

# Independent Assurance Report



**Mr. Hiroyuki Ueshima**  
**Representative Director, President and CEO**  
**NAGASE & CO., LTD.**

We, SOCOTEC Certification Japan (hereafter "SOCOTEC"), have performed a limited assurance engagement, in response to the entrustment from NAGASE & CO., LTD. (hereafter "the Company") in order to provide an opinion as to whether the subject matter information ("FY2022 GHG Emissions, Energy Consumptions and Water Resource Usage Calculation Report" (period: 1 April 2022 to 31 March 2023)) of the Company meets the criteria in all material respects.

## 1 Subject Matter Information and Criteria

The subject matter information for our assurance is "a report on GHG Emissions and Environmental Performance Data (shown in APPENDIX)" covering the operations and activities of the Company and its consolidated companies in Japan (two domestic subsidiaries) described in "FY2022 GHG Emissions, Energy Consumptions and Water Resource Usage Calculation Report"(period: 1 April 2022 to 31 March 2023).

The criteria for preparing subject matter information are "Nagase & Co., Ltd. Group GHG Emissions and Water Resource Usage Calculation Regulations" and "GHG emissions (Scope 3) calculation procedure".

## 2 Management Responsibility

"FY2022 GHG Emissions, Energy Consumptions and Water Resource Usage Calculation Report"(period: 1 April 2022 to 31 March 2023) was prepared by the management of the Company, who is responsible for the integrity of the assertions, statements, and claims made therein (including the assertions over which we have been engaged to provide limited assurance), the collection, quantification and presentation of all data and information in the report, and applied criteria, analysis and publication.

The management of the Company is responsible for maintaining adequate records and internal controls that are designed to support the reporting process and ensure that "FY2022 GHG Emissions, Energy Consumptions and Water Resource Usage Calculation Report"(period: 1 April 2022 to 31 March 2023) is free from material misstatement whether intentional or negligent.

## 3 Assurance Practitioner's Responsibility

The responsibility of SOCOTEC is to express a limited assurance conclusion as to whether the subject matter information has been prepared in compliance with the criteria in all material respects.

SOCOTEC performed limited assurance engagement in accordance with the verification procedures stipulated by SOCOTEC and "ISO14064-3:2019 Specification with guidance for the verification and validation of greenhouse gas statements" and the International Standard on Assurance Engagements (ISAE) 3000 (Revised), "Assurance Engagements Other than Audits or Reviews of Historical Financial Information" of International Auditing and Assurance Standards Board (IAASB).

The procedures implemented in the limited assurance engagement are limited in their type, timing and scope as compared to the procedures implemented in the reasonable assurance engagement. As a result, our limited assurance engagement does not provide as high assurance as reasonable assurance engagement.

Our procedures performed depend on the assurance professional practitioner's judgement, including the risk of material misstatement, whether due to fraud or error. Our conclusion was not designed to provide assurance on internal controls. We believe that we have obtained the evidence to provide a basis for the conclusion for limited assurance.

#### 4 Assurance Procedures

The procedures that SOCOTEC has conducted are based on professional judgment and include, but are not limited to:

- Evaluation of policies and procedures created by the Company in relation to subject matter information
- Questions to the Company personnel to understand the above policies and procedures
- Verification that the target project meets eligibility requirements
- Matching with the basis data by trial calculation and recalculation
- Obtaining and collating material for important assumptions and other data
- We visited Tokyo Head Office and Nagoya Branch Office of the Company, HAYASHIBARA CO., LTD. Okayama Plant I and Nagase ChemteX Corporation Harima Plant in order to confirm the calculation structure and procedures, data collection and implementation status of record control.

#### 5 Statement of Our Independence, Quality Control and Competence

SOCOTEC has introduced and maintained a comprehensive management system that conforms to the accreditation requirements of "ISO17021 Conformity assessment -- Requirements for bodies providing audit and certification of management systems". In addition, we have also established a management system according to "ISO14065 Greenhouse gases -- Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition". These meet the requirements of International Standard on Quality Control 1 by the International Auditing and Assurance Standards Board and Code of Ethics for Professional Accountants by International Ethics Standards Board for Accountants. We maintain a comprehensive quality control system that includes ethical rules, professional standards and documented policies and procedures for compliance with applicable laws and regulations.

The SOCOTEC Group is a comprehensive third-party organisation in inspection, testing and certification operations, and conducts management system certification services and training services related to quality, environment, labour and information security in countries around the world. Engaged in performance data and sustainability report assurance of environmental and social information, SOCOTEC affirms that it is independent of the organisation that has ordered the assurance engagement, its affiliated companies, and stakeholders, and that there is no possibility of impairing impartiality or conflict of interest.

We assure that the team engaged in the assurance is selected based on knowledge, experience in the relevant industry, and the competence requirements for this assurance engagement.

#### 6 Use of Report

Our responsibility in performing our limited assurance activities is to the management of the company only in accordance with the terms for this engagement as agreed with the Company. We do not therefore assume any responsibility for any other purpose or to any other person or organisation.

#### 7 Our Conclusion

On the basis of our procedures performed and evidence obtained nothing has come to our attention that causes us to believe that the subject matter information is not, in all material respects, prepared and reported in accordance with the stated criteria.

SOCOTEC Certification Japan



Seigo Futaba  
Managing Director  
27 December 2023

## GHG Emissions and Environmental Performance Data

Table 1-1 GHG Emissions (Scope1,2,3)

Item	Figure	Unit
Scope1	31,099	tCO2e
Scope 2 (location based)	29,783	tCO2e
Scope 2 (market based)	25,611	tCO2e
Scope3	4,074,262	tCO2e

Table 1-2 GHG Emissions (Scope3 break down)

Category No.	Category	Unit (tCO2e)
Category1	Purchased goods and services	3,980,343
Category2	Capital goods	28,562
Category3	Fuel-and-energy-related activities (not included in Scope 1 or 2)	13,068
Category4	Upstream transportation and distribution	42,572
Category5	Waste generated in operations	3,706
Category6	Business travel	564
Category7	Employee commuting	1,186
Category9	Downstream transportation and distribution	4,127
Category12	End of life treatment of sold products	69
Category13	Leased assets (downstream)	66
Total	—	4,074,262

※The Scope 3 totals are the aggregate results for each category, including decimals, and do not apparently match the aggregate results for each category.

Table 2 Energy Consumption

Item	Figure	Unit
non-renewable-energy-derived energy consumption	246,988	MWh
renewable-energy-derived energy consumption	45	MWh
Total	247,033	MWh

Table 3 Water Resource Utilization

Item	Figure	Unit
Water Withdrawal	3,720	ML
Water Discharge	3,571	ML
Water Consumption	149	ML