

CSR Activity Report (CSR Guideline Activity Reports) - Safety, Accident Prevention, and Environmental Preservation

Third-Party Assurance



| Scope | 18 | |
|---|------------|--------------------|
| Scope 1 GHG emissions ³ | 2,810,029 | tCO ₂ e |
| GHG emissions relating supply to external organizations | 189.570 | tCO ₂ e |
| GHG emissions after deduction | 2620,459 | tCO ₂ e |
| Scope 2 GHG emissions 3 (Market-based) | 2414,205 | tCO ₂ e |
| GHG emissions relating supply to external organizations | 118,430 | tCO ₂ e |
| GHG emissions after deduction | 2,295,775 | tCO ₂ e |
| Scope 2 GHG emissions ³ (Location-based) | 3,138,159 | tCO ₂ e |
| GHG emissions relating supply to external organizations | 135,250 | tCO ₂ e |
| GHG emissions after deduction | 3,002,909 | tCO ₂ e |
| Scope 3 GHG emissions 3 (Categories 1, 2, 3, 4, 5, 6, 7, 8) | 10,571,405 | tCO ₂ e |
| 1. Purchased Goods and Services | 8.979,652 | tCO ₂ e |
| 2. Capital goods | 396,219 | tCO ₂ e |
| 3. Fuel- and energy-related activities not included in Scope 1 or Scope 2 | 944,586 | tCO ₂ e |
| 4. Upstream Transportation and Distribution | 210,295 | tCO ₂ e |
| 5. Waste Generated in Operations | 11,300 | tCO ₂ e |
| 6. Business Travel | 6,039 | tCO ₂ e |
| 7. Employee Commuting | 21,573 | tCO ₂ e |
| 8. Upstream Leased Assets | 1,741 | tCO ₂ e |
| Energy consumption ^a | 86,963,570 | GJ |
| Industrial waste 45 | | |
| Disposal amount | 32,168 | tonnes |
| Recycled amount | 127,270 | tonnes |
| Total amount of industrial waste | 159,438 | tonnes |
| The amount of industrial hazardous waste | 898 | tonnes |
| The amount of coal ash | 80,752 | tonnes |
| Water Use | 166,167 | K-t |
| Waste Water | 143,913 | k-t |
| SOx | 232 | tonnes |
| NOx | 1,186 | tonnes |
| Dust | 77 | tonnes |
| VOC | 361 | tonnes |
| COD | 587 | tonnes |
| Lost Time Injury and Occupational Illness Frequency Rate * | - | |
| TORAY INDUSTRIES, INC. | 0.38 | 5 |
| Affiliated companies | 0.0 | |
| Consolidated subsidiaries in Japan | 0.17 | |
| Overseas consolidated subsidiaries | 0.44 | |
| Entire the scope | 0.37 | |
| Contractors in Japan 7 | 0.68 | 3 |
| Time 1 Descence Collector Econole & | 0 | |

LRQA's Approach

LRQA

LRQA* sporach
 LRQA* sporach engagements are carried out in accordance with ISAE3000 (Revised) and ISO14054-3:2019 for GHG emissions. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:
 Auditing the Company's data management systems to confirm that there were no significant errors, omissions or mis-statements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification.
 Interviewing with those key people responsible for compiling the data and drafting the report.
 Sampling datasets and tracing activity data back to aggregated levels;

(PDF: 532KB) PDF

- LRQA
- Verifying the historical environmental and social data / records for the fiscal year 2022'; and
 Verification for confirming of the effectiveness of its data management system of Toray Ehime Factory was
 conducted by Site visit and of T. Indonesia Toray Synthetics was conducted by NCT.

Observations The Company should continue efforts for implementing quality assurance and quality control (Q4,QC) systems for the effective management of environmental and social data. This is particular to ensure effective internal verification processes at both the corporate and member company levels.

LRQA's Standards, Competence and Independence LRQA's Islandards, Competence and Independence LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 Greenhouse gases – Requirements for greenhouse gas volidation and verification bodies for use in accreditation or other forms of recognition and ISO(ET 1012-1. Confinements that are at least as providing audit and certification of management systems – Part: Requirements for area at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants.

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

LRQA is the certification body of ISO9001 and IATF16949 for the Company and as such does not compromise our independence or impartiality.

| Signed TID | Dated: 23 July 2023 |
|---|--|
| Takahiro lio LRQA Lead Verifier On behalf of LRQA Limited 10th Floor, Queen's Tower A, 2-3-1 Minatomir | rai, Nishi-ku, Yokohama, JAPAN |
| LRQA reference: YKA4005148 | |
| LRQA, its affiliates and subsidiaries, and their expenditive as 'LRQA', LRQA assumes no responsibility and akin information or advice in this document or boundaver provision of this information ar advice and in that case context. The English version of this Assurance Statement is the | editorse, neurologies or agents ano, individually end callesilvering informat to 10 trut cause of the labels in any service for any most demange or exponent caused by relations on the investigation of the service of the service of the service (LBA) entry for the any responsibility or information of the service of the service of the service any responsibility or information and caused on the service of the service any variable services. LBAS assumes no responsibility for versions translated into other |
| This Assurance Statement is only valid when published a | alth the Report to which it refers. It may only be reproduced in its entirety. |
| copy go to unit, and | |
| | Page 3 of 3 |
| | |

(PDF : 497KB) PDF

LRQ/

LRQA Independent Assurance Statement

Relating to TORAY INDUSTRIES, INC.'s Environmental and Social Data for the fiscal year 2022 within its CSR Report 2023

This Statement has been prepared for TORAY INDUSTRIES, INC. in accordance with our contract.

Terms of Engagement

LRQA Limited ("LRQA") was commissioned by TORAY INDUSTRIES, INC. ("the Company") to provide independent assurance on its environmental and social data for the fiscal year 2022¹ within its CSR Report 2023 ("the report"), against the assurance criteria below to a limited level of assurance and at the materiality of the professional judgement of the verifier using ISAE 3000 (Revised) and ISO 14064-3:2019 for Greenhouse gas ("GHG") emissions.

Our assurance engagement covered the operations and activities relating the Company, its consolidated subsidiaries, and its affiliated companies in Japan and overseas and specifically the following requirements:

- Verifying conformance with the Company's reporting methodologies;
- Evaluating the accuracy and reliability of data for the selected environmental and social indicator listed below;

Environmental²

- Scope 1 GHG emissions (tCO₂e) ³
- Scope 2 GHG emissions [market-based and location-based] (tCO₂e)³
- Scope 3 GHG emissions (Categories $1 \sim 8$) (tCO₂e) ³
- Energy consumption (GJ)³
- The amount of Industrial Waste^{3,4}, Water Use, Waste Water, SOx, NOx, Dust, VOC, COD (tonnes)⁵

<u>Social</u>

- Lost Time Injury Frequency Rate ⁶
- Tier-1 Process Safety Events⁷

Our assurance engagement excluded the data and information of the Company's suppliers, contractors and any third-parties mentioned in the report.

LRQA's responsibility is only to the Company. LRQA disclaims any liability or responsibility to others as explained in the end footnote. The Company's responsibility is for collecting, aggregating, analysing and presenting all the data and information within the report and for maintaining effective internal controls over the systems from which the report is derived. Ultimately, the report has been approved by, and remains the responsibility of the Company.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the Company has not, in all material respects:

- Met the requirements above
- Disclosed accurate and reliable environmental and social data which is summarised in Table 1 below.

The opinion expressed is formed on the basis of a limited level of assurance⁸ and at the materiality of the professional judgement of the verifier.

⁴ Industrial Waste cover breakdown type.

The contractors worked in Japan is also included.

¹ Environmental data covers 1 April 2022 to 31 March 2022(However, for overseas affiliated companies, from January 1, 2022 to December 31, 2022). Social data covers 1 January 2022 to 31 December 2022.

² GHG quantification is subject to inherent uncertainty.

³ The scope of energy and GHG emissions is covered the head Office of the Company, 13 factories and other 10 operating sites in Japan and overseas affiliate companies. The contractors worked in Japan is also included. Scope 3 also cover domestic affiliate companies.

⁵ The scope is covered 13 factories of the Company in Japan.

⁶ The scope is covered the Company, its 42 consolidated subsidiaries, 10 affiliated companies in Japan and overseas 91 affiliate companies.

⁷ The scope is covered the Company, its 42 consolidated subsidiaries, 10 affiliated companies in Japan and overseas 91 affiliate companies.

⁸ The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a limited assurance engagement is lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

LRQ/

| Table 1. Summar | y of Toray's Enviro | nmental and Socia | l data in 2022 |
|-----------------|---------------------|-------------------|----------------|
|-----------------|---------------------|-------------------|----------------|

| Scope | | |
|---|------------|--------|
| Scope 1 GHG emissions ³ | 2,810,029 | tCO₂e |
| GHG emissions relating supply to external organizations | 189.570 | tCO₂e |
| GHG emissions after deduction | 2620,459 | tCO₂e |
| Scope 2 GHG emissions ³ (Market-based) | 2414,205 | tCO₂e |
| GHG emissions relating supply to external organizations | 118,430 | tCO₂e |
| GHG emissions after deduction | 2,295,775 | tCO₂e |
| Scope 2 GHG emissions ³ (Location-based) | 3,138,159 | tCO₂e |
| GHG emissions relating supply to external organizations | 135,250 | tCO₂e |
| GHG emissions after deduction | 3,002,909 | tCO₂e |
| Scope 3 GHG emissions ³ (Categories 1, 2, 3, 4, 5, 6, 7, 8) | 10,571,405 | tCO₂e |
| 1. Purchased Goods and Services | 8.979,652 | tCO₂e |
| 2. Capital goods | 396,219 | tCO₂e |
| 3. Fuel- and energy-related activities not Included in Scope 1 or Scope 2 | 944,586 | tCO₂e |
| 4. Upstream Transportation and Distribution | 210,295 | tCO₂e |
| 5. Waste Generated in Operations | 11,300 | tCO₂e |
| 6. Business Travel | 6,039 | tCO₂e |
| 7. Employee Commuting | 21,573 | tCO₂e |
| 8. Upstream Leased Assets | 1,741 | tCO₂e |
| Energy consumption ³ | 86,963,570 | GJ |
| Industrial waste 45 | | |
| Disposal amount | 32,168 | tonnes |
| Recycled amount | 127,270 | tonnes |
| Total amount of industrial waste | 159,438 | tonnes |
| The amount of industrial hazardous waste | 898 | tonnes |
| The amount of coal ash | 80,752 | tonnes |
| Water Use | 166,167 | K-t |
| Waste Water | 143,913 | k-t |
| SOx | 232 | tonnes |
| NOx | 1,186 | tonnes |
| Dust | 77 | tonnes |
| VOC | 361 | tonnes |
| COD | 587 | tonnes |
| Lost Time Injury and Occupational Illness Frequency Rate 6 | — | |
| TORAY INDUSTRIES, INC. | 0.38 | |
| Affiliated companies | 0.0 | |
| Consolidated subsidiaries in Japan | 0.17 | |
| Overseas consolidated subsidiaries | 0.44 | |
| Entire the scope | 0.37 | |
| Contractors in Japan ⁷ | 0.68 | |
| Tier-1 Process Safety Events ⁸ | 0 | |

LRQA's Approach

LRQA's assurance engagements are carried out in accordance with ISAE3000 (Revised) and ISO14064-3:2019 for GHG emissions. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing the Company's data management systems to confirm that there were no significant errors, omissions or mis-statements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification.
- Interviewing with those key people responsible for compiling the data and drafting the report.
- Sampling datasets and tracing activity data back to aggregated levels;



- Verifying the historical environmental and social data / records for the fiscal year 2022¹; and
- Verification for confirming of the effectiveness of its data management system of Toray Ehime Factory was conducted by site visit and P.T. Indonesia Toray Synthetics was conducted by ICT.

Observations

The Company should continue efforts for implementing quality assurance and quality control (QA/QC) systems for the effective management of environmental and social data. This is particular to ensure effective internal verification processes at both the corporate and member company levels.

LRQA's Standards, Competence and Independence

LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition and ISO/IEC 17021-1 Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part1: Requirements that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants.

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

LRQA is the certification body of ISO9001 and IATF16949 for the Company and as such does not compromise our independence or impartiality.

Signed

Dated: 23 July 2023

Takahiro lio LRQA Lead Verifier On behalf of LRQA Limited 10th Floor, Queen's Tower A, 2-3-1 Minatomirai, Nishi-ku, Yokohama, JAPAN

LRQA reference: YKA4005148

LRQA, its affiliates and subsidiaries, and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

The English version of this Assurance Statement is the only valid version. LRQA assumes no responsibility for versions translated into other languages.

This Assurance Statement is only valid when published with the Report to which it refers. It may only be reproduced in its entirety.

Copyright © LRQA, 2022.