

Environmental Management Initiatives

Fuji Electric is devoting effort to maintaining compliance with environmental laws, regulations, and standards and implementing environmental management systems based on items 4 and 5 of the Basic Environmental Protection Policy.

[Environmental Management in accordance with ISO 14001](#)

[Environmental Risk Management](#)

Environmental Management in accordance with ISO 14001

Fuji Electric has put in place environmental management systems at all of its production and sales bases in Japan as well as all of its overseas production bases (within the scope of Fuji Electric's environmental management) and is working to acquire third-party certification.

In addition, all employees take part in environmental education programs, and everyday environmental activities, such as those targeting reductions in energy and water use as well as waste production, have become an entrenched part of our corporate culture.

The Status of ISO 14001 Certification

(As of March 31, 2021)

No. of Sites with EMS		Japan	Overseas
Total		27	16
	Acquired	27	14
	Not yet acquired	0	2

No. of domestic sites: Sites decreased by one as a result of a merger between Ibaraki Fuji Co., Ltd. and Fuji Electric.

No. of overseas sites: Sites increased by one as Fuji Electric Consul Neowatt Private Limited (FCN) became a consolidated subsidiary.

Sites not yet acquired are the two companies of Fuji Gemco Private Limited and Fuji SEMEC Inc.

Environmental performance coverage rate: 99.6% of sites in the scope of environmental management are aggregated.

In addition, the scope of aggregation is equivalent to 95.3% of the entire Company (95.3% is employee ratio)

Internal Environmental Audits

Since fiscal 2003, the departments in charge of environmental management have been conducting environmental inspections, which double as internal audits, of our ISO14001-certified sites.

In our environmental inspections, we use fact sheets* to visualize environmental risks at each site. To reduce identified risks, we work with site personnel to lower environmental impacts and improve environmental management levels.

For our inspections, we deploy both a local inspection that local team visits each site directly and a remote inspection that uses a web conferencing system. In fiscal 2020, with the impact of the spread of COVID-19, we conducted internal audits at 5 locally inspected sites (5 in Japan) and 20 remotely inspected sites (17 in Japan and 3 overseas).

Moreover, from fiscal 2020, we commenced paper-based inspections using a new check sheet at domestic sales sites and overseas sites where up until then we had only conducted inspections every other year. By taking this approach we achieved a 100% inspection coverage rate at relevant sites, allowing us to check the status of compliance and environmental risk management.



Environmental site inspection at Mie Factory

*Fact sheets combine records of inspections on the compliance and environmental risk management status of each site and an environmental performance sheet, which is used to record environmental performance at each site, including energy consumption, chemical substance discharge, and waste volume.

Environmental Violations in Japan

Fiscal year	Fines, Penalties	Recommendation by government	Primary exceeding reference value, notices
2016	0	0	0
2017	0	0	0
2018	0	0	0

Fiscal year	Fines, Penalties	Recommendation by government	Primary exceeding reference value, notices
2019	0	0	0
2020	0	0	0

Environmental Violations in overseas sites

Fiscal year	Briefing / Social get-together / Presentation, etc.	Opinions / Requests / Complaints, etc.	
			(of which, number remaining unaddressed)
2016	1 ^{*1}	0	0
2017	0	0	0
2018	0	0	0
2019	0	0	2 ^{*2}
2020	0	0	0

*1. China: Violation of factory installation conditions (penalty: RMB130,000)

*2. Thailand: Supervisor in charge of handling chemical substances (vacancy for a qualified person: currently available)

Malaysia: Exceeded wastewater (oil particulate) limits

For now, all of these cases have been modified.

Status of environmental communication with local communities In Japan

Fiscal year	Briefing / Social get-together / Presentation, etc.	Opinions / Requests / Complaints, etc	
			(of which, number remaining unaddressed)
2016	26	10	0
2017	30	10	0
2018	28	14	0
2019	30	15	0
2020	36(cancellations12)	6	0

Fiscal 2020 examples

- Fiscal 2020 saw 12 external communication activities cancelled due to the impact of COVID-19. Main environmental activities were daily cleanup and others, whereas science classes, tree-planting events and other such activities conducted with local stakeholders were cancelled.
- Opinions, requests and complaints all declined substantially.
- When things return to normal after COVID-19, Fuji Electric will continue actively communicating with stakeholders in local communities and contribute to environmental improvements as a good corporate citizen.

Overseas

Fiscal year	Opinions / Requests / Complaints, etc	Opinions / Requests / Complaints, etc	
			(of which, number remaining unaddressed)
2016	8	0	0
2017	9	1	0
2018	7	0	0
2019	11	0	0
2020	9	0	0

Overseas sites

Briefings, social gatherings, presentations, etc.: Tree-planting events, cleanup activities, etc.

Environmental Risk Management

To maintain a stable production system, it is essential that we strengthen environmental risk management at our production sites. For this reason, we actively promote education and understanding of competence for personnel at our production sites on such topics as mitigating climate change risk, preventing pollution, and increasing environmental risk sensitivity.

At all of At all our domestic production sites, we use fact sheets to manage risks related to both facilities and equipment and environmental performance. We will continue enhancing our fact sheets and using them not only for risk management but also for energy and resource conservation initiatives.

Measures for Responding to Climate Change Risks

Risk factors	Manufacturing sites	Measure Details
Depletion of water resources	Shenzhen	We increased the water recycling ratio to 80% by introducing recycling facilities.
	Matsumoto, Zhuhai	We are purifying a portion of factory wastewater for everyday use and recycling water to meet the pure water requirements of manufacturing processes. [Related Link : Initiatives at Matsumoto Factory]
Increases in water prices	Malaysia	As this sites uses the most water, we are stepping up water-saving measures to achieve our 30% usage volume reduction goal by 2020.
Floods	Thailand	When establishing a new factory to reinforce production systems, we chose location at high elevation to mitigate flood-related disaster risks
Blackouts resulted from torrential rain	Matsumoto, Yamanashi	We implemented response measures through a monitoring system using early weather change alerts and took steps to ensure stable electricity supplies through UPSs and in-house generation facilities for crucial equipment.
Transportation congestion or disruption resulted from torrential rain	Mie	We have established a system allowing production to be shifted to different days when large-scale disruptions to transportation, distribution, or production are forecasted prior to torrential rain.

Illustration of Environmental Risks

Fuji Electric establishes specific environment risk maps for each factory in order to guide environmental preservation activities and help reduce the impact on the environment should an accident occur. These maps provide diagrams that illustrate a clear picture of information regarding the facilities, equipment, and work processes with the potential to impact the environment as well as information related to the factory premise and buildings. Accordingly, these maps make it easier to share and communicate environmental risk information.

We maintain environmental risk maps for all of our domestic production sites. These maps are reviewed and updated annually to ensure they contain the latest information.

Overseas, we create, review, and annually update soil-related environment risk maps for our production sites in China, Thailand, Malaysia, and the Philippines. These maps combine tracing data on the use and storage of chemical substances and oil with information on factory premises and buildings.

Note: Details of environment risk maps

Information contained includes histories of soil contamination surveys and purification measures; chemical substance storage and usage logs; details on environment-related facilities; diagrams of water intake and exhaust systems, steam supply systems, and power systems; building earthquake resistance levels; and buildings using asbestos.

Prevention of Emission of Pollutants into Water and Air

In order to prevent environmental pollution, Fuji Electric has installed treatment equipment at bases that utilize chemical substances and manages the quality of water used in these bases to ensure that chemical levels do not exceed established environmental standards. We also conduct periodic emergency response drills to guarantee that we are prepared should an abnormality be detected.

Furthermore, in order to ensure compliance with environmental standards, we have equipped in-house generation equipment (excluding emergency-use backup generators) with emission treatment equipment to limit the release of NOx into the atmosphere.

We also strive to limit the release of SOx into the atmosphere by using low-sulfur fuels.

Soil Purification

By fiscal 2007, we achieved a full understanding of the status of soil and underground water pollution at all domestic production sites. We then started purification programs at all 13 sites, of which purification has since been completed at nine.

We then conducted soil investigations at timings described in the Soil Contamination Countermeasures Act of Japan*1, which revealed that certain sites required further groundwater monitoring. As of June 2021, we were engaged in water purification at three sites*2 and groundwater monitoring at four sites*3.

Overseas countries are also enacting laws and regulations similar to Japan's Soil Contamination Countermeasures Act, and in response we have started conducting land-use history assessments and compiling electronic maps.

Furthermore, we perform soil investigations prior to purchasing or selling land, whether in Japan or overseas, to check for risks of contamination and other problems.

*1. Timing for soil investigations: When closing down specific facilities designated by the Water Pollution Control Act or when conducting land alterations beyond predefined levels.

*2. Mie, Matsumoto, and Azumino (Fuji Meter)

*3. Kawasaki, Fukiage, Saitama, and Hokuriku (Fuji Electric Power Semiconductor Co., Ltd.)