

Verification Opinion

HL D&I Halla

Scope

The GHG Emissions of HL D&I Halla’s manufacturing sites in the calendar year of 2023.

The verification calculated direct and indirect GHG emission based on the activity data from the GHG Emission Report for HQ, business offices and construction sites of HL D&I Halla.

- Complying with the suggestion of WRI/WBCSD GHG Protocol, the sources and the quantity of GHG emissions are calculated by applying operational control approach.
- Emissions were calculated based on fixed combustion emissions, mobile combustion emissions and indirect emissions.

Assurance level of verification

Limited Level of Assurance

Materiality

Moderate

For material discrepancies (errors, omissions, or false records), the threshold for quantitative determination is 5% of the total emissions.

Data Verified

GHG emissions of HQ, business offices, construction sites in 2023 are as follows:

Country	Scope1	Scope2	[Unit: ton CO2-e/yr] Total Emissions
HQ	404.257	218.375	622
Business offices	26.044	7.050	33
Construction sites	5,037.081	7,602.540	12,639
Total	5,467.382	7,827.965	13,294

* The total emissions can differ to a cut-off decimal point

GHG Criteria & Protocols used for Verification

This verification was performed at the request of **HL D&I Halla** applying the following criteria and guidelines:

- ISO14064-1:2018 & ISO 14064-3:2019
- WBCSD/WRI GHG Guidance - Revised March, 2004
- IPCC GHG Guidance – Revised 2006
- Guideline for Reporting and Certification of Amounts of Emissions in the Greenhouse Gas Emission Permits Trading Scheme (Notification No. 2023-221 of the Ministry of Environment of Korea)
- BSI GHGEV Manual
- Construction Industry Greenhouse Gas Emissions Calculation Manual - Ministry of Land, Infrastructure and Transport, January 2015
- Guideline for Calculating and Managing of Amounts of Emissions in the Greenhouse Gas(WI-36-01, Rev.0)
- 2023 Construction Work Standard Product Calculation

The standard confidentiality principle of BSI Group Korea was applied to all verification activities.

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Verification Opinion

As a result of the verification in accordance with the protocols and the best practice listed above, it is the opinion of BSI that:

- The verification was conducted with activity data and evidence provided by HL D&I Halla based on a limited level of assurance
- No material misstatement in the GHG emission calculations were detected, and relevant records were maintained appropriately
- The data quality was considered to be corresponding to the international key principles for GHG emissions verification.

For and on behalf of
BSI:

Managing Director Korea, SeongHwan Lim

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Verification Opinion

HL D&I Halla

Third-party verification of Scope 3 GHG emissions at domestic construction sites

Scope

- Scope 3 Category 1 Purchased products and services: Emissions from electricity and construction equipment fuel used during service provision in the construction sites of subcontractors, excluding the purchase of raw and subsidiary materials
- GHG emissions for Scope 3 (Indirect-emissions from logistic, commuting etc.) as defined in WBCSD/WRI GHG protocol Chapter 4 "Setting Operational Boundaries"
- GWP applies the IPCC Second Assessment Report, 1995 (SAR)

Assurance level of verification

Limited Level of Assurance

Materiality

Moderate

For material discrepancies (errors, omissions, or false records), the threshold for quantitative determination is 5% of the total emissions

Data Verified

2023 Scope 3 GHG Emissions are as follows and calculation methods for each Scope 3 sector are described in the verification report.

Category 1: Purchased products and services (excluding raw and subsidiary materials, subcontractor's service in the construction sites)
54,500 ton CO ₂ -e/yr

GHG Criteria & Protocols used for Verification:

The verification was performed at the request of **HL D&I Halla** applying the following criteria and guidelines:

- Guideline for Reporting and Certification of Emissions in the Greenhouse Gas Emissions Trading Scheme
- WBCSD/WRI Technical Guidance for Calculating Scope 3 Emissions (version 1.0)
- ISO14064-1:2018 & ISO 14064-3:2019
- HL D&I Halla GHG Emissions Calculation and Management Guidelines
- BSI GHGEV Manual

The standard confidentiality principle of BSI Group Korea is applied to all verification activities

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Verification Opinion:

BSI Group Korea's verification opinions on the result of carrying out verification in accordance with the GHG criteria and protocols mentioned above are as follows.

- Data quality was considered acceptable in meeting the key international principles for greenhouse gas emissions verification.
- No material misstatement during the verification process for emissions was found, it was confirmed that relevant activity data and evidence were properly managed. Therefore, the BSI Group Korea Verification Team provides a verification opinion that is "appropriate".

For and on behalf of BSI:

Managing Director Korea, SeongHwan Lim

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