

Case study:

Manufacturing



● Carbon footprint verification by BSI assures AESSEAL® of its greenhouse gas reductions, helping it achieve key sustainability goals

ISO 14064-1 Carbon Footprint Verification



AESSEAL® is a world leader in the design and manufacture of mechanical seals and seal support systems. It specializes in creating innovative products to improve the reliability of rotating equipment. Founded in 1979, today the Rotherham-based company employs more than 1,750 people and provides customer service from 230 locations in 104 countries, including nine manufacturing and 44 repair facilities.

AESSEAL® believes in operating in an ethical and sustainable manner. It supports the United Nations' Sustainable Development Goals and provides sealing solutions that not only improve its customers' reliability, but also help them reduce energy and water consumption. It has also prioritized greenhouse gas (GHG) reductions. Its UK operations (AESSEAL plc) achieved net zero for Scope 1 and 2 in 2020, and for Scope 1, 2 and 3 in 2021. Then, with offsetting and emissions avoidance taken into consideration, global group businesses (A.E.S Engineering Ltd) also achieved net zero for all three Scopes in 2022.

Carbon footprint verification by BSI against ISO 14064-1, the global standard for measuring GHG emissions and removal, provides AESSEAL® with independent non-financial data assurance, helping it towards its business sustainability goals and demonstrating to stakeholders the impressive progress it is making.

“Our aim of reducing emissions is reliant on data collection and measurement. Carrying out an assessment against ISO 14064-1 allows us to identify where we can make these reductions and creates an awareness within our business of our footprint. As a result of our GHG inventory, we have already been able to make substantial investments to almost eliminate some of our largest remaining sources of Scope 1 and 2 emissions.”

Elliot Michel
Data Analyst, AESSEAL®

● Client challenge

As part of its sustainability strategy, AESSEAL® set out to reduce its GHG emissions through continual improvement across its global operations. It has been driving down energy use, for example, by adopting energy saving technologies and implementing staff awareness and training programmes.

Next, AESSEAL® wanted to provide itself and key stakeholders with assurance of its non-financial data. Specifically, Simon Sheaf, Sustainability Officer, and Elliot Michel, Data Analyst, needed reliable and consistent quantification and reporting of Scope 1, 2 and 3 GHG data, showing emissions and reductions across the company's diverse global operations, for its entire value chain, both up and downstream.

"Many businesses struggle to understand the GHG protocols and define the data collection process, never mind actually gathering the data and completing a definitive carbon calculation," says Sheaf. "We were really pushing the boundaries in this area."

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● BSI solution

The solution lay in choosing BSI to provide third-party verification of its GHG quantification and reporting against ISO 14064-1, the global standard for measuring GHG emissions and reductions.

In March 2022, BSI assessed GHG reporting data from AESSEAL® against ISO 14064-1, as well as the carbon avoidance data associated with the sale of its products and its purchase of offset credits. BSI, which has extensive experience of this global standard, used observation, inquiry and interviews to evaluate the company's monitoring and control systems and ultimately verify the relevant data. "This independent process validated our calculations and clearly demonstrated that AESSEAL® is now carbon neutral across all our locations worldwide," says Sheaf.

Why BSI?

Simon Sheaf comments: "BSI is a globally respected organization that provides skilled assessors with deep understanding of ISO 14064-1. We've greatly valued their expertise and guidance on our net zero journey."

