

# Environmental Conservation Activities



## Social Requirements

- Reduction of environmental impacts
- Global warming prevention
- Waste reduction

## The FDK Approach

- Promote the development of environmentally friendly products
- Reduce greenhouse gas emissions
- Adoption of renewable energy
- Reduce the amount of waste generated

## Highlights of Environmental Conservation Activities

<p>10th Environmental Action Plan of 7 target items</p> <p><b>6</b> achieved</p>	<p>Design for environment</p> <p>Achieved at <b>3</b> out of <b>4</b> sites</p>	<p>Reduction of greenhouse gases</p> <p><b>Target achieved</b></p>	<p>Energy consumption per unit</p> <p><b>Target achieved</b></p>
<p>Adoption of renewable energy</p> <p><b>Target achieved</b></p>	<p>Reduction of chemical substances</p> <p><b>Target achieved</b></p>	<p>Reduction of waste</p> <p><b>Target achieved</b></p>	<p>Local environmental efforts and social contribution activities</p> <p><b>Target achieved</b></p>

## Environmental Conservation Initiatives

### Protecting the Global Environment

#### Basic Concept

As a member of the Fujitsu Group, the FDK Group recognizes the need for action toward the realization of an independently sustainable and recycling-oriented society with initiatives toward environmental conservation that follow the business activities of the company, which include not only legal compliance in each country and region, greenhouse gas reduction, waste reduction, and thorough management of chemical substances but also the reduction of our environmental impact through the products that FDK provides. FDK established the FDK Group Environmental Policy to promote even more robust Group-wide management environment.

#### FDK Group Environmental Policy Action Guidelines

1. Promote and continually enhance environmental management through an environmental management system that complies with the ISO 14001.
2. Promote the sustainable use of natural resources, measures to combat climate change, protection of the ecosystem, and measures to prevent environmental pollution.

3. Comply with all requirements that have been agreed upon from environmental laws and regulations to agreements made with administrative bodies related to FDK business activities.
4. Undertake initiatives through relevant departments using the items below as prioritized themes:
  - (1) Promote eco-conscious product development.
  - (2) Promote energy savings.
  - (3) Properly manage chemical substances.
  - (4) Reduce waste and promote recycling.
  - (5) Promote local environmental efforts and social contribution activities.
  - (6) Advocate initiatives for suppliers and customers to reduce CO<sub>2</sub> emissions.
5. Set environmental goals and targets to achieve in the Environmental Policy and promote environmental management as an effort undertaken by all FDK Group employees, including those of affiliated companies and group companies.
6. Raise awareness about the Environmental Policy among all FDK Group

employees, including those of affiliated companies, as well as partners working on FDK Group premises, and share it with all stakeholders.

#### ISO 14001 Certification Status

FDK Corporation

- Head Office, Kosai Plant, Washizu Plant, Takasaki Plant, Tottori Plant
- Sales offices: Tokyo Metropolitan Area, Sapporo, Sendai, Nagoya, Osaka, Hiroshima, Fukuoka, Okinawa Sales Center

Domestic group companies

- FDK ENGINEERING CO., LTD.
- FDK PARTNERS CORPORATION

Overseas group companies

- FUCHI ELECTRONICS CO.,LTD. (Taiwan)
- XIAMEN FDK CORPORATION (Xiamen, China)

#### Our Plan for Carbon Neutrality

The Fujitsu Group's medium- to long-term environmental vision sets a target of zero CO<sub>2</sub> emissions by 2050. In addition, as part of the RE100 (an international initiative that aims for companies to supply 100% of the electricity used in their business activities from renewable energy sources), the company has set a target of supplying at least 40% of the electricity used in its business

activities with renewable energy sources by 2030, and 100% by 2050. In FY2023, we accelerated our goal to achieve 100% by 2030. The FDK Group will continue to work towards carbon neutrality in line with Fujitsu's goals. In FY2022, 8% of the electricity used by the entire FDK Group was from renewable energy sources.

#### Green Procurement

The FDK Group considers how to improve global environmental problems, and is working to contribute to the sustainable development of society by conducting business activities that consider the environmental burden and supply environmentally friendly products. As part of these efforts, it is essential that the products we obtain from our suppliers are also environmentally friendly, and we have summarized this idea in the FDK Group Green Procurement Standards.

In order to coexist with the global environment and manufacture products that work in harmony with it, the FDK Group is conducting Green Procurement, which takes into account environmental aspects in addition to the aspects of quality, cost, delivery, and service that we have traditionally pursued.

\* FDK Group Green Procurement Standards, Version 7.0  
([https://www.fdk.co.jp/kankyou/green\\_proc.html](https://www.fdk.co.jp/kankyou/green_proc.html))

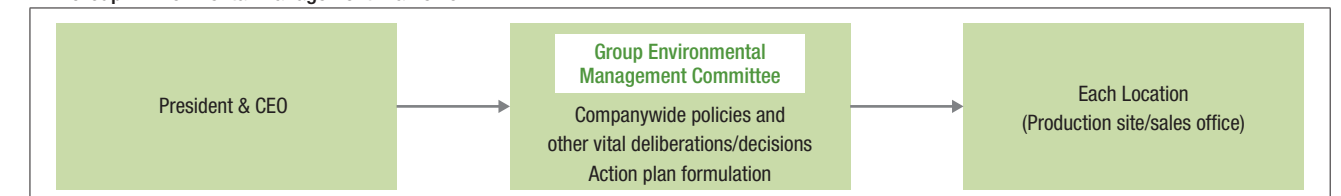
### FDK Group Environmental Policy

The FDK Group will pursue environmental management based on the following philosophy.

#### Philosophy

As a Smart Energy Partner that assembles advanced technologies, the FDK Group would like our customers to best utilize electric energy in a safe and efficient manner, and it hopes to contribute to the materialization and development of a sustainable society. Moreover, the FDK Group will promote environmental initiatives as efforts undertaken by all employees whether FDK Group companies or partners through fair corporate activities which comply with environmental laws and regulations to pass down a beautiful global environment rich with nature to the next generation.

#### FDK Group Environmental Management Framework



#### Basic Concept

The FDK Group has formulated a plan that conforms to the Fujitsu Group Environmental Action Plan and it has been promoting environmental initiatives. Through these policies and targets, FDK Group will contribute to reducing the

environmental impact of customers and society while striving to reduce the environment impact of the FDK Group by strategically and continuously expanding environmental conservation activities to all FDK business regions. Results for FY2022 are shown on next page.

### FDK Group 11th Environmental Action Plan FY2022 Achievements

Items	FY2022 Action Plan	Overall Evaluation (○/×)
Environmentally Conscious Design	Develop products that contribute to resource conservation (at least one at each site)	○
	Develop products that contribute to improved resource efficiency (at least one at each site)	×
Reduction of greenhouse gases	Limit overall CO <sub>2</sub> emissions from energy consumption at the whole FDK Group in Japan to 31,311 tons or less (coefficient: 0.57)	○
Energy efficiency	Improve energy consumption by 1% compared to the previous year at each site using the energy consumption intensity as an indicator.	○
Adoption of renewable energy	Adopt 40% renewable energy across the FDK Group by FY2030 (equivalent to 8% of FY2022 target)	○
Reduction of chemical substances	Improve emissions of PRTR substances used at each site by 7% by the end of FY2022 compared to FY2015, using emissions intensity as an indicator.	○
Reduction of waste	Improve the amount of waste generated by 7% compared to fiscal 2015 at each site by the end of fiscal 2022, using the basic unit of waste generation as an indicator.	○
Conservation of water resources	Study of measures to reduce water consumption	○
Local environmental efforts and social contribution	Conduct at least 15 initiatives a year toward local environmental efforts and social contribution activities throughout the FDK Group	○

### Social Contribution Activities

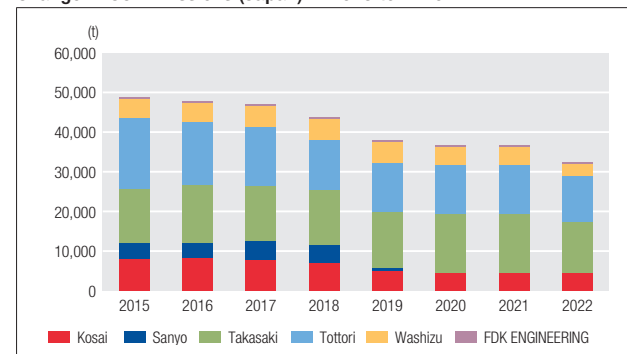
As part of its activities for contributing to society, FDK supports "The Sound of Batteries Powered by the Sun" concerts by Yumiko Orishige, one of the world's only claviera performers.

These concerts are powered entirely from Ni-MH batteries charged using sunlight, representing a collaboration between Yumiko Orishige, a musician whose music is based on the theme of protecting the global environment, and our environmentally friendly rechargeable batteries aimed at renewable energy.

FDK will continue to engage in projects that contribute to society and the environment through the activities that utilize the features of FDK businesses.

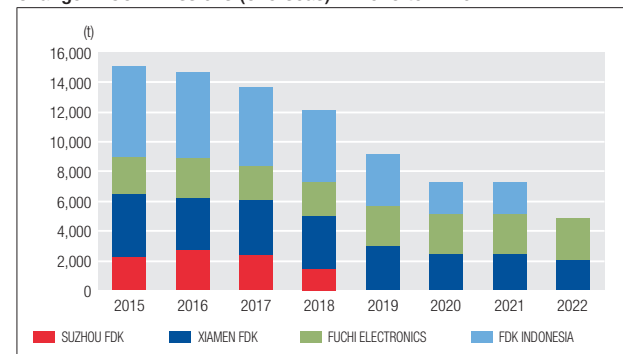


### Change in CO<sub>2</sub> Emissions (Japan) FY2015 to FY2022



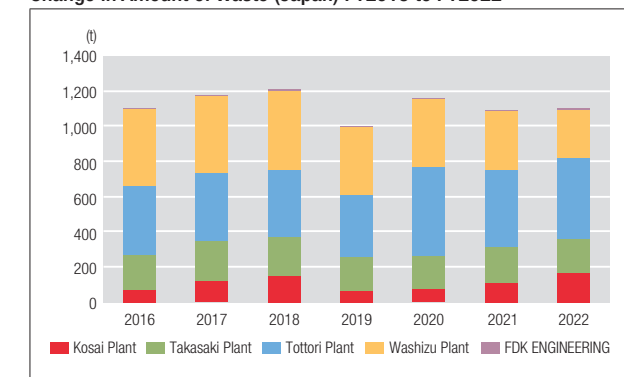
The data for Sanyo is current as of June 2019.

### Change in CO<sub>2</sub> Emissions (Overseas) FY2015 to FY2022

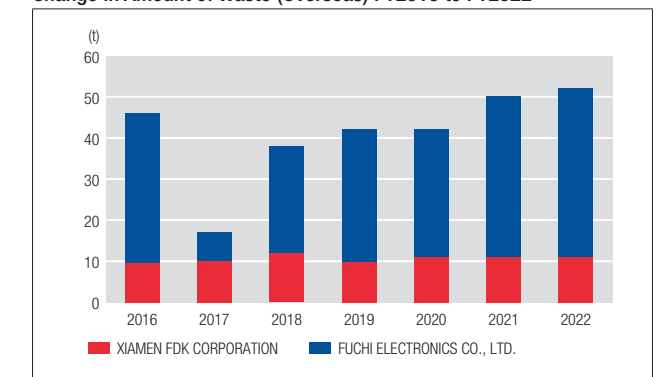


The data for Suzhou FDK is current as of September 2018.  
The data for FDK Indonesia is current as of September 2020.

### Change in Amount of Waste (Japan) FY2016 to FY2022



### Change in Amount of Waste (Overseas) FY2016 to FY2022



### Environmental Performance Data by Business Site

Items	(Unit)	Kosai Plant	Takasaki Plant	Tottori Plant	Washizu Plant	FDK Engineering
CO <sub>2</sub> emissions	FY2022	4,422	12,718	11,919	3,189	151
	Previous fiscal year	4,455	15,426	12,220	4,794	159
Water usage	FY2022	50,453	21,212	67,876	35,010	425
	Previous fiscal year	48,370	24,552	57,788	36,143	432
PRTR chemical emissions	FY2022	0	0	0	0	-
	Previous fiscal year	0	0	0	0	-
SO <sub>x</sub> emissions	FY2022	-	-	-	-	-
	Previous fiscal year	-	-	-	-	-
NO <sub>x</sub> emissions	FY2022	61	-	787	-	-
	Previous fiscal year	341	-	942	-	-
Soot (measured density)	FY2022	-	-	-	-	-
	Previous fiscal year	-	-	-	-	-
Waste water	FY2022	50,453	20,254	34,016	35,010	425
	Previous fiscal year	48,370	24,089	31,088	36,143	432
Waste	FY2022	170	189	456	281	7
	Previous fiscal year	109	206	439	329	6

Items	(Unit)	XIAMEN FDK CORPORATION	FUCHI ELECTRONICS CO., LTD.
CO <sub>2</sub> emissions	FY2022	2,052	2,765
	Previous fiscal year	2,200	2,726
Water usage	FY2022	15,783	17,008
	Previous fiscal year	14,649	13,228
PRTR chemical emissions	FY2022	-	-
	Previous fiscal year	-	-
SO <sub>x</sub> emissions	FY2022	-	-
	Previous fiscal year	-	-
NO <sub>x</sub> emissions	FY2022	-	-
	Previous fiscal year	-	-
Soot (measured density)	FY2022	-	-
	Previous fiscal year	-	-
Waste water	FY2022	12,626	17,008
	Previous fiscal year	11,719	13,228
Waste	FY2022	11	41
	Previous fiscal year	11	39

Note: CO<sub>2</sub> conversion coefficient 0.57 (t-CO<sub>2</sub>/MWh)