Sustainability

Sustainable Procurement

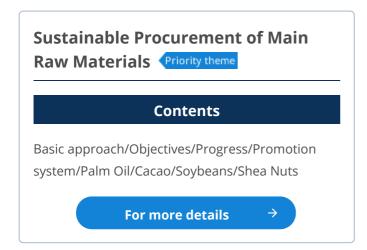
SDGs of particular focus for achievement







Activity report FY2018



Sustainability

Sustainable Procurement of Main Raw Materials

CONTENTS LIST

- → Basic approach→ Objectives→ Progress→ Promotion system
- → Palm Oil→ Cacao→ Soybeans→ Shea Nuts

Basic approach

Social issues related to the environment and human rights may arise at production sites for crops such as palm oil and cacao, which are key raw materials for the Fuji Oil Group. In addition, we consider stable procurement of high-quality and safe raw materials that have been produced in a sustainable manner to be important for fulfilling our responsibility to supply products. As a social entity, the Fuji Oil Group conducts environmentally, socially and economically sustainable procurement.

Objectives

Achieve "No Deforestation, No Peatland development,* No Exploitation" (NDPE) in the Fuji Oil Group's palm oil supply chain.

100% traceability to mills by 2020

*Peatland: A layer of land that fixes a large amount of carbon in the ground. Development on peat releases a large volume of greenhouse gas into the atmosphere.

Progress

Regarding the sustainable procurement of palm oil, based on the Responsible Palm Oil Sourcing Policy, we announced the establishment of a grievance mechanism (a complaint handling mechanism), and commenced its operation in May 2018. In addition, to ensure

transparency in our supply chain and effectively operate the grievance mechanism, in June 2018, we published a list of oil mills in our supply chain.

In March 2019, we created and launched the website section "Dash Board" to provide stakeholders with concise and timely information on the progress of the Responsible Palm Oil Sourcing Policy implementation Our traceability from plantation to palm oil mill was 99% in the second half of FY 2018.

Furthermore, in August 2018 we formulated and announced the Responsible Cacao Sourcing Policy to promote the sustainable procurement of cacao. Based on this policy, we launched activities to support cacao farmers in Ecuador.

Our future plans for each key raw material are:. For palm oil, we plan to respond to complaints received through the grievance mechanism and examine supply chain improvement activities. For cacao, we will expand our support for farmers. Regarding soybeans, we will start by re-clarifying our approach and promote efforts to reduce and correct human rights and environmental risks in the supply chain.

You can access the Dash Board using the following URL.

https://www.fujioilholdings.com/en/csr/supplychain_database/

Promotion system

Promotion system

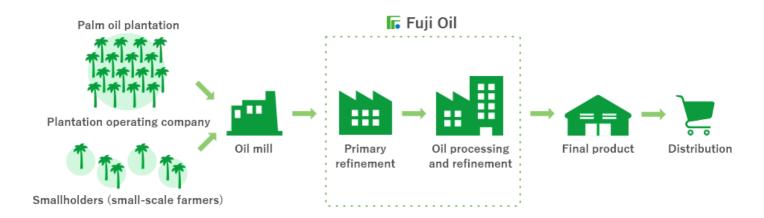
Fuji Oil Holdings established the ESG Committee as an advisory body to the Board of Directors to promote ESG management, The ESG Committee meets regularly to discuss important matters relating ESG including sustainable procurement, and make reports and proposals to the Board of Directors.

The Chief Strategy Officer (CSO) takes the lead in promoting the entire Group's initiatives for the sustainable procurement of major raw materials.

Incentives for Employees

As of 2016, we established a CSR category in our management awards program as in prices to recognize departments and group companies that have made excellent efforts to contribute to society through their business activities. In this category, we presented awards to the divisions in charge that have promoted measures for sustainable sourcing of palm oil and shea nuts.

The palm oil supply chain and the position of the Fuji Oil Group



Basic approach

Palm oil and the Fuji Oil Group

Palm oil is oil extracted from the fruit of the oil palm, which grows in tropical regions such as Southeast Asia.

Palm oil is easier to process and has a higher yield per unit area than other vegetable oils. For this reason, palm oil is used in a wide range of applications from foods to chemical products. Palm oil has the largest production volume among vegetable oil materials in the world.

However, as the scale of the market continues to expand, there are concerns about environmental problems caused by plantation development and human rights issues such as child labor and forced labor in areas where palm plantations are located. The Fuji Oil Group has created new food cultures by pursuing palm oil's potential as a key raw material. We consider aiming for sustainable procurement of palm oil to be our responsibility to society.

Responsible Palm Oil Sourcing Policy

In March 2016, we formulated and announced the Responsible Palm Oil Sourcing Policy for the Fuji Oil Group. In this Policy, we commit ourselves to procuring palm oil produced in a responsible manner from suppliers who respect people and the global environment. We strive to conduct procurement in line with this Policy, in cooperation with our stakeholders. We will continue to promote responsible palm oil procurement to ensure that palm oil is accepted around the world as a sustainable raw material.

► The Responsible Palm Oil Sourcing Policy PDF (1.62MB) 📾

Specific initiatives

Overview of initiatives to achieve the policy

Initiatives	Aim
1.Traceability improvement	Understanding the supply chain
2.Supply chain improvement activities	Reducing risks within the supply chain, in cooperation with suppliers
3.Grievance mechanism	Early discovery and improvement of problems within the supply chain
4.Supply of RSPO-certified oil	Spread of palm oil produced in a sustainable manner
5.UNIFUJI	Strengthening the capability to supply sustainable palm oil
6.Cooperation with academia and industry	Effective improvement of human rights and environmental problems through collaboration with stakeholders

1. Understanding of the supply chain through improved traceability

To improve the supply chain, we consider it important to identify the region of production of palm oil purchased and used by the Fuji Oil Group. We are working with the non-profit organization Earthworm Foundation (The former name is The Forest Trust) and our suppliers to improve traceability* with an initial target of achieving full traceability from plantation to palm oil mill by 2020.

For the Group companies in China, where traceability was difficult due to the characteristics of commercial distribution in the region, we reviewed their supply chains as well as their engagement with suppliers. Due to these efforts, the Group's traceability from plantation to palm oil mill improved to 99% in the second half of FY 2018.

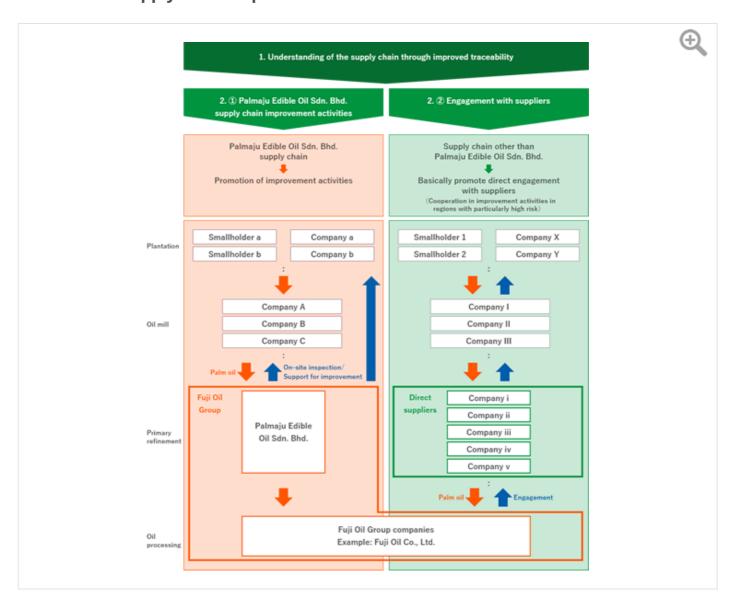
*Traceability: The act of, and framework for making apparent (i.e. traceable) the production history and distribution routes of food products to ensure their safety.

2. Supply chain improvement activities

Based on our Sourcing Policy, we are conducting supply chain improvement activities to resolve environmental and human rights issues at palm oil production sites (plantations).

- ① For our primary refining company (Palmaju Edible Oil Sdn. Bhd.), which is located closer in the supply chain to the palm oil production sites, we are rolling out supply chain improvement activities in cooperation with oil mills.
- ② For the supply chain other than Palmaju Edible Oil Sdn. Bhd., we will pursue improvements by promoting direct engagement with suppliers. In part of the supply chain, we started improvement activities in cooperation with suppliers. In FY 2018, we began improvement activities for plantation areas in Indonesia with a high level of environmental risk and started participating in the Ethical Recruitment Forum to protect the rights of migrant workers in Malaysia.
- * Ethical Recruitment Forum: A project organized by the NPO Earthworm, aiming to end the exploitation of workers and communities in the Malaysian palm oil industry. Various activities have been implemented including development of human rights due diligence tools.

Overview of supply chain improvement activities



1 Palmaju Edible Oil Sdn. Bhd. supply chain improvement activities

In October 2016, the Fuji Oil Group started supply chain improvement activities at the Group company Palmaju Edible Oil Sdn. Bhd. (Malaysia). First, we shared the Fuji Oil Group's Sourcing Policy with the company's suppliers (oil mills). Next, together with one of the suppliers, we conducted on-site inspections of the dealers and plantations related to our oil mill. The objective was to assess compliance with the Sourcing Policy and to provide support for improvement or corrections. Because of this support, in December 2017, passports were returned to more than 200 migrant workers and 300 migrant workers were able to conclude employment contracts in a language they could understand.

We held two seminars for all direct suppliers of Palmaju to communicate the Fuji Oil Group's approach and to provide self-assessment tools and know-how to resolve issues. In FY 2018, we received the completed self-assessment tools from seven oil mills and were able to understand their risks. In FY 2019, based on the results of the self-assessments, we will plan and implement specific improvement activities in cooperation with the suppliers to further improve our supply chain. Another plan for FY 2019 is to check the forest conservation status using satellite photographs.

Note: Our improvement activities have been covered in a video. See the following URL.

https://www.youtube.com/watch?v=sUWBgu07Tp8&feature=youtu.be

② Engagement with suppliers

We believe that to improve the Fuji Oil Group's entire palm oil supply chain, it is essential to engage with suppliers with whom the Group has direct business dealings. As part of such efforts, we promote suppliers' understanding of our Sourcing Policy and discuss with suppliers about supply chain risks and the grievance mechanism through which concerns can be raised and addressed in the event of problems.

In FY 2018, we received self-assessments from all of the Group's direct palm oil suppliers (22 refiners) and checked the progress of each supplier's efforts toward the No Deforestation, No Peat, No Exploitation (NDPE) Policy. We will continue to engage with direct suppliers and encourage them to cooperate in risk reduction.

In supply chains with high risks, we are implementing improvement activities with direct suppliers. As of the end of March 2019, we participate, together with direct suppliers, in the two programs of the APT Landscape Initiative in Indonesia and the Smallholders Support Project in Malaysia.

3 Landscape Approach

The tracking back to the oil mills revealed in Sumatra, Indonesia, important areas in terms of environment and biodiversity are exposed to deforestation risks. The Fuji Oil Group participates, since FY 2018, in the Areal Prioritas Transformasi (APT) Landscape Initiative to reduce and repair these risks.

The APT Landscape Initiative is a multi-stakeholder initiative in which local governments, NGOs, companies and farms work together to tackle deforestation issues in the three precious tropical rain forest regions exposed to the threat of farm development in Indonesia (Aceh Tamiang, southern Aceh, and eastern Riau). In these target areas, multi-stakeholders such as NGOs, communities and local governments are implementing activities to achieve the goals listed below, taking the landscape approach, which seeks to improve the entire community, not limited to palm farms.

- Involve local governments as program leaders.
- Create conditions for stopping deforestation within palm oil farm areas.
- Prevent deforestation due to farm development outside oil palm plantation areas, by providing alternative sources of income to smallholders and strengthening community-based forest conservation.
- Strengthen oil mills' and farms' current activities in promoting NDPE policy.

Our activities in FY 2018 include holding multi-stakeholder workshops, engaging with local governments, and conducting assessment of land use status.

4 Activities to support smallholders in Borneo, Malaysia

Inefficient palm plantation operation by some smallholders has been identified as one of the factors causing environmental and human rights problems. In January 2016 the Fuji Oil Group joined a smallholders support project called the Wild Asia Group Scheme (WAGS) to help these farmers gain expertise in environmentally, socially and economically sustainable plantation management, . This project, which was implemented by Wild Asia (an NGO) and our supplier, has provided educational support for four years with the aim of improving the productivity and working environment of smallholders in the supply chain of our group.

In addition, as one smallholder commented, by receiving instruction in the proper pesticides use, "the amount of pesticide used decreased, leading to lower costs." We will continue to emphasize dialogue with and support for local residents.

In FY 2018, 32 additional smallholders receiving our support acquired the RSPO certification. Since the Fuji Oil Group participated in the WAGS in January 2016, a total of 196 farmers acquired the RSPO certification and a total of 17,041 tons of RSPO-certified oil were produced.

The acquisition of RSPO certifications by smallholders means that they have become able to produce palm oil with consideration of human rights and the environment. In FY 2019, we will continue to implement supporting activities, while maintaining close dialogue with local stakeholders.

3. Establishment of a grievance mechanism

In May 2018, we established and announced a grievance mechanism for processing complaints in order t put our Responsible Palm Oil Sourcing Policy into practice. Our grievance mechanism enables our stakeholders to inform us of any human rights and environmental concerns in the supply chain. This allow us to engage directly with suppliers and take appropriate corrective action in accordance with our Responsible Palm Oil Sourcing Policy.

For transparency in handling grievances, we have set up the Fuji Oil Group Grievance Web Page (English) on the Group website. We strive to update the status of progress at least once each quarter and disclose related information to our stakeholders on this web page.

See the Fuji Oil Group Grievance Mechanism webpage at the following URL.

https://www.fujioilholdings.com/en/csr/grievance_mechanism/

4. Handling of RSPO*-certified oil

The Fuji Oil Group endorses the creation of a sustainable production and consumption system and is member of the RSPO since 2004. Demand for RSPO-certified oil is increasing, mainly in Europe and the United States. In 2018, the sales volume of our group's products that use RSPO-certified oil increased to approximately 120,000 tons. This accounts for approximately 17% of the total volume of palm oil handled by the Group.

To meet the increasing demand for RSPO-certified oil, we are proactively implementing various measures among Group companies, including improvement of the supply chain and the acquisition of supply chain certification at business sites.

*RSPO: RSPO stands for the Round Table on Sustainable Palm Oil.

Check the status of our progress at:

https://www.rspo.org/



5. Establishment of UNIFUJI

Promoting sustainable palm oil sourcing and responsible product supply to customers and consumers are important themes of the Fuji Oil Group's business strategy. UNIFUJI SDN. BHD. is a joint venture with UNITED PLANTATIONS BHD., a partner that shares our intentions regarding sustainable palm oil. UNITED PLANTATIONS conducts sustainable plantation management in consideration with the human rights of its workers and the

environment.

Our joint venture partner UNITED PLANTATIONS is the world's first producer of RSPO-certified oil, and conducts sustainable plantation management in consideration of the human rights of its workers and the environment. UNIFUJI, whose plant was put into operation in FY 2018, secures high-quality, sustainable palm oil from UNITED PLANTATIONS plantation , and produces high-value-added palm oil products, using fractionation technology, which is a strength of the Fuji Oil Group. UNIFUJI's plant is located in the plantation and uses energy generated from biomass and wastewater.

6. Collaboration with academia, government and industry.

1 Productivity improvement through breeding research

As palm oil consumption continues to grow globally, regions suitable for cultivation of the oil palm remain very limited, requiring productivity and quality increase through improvements in oil palm varieties and higher yield per unit area. Since 2011, the Fuji Oil Group has been conducting joint research to improve palm productivity and quality with the Agency for Assessment and Application of Technology (Badan Pengkajian dan Penerapan Teknologi: BPPT), a government research organization in Indonesia, the world's largest palm oil-producing country. This contributed to the development of palm research in Indonesia, including success in major improvements in tissue culture techniques that have led to the production of superior oil palm seedlings and improved varieties. We intend to keep contributing to the development of the palm oil industry and to sustainable palm oil production by helping tosolve global environmental problems such as tropical rainforests decrease due to palm plantations expansion.





Undertaking tissue culture of palms

BPPT Biotechnology Center, where breeding research is carried out

② The Palm Oil Working Group, the Japan Sustainability Local Group of the Consumer Goods Forum

The Fuji Oil Group has participated in the Palm Oil Working Group since its inception in FY 2017. The Working Group was set up in the Japan Sustainability Local Group of the Consumer Goods Forum (CGF), an international industry organization for consumer goods.

Members from various business categories such as manufacturers of finished products and retail and wholesale companies participate in the Palm Oil Working Group to collect information and hold discussions aimed at achieving sustainable palm oil procurement in Japanese society.

3 Sustainable Palm Oil Conference

In November 2018, in support of its aim, we co-sponsored the Japan Sustainable Palm Oil Conference, an event intended to encourage Japanese society to consider sustainable palm oil sourcing.

Topics: Education and awareness-raising activities targeted at children

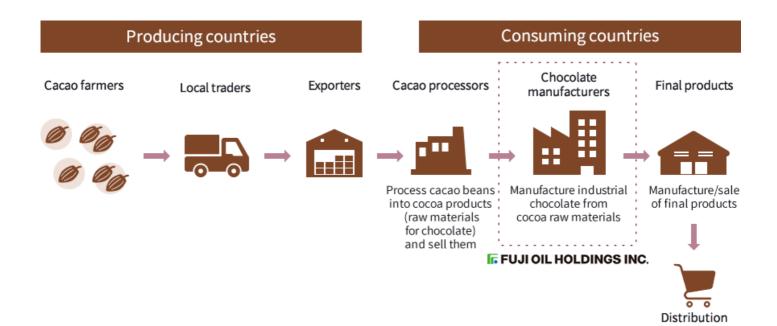
Appealing to consumers and the market is one of the key elements needed to promote sustainable procurement. Under the belief that education for students who will play a leading role in shaping the future is important, we support the "SDGs for School" project of the NPO Think the Earth by providing chocolate used in on-demand lessons implemented under the project. Through these activities, we work to provide students with the opportunity to consider sustainable palm oil and sustainable society.

For more detailed information, see the Social Contribution Activities section.

https://www.fujioilholdings.com/en/csr/management/management_04/

Cacao

The cocoa supply chain and the position of the Fuji Oil Group



Basic approach

While the demand for chocolate is growing globally, there are concerns about the availability of cacao, the raw material of chocolate. A future tightening of the supply-demand balance is expected due to supply-side problems, including the aging of farmers, the abandonment of farming, the aging of cacao trees, the impact of climate change on production areas, and low productivity due to a lack of knowledge and materials. Also, a complex web of human rights and environmental issues including poverty, child labor, forest destruction, and soil contamination have been identified among cacao farmers, who are mostly smallholders.

The industrial chocolate business is one of the Fuji Oil Group's core competences, and cacao-derived materials such as cocoa liquor*, cocoa butter**, and cocoa powder*** are among the key raw materials of the Group.

In August 2018, the Group formulated the Fuji Oil Group Sustainable Cacao Sourcing Policy to continue deliveruing the joys of food through products using sustainable cacao. We aim to conduct sustainable cacao raw material sourcing based on this policy.

- *cocoa liquor: A term used in chocolate/cocoa production factories; cocoa liquor is made by removing the shells of the cacao beans and grinding the nibs (inside the cocoa beans) into a smooth, liquid state.
- **cocoa butter: Vegetable oil obtained by pressing cacao beans
- ***cocoa powder: Dry powder made by grinding what is left after the cocoa butter has been removed from the cacao beans
- Responsible Cacao Sourcing Policy (138KB)

Specific initiatives

Based on the Responsible Cacao Sourcing Policy, in December 2018 we started activities to support smallholders in Ecuador, together with the Group's direct suppliers. We aim to improve the productivity and quality of cacao beans, and raise the living standards of farmers and communities by providing farming support and education. Currently, our direct suppliers provide training for 68 farmers on farm management methods, soil management, and post-harvest processes (fermentation, etc.) The quality of the cacao beans largely depends on such soil management, production practices and post-harvest processes. It is expected that our farming support program will help increasing yields, thereby increasing farmers' incomes. We will also work to improve the quality of cacao beans by conducting flavor research on site.



Local farmers receiving technical guidance to make an organic insect repellent spray with a low burden on the soil and cacao

Support activities in Ghana

Ghana is one of the world's major producers of cacao beans. Since 2014, Fuji Oil Co., Ltd. has been using a portion of the purchase price of cacao beans to provide community support along its supply chain in Ghana. The Company constructed a well in 2014 and since 2016 it conducts research to improve yield for the communities receiving support.



Farming guidance for local farmers

In the yield-improvement research project, we selected a model plantation and measured yields of cacao cultivated under different conditions over the period from 2016 to 2018. The cacao yield at the model plantation from October to December 2017 increased by 18% compared to the same period a year earlier. Also, since February 2018, we provide farming education for local cacao producers in the vicinity of the model plantation. The training covers various topics, including farm management methods, pesticide management methods, and cacao harvesting and post-harvest management methods, farmland selection criteria (when starting a farm), and farm rehabilitation. We communicate to local farmers the know-how not only to improve yield, but also to improve the quality of cacao beans, and fermentation methods to bring out the rich flavor of Ghanaian cacao beans.

We will continue to support cacao producers with the aim of establishing a sustainable cacao production and consumption system.

Participation in the World Cocoa Foundation (WCF)

Fuji Oil Co., Ltd. is a member of the World Cocoa Foundation since 2012. The World Cocoa Foundation is a non-profit international membership organization whose vision is a sustainable and thriving cocoa sector – where farmers prosper, cocoa-growing communities are empowered, human rights are respected, and the environment is conserved.

The Commitment of World Cocoa Foundation





Handling of certified cacao raw materials

Fairtrade



FUJI OIL EUROPE(Belgium) obtained the Fairtrade certification, which aims at promotingraw materials and products purchase from developing countries. The company produces and sells products made from Fairtrade-certified raw materials according to customer requests.

UTZ



The Fuji Oil Kanto Plant (Japan), FUJI OIL EUROPE (Belgium), and WOODLANDS SUNNY FOODS PTE. LTD.(Singapore) hold the UTZ certification (an international certification program for sustainable agriculture) The Fuji Oil Group will promote the acquisition of UTZ certification meet customer demand.

Soybeans

Basic approach

Soybeans are cultivated in a wide range of areas from the cool temperate zone to the tropics, but there are concerns in soybean production areas about issues such as deforestation for farmland cultivation and soil contamination in agricultural areas due to spraying of pesticides. With the conviction that soybeans will relieve the global foodsupply crisis, the Fuji Oil Group has been at the forefront of companies pursuing the potential of soybeans as a food ingredient since 1957.

Our soybean processing and ingredients business uses soybean-derived raw materials such as defatted soybeans, whole soybeans and soybean protein. To contribute to building a sustainable society through the soybean processing and ingredients business, we will promote procurement activities that take the global environment and society into consideration.

Specific initiatives

Production area of soybeans procured by the Fuji Oil Group

In our soybean processing and ingredients business, we procure only soybeans produced in North America, China and Japan.

Procurement of non-GM soybeans

The Fuji Oil Group procures only non-genetically modified (non-GM) soybeans. In North America, both GM soybeans* 1 and non-GM soybeans are distributed in large quantities. Therefore, we conduct strict controls on soy bean produced in North America to ensure that non-GM soybeans shipped to us are cultivated, transported and stored separately from GM soybeans.

In China, is a major soybeans supplier for us. Although cultivation of GM soybeans is prohibited in China in recent years, GM soybeans grown outside China have been

imported as raw materials for oil extraction. Therefore, it is increasingly important to manage year by year non-GM soybeans by strictly separating them from GM soybeans. In China, we continue to respond to strict management requirements through close cooperation among Group companies while adopting management know-how from Fuji Oil Co., Ltd.

*Genetically modified (GM) soybeans: Soybeans that have been created through gene recombination to produce more stable yield by adding functions such as herbicide resistance.

Understanding stakeholders' expectations

In FY 2018, for the first time, we answered questions regarding soybeans in the Forests Questionnaire by CDP, an international organization that provides environmental assessments. By answering the questionnaire, we were able to find out what stakeholders expect of companies in the context of the sustainability of soybeans, such as the formulation and disclosure of a soybean procurement policy and the management of deforestation risks in the supply chain.

In FY 2019, we will work to understand stakeholders' expectations more deeply through dialogue with suppliers, customers and experts, and review our approach and specific initiatives regarding soybean procurement.

Shea Nuts*

Basic approach

Cocoa butter equivalents (CBE) are also diversifying too meet the diversifying demand for chocolate and food products that contain it, Shea butter, which is produced in Africa, is an indispensable raw material for making superior CBE. Shea butter has long been used in food products, but its popularity for use in cosmetics and other applications has also risen in recent years.

Shea nuts, from which shea butter is made, grow naturally in the wild. Shea trees are considered sacred in Africa, and shea nuts are harvested mainly by women. Shea butter is positioned as an important industry for local communities in terms of job creation and women's empowerment.

The Fuji Oil Group uses shea nuts, mainly in its vegetable fats and oils business. We hope to contribute through our business activities to the sustainable development of shea nut production areas from economic, social and environmental perspectives.

Group company International Oils and Fats Ltd. in Ghana carries out the nut-sorting process for shea butter in-house, thus adding value to products on-site (Ghana) and contributing to the local economy and the creation of employment opportunities.

*Shea nut: The shea nut is the seed of the fruit of the shea tree. Major producers include Nigeria, Mali, Burkina Faso and Ghana. Shea butter produced from the nuts is used in foods, cosmetics and soap.

Specific initiatives

Participation in the Global Shea Alliance (GSA)

The shea nut industry would be difficult to sustain without the harvesting work performed by what is claimed to be approximately 16 million women in West Africa. Therefore, achieving gender equality, securing living standards and ensuring worker safety at harvest are important. In addition, tree-cutting by local people for fuelwood is increasingly recognized as an environmental issue needing attention. Since these issues cannot be resolved by one company alone, discussions are being conducted in the Global Shea Alliance (GSA), which is made up of stakeholders in the shea nut supply chain. We network with stakeholders and gather information through the GSA. As part of such efforts, the Fuji Oil Group participated in the GSA General Meeting held in Accra, Ghana, in March 2019.



Shea tree

Participation in a UNDP project (regional reconstruction, advancement of women and promotion of environmental protection through shea cultivation in Ghana)

Fuji Oil Holdings and FUJI OIL EUROPE (Belgium) are considering participation in the Ghana Shea Landscape REDD ++ Project organized by the United Nations Development Programme (UNDP). This project is scheduled to promote multifaceted activities including creation of job opportunities, planting activities and support for community development so that the shea nuts industry can promote community revitalization and women's advancement and reduce negative impact on the environment.

Sustainability

Environment

SDGs of particular focus for achievement









Activity report FY2018

Environmental Management

Contents

Basic approach/Objective/Progress/
Promotion System/Acquisition of
Management Certifications/Audits/Serious
environment-related violations and
measures/External Evaluation

[Data]

- Overview of Environmental Impacts (Input/Output)
- Environmental Audit Results (Internal Environmental Audits and External Audits)
- Environmental Accounting

For more details

Reduction of CO₂ emissions

Priority theme

Contents

Basic approach/Objective/Progress

[Data]

Greenhouse gas emissions

- Total energy consumption (CO₂ emissions equivalent) and energy consumption per unit of production
- Scope-1, 2 energy consumption (CO₂ emissions)
- Sources of CO₂ emission factors

Energy consumption

- Total energy consumption (crude oil equivalent) and energy consumption per unit of production
- Fuel consumption
- Total power consumption

For more details

Reduction of water usage Priority theme

Contents

Basic approach/Objective/Progress/ Specific Initiatives

[Data]

- Annual water usage and water usage per unit of production
- Annual wastewater and wastewater per unit of production
- Recycled water volume for the Hannan Business Operations Complex of Fuji Oil Co., Ltd.

For more details

Waste reduction Priority theme

Contents

Basic approach/Objective/Progress/Food recycling initiatives

[Data]

- Fuji Oil Group in Japan total waste discharged and recycling rate
- Total waste discharged and waste discharged per unit of production by Group companies outside Japan

For more details

Reduction of packaging materials

Contents

Measures to reduce the environmental impact of packaging materials

For more details

Biodiversity

Contents

Potential impact of business activities on biodiversity/Measures to Conserve Biodiversity

For more details

Sustainability

Environmental Management

CONTENTS LIST

- → Basic approach→ Objective→ Progress→ Promotion System
- Acquisition of Management Certifications Audits
- Serious environment-related violations and measures
- **⊙** External Evaluation **⊙** Data

Basic approach

In recent years, global issues such as global warming and climate change have become increasingly severe, affecting people's lives and companies' business activities. As a member of society that conducts activities on the Earth, the Fuji Oil Group supports a sustainable society as advocated by the United Nations through the SDGs, and will seek not only to create economic value, but also to engage in business activities while taking the global environment into consideration to the global environment. Being a food manufacturer, we recognize that our business activities can have an impact on the environment through CO₂ emissions, water use and waste generation. Under such recognition, we established our Basic Policy of Environmental Integrity, which comprises the following four items.

Basic Policy of Environmental Integrity

- 1. We strive to continuously improve our activities on environmental protection
- 2. We work in full compliance with environmental laws & regulations and spirit thereof
- 3. We endeavor to develop environmentally-friendly products and technologies
- 4. We make efforts to well communicate with society

Objective

Formulation of New Environmental Vision 2030

Recent years have seen the development of international environmental frameworks, such as the Paris Agreement on climate change and global warming, and SDGs. Efforts by the international community for global environmental issues are accelerating. As a member of society, the Fuji Oil Group aspires to contribute to achieving the Paris Agreement, to which the international community is committed. To this end, in FY2018 after analyzing the progress of our Environmental Vision 2020, which was formulated in 2010, and the suitability of its targets we formulated a new environmental vision with a target year of 2030. This new vision will replace the Vision 2020. The Environmental Vision 2030 sets much higher targets to challenge ourselves and contribute more to protecting the global environment. In the future, we will promote environmental activities more vigorously to achieve the Environmental Vision 2030.

Previous targets: Fuji Group Environmental Vision 2020

In Japan

Global warming prevention: 20% reduction in CO₂ emissions by 2020 (compared to base year*)

Conservation of water resources: 20% reduction in the amount of water usage/discharge by 2020 (compared to base year*)

Recycling of resources: Recycling rate of at least 99.8% by 2020

Active earth greenery and biodiversity conservation activities

Reduction at Group Companies Outside Japan

Global warming prevention: 20% reduction in CO₂ emissions by 2020 (compared to base year*)

New targets Environmental Vision 2030

(1) CO₂ emissions reduction

24% reduction in total CO₂ emissions by 2030 (base year: 2016)

(2) Water usage reduction

20% reduction in per unit of production by 2030 (base year: 2016)

(3) Waste reduction

10% reduction per unit of production by 2030 (base year: 2016)

^{*}Base year: Mean value of the period 2003-2005 (Tokyo Cap-and-Trade Program)

^{*}Base year: 2006

Resource recycling Recycling rate of at least 99.8%

Progress

In Japan

	Targets	FY 2018 results	Achievement rate
Reduction of CO ₂ emissions (All Group companies)	24% reduction in total CO ₂ emissions by 2030 (vs. base year*)	14.1% reduction	59%
Reduction of water usage (All Group companies)	20% reduction per unit of production by 2030 (vs. base year*)	14.1% reduction	71%
Reduction of waste (All Group companies)	10% reduction per unit of production by 2030 (vs. base year*)	1% increase	0%
Resource recycling (In Japan)	Maintain a recycling rate of at least 99.8% until 2030	99.33%	Not achieved

^{*}Base year: 2016

Promotion System

Group Environmental Management System

In the Fuji Oil Group Management Philosophy, we have declared "safety, quality, and the environment" as values that inform the actions of all our employees. On that basis, we have established our Basic Policy of Environmental Integrity, and promote its practice throughout the Group in our business activities, as well as initiatives to raise environmental awareness.

To promote ESG management, Fuji Oil Holdings established the ESG Committee as an

^{*}Targets (1)–(3) applied to all Group companies, while (4) applied to Group companies in Japan.

advisory body to the Board of Directors. The ESG Committee meets regularly to discuss important matters relating ESG, including environmental issues, and make reports and proposals to the Board of Directors.

In FY 2018, under the leadership of the Chief Quality Officer (CQO), various Group-wide environmental initiatives were undertaken.

Each Group company sets environmental yearly targets and KPIs. Fuji Oil Holdings' Productivity Promotion Group provides expert knowledge to support and guide Group companies to help them achieve their targets.

Educational and Awareness-Raising Activities

Fuji Oil Holdings established the Productivity Promotion Group, as a strategy development unit with specialized knowledge in the fields of safety, quality and the environment. The Productivity Promotion Group visits Fuji Oil Group companies regularly to provide training and awareness-raising on these topics.

The Productivity Promotion Group also provides education on Environmental Vision 2030 and other environmental issues via video conferencing for senior management at Group companies outside Japan.

Incentives for Employees

As of FY 2016, we established a Safety, Quality & Environment category in our management awards program to recognize departments and group companies that have made excellent efforts to contribute to society through their business activities. Once a year, we present awards to companies and departments among the group companies that have achieved outstanding results.

Acquisition of Management Certifications

ISO 14001 Certification

Fuji Oil Group promotes the acquisition of ISO 14001 certification (2015 version), an international standard for environmental management systems. This is done to improve public trust through compliance with applicable laws and regulations and promotion of environmental conservation activitie.

Out of the eight consolidated Group companies in Japan with production sites, three companies have obtained ISO 14001 certification, including Fuji Oil Co., Ltd., which produces the largest volume among Group companies in Japan. These three companies account for about 96% of the Group's production volume in Japan. Out of the 15

consolidated Group companies outside Japan with production sites, seven companies are certified.

See the following website for the latest status of ISO 14001 certification.

https://www.fujioilholdings.com/en/about/authen/iso14001/

Audits

Environmental Audits

In addition to external audits in accordance with ISO 14001, the Fuji Oil Group conducts internal audits on safety, quality and the environment. The aim of this is to improveproduction control at Group companies. In FY 2018, 66 departments from Group companies in Japan underwent internal audits and external audits. No nonconformities were found. Outside Japan, internal audits were performed on six Group companies. Our internal audits do not simply check if all relevant environmental laws and regulations are complied with. They also serve as opportunities for auditors to explain important environmental matters. Through environmental audits, we examine and evaluate each Group company's environmental efforts and give advice on areas needing improvement, thereby promoting and improving the Group's environmental protection activities.

Serious environment-related violations and measures

In FY2018, there were no serious environemntal violations in the Fuji Oil Group.

External Evaluation

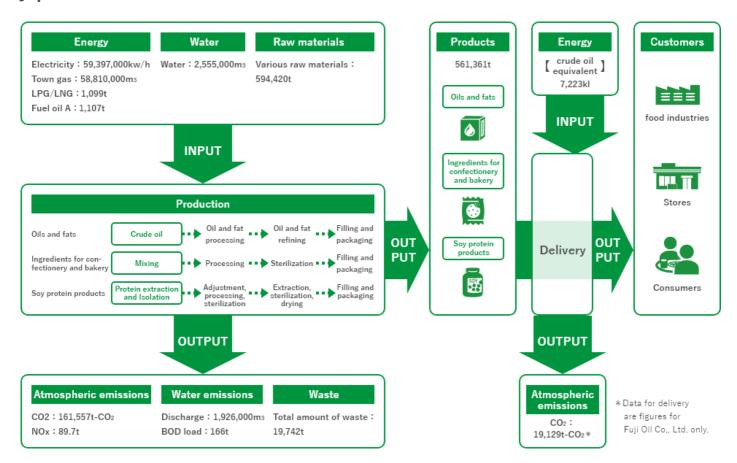
- We were awarded B-List status in CDP (Carbon Disclosure Project) Climate Change Ouestionnaire 2018.
- We were awarded A-List status in CDP Forest Questionnaire 2018 for the first time in Japan.
- We received a top-level ranking in the Development Bank of Japan (DBJ)'s Environmental Rating Loan.
- We have been rated as Class S (excellent energy-saving business operator) for four consecutive years, in terms of regular reports on energy-saving efforts at factories/business establishments.

Data

Overview of Environmental Impacts (Input/Output)

The Fuji Oil Group records and analyzes the input of materials and energy, and the output of emissions and waste at all stages from raw material procurement to production and logistics. This is done to mitigate the environmental impacts of its business activities.

Overview of Environmental Impacts from Business Activities of Group Companies in Japan



Environmental Audit Results (Internal Environmental Audits and External Audits) (Group Companies in Japan)

(Unit: Department)

		Internal environmental audits	External audits
FY 2014	Nonconformity	0	0
FY 2014	Monitoring required	79	6
EV 204E	Nonconformity	0	0
FY 2015	Monitoring required	67	6

		Internal environmental audits	External audits
FY 2016	Nonconformity	0	0
F1 2010	Monitoring required	54	8
FY 2017	Nonconformity	0	0
F1 2017	Monitoring required	26	5
FY 2018	Nonconformity	0	0
F1 2010	Monitoring required	59	7

^{*}In FY 2017, a total of 56 departments were audited. This includes R&D centers located in the Hannan Business Operations Complex and in Tsukuba, with each counted as one department. In FY 2018, audits were conducted in each section of the R&D centers, making the total number of audited departments 66. This was done to allow conducting more detailed audits.

Environmental Accounting

Environmental costs and benefits were calculated in accordance with the Environmental Accounting Guidelines 2005 published by the Ministry of the Environment of Japan.

Scope of tabulation

Fuji Oil Co., Ltd. (non-consolidated)

Period

April 2018 to March 2019

Calculation methods

Investment amount: Where 50% or more of the investment amount was for environmental protection, the entire amount was considered an environmental investment.

Depreciation: The declining-balance method of depreciation was used for all investments in the prior six years for which 50% or more of the amount was for environmental protection. The depreciation period was set at 10 years in all cases.

Costs that were directly known were tabulated in their entirety. Costs that could not be directly known were calculated and tabulated based on the percentage pertaining to the actual application.

Economic benefit realized from environmental protection was recorded only where demonstrated.

	M	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	FY 2018	
Category	Major activities	Investm ent	Expense s								
Business area cost		108	991	360	908	401	1,202	846	1,313	1,095	1,187
	1) Pollution prevention cost	36.6	353	67	351	67	407	352	420	167	461
Details	2) Global environme ntal conservatio n cost	54.2	326	271	223	287	374	486	486	913	434
	3) Resource recycling cost	16.9	312	22	334	47	422	8	407	15	292
Upstream/ downstrea m cost	Introductio n of cardboard- free equipment, premiums of green purchases, etc.	118	35	1	27	0	3	0	3	0	1
Administra tion cost	Developme nt/mainten ance of the ISO 14001 manageme nt system, employee training, the creation of environme ntal reports, etc.	_	248	0	238	0	236	0	236	0	252
R&D cost	Research on advanced use of resources, etc.	_	142	0	139	0	142	0	130	0	146

Meior		FY 2	2014	FY 2015		FY 2016		FY 2017		FY 2018	
Category	Major activities	Investm ent	Expense s								
Social activity cost	Cleanup activities around plants, support for organizatio ns engaged in environme ntal conservatio n, etc.	_	4.07	0	3.65	0	3.51	0	3.51	0	4.26
Environme ntal remediatio n cost	Pollution load charges	_	8.13	0	7.27	0	5.93	0	5.93	0	6.73
Total		226	1,429	361	1,323	401	1,593	846	1,691	1,095	1,597

Environmental benefits

Category	Environmental Performance Indicator	Unit	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
	Energy consumption per unit of production	L/t	158.7	153.4	149.1	152	148
Benefit related to resources input into business activities	Amount of water usage	1,000m ³	2,759	2,845	2,859	2,713	2,555
	Water usage per unit of production	m³/t	5.16	5.16	4.90	4.83	4.46
Benefit related to waste or environmental	CO ₂ emissions per unit of production	kg- CO ₂	309	300	291	299	282
impact originating from business activities	Amount of water discharged	1,000m ³	1,993. 00	2,073. 00	2,069. 00	1,969. 00	1,925. 66
	Water discharged per unit of production	m³/t	3.73	3.60	3.54	3.51	3.36
	Amount of waste discharged	/t	18,456	18,439	19,850	18,529	19,742

Category	Environmental Performance Indicator	Unit	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
	Waste discharged per unit of production	kg/t	21.7	12.4	17.0	33.0	34.5
Benefit related to goods and services produced from business activities	Waste recycling rate	%	99.96	99.97	99.94	99.96	99.33

^{*}Some figures may be different from those published in last year's report due to changes made to the energy conversion coefficient and other data.

Economic benefit associated with

(Unit: million yen)

Category	Details			Amount			
Category	Details	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	
Revenue	Profit from sale of valuable materials obtained through waste recycling (soy pulp, waste oil, used cardboard)	18	20	21	14	30	
Cost reduction	Cost reduction through waste reduction activities	173	176	156	164	158	
Total		191	196	177	177	188	

Sustainability

Reduction of CO₂ emissions

CONTENTS LIST

→ Basic approach

Objective

Progress

Data

Basic approach

Since the Paris Agreement came into effect, the importance of tackling climate change has been increasingly recognized around the world. Being a food manufacturer, the Fuji Oil Group emits CO₂ as a results of its production processes, plant operations and energy use, and. As a member of society, we are committed to contributing to achieving the Paris Agreement. To this end, we will promote more aggressive efforts to mitigate climate change and prevent global warming. In the Environmental Vision 2030, we set CO₂ reduction targets in line with Science Based Targets (SBT) approach. We aim to acquire the SBT certification in the future. We will further reduce CO₂ emissions through further energy-saving activities on the production sites, and by promoting the introduction of energy-efficient equipment and the use of renewable energy.

Objective

24% reduction in total CO₂ emissions by 2030 (Base year: 2016)

Progress

CO₂ emissions at the Fuji Oil Group in FY 2018

Target	Result	Achievement rate
24% reduction in total CO ₂ emissions by 2030	14.1% reduction	59%

*Data not included from Industrial Food Service (one plant in Australia) and Blommer Chocolate Company (three plants in the U.S., one plant in Canada, and one plant in China), which became our group companies in July 2018 and January 2019, respectively.

In FY 2018, CO_2 emissions at Group companies in Japan were 161,557 t- CO_2 , down 3.6% from the previous fiscal year. CO_2 emissions at Group companies outside Japan were 277,097 t- CO_2 , down 8.7% from the previous fiscal year. Major contributing factors for these results are as follows:

- Closure of Fuji Oil (Japan)'s Sakai Plant, and divestment of the Ishikawa Plant
- Replacement of some freezers at Fuji Oil (Japan) with energy-efficient models
- Replacement of some oil & fat production equipment at Fuji Oil (Japan) with energyefficient models
- Termination of production activities at Jirin Fuji Protein Co., Ltd. (China) in August 2018, following the transfer of equity
- Improving the thermal efficiency of air conditioners, strengthening the heat insulation of fryers, and consolidating the steam piping at Shandong Long Teng Fuji Foodstuffs Co. Ltd. (China)
- Integration of air compressors at Fuji Oil (Zhang Jia Gang) Co., Ltd. (China)
- Installation of a solar hot water system at Fuji Oil (Zhaoqing) Co., Ltd., which commenced operation in July 2018

Solar hot water system installed at Fuji Oil (Zhaoqing) Co., Ltd.



Solar hot water system installed at Fuji Oil (Zhaoqing) Co., Ltd.

Since FY 2016 the Fuji Oil Group has responded to the CDP climate change questionnaire. This, recognizing the importance of disclosing information on initiatives to combat climate change.

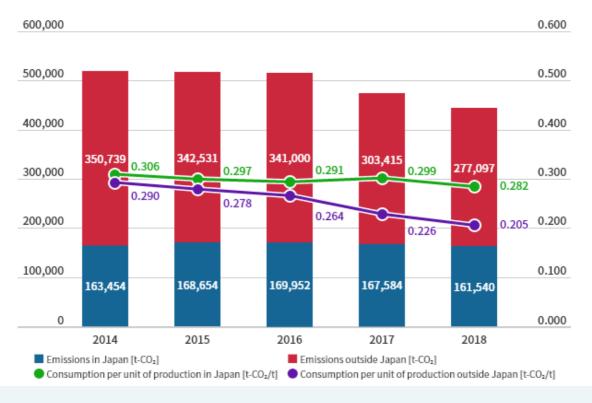
The Group's response to the FY 2018 questionnaire is available at the following URL. (Japanese only)

https://www.cdp.net/ja

Note: You will need to register for a CDP account to access the questionnaire.

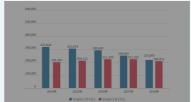
Greenhouse gas emissions

Total energy consumption (CO_2 emissions equivalent) and energy consumption per unit of production





Total energy consumption (CO₂ emissions equivalent) and energy consumption per unit of production



Fuji Oil Group Scope-1, 2 energy consumption (CO₂ emissions)

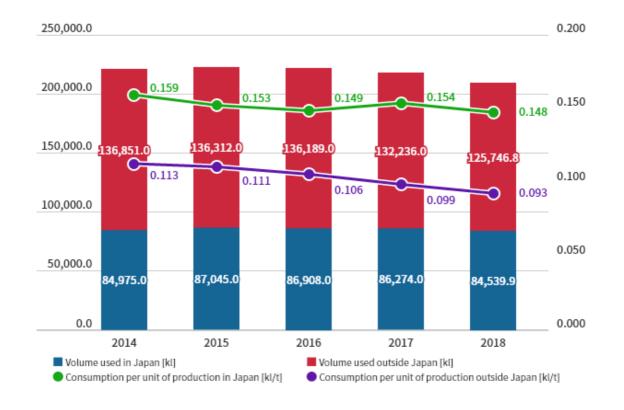
^{*}At least 70% of Scopes 1 and 2 CO₂ emissions data were verified by a third-party.

Sources of CO₂ emission factors

	In Japan	Outside Japan
Fuel	"Manual for Calculating and Reporting Greenhouse Gas Emissions"	"Manual for Calculating and Reporting Greenhouse Gas Emissions" North America: United States Environmental Protection Agency (U.S. EPA)
Electricity	"Manual for Calculating and Reporting Greenhouse Gas Emissions" Factor by supplier	Emission factors by country from the International Energy Agency (IEA)'s "CO ₂ Emissions from Fuel Combustion" North America: U.S. EPA

Energy consumption

Total energy consumption (crude oil equivalent) and energy consumption per unit of production



Fuel consumption

2018

(Unit: kl)

	Light oil	Heavy oil	LPG	LNG	Coal	City gas	Renewable energy
In Japan	0	960	908	573	0	65,343	12
Outsid e Japan	511	81	896	32,371	11,042	5,006	26
Total	511	1,041	1,804	32,944	11,042	70,349	38

Total power consumption

2018

(MWh)

	Total electric energy	Electric energy produced in-house
In Japan	168,166	108,769
Outside Japan	192,321	0
Total	360,487	108,769

Sustainability

Reduction of water usage

CONTENTS LIST

- Basic approach
- Objective
- Progress
- Specific Initiatives

Data

Basic approach

In the Fuji Oil Group, water is used as a raw material for some products, and to generate the steam used in the production process. Water is also used to grow agricultural crops which are used as raw materials for our products. As a member of society, we promote activities to reduce water usage. This, to use limited water resources in a sustainable manner.

Objective

20% reduction in water usage per unit of production by 2030 (Base year: 2016)

Progress

Reduction of water usage in the Fuji Oil Group in FY 2018

Target	Result	Achievement rate
20% reduction per unit of production by 2030	14.1% reduction	71%

^{*}Data does not include Industrial Food Service (one plant in Australia) and Blommer Chocolate Company (three plants in the US, one plant in Canada, and one plant in China), which became our group companies in July 2018 and January 2019, respectively.

In FY 2018, the total amount of water use at Group companies in Japan was 2,555,000 m3, down 5.8% from the previous fiscal year. This corresponds to a decrease of 7.3% in the water use per unit of production The total amount of water discharge at Group companies in Japan was 1,926,000 m3, down 2.2% from the previous fiscal year. The total amount of water use at Group companies outside Japan in FY 2018 was 2,163,000 m3, down 9.6% from the previous fiscal year. The amount of water use per unit of production in the year declined by 10.4%. Meanwhile, the total amount of water discharge was 1,037,000 m3, down 7.1% from the previous fiscal year. This was mainly due to the termination of production activities at Jilin Fuji Protein Co., Ltd. (China) in August 2018 following equity transfer.

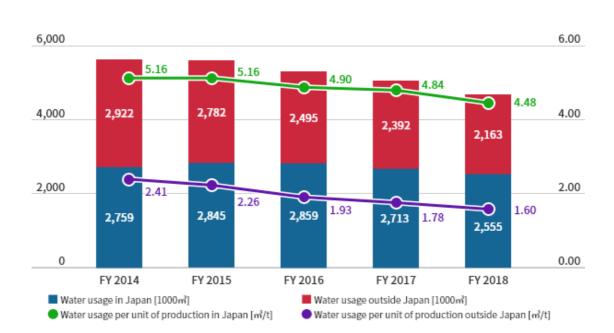
Specific Initiatives

Efforts in areas with risk of water shortages

The Fuji Oil Group actively promotes efforts to reduce water use in its operating areas with risk of water shortages. For example, some Group companies in China installed tanks to store rainwater,. The rainwater tanks are expected to help reducing water use and improving business continuity in the event of of water depletion.

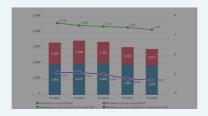
Annual water usage and water usage per unit of production



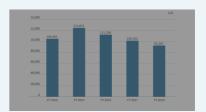




Annual water usage and water usage per unit of production



Annual wastewater and wastewater per unit of production



Recycled water volume for the Hannan Business Operations Complex of Fuji Oil Co., Ltd.

Sustainability

Waste reduction

CONTENTS LIST

- **→** Basic approach
- Objective
- Progress
- Food recycling initiatives

Data

Basic approach

As a manufacturing company, the Fuji Oil Group believes that it should strive to reduce waste generation. Such efforts will lead to efficient use of the materials and energy resources necessary for business activities, in turn lead to lower CO2 emissions, water usage, etc., thus contributing to environmental conservation. We also recognize the importance of working to reduce food waste as a food manufacturing company. In such efforts, we are promoting the extension of best-before dates and food waste recycling.

Objective

10% reduction per unit of production by 2030 (Base year: 2016)

Progress

Waste Reduction at the Fuji Oil Group in FY 2018

Target	Result	Achievement Rate
10% reduction per unit of production by 2030	1% increase	0%

^{*}Data does not include Industrial Food Service (one plant in Australia) and Blommer Chocolate Company (three plants in the US, one plant in Canada, and one plant in China), which became our group companies in July 2018 and

Recycling Rate at Group Companies in Japan in FY 2018

Target	Result	Evaluation
Maintain 99.8% or higher until 2030	99.33%	Not achieved

In FY 2018, the amount of waste discharged by Group companies in Japan was 19,742 tons, up 6.5% from the previous fiscal year. Waste discharge per unit of production increased by 4.9% from the previous fiscal year. These results are due to the disposal of products damaged by the Northern Osaka Prefecture Earthquake and heat-insulating materials for tanks fallen off during Typhoon No. 21. In FY 2018, the amount of waste discharged at Group companies outside Japan was 23,222 tons, down 15.6% from the previous fiscal year, and the amount of waste discharge per unit of production fell by 16.3% from the previous fiscal year.

Food recycling initiatives

Group companies in Japan are working to reuse food waste pursuant to the Food Recycling Act.

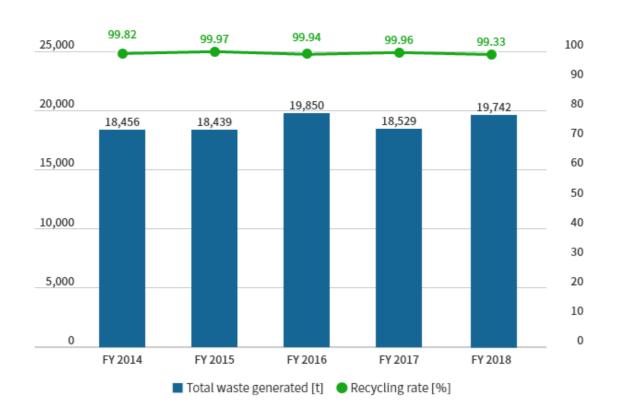
The amount of food waste generated was approximately 32,332 tons in FY 2018, down approximately 605 tons from the previous fiscal year.

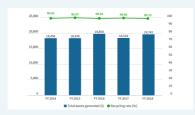
The recycling rate decreased by 2 points from the previous year to 97.5%. This is due mainly to the disposal of products damaged in warehouses during the Northern Osaka Earthquake.

For the food Industry, the Act sets a target of 85% reuse or higher of recyclable food resources. The Fuji Oil Group achieved a 97.3% or more since it first set a target in FY 2007 and will continue to maintain it. We will continue our efforts to maintain this level in the future.

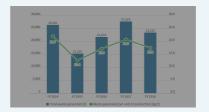
Total waste discharged (food and other waste)

Fuji Oil Group in Japan total waste discharged and recycling rate





Fuji Oil Group in Japan total waste discharged and recycling rate



Total waste discharged and waste discharged per unit of production by Group companies outside Japan

Sustainability

Reduction of packaging materials

CONTENTS LIST

• Measures to reduce the environmental impact of packaging materials

Measures to reduce the environmental impact of packaging materials

The container and packaging of a product plays an important role in protecting the product's quality so that it reaches the customer in safe and secure conditions. Most packaging become waste after use by customers.

Fuji Oil Co., Ltd. promotes the "3Rs" (reduce, reuse, recycle) for containers and packages as its basic approach.

Among these three measures, we focus on "reduce."

For example, we are working to make plastic packaging thinner to reduce the use of plastic, for the packaging of some products. We also promoteswitching from plastic tape to kraft paper tape to seal cardboard boxes.

Other measures we promoteinclude: switching from small containers to large-capacity reusable containers

We will continue working vigorously to reduce the environmental impact in production and transportation processes by reducing and changing packaging materials.

Sustainability

Biodiversity

CONTENTS LIST

- Potential impact of business activities on biodiversity
- Measures to Conserve Biodiversity

Potential impact of business activities on biodiversity

The Fuji Oil Group recognizes that the procurement of raw materials and productions processes linked to food anufacturing can have an impact on biodiversity.

There may be a decline in biodiversity in areas where our raw materials are produced (agricultural crops) due to farmland reclamation. In our operating areas, water discharged from production activities may affect biodiversity.

We strive to reduce the negative impacts on biodiversity in consideration with these potential impacts.

Measures to Conserve Biodiversity

Procurement focusing on biodiversity

The Fuji Oil Group, uses agricultural products as key raw materials, For this reason it believes that it should actively promote efforts to conserve biodiversity.

The production of palm oil causes biodiversity loss due to farmland reclamation. We declare our commitment to the goal of sourcing deforestation-free palm oil with our Responsible Palm Oil Sourcing Policy.

We work to identify and reduce risks through the pursuit of traceability to mill, and engagement with suppliers.

We also participate in an educational support project for smallholders. In this way we work to improve productivity in the abundantly biodiverse Kinabatangan district of Sabah,

Malaysia. The goal is preventing deforestation from farmland reclamation and chemical pollution of rivers, thereby contributing to the conservation of biodiversity.

For the Responsible Palm Oil Sourcing Policy and our support activities for small palm oil farmers, refer to the Sustainable Procurement section.

https://www.fujioilholdings.com/en/csr/sustainable/