

THE CARBON DISCLOSURE PROJECT INVENTORY VERIFICATION REPORT

Reporting Year: 01 January - 31 December 2021

Lucideon report number: AS 14072022

Company name: Boston Scientific Corporation

Company address: 300 Boston Scientific Way, Marlborough
MA 01752-1234, USA

Company representative: Ronan Coffey, Energy Manager

Contract Date: 23 June 2022

REPORT COMPLETED BY



Andrew Shepherd
Lead Auditor

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1.0 Introduction

Lucideon CICS Limited is a private limited company with headquarters based in Stoke-on-Trent, UK and is an established leading verification & certification body with a long history of accreditation under the European and the United Kingdom Emissions Trading Schemes. Lucideon CICS Limited is a wholly owned subsidiary of the Lucideon Group, an international materials testing and consultancy company based in Stoke on Trent, UK.

Lucideon was contracted by Boston Scientific Corporation to undertake the actions necessary to provide limited assurance verification of their scope 1, scope 2 and scope 3 GHG emissions for submission to the Carbon Disclosure Project (“CDP”), reporting under operational control criteria, for the period 01 January 2021 to 31 December 2021. (Scope 3 source streams are to be reported/verified separately at later stage.) The verification was carried out against the requirements of ISO 14064-3 for organizational level reporting. This was Lucideon’s 3rd year of verifying the Boston Scientific Corporation inventory.

2.0 Summary

The Reporter

Boston Scientific Corporation has reported on an operational control basis for their Scope 1 and Scope 2 emissions for 17 facilities globally.

Verification Plan

After reviewing the reporter’s data, Lucideon:

- Developed a draft verification plan (see appendix B).
- Held a kick-off meeting with the reporter (remotely) (see Appendix A).
- Finalised the verification plan.
- Conducted the verification activities.
- Informed the reporter of any issues to be resolved.
- Incorporated changes to the inventory by the reporter into the final verification review.
- Carried out an independent technical review of the calculations and verification report.

The verification plan was defined during an initial phase of Strategic Review and Risk Assessment to establish the verification process. The plan identified sites to be sampled for source data as selected from a risk evaluation, and identified supporting evidence to be reviewed as part of the verification of the inventory assertion.

Ultimately, Lucideon issued a positive verification opinion statement.

Conclusions

Lucideon verified the reported emissions in the reporter’s assertion to be consistent with the requirements of ISO14064-3 and provides limited assurance that the reporter’s assertion for the reporting year was verifiable, meeting the requirements of the CDP.

A summary of all findings from this verification requiring actions from the reporter and their current status was provided to reporter in separate communications. All required action items have been addressed. Items not addressed are presented as opportunities for improvement and listed in the recommendations in Section 6.0 if applicable.

3.0 Verification Team

The Lucideon verification team comprised:

- **Andrew Shepherd, Lead Auditor**
- **Tony Summers, Independent Technical Reviewer**

Both members of the Lucideon verification team have significant GHG verification experience with UK and EU ETS, CDP, ISO 50001 and Sustainability Reporting (Renewables Obligation and Renewable Heat Incentive).

The Boston Scientific Corporation team included:

- **Ronan Coffey, Energy Manager**
- **Mary Collins, Global CSR Manager**
- **Sergio Contreras, Facilities Operations Engineer**

4.0 Scope of Verification Activities

4.1 Standards Used

The GHG inventory presented by Boston Scientific Corporation and the verification thereof are undertaken in accordance with the following standards:

- The GHG inventory was produced in accordance with CDP Guidance.
- The GHG inventory was developed following the principles of “The Greenhouse Gas Protocol” (World Resources Institute, 2004 Revised Edition amended 2013), the “General Reporting Protocol v. 2.0”
- The inventory does not specify adherence to ISO14064-1 reporting requirements.
- The GHG inventory was verified pursuant to the requirements of ISO 14064-3.

4.2 GHG Reporting Boundaries

Organizational Boundary

Boston Scientific Corporation reported under operational control criteria. The boundary extends to manufacturing facilities within the Operations Department as defined in Section 4.1.

Geographical Boundary

Boston Scientific Corporation operates globally, with manufacturing sites throughout the world. A significant portion of the facilities are in North America and Ireland. The reported data includes all geographical areas.

Source Stream Summary

The following table defines the source streams within the inventory / verification boundary.

SCOPE	Subscope
1	Diesel
1	Natural Gas
1	LPG
2	Electric Power (Location & Market)

Note: Scope 3 source streams to be reported/verified separately at later stage.

Emissions Factors

Emission factors were taken from robust sources such as eGrid, USA Environmental Protection Agency (EPA), the International Energy Agency (IEA) and UK BEIS/DEFRA.

4.3 Core Verification Activities

Lucideon held a remote kickoff meeting with Boston Scientific Corporation covering the following items:

- Introduction of the Verification Team
- Review of verification activities and scope
- Transfer of background information
- Clarifications on data presented
- Explanation of expected documentation
- Review and confirmation of verification schedule

Lucideon reviewed the inventory summary (Appendix C). Lucideon reviewed the data provided, performed independent sampling / cross checks and compared the results to those in the summary report. Where possible, activity data was sampled back to source (invoices or underlying spreadsheets) as provided by Boston Scientific Corporation.

Lucideon notified Boston Scientific Corporation of issues arising from the initial verification activities as described above, all of which were satisfactorily resolved or transferred to this verification report for future consideration. No issues identified were assessed to be material.

5.0 Compliance with Standards

Lucideon assessed that the GHG inventory reported by Boston Scientific Corporation was developed in compliance with the required reporting protocols specified in Section 4.1. This section describes the particulars of the findings.

5.1 Boundary Review

Geographic Boundary Review

Lucideon assessed the reported sites/facilities to be correct and complete in the context of “Operations Department manufacturing facilities” within the operational control boundary.

Organizational Boundary Review

Lucideon assessed the reported sites to be within Boston Scientific Corporation operational control for the organisation defined.

Completeness of Sources and Emissions

Lucideon assessed the sources and emissions to be complete.

Exclusions, estimations and limitations

Qualification	Comment
Sites / facilities within inventory boundary.	The boundary extends to manufacturing sites within the Operations Section of the organisation. Recent site acquisitions enter the Commercial Section of the organisation and are not included within the inventory boundary until they are transferred to the Operations Section. This process typically take one or two years post acquisition. Smaller non-significant facilities such as sales offices are also not included within the reporting boundary. The inventory boundary for the current reporting year includes 17 facilities.
Scope 3	Scope 3 source streams are to be reported/verified separately at later stage.

The data inputs and the calculation methodologies used are deemed to be based on the best available information subject to the qualifying comments within this report

5.2 Review of Methodologies and Management System

Based on review of the inventory report summary (Appendix C), Lucideon assessed the data and management procedures employed by the reporter to be sufficiently robust. Lucideon sampled facility invoices, examined underlying data sets and checked calculation integrity, notifying the reporter of certain issues. The reporter resolved identified data issues satisfactorily at final verification.

Data Management

Source streams reported are identified in Section 4.2.

The CDP inventory is maintained within a spreadsheet supported by underlying spreadsheets and invoices.

The following GHG gases were reported, subject to qualifications listed in Section 5.1:

- carbon dioxide (CO₂)

The following GHG gases are currently outside the inventory boundary

- methane (CH₄)
- nitrous oxide (N₂O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs) and sulphur hexafluoride (SF₆)
- nitrogen trifluoride (NF₃)

The reporter is not aware of any SF₆ or NF₃ from global operations.

Emissions factors used to calculate emissions were assessed to be appropriate to the source stream, geographical location and to be from robust/recognised references.

5.3 Compliance with Key Principles

PRINCIPLE	COMPLIANCE
RELEVANCE	Yes – the GHG emissions have been appropriately reflected
COMPLETENESS	Yes – GHG emission sources within the reporting year have been reported subject to the qualifications stated
CONSISTENCY	Yes – consistent methodologies have been used
TRANSPARENCY	Yes – GHG submissions and methodologies are transparent. Assumptions are disclosed
ACCURACY	Yes- use of primary data and calculation methodologies confirm robustness of approach subject to the qualifications stated

5.4 Materiality

Material Misstatements

Lucideon’s review identified no material misstatements.

Non-Material Misstatements

Lucideon’s review identified no non-material misstatements.

Emissions Detail

Reported emissions are summarised in the following:

Table A: Reported Inventory Figures

A summary of the verified inventory is provided below:

SCOPE	Subscope	tCO2 (Market Based)	tCO2 (Location Based)
1	Diesel	2,007	2,007
1	Natural Gas	33,002	33,002
1	LPG	386	386
	Scope 1 Total	35,395	35,395
2	Electric Power	16,889	79,704
	Scope 2 Total	16,889	79,704
All	Total	52,284	115,098

6.0 Conclusion and Recommendation

As a result of the verification activities, Lucideon has identified opportunities for improvement. Lucideon recommends that Boston Scientific Corporation consider the following:

- Consider the inclusion of CH₄ and N₂O with the emission factors used to report the inventory on a tCO_{2e} basis.

Notwithstanding the above recommendations, Lucideon concludes that Boston Scientific Corporation's reported assertion meets the scheme requirements and may be verified without qualification as per the submitted verification opinion statement.

Below is the reporting entity's information.

Reporter:	Boston Scientific Corporation 300 Boston Scientific Way, Marlborough MA 01752-1234, USA
Reporting period	2021 (01 January – 31 December Inclusive)
Geographic boundaries	Global subject to inclusion of Operation's Section Facilities.
Organizational boundaries	Operational management control
GHGs reported	CO ₂
Assurance level	Limited

Summary of Final Verified Emissions

Table B: Reported Inventory Values

	Market tCO_{2e}	Location tCO_{2e}
Scope 1	35,395	35,395
Scope 2	16,889	79,704
Total	52,284	115,098

SIGNED



Andrew Shepherd
Lead Auditor
14 July 2022



Tony Summers
Independent Technical Reviewer
18 July 2022

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