

CSR Activities | Environment

Reduce of CO₂ Emissions from Production Activities

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Background of Objectives

The human-caused emission of greenhouse gases, which is thought to be one of the causes of global warming, continues to increase. As shown, for example, by the Paris Agreement, which was adopted at the 21st Conference of the Parties to the UN Framework Convention on Climate Change (COP 21) in December 2015, there is a growing sense of crisis concerning climate change. In particular, carbon dioxide (CO₂) accounts for 76% of greenhouse gases and is a main source of emissions.* Therefore, it is necessary to implement a steady reduction of emissions in industrial activities. In the TDK Environmental Vision 2035, TDK addresses the issue of reducing the environmental load from the perspective of the entire lifecycle, from the use of raw materials to the use and discarding of products. Within this process, we realize that energy origin CO₂ emissions at production sites are a principal cause of environmental load, and we are taking steps to reduce them.

o *From the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC)

Fiscal 2017 Goals and Achievements

Goal

- Improve energy origin CO₂ emissions basic-unit by 2.0% compared with fiscal 2014 Achievements

Achievement

- Worsened by 10.5% compared with fiscal 2014

Main activities and measures

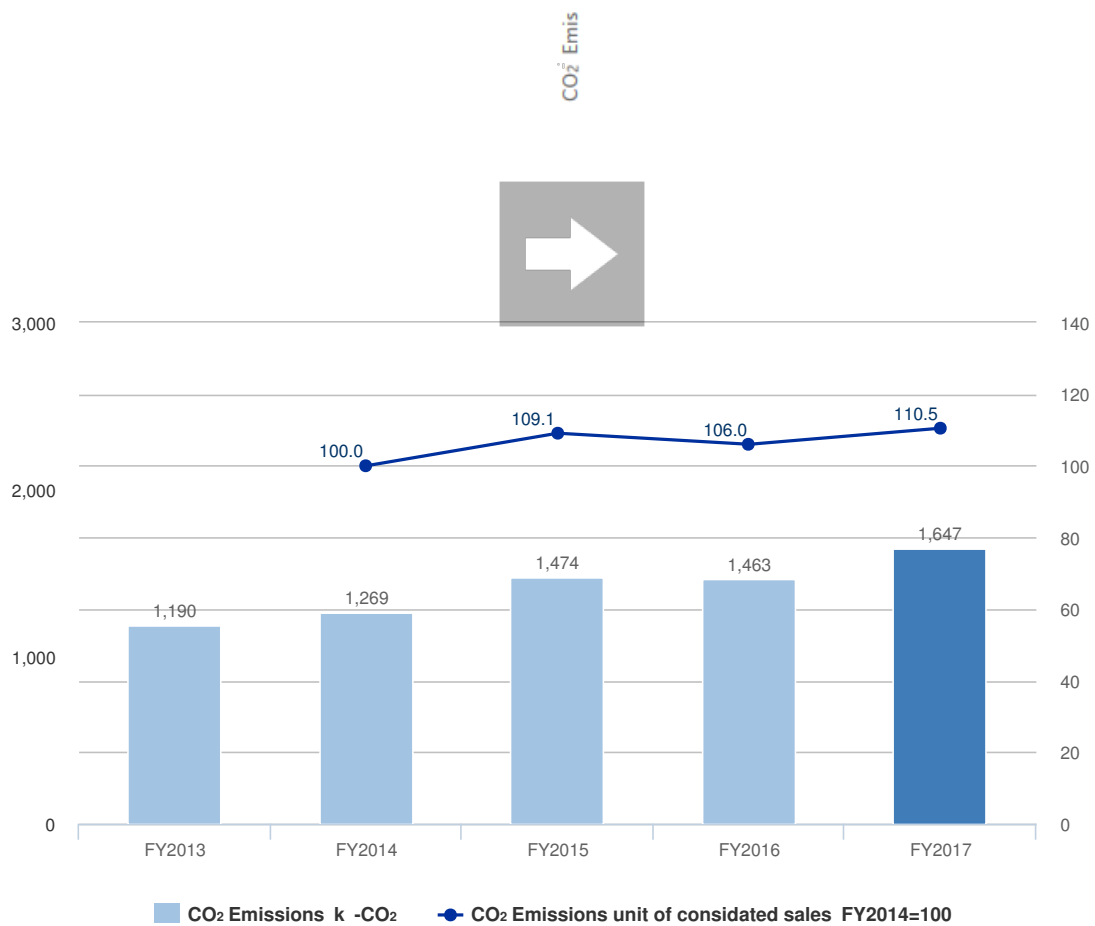
- Implement energy saving activity worth 2.0% of FY 2015 CO₂ emissions at each manufacturing site

CO₂ emissions at production sites in fiscal 2017 amounted to 1.647 million tons, up 12.6% from the previous year. In addition, CO₂ emissions per unit of consolidated sales worsened by 10.5% compared with fiscal 2014. Thus, our goal was not achieved.

The main cause of failure to achieve the target was that the increase rate in energy use exceeded the increase rate in sales.

Trends in CO₂ Emissions from Production Activities (Global)

Emissions [kt-CO₂]

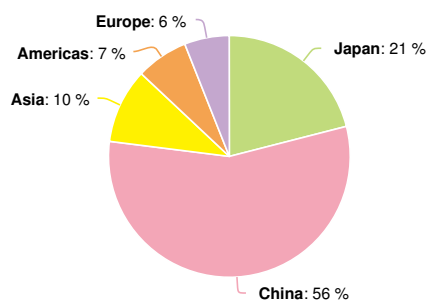


○ *A third party review of the calculation method was performed

Related links

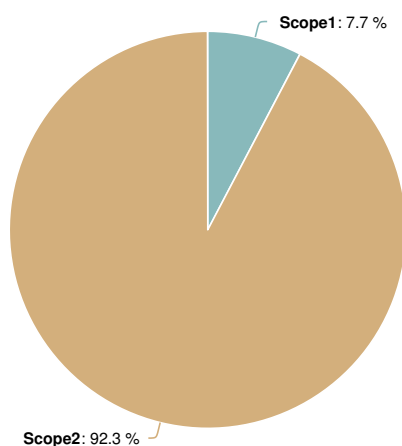
[Third Party Review of Environmental Performance Data](#) >

FY2017 emissions ratio by region Total emissions of TDK Group



FY2017 emissions ratio by scope

F12017 emissions ratio by Scope Total emissions of TDK Group



※Scope:

An international category for measuring greenhouse gas (GHG) emissions defined by the Greenhouse Gas Protocol.

Scope 1 is defined as direct emissions from facilities that are owned or controlled by the organization, and Scope 2 as emissions from the generation of energy consumed by facilities that are owned or controlled by the organization.

※ TDK's standards for CO² emissions conversion

- Figures for the energy used by each facility are calculated by multiplying the volume of purchased electricity and fuel (such as gas and oil) by a CO² conversion factor.
- The CO² conversion factor for fuel is as stipulated in the Law Concerning the Promotion of Measures to Cope with Global Warming.
- The CO² conversion factor for purchased electricity is the latest factor published at the outset of the term when establishing the plan. (For Japan: Emission coefficient by electric power company based on the Act Concerning the Promotion of Measures to Cope with Global Warming; Overseas: coefficient used by GHG protocol for each country, eGRID coefficient for USA)

Future Activities

TDK will promote activities more closely associated with production activities through manufacturing reform tied to the Industry 4.0 and TDK's own pursue zero-defect product quality.

Concrete Activities

Reducing Energy in Manufacturing and Fostering the Next-generation



On-site training by persons in charge of energy

TDK has been working to support improvements and other projects aimed at reducing environmental impact, particularly targeting manufacturing sites in the Group that have high CO² emissions. As a result, in fiscal 2017, the Group as a whole achieved a 2.1% year-on-year reduction in emissions, equivalent to 31,388 t-CO².

We have also been fostering the next-generation, sending energy specialists to provide training at each site, especially with regard to energy management.

[Environmental Policy and Environmental Vision](#) >

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