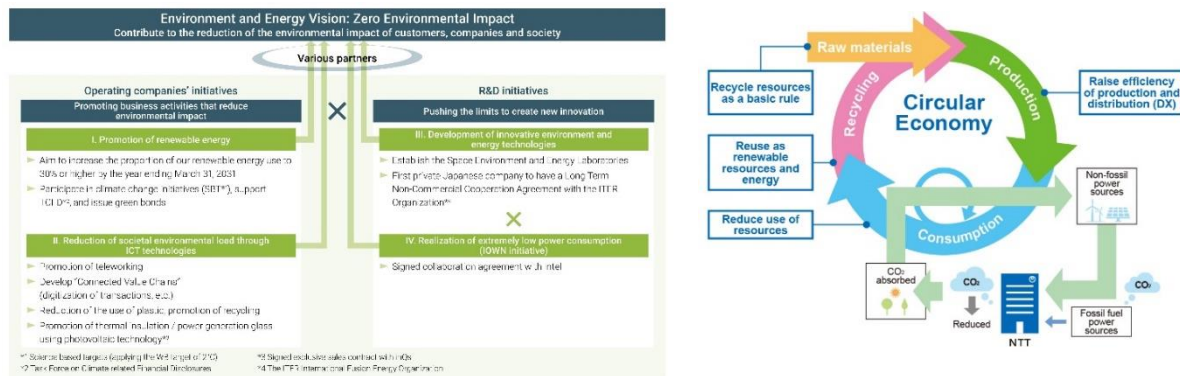


Environment and Energy Vision

We formulated the Environment and Energy Vision in May 2020 to promote ESG management, one of the pillars of our medium-term management strategy, “Your Value Partner 2025.” The vision consists of four core initiatives: promoting renewable energy, reducing environmental impact on society through ICT technologies, developing innovative environment and energy technologies, and realizing extremely low power consumption. We will help reduce environmental impact for customers, companies, and society at large by pursuing business activities toward reducing that impact through our R&D for generating breakthrough innovations.

Under the vision, we are also working to achieve our goal of zero environmental impact, not only in terms of reducing waste but also with regard to climate change, by incorporating the circular economy concept toward realizing a society that can enable sustainability of both business and the environment.



- **Promotion of renewable energy**

We will actively incorporate renewable energy to meet our need for electricity, the major source of the NTT Group's greenhouse gas emissions. We have declared our quantitative goal of increasing the proportion of renewable energy use by the NTT Group as a whole by 30% or more by fiscal 2031. To achieve this goal, the NTT Group will develop renewable energy sources and promote a shift to renewable energy at its domestic office buildings, telecommunications buildings, data centers and research laboratories. As a concrete goal for reducing the environmental impact of our business activities through the promotion of renewable energy, NTT began participating in the SBT*¹ international climate change initiative in May 2020 and declared its support for the TCFD*².

- **Reduction of societal environmental load through ICT technologies**

We believe that ICT will play an instrumental role in reducing the environmental load of society at large. For example, teleworking, digitization of the value chain, and computerization are all expected to limit energy usage throughout society. We will reinforce our efforts to reduce the environmental load of society by applying ICT. We will also pursue initiatives for creating a closed loop society, such as by reducing the use of plastics and promoting recycling.

- **Development of innovative environment and energy technologies**

We will address climate change and other environmental issues by developing innovative technologies in addition to promoting a shift to renewable energy use in our operations. In July 2020, we established the Space Environment and Energy Laboratories for regenerating the global environment and realizing a sustainable and inclusive society. We will create technologies that will drive innovation in the field of smart energy, including next-generation energy, and for the future of the global environment. We also became the first private company in Japan to conclude a Long-Term Non-Commercial Cooperation Agreement with the International Fusion Energy Organization (IFER). We will work to successfully develop nuclear fusion reactors that hold significant promise as a future source of energy by offering support through IOWN's ultra-low-latency, high-speed, large-capacity data transmission and simulations based on digital twin computing.

- **Realization of extremely low power consumption (IOWN initiatives)**

We will pursue efforts to realize the IOWN initiatives announced in May 2019, which are expected to vastly reduce the power consumption of computers and networks by applying optical technologies. As part of this drive, we concluded a three-year joint research agreement with Intel Corporation, our partner in the IOWN Global Forum. Together, we will create IOWN technology as the communications infrastructure of the future that will break through current technological limits in areas such as significantly reducing electricity consumption. We will harness the NTT Group's industry-leading technologies in photonics, digital signal processing (DSP), computing and network infrastructure management with Intel's abundant technological portfolio, support systems, and expert knowledge in hardware and software to develop technologies for processing the explosive rise in data volume, which is necessary for realizing a smart, connected world.

*¹ Science Based Targets: Greenhouse gas reduction targets set by companies to be attained in five to fifteen years that are consistent with levels required by the Paris Agreement, of constraining the increase in global temperatures at well below 2°C (WB2°C) or below 1.5°C from before the industrial revolution.

*² Task Force on Climate-related Financial Disclosures established by the Financial Stability Board in response to a request from the G20 countries as a framework for corporate information disclosure on climate change initiatives.