

■ Environmental Action Plan Scope of operations and period covered: Chugai Group in Japan, January 1, 2019 to December 31, 2019 Evaluation:☆☆☆ Goal achieved ☆☆ Goal 75% or more achieved ☆ Goal less than 75% achieved

Items		2019 goal or mid-term plan	2019 results	Evaluation	2020 Plan
Climate Change Countermeasures	Efforts to reduce energy consumption	Reduce energy consumption per employee by 20% by 2020, compared with 2010	Reduced energy consumption per employee by 9.9% compared with 2010	☆	Reduce energy consumption per employee by 20% by 2020, compared with 2010
		Reduce energy consumption by 2% or more compared with 2018	Energy consumption of 237 thousand GJ (2.2% reduction compared with 2018)	☆☆☆	Reduce energy consumption by 2% or more compared with 2019
		Reduce CO2 emissions (Scope 1&2) by 2% or more compared with 2018	CO2 emission (Scope 1&2) of 108,497 tons (2.6% reduction compared with 2018)	☆☆☆	Reduce CO2 emissions (Scope 1&2) by 2% or more compared with 2019
	Introduction of more hybrid vehicles to MR fleet	Achieve a rate of 80% or higher for eco-friendly cars for MR fleet	Achieved a rate of eco-friendly cars of 81% for MR fleet	☆☆☆	Achieve a rate of 80% or higher for eco-friendly cars for MR fleet
		Achieve average fuel efficiency of 16 km/L or higher for MR fleet	Achieved average fuel efficiency of 19.6 km/L for MR fleet	☆☆☆	Achieve average fuel efficiency of 16 km/L or higher for MR fleet
Waste Management and Resource Conservation	Reduction in the amount of waste generated	—	3,182 tons of waste generated (a increase 14 tons from 2018)	—	—
		A waste recycling ratio of 95% or more, and achieve zero emissions of waste (a waste recycling ratio of 99% or more) by two facilities or more	Achieved a waste recycling ratio of 100% at one facilities	☆	A waste recycling ratio of 99% or more, and achieve zero emissions of waste (a waste recycling ratio of 99% or more) by three facilities or more
	Reduction in the amount of landfill waste	Achieve a recycling ratio of 95% or higher	Achieved a recycling ratio of 91.6%	☆☆	Achieve a recycling ratio of 99% or higher
		Achieve a ratio for landfill waste lower compared with 2018 (1.2%)	Achieved a ratio of 1.1% for landfill waste (insinerated ash)	☆☆☆	Limit a ratio lower compared with 2019 for landfill waste
	Verify waste disposal contractors	Conduct on-site verification of contracted waste disposal facilities of 100% or more in 3 years	Conducted on-site verification of contracted waste disposal facilities of 49% for two years	☆	Conduct on-site verification of contracted waste disposal facilities of 100% or more in 3 years (2018 - 2020)
	Reduction in the amount of PPC Paper purchased	Reduce the amount of PPC paper purchased compared with 2018 (147 tons)	126 tons of PPC paper purchased	☆☆☆	Reduce the amount of PPC paper purchased compared with 2019
	Improvement in the recycling ratio of PPC paper	Maintain a PPC paper recycling ratio of 80% or higher	A PPC paper recycling ratio of 76%	☆☆	Maintain a PPC paper recycling ratio of 80% or higher
Biodiversity Conservation	Water quality preservation	Conduct WET (Whole Effluent Toxicity) tests to measure wastewater (five sites once a year)	Conducted WET (Whole Effluent Toxicity) tests to measure wastewater (five sites once a year)	☆☆☆	Conduct WET (Whole Effluent Toxicity) tests to measure wastewater (five sites once a year)
	Chemical Substance Management	Strengthen management system to comply with laws and regulations for chemical substances	Planned to strengthen management system to comply with laws and regulations for chemical substances based on survey results on the use of the substances	—	Monitoring the usage conditions of regulated substances, and disclose its information on website
Environmental Management System	Qualitative improvements in Chugai environmental management systems	Perform EHS internal audit	Established EHS internal audit system at three sites	—	Perform EHS internal audit at four or more sites
		Develop new IRCA internal environmental auditors and inprement rookie internal environmental auditor trainings	20 individuals attended the rookie internal environmental auditor training, and 43 individuals were certified as IRCA provisional internal auditors (11 new people, 32 people continuing)	—	Restructuring of ISO14001 internal audit system
		Carry out establishment of the document system for environment, health and safety, and introduction of the management system	Establish / Improve / Maintain a document system for environment, health and safety, and implement to introduce its management system	—	—
		Achieve continuous improvement with ISO 14001:2015 at all certified plant	Passed the ISO 14001: 2015 maintenance audit at ISO 14001 certified sites	—	Passed the ISO 14001: 2015 maintenance audit at ISO 14001 certified sites
	Transparency of environmental information	Expand users of environmental performance database system to domestic and overseas group companies and evaluate other items for independent verification	Expanded users of environmental performance database system to overseas group companies (CPR&CPPT) and evaluated other items for independent verification (Upstream Transportation and Distribution, Injury Frequency rate and severity)	—	Collection of environmental performance data and extend the items of third-party assurance (Scope3)
		Disclose to the environmental information on the website and enrich the contents of the web site	Disclose to the environmental information on the website and enrich the contents of the web site	—	Disclose to the environmental information on the website and enrich the contents of the web site