
SANYO DENKI's Specialty Technologies

Shigejiro Miyata Operating Officer

The world's average annual temperature rose by 0.85°C over the past 100 years. In particular, the temperature rise in the Northern hemisphere was notable, especially in high-latitude locations close to the North Pole. In Japan also, the temperature rose by 1.21°C over the past century, with many of the years since 1990 being particularly hot.

I too personally feel that the climate has changed significantly, such as in the abnormal weather we have seen over the past few years.

Various gases are linked to global warming, however, carbon dioxide has the greatest impact, accounting for about 76% of greenhouse gases. Since the industrial revolution, fossil fuel use has been increasing, consequently leading to an increase in concentration of carbon dioxide in the atmosphere.

Greenhouse gas emissions have continued to increase, and are currently more than 50% higher than in 1990. Moreover, global warming is bringing about long-term changes to the entire global climate system, and if immediate action is not taken, there is a chance the situation will be irreparable. In the Paris Agreement in 2015, it was agreed that there was a need to limit global temperature rise this century to under 2°C above pre-industrial levels, and to pursue efforts to limit the temperature increase even further to 1.5°C. There was also common recognition of the need for decarbonization.

This was indicated in Goal 13 of the 17 Sustainable Development Goals (SDGs),* which states “Take urgent action to combat climate change and its impacts.” These were set at the United Nations summit as part of the 2030 Agenda for Sustainable Development, and are to be achieved in the period between 2016 and 2030.

We, SANYO DENKI Group, have set development goals at our design departments as part of our 8th Mid-term Management Plan. Two such goals are:

- (1) Create products with performance that deliver new value for customers, making them happy and helping them realize their dreams.
- (2) Become specialists in change. Find new value in change, turn change into value for our customers, generate change in the market through the strength of the entire group, and continuously offer new value in a changing world.

Specifically, the following product features were set as development targets: eco-efficiency, low loss, high airflow, high static pressure, low noise, water resistance, oil resistance, salt resistance, and a wide temperature range.

These targets of our design departments are consistent with Goal 13 of the Sustainable Development Goals (SDGs). The eco-efficiency and low loss features can reduce the energy consumption of our products. Features such as high airflow, high static pressure, low noise, water resistance, oil resistance, salt resistance, and a wide temperature range can simplify the structure of our customers' equipment. Also, long service life, vibration resistance, and G-force resistance can extend the maintenance cycle of our products, contributing to resource recycling and energy consumption reduction.

Moreover, as a product that can replace fossil fuels, we offer renewable energy inverters that produce energy with low environmental impact, such as photovoltaic, wind, and hydroelectric energy. These goals are consistent with Goal 7 of the 17 SDGs — Affordable and Clean Energy.

This report features our technologies used in new products and new technologies developed based on a long-term perspective as “SANYO DENKI's Specialty Technologies.” Through these activities and technological developments, we will build a brand trusted by customers around the world. Through our corporate activities, we will contribute to the conservation of the global environment and prosperity of the human race.

* Sustainable Development Goals (SDGs) are the successors of the Millennium Development Goals (MDGs) set in 2001, and are global targets to be achieved in the period between 2016 and 2030 as part of the 2030 Agenda for Sustainable Development formulated at the United Nations summit in September 2015.

Reference

(1) Ministry of Foreign Affairs of Japan — JAPAN SDGs Action Platform
<https://www.mofa.go.jp/policy/oda/sdgs/index.html> (2019.9.19)