

Verification Opinion



27 May 2024
Opinion No : SGS24/049

Mr. Masayuki Takemori
Representative Director,
President and Executive Officer
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Objective

SGS Japan Inc. (hereinafter referred to as "SGS") was commissioned by Lion Corporation (hereinafter referred to as "the Organization") to conduct independent verification based on Criteria of Verification (ISO14064-3: 2019 and the SGS verification protocol) regarding the data prepared by the Organization on the scope of verification (hereinafter referred to as "the Statement"). The objective of this verification is to confirm that the Statement in the Organization's applicable scope has been correctly calculated and reported in the Statement in conformance with the criteria, and to express our views as a third party. The Organization is responsible for the preparation and fair presentation of the Statement.

Scope

The scope of verification is Scope 1 and 2 emissions, carbon credit, Scope3 emissions, water usage (water withdrawal) and discharge, and COD emissions.

The period subject to report is from 1 January 2023 to 31 December 2023.

Refer to the attached sheet for the detailed scope of verification.

Procedure of Verification

The Statement was verified in accordance with Criteria of Verification, and the following processes were implemented at a limited level of assurance:

- Verification of the calculation system: Interviews on the measurement, tabulation, calculation, and reporting methods employed by the Organization as well as review of related documents and records
- Verification of the Statement: On-site verification and voucher review conducted at Lion Specialty Chemicals Co., Ltd. Yokkaichi Site and Lion Chemical Co., Ltd. Oleochemical Division, and analytical procedures and interviews for the other sites in the scope of verification carried out at the Organization's Headquarters

The criteria for this review are based on, Act on the Rational Use of Energy, Act on the Rational Use and Proper Management of Fluorocarbons, GHG Emissions Calculation and Reporting Manual Ver. 4.9 and the protocol specified by the Organization.

Conclusion

Within the scope of the verification activities employing the methodologies mentioned above, nothing has come to our attention that caused us to believe that the Organization's Statement was not calculated and reported in conformance with the criteria.

SGS Japan Inc. affirms our independence from the Organization, being free from bias and conflicts of interest with the Organization.

For and on behalf of SGS Japan Inc.

Yokohama business Park North Square I
134, Godo-cho, Hodogaya-ku, Yokohama
Business Assurance
Head of Certification/Accreditation

Yuji Takeuchi

Attached file

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The details of the scope of verification

The scope	The boundary	The statement
1 Scope 1 and 2	4 domestic plants, 2 domestic research centers, 11 domestic offices, 1 domestic logistics bases of the Organization, 4 domestic plants, 5 overseas plants, 7 overseas offices of its Group Companies (34 sites in total) *1	Energy related carbon dioxide emissions Scope 1: 55,560 t-CO ₂ Scope 2: 53,791 t-CO ₂ GHG emissions other than energy related carbon dioxide : 7,602 t-CO ₂
* 1: The boundary of verification of fluorocarbons related to the Act on the Rational Use and Proper Management of Fluorocarbons is limited to 4 domestic plants of the Organization, 4 domestic and 1 overseas plants of its Group (9 plants in total).		
2 Carbon Credit	4 domestic plants of the Organization, 4 domestic and 4 overseas plants of its Group Companies (12 Plants in total)	0 t-CO ₂ *2
* 2: No carbon credits are accounted for by Lion Corporation (Thailand) Ltd. due to inconsistency with the T-VER credit redemption schedule.		
3 Scope3 Category 1	Raw materials and packaging materials for general consumer goods sold by the Organization and Lion Corporation (Korea)	423,331 t-CO ₂
4 Scope3 Category 11	General consumer goods sold by the Organization and Lion Corporation (Korea)*3	1,021,035 t-CO ₂
* 3: The emissions are calculated using a scenario that assumes the Organization's product design usage. Note that hand soap, dishwashing detergent, and bath detergent are calculated in a water-use scenario.		
5 Scope3 Category 12	General consumer goods sold by the Organization and Lion Corporation (Korea)	225,713 t-CO ₂
6 Water usage (water withdrawal) including the water sources of city water, industrial water, underground water and rainwater Water discharge including the destinations of sewage, public waters and others	4 domestic plants of the Organization, 4 domestic and 4 overseas plants of its Group Companies (12 Plants in total)	Water usage(water withdrawal) :1,508 thousand m ³ Water discharge :594 thousand m ³
7 COD emissions	4 domestic plants of the Organization, 4 domestic and 3 overseas plants of its Group Companies (11 Plants in total)	38 t