

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 April 1, 2022)

No. of Sites with EMS	Japan	Overseas
Total	26	17
Acquired	26	15
Not yet acquired	0	2

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

The coverage ratio of ISO's environmental standards is 41/43 (95.3%) in terms of our operational sites and 99.6% in terms of employees.

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 field inspection that local team visits each site directly and a remote inspection that uses a web conferencing system. In fiscal 2021, we conducted field inspections at 17 sites (17 in Japan) and remote inspections at 4 sites (2 in Japan and 2 overseas).

Inspections are conducted annually at all sites in Japan. For overseas sites, inspections are conducted biennially, supplemented by paper-based auditing for the non-inspected year using a check sheet. By taking this approach we achieved a 100% inspection coverage rate at relevant sites,



Environmental site inspection at Matsumoto Factory

ESG

- Contribution to SDGs**
- ESG Material Issues**
- Environmental Vision**
- Environment**
 - Polices, Environmental Vision 2050
 - Basic Polices on Environmental Protection
 - Message from the Environmental Officer
 - Environmental Vision 2050
 - Approach to Disclosing Climate-related Information In Accordance with TCFD Recommendations
 - Environmental Management
 - Environmental Management Organizational Framework
- Environmental Management Initiatives**
 - Environmental Achievements
 - Environmental Management Targets and Achievements
 - Interplay between Business Activities and Environmental Impact
 - Environmental Accounting
 - Environmental data
 - Third-Party verification
 - Achieve a Decarbonized Society
 - Action Plan to Reduce Greenhouse Gas Emissions
 - Reducing Greenhouse Gas Emissions During Production
 - Reducing Society's CO2 Emissions through Products
 - Target for Reducing Greenhouse Emissions Across the Supply Chain
 - Recycling-Oriented Society
 - Reducing Waste in Business Activities
 - Efficient Use of Water Resources
 - Initiatives for Reducing Environmental Impact of Products
 - Society that is in Harmony with Nature
 - Managing Chemical Substances
 - Preserving Biodiversity
- Society**
- Governance**
- ESG Index**
- Comparison with ISO26000**
- External Evaluation**
- Activity Archives**
- Participation in initiatives**

allowing us to check the status of compliance and environmental risk management.

* 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
2017	0	0	0
2018	0	0	0
2019	0	0	0
2020	0	0	0
2021	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)
2017	0	0	0
2018	0	0	0
2019	1 *1	0	2 *2
2020	0	0	0
2021	0	0	0

*1 China: Violation of import declaration classification in relation to the marine environment protection (penalty: RMB 10,000; recourse to domestic procurement in China)

*2 Thailand: Supervisor in charge of handling chemical substances (vacancy for a qualified person: currently available)
Malaysia: Exceeded wastewater (oil particulate) limits
(All of these cases have been modified already.)

Status of environmental communication with local communities In Japan

Fiscal year	Briefing / Local community exchange meeting. / Presentation, etc.	Opinions / Requests / Complaints, etc	
			(of which, number remaining unaddressed)
2017	30	10	0
2018	28	14	0
2019	30	15	0

Fiscal year	Briefing / Local community exchange meeting. / Presentation, etc.	Opinions / Requests / Complaints, etc	
			(of which, number remaining unaddressed)
2020	36(cancellations12)	6	0
2021	59	10	0

Fiscal 2021 examples

- Fiscal 2021 saw our environmental activities resume more or less to the conventional levels despite some impact of COVID-19. The main environmental activities focused on daily cleanup and other volunteering initiatives, whereas some other activities to be conducted with local stakeholders were canceled, such as science classes. We received 3 cases of opinions, requests and complaints concerning noises (from equipment failures, construction work, etc.), which have been remedied accordingly.
- Fuji Electric will continue actively communicating with stakeholders in local communities and contribute to environmental improvement as responsible cooperate citizens.

Overseas

Fiscal year	Briefing / Local community exchange meeting / Presentation, etc	Opinions / Requests / Complaints, etc	
			(of which, number remaining unaddressed)
2017	9	1	0
2018	7	0	0
2019	11	0	0
2020	9	0	0
2021	14	0	0

Overseas sites

Briefings, local community exchange meetings, presentations, 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 our production sites in Japan, 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 introducing recycling facilities.
	Matsumoto, Zhuhai	We are purifying a portion of factory everyday use and recycling water and the pure water recycle of manufactur

Risk factors	Manufacturing sites	Measure Details
		[Related Link : Initiatives at Mats Factory]
Increases in water prices	Malaysia	As this site uses the most water, we implemented water-saving measures to achieve our goal of 50% reduction on our water consumption. Partly due to the business withdrawal, our water consumption during fiscal 2021 diminished by 71% on the baseline year, making it second to Matsumoto Factory in terms of water use. As the disused area will be redeployed for semiconductor manufacturing, so we remain vigilant on our water-saving measures.
Floods	Thailand	When establishing a new factory to expand our production systems, we chose locations with high elevation to mitigate flood-related risks.
Blackouts resulted from torrential rain	Matsumoto, Yamanashi	We implemented response measures such as a power monitoring system using early weather alerts and took steps to ensure stable power supplies through UPSs and in-house power 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 there are disruptions to transportation, distribution, or production are forecasted prior to the start of production.



Visualization of Environmental Risks

Fuji Electric creates 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. Accordingly, these maps make it easier to share and communicate environmental risk information. These maps provide diagrams that illustrate a clear picture of information regarding the facilities, equipment, and work processes with the potential to impact the



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.

We create, review, and annually update soil-related environment risk maps for our production sites in Japan, China, Thailand, Malaysia, and the Philippines.

Prevention of Emission of Pollutants into Water and Air

We prevent environmental pollution of air and water.

In order to prevent air pollution, 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.

In order to prevent water 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.

Soil Purification

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

Subsequently, we conducted soil investigations in the case stipulated by the Soil Contamination Countermeasures Act of Japan*1 and identified the sites that required groundwater monitoring. As of June 2022, three sites*2 pursue water purification and four sites*3 pursue groundwater monitoring.

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 digital 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 Soil investigations are performed when closing down specific facilities designated by the Water Pollution Control Act or when conducting land alterations beyond predefined levels.
- *2 Three sites are Mie, Matsumoto, and Azumino factories of Fuji Electric Meter Co., Ltd.
- *3 Four sites are Kawasaki, Fukiage, Saitama factories of Fuji Electric Co., Ltd. and Hokuriku factory of Fuji Electric Power Semiconductor Co., Ltd.