

THE CARBON DISCLOSURE PROJECT GREENHOUSE GAS VERIFICATION REPORT

Reporting Year: 01 January - 31 December 2019

Lucideon report number: AS 20200824

Company name: Boston Scientific Corporation

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

Company representative: Ronan Coffey, Energy Manager

Report Date: 24th August 2020

REPORT COMPLETED BY



Andrew Shepherd
Lead Auditor

Table of Contents

Section	Page
1.0 Introduction.....	3
2.0 Summary	3
3.0 Verification Team.....	4
4.0 Scope of Verification Activities.....	4
4.1 Standard Used.....	4
4.2 GHG Reporting Boundaries.....	5
4.3 Core Verification Activities	6
5.0 Compliance with Standards	7
5.1 Boundary Review.....	7
5.2 Review of Methodologies and Management System	7
5.3 Compliance with Key Principles	8
5.4 Materiality	8
6.0 Conclusion and Recommendation	9

Appendices

- Appendix A – Kick-off Meeting Agenda
- Appendix B – Verification Plan
- Appendix C – Lucideon Issues List
- Appendix D – CDP Summary Workbook

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 1st January 2019 to 31st December 2019. The verification was carried out against the requirements of ISO 14064-3 for organizational level reporting. This was Lucideon’s 1st year of verifying the Boston Scientific Corporation CDP report.

2.0 Summary

The Reporter

Boston Scientific Corporation has reported on an operational control basis for their Scope 1, 2 & 3 emissions for 9 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).
- Finalized the verification plan.
- Conducted the verification activities.
- Informed the reporter of any issues (see Appendix C).
- 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 GHG assertion.

Ultimately, Lucideon issued a positive verification opinion statement.

Conclusions

Lucideon has verified the reported emissions from the operations of Boston Scientific Corporation as being consistent with the requirements of ISO 14064-3 and provides limited assurance that CO₂ emissions for the reporting year are verified, meeting the requirements of CDP.

3.0 Verification Team

The Lucideon verification team comprised:

- **Andrew Shepherd, Lead Auditor**
- **Fiona Carter, Internal Peer Reviewer**

Both members of the Lucideon verification team have significant GHG verification experience.

The Boston Scientific Corporation team included:

- **Ronan Coffey, Energy Manager**
- **Mary Collins, Global CSR Manager**

4.0 Scope of Verification Activities

4.1 Standard Used

The verified GHG inventory summary was provided as a summary report (see Appendix D), developed using CDP Guidelines. The summary report was supported by underlying spreadsheets and Schneider Electric’s Resource Advisor Portal.

The GHG inventory was verified pursuant to the requirements of ISO 14064-3.

The following verification qualifications are noted:

Qualification	Comment
tCO ₂ vs tCO _{2e}	The inventory is declared on a CO ₂ only basis. Some source stream calculations use CO _{2e} (including CH ₄ and N ₂ O) emission factors. This is not assessed to be material with slightly higher emissions being associated with source streams / facilities reporting on a tCO _{2e} basis.
Sites / facilities within inventory boundary.	The boundary extends to manufacturing sites within the Operations Section of the company. Recent site acquisitions enter the Commercial Section of the company 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 19 facilities.
Business Travel Car Hire	All Boston Scientific Corporation employees using Hertz to book car hire are accounted for this source stream. The boundary is therefore different (larger) to that used to define the facilities boundary.
Business Travel Car Hire	Car hire emissions are accounted for Hertz bookings only. This represents the vast majority of car hire

	emissions but some employees may book independently and this data is not captured.
Business Travel Car Hire	Detailed data for Q2/Q3 was available for the purposed of reporting. Q1/Q4 was estimated based on Q2/Q3 data and knowledge of air travel data which is strongly correlated with car hires. This was assessed not to be material to scope 3 emissions on the basis that car hire represents less than 2% of scope.
Business Travel Air	All Boston Scientific Corporation employees using the preferred travel booking company to book flights are accounted for this source stream. The boundary is therefore different (larger) to that used to define the facilities boundary.
Business Travel Air	The GHG calculations for this source stream use an emission factor from the 2014 publication of the EPA Emission Factor Hub (Table 7). The more recent publication of this document (26th March 2020) would be more relevant to the 2019 reporting period corresponding to a c. 20% reduction in total emissions for air travel. On the basis that emissions are not being under reported for 2019 this is included for future consideration when compiling annual GHG emissions reports.
Water	Water is reported using a combined emission factor for consumption and treatment.

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
2	Electric Power (Location & Market)
3	Waste
3	Water Use and Treatment
3	Business Travel - Air
3	Business Travel Hire Car

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 D). 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) 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.

Completeness of Sources and Emissions

Lucideon assessed the sources and emissions to be complete.

Exclusions, estimations and limitations

- See section 4.1 for reporter’s chosen exclusions
- 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 GHG inventory summary (Appendix D), Lucideon believes the data reported is sufficiently robust.

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. Invoices are retained using Schneider Electric’s Resource Advisor portal.

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.

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 development of GHG Inventory reporting procedures
- Consider the use of emission factors accounting CH₄ and N₂O for all source streams
- Utilise the most recently available emission factors appropriate for the reporting year for references where they are frequently updated, e.g. air travel.

Notwithstanding the above recommendations, Lucideon concludes that Boston Scientific Corporation’s reported GHG 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	2019 (1 st January – 31 st December Inclusive)
Geographic boundaries	Global
Organizational boundaries	Operational management control
GHGs reported	Inventory declared on CO ₂ basis only.
Assurance level	Limited

A summary of the verified inventory is provided below:

SCOPE	Subscope	tCO2 (Market Based)	% Scope (Market Based)	% Total (Market Based)	tCO2 (Location Based)	% Scope (Location Based)	% Total (Location Based)
1	Diesel	337	0.94%	0.22%	337	0.94%	0.19%
1	Natural Gas	35,325	99.06%	23.48%	35,325	99.06%	19.76%
	Scope 1 Totals	35,662	100.00%	23.70%	35,662	100.00%	19.95%
2	Electric Power	60,118	100.00%	39.96%	88,462	100.00%	49.48%
	Scope 2 Totals	60,118	100.00%	39.96%	88,462	100.00%	49.48%
3	Waste	323	0.59%	0.21%	323	0.59%	0.18%
3	Water Use and Treatment	871	1.59%	0.58%	871	1.59%	0.49%
3	Business Travel - Air	51,016	93.33%	33.91%	51,016	93.33%	28.53%
3	Business Travel Hire Car	2,452	4.49%	1.63%	2,452	4.49%	1.37%
		54,662	100.00%	36.33%	54,662	100.00%	30.57%
All	Total	150,442	tCO2e	100.00%	178,786	tCO2e	100.00%

SIGNED



Andrew Shepherd - Lead Auditor

24th August 2020



Fiona Carter - Internal Peer Reviewer

25th August 2020

REPORT DISTRIBUTION

This report will be distributed to the client representative, the Lead Verifier and the Business Support Team (for archiving) unless otherwise specified.

REPORT CONFIDENTIALITY

This report will not be disclosed to any third party. You are free to circulate it as required. However, if this report is circulated to a third party its entire contents must be included.