

Responding to Climate Change

Business	Description
Marine transportation matching platform	We are contributing to energy conservation and the reduction of GHG emissions and ballast voyages through efficient vessel deployment made possible by maruFreight platform that optimally matches tramp vessels with bulk cargoes worldwide.
Engineering services	We are investing and participating in AZAPA with the aim of exploring initiatives leading to the provision of the functions needed by Japanese manufacturing industries in new fields of technology, such as EVs and autonomous driving.
Fuel efficiency improvement	In addition to the sale, ownership, and operation of highly fuel-efficient eco-ships, we are also supporting the development and introduction of fuel-efficient aircraft and engines.
Development of microbial gas fermentation technology	Through our equity participation in LanzaTech, which is developing technology to produce fuels and chemicals through the microbial fermentation of CO, CO ₂ , and other gases, we are building global business that will contribute to the reduction of GHG emissions and the creation of a circular economy. From May 2018, a fuel ethanol plant utilizing technology of LanzaTech commenced commercial operations in Hebei Province, China, using waste gas from steel works as its raw material.
Green chemicals	We are developing green chemicals business in the field of oleochemicals, using natural fats and oils as raw materials.
Solar marine salt production	Through Shark Bay Salt Pty., we own and operate two salt fields at Shark Bay and Onslow in Australia. Over a period of 2-3 years, they produce solar marine salt from water taken from the nearby ocean, using the natural power of the sun and wind, with almost zero emission of CO ₂ .
Carbon credits	Through our equity participation in the Jirau hydropower project in northern Brazil, we have acquired emission rights for 6 million tons of CO ₂ per year. We have completed registration of a J-Credit project involving the installation of a biomass cogeneration system by Konan Utility Co. (Kobe City, Hyogo Prefecture). Over an eight-year period starting in 2020, we will acquire J-Credits for 36,000 tons of CO ₂ per year. We will also create and sell J-Credits procured through the installation of energy-efficient equipment and other activities. We are working with the JCM bilateral credit mechanism to implement a Cambodian REDD+ project (a mechanism to provide economic incentives, including carbon credits, for a reduction in GHG emissions achieved through initiatives to prevent forest depletion and deterioration in developing countries). Invests in New Forests Pty. which maximizes the value of its sustainable forestry asset through a combination of timber harvest and carbon-offset sales, which as a result contributes to the prevention of global warming.
Solar power funds	Our subsidiary Mitsui & Co. Alternative Investments is contributing to the nationwide spread of solar power through providing investment funds focusing on solar power to Japanese investors.

Mitsui's Forests Accumulate and Absorb 560,000 tons of Carbon Dioxide Annually

It is estimated that Mitsui's Forests currently accumulate and absorb approximately 560,000 tons* of carbon dioxide per year. We contribute to the mitigation of climate change risk through sustainable forest management.

*This estimation is based on "IPCC Guideline for National Greenhouse Gas Inventories" Tier 1.



Our Stories: Create an eco-friendly society

P.27 Aiming to Establish a Low-Carbon Society, and Using New Technology to Blaze a Trail to the Future

SDGs: 3.9, 7.1, 7.2, 7.b, 9.4, 11.6, 13.2



Responding to Water Resource Problems



Reflecting the growing interest from a global perspective in the water-related problems, Mitsui & Co. is engaging in a water project which promotes the conservation and the sustainable use of water resources. In addition, we conduct investigations with experts for new business investment projects that are likely to have a significant impact on the environment. For risk assessments in water-stressed areas, in particular, we use the portal site Aqueduct from the World Resource Institute (WRI) to monitor and analyze water risks, not only for new business but also for our existing business, with the aim of reducing water stress.

Water Supply Business in Thailand—Ensuring a Reliable Supply of Safe Water to Over One Million People

Activity

SDGs: 6.1

Mitsui is participating in a water supply business to serve the northern and western suburbs of Bangkok through the company TTW PCL ("TTW"), in which Mitsui invested jointly with the CH Karnchang Group, a major Thai construction firm. Using water taken from the Tha Chin River and the Chao Phraya River, TTW's water purification plants have total capacity for the production of approximately one million cubic meters of clean water per day, and reliably supply safe water to over one million people.



TTW's water purification plant

Contribution to Safeguarding the Water Supply and Preventing Floods through Mitsui's Forests SDGs: 15.1

Approximately 130 km² (13,000 hectares) of Mitsui's Forests (74 locations in Japan, approx. 44,000 hectares in total) are officially designated as Water Conservation and Water Safety Forests, important for safeguarding the water supply and preventing floods and landslides. Leaf soil reduces the occurrence of floods by storing rainwater, and also plays a role in saving water resources, purifying water, and regulating water volume.



Tashiro forests designated as water conservation and water safety forests