

Responsible party:	A.E.S. Engineering Ltd (Group of companies) Global Technology Centre, Bradmarsh Business Park Mill Close, Rotherham South Yorkshire, S60 1BZ United Kingdom
Type of GHG statement:	Organization (avoided emissions through the use of double mechanical seals)
Identification of GHG statement:	Product emissions avoidance report (Ref. GHGV2122 – V4 – Public – 02/03/23)
Scope of activities:	Energy savings associated with AESSEAL® seal support systems (in conjunction with mechanical seals) and the STS™ mechanical seal.
Reporting boundary:	Indirect emissions - scope 3 – (avoided emissions through the use of double mechanical seals)
Level of assurance / Materiality:	Limited / 10%
Period:	1-Oct-2021 to 30-Sep-2022
GHG Emissions avoidance:	392,857.9 t CO ₂ e (over a 10-year product in service period)
Verification opinion:	Verified Based on the process and procedures conducted, there is no evidence that the "Product emissions avoidance report (Ref. GHGV2122 – V4 – Public – 02/03/23) produced by A.E.S. Engineering Ltd is not materially correct and is not a fair representation of GHG data and information.

Verification Activities:

Verification (documentation review & recalculations) was completed for the calculations supported by the following documents:

- How do we manage your water supply? Paper by Yorkshire Water
- Properties at risk of receiving low pressure. Paper by Ofwat
- System Vessel Life Cycle – Expert Consideration (SES-Public-08/20). Paper by Dr Chris Carmody PhD, MSc BEng (Honours)
- Applying low emissions API compliant sealing technology to mature pump machinery. Paper by Mr Richard J Smith (Director AESSEAL plc Rotherham England) & Mr APW (Machinery Engineer; Petrochemical plant, UK)
- The mechanical seal industries contribution to energy efficiency in pumping systems. Paper by Mr Richard Smith (AESSEAL plc) & Chris Booth BA MBA (AESSEAL plc)
- Water savings case studies provided
- Mechanical Seal Conversion ROI (28th May 2015). Paper by Mr PL (Project Engineer, Paper Pulp Mill, Canada)

The verification activity has been carried out in accordance with ISO 14064-3:2019 and the principles of ISO 14065:2013.

The verification activities applied in a limited level of assurance verification are less extensive in nature, timing and extent than in a reasonable level of assurance verification.

A.E.S Engineering Ltd is responsible for the preparation and presentation of the Product Emissions Avoidance Report. The data on which the GHG emissions avoided through the use of A.E.S. Engineering Ltd mechanical systems and seals is based on has been provided by A.E.S. Engineering Ltd. This data is the responsibility of A.E.S. Engineering Ltd and is historical in nature. A.E.S. Engineering Ltd is responsible for supporting documents provided for this verification.

BSI is responsible for expressing an opinion on the GHG statement based on the verification.

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Responsibilities:**Lead verifier:**

Jose L Miguel

Signed on behalf of BSI:

Matt Page, Managing Director UK & Ireland, Assurance

Issue date15th March 2023

BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Milton Keynes, MK5 8PP

NOTE: BSI Assurance UK Ltd is independent to and has no financial interest in A.E.S. Engineering Ltd. This verification opinion has been prepared for A.E.S. Engineering Ltd only for the purposes of verifying its statement relating to its GHG emissions avoidance more particularly described in the scope above. It was not prepared for any other purpose. In making this statement, BSI Assurance UK Ltd has assumed that all information provided to it by A.E.S. Engineering Ltd is true, accurate and complete. BSI Assurance UK Ltd accepts no liability to any third party who places reliance on this statement.

