

Responsible Party:

A.E.S. Engineering Ltd (Group of Companies)
Global Technology Centre
Bradmarsh Business Park
Mill Close
Rotherham
South Yorkshire
S60 1BZ

Type of GHG Statement:

Organisational

Identification of GHG Statement:

A.E.S Engineering Ltd. GHG Inventory – Scope 1, 2 & 3 Emissions Inventories (GHGINV2122 – V7 - Public – 02-Mar-2023)

Scope of activities:

Manufacturing, sales and technical service for mechanical seals and support systems.

Organisational Boundary:

Operational Control

Sites Included in Organisational Boundary:

(See Appendix 1)

Reporting Boundary:

Scope 1 - Direct GHG emissions
Scope 2 - Indirect GHG emissions from purchased energy
Scope 3 - Indirect GHG emissions (corporate value chain)

Exclusions from reporting Boundary:

Scope 3: Processing of sold products, downstream leased assets, franchises and investments.

Criteria for developing the organisational GHG Inventory:

ISO 14064-1:2018 (BS EN ISO 14064-1:2019) & The Greenhouse Gas Protocol

Level of Assurance:

Reasonable

Materiality level:

5%

Period:

1-Oct-2021 to 30-Sep-2022

GHG Emissions:

tCO ₂ (e)	Location Based	Market Based
Scope 1	2,439.08	2,439.08
Scope 2	3,102.32	1,994.38
Scope 3	128,655.2	128,655.2
Total	134,196.6	133,088.63

Note: A.E.S Engineering Ltd. purchases and retirement of 5,540t of CO₂e was verified:

Projects	t CO ₂ e	Verified by
Offset via efficient household cookstoves in India (VCS 2336)	2750	<u>Verra</u>
Offset via reduced deforestation in Cambodia (VCS 1650)	2750	<u>Verra</u>
Pacajai REDD+ Project (VC 981)	40	<u>Verra</u>
Total	5540	

Verification Opinion: Verified with Comments

Based on the processes and procedures conducted, the GHG statement is materiality correct and is a fair representation of the GHG data and information and is prepared in accordance with ISO14064-1:2018.

The following improvements were raised in relation to future reporting:

Natural gas	Sites to consider gas meter readings to confirm billing data.
Refrigeration gases	Sites to consider having an inventory of refrigeration gases storage (type & amount) within refrigeration equipment. Sites to report confirmation of non leakage / refilling of refrigeration gases.
Purchased electricity	Sites to consider electricity meter readings to confirm billing data.
Purchased goods.	To consider automatic categorization of purchased goods at purchasing IT tools (SAP, MS Dynamics, etc., ...). Currently categorization of purchases is done manually from original data.

In the organisation carbon footprint both location and market-based scope 2 emissions are reported.

The organization has calculated GHG emissions associated to some sites (repair centres, sales offices) on the basis of scaling emissions from other similar sites using averages and linear regression approaches, instead of using sites activity data.

Scale model was reviewed during the verification process, has been improved from previous reporting period and seems to provide consistent results.

Verification Activities:

The following were the verification activities undertaken:

- Review of GHG calculation methodologies, including uncertainty
- Review of activity data and monitoring / controls systems through visiting sites (remote connection), interview of employees, review of supporting records.
- Verification of the data through sampling recalculation, retracing, cross checking, reconciliation
- Review of offset credits supporting records (purchasing, projects information, credits retirement)

The quantification and reporting of the GHG emissions has been independently verified by BSI against the specifications defined in ISO 14064-1:2018 (BS EN ISO 14064-1:2019). The verification activity has been carried out in accordance with ISO 14064-3:2019 and the principles of ISO 14065:2013.

Responsibilities:

The data on which the GHG emissions are based has been provided by A.E.S. Engineering Ltd in the document. This document "A.E.S Engineering Ltd. GHG Inventory – Scope 1, 2 & 3 Emissions Inventories (GHGINV2122 - V7 – Public- 2-Mar-2023) is the responsibility of A.E.S. Engineering Ltd and is historical in nature.

The responsible party is responsible for the preparation and fair presentation of the GHG statement in accordance with the criteria.

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

Lead Verifier: Jose L Miguel

Signed on behalf of BSI: Matt Page, Managing Director UK & Ireland, Assurance

Issue Date: 15th March 2023

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 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.



Appendix 1: Sites Included in Organisational Boundary

Entity	Site (Shorthand)	Location
AESSEAL plc (02101607)	Mill Close	Rotherham - Mill Close, Bradmarsh Business Park, Rotherham, S60 1BZ
AESSEAL plc (02101607)	Derby	Derby - Wetherby Road, Osmaston Park Ind Est, Derby, DE24 8HL
AESSEAL plc (02101607)	Bradford	Bradford - Unit 1 and Unit 2 Venlo Ind Est, Knowles Street, Bradford, BD4 6HE
AESSEAL plc (02101607)	Mangham Road	Mangham Road, Barbot Hall Ind Est, Rotherham, S61 4RJ
AESSEAL plc (02101607)	NE	Middlesborough - Trident House, 1st Floor RHS Falcon Court, Preston Farm Business Park, Stockton-on-Tees, TS18 3TX
AESSEAL plc (02101607)	SE	Essex - 11 Saxon House, Upminster Trading Park, Warley Street, Upminster, Essex RM14 3PJ
AESSEAL plc (02101607)	Pontypridd	Abercynon - CF45 4SN Abercynon , Rhondda Cynon Taff
AESSEAL (MCK) LTD. (NI017307)	Lisburn	Lisburn - 139A Hillsborough Old Rd, Lisburn, County Antrim BT27 5QE
AESSEAL IRELAND LTD (NI065308)	Cork	Cork - Unit 14, Knockgriffin Ind. Park, Midleton, County Cork, P25 AR23
AVT RELIABILITY LTD (01829338)	Warrington	Warrington - Unit 2 Easter Court, Europa Boulevard, Warrington, WA5 7ZB
AVT RELIABILITY LTD (01829338)	Kirkcaldy	Evans John Smith Business Park, Kirkcaldy, KY2 6HD
AVT RELIABILITY LTD (01829338)	JaTech	JaTech Services - 801 Upper Canada Dr, Sarnia, ON N7W 1A3, Canada
AVTPUMP LIMITED (03336919)	Gloucester	Gloucester - Unit 5, Centurion Industrial Estate, Empire Way, Gloucester , GL2 5HY
AVTPUMP LIMITED (03336919)	Grangemouth	Grangemouth - Central England Workshop, North Site, Earls Road, Grangemouth, FK3 8XG
VULCAN ENGINEERING LIMITED (02422728)	Vulcan Sheffield	Southwest Centre, The South West Centre, Unit 3 Troutbeck Rd, Sheffield S8 0JR
VULCAN ENGINEERING LIMITED (02422728)	Vulcan Minnesota	Vulcan Seals Inc., 11401-11481 Rupp Drive, Burnsville, Minnesota, MN 55337
VULCAN ENGINEERING LIMITED (02422728)	Eastern Seals	Unit 3, Sovereign Business Park, Jubilee Industrial Estate, Ashington NE63 8UG
VULCAN ENGINEERING LIMITED (02422728)	Coating Centre	Unit 10 Eastover Farm, Abbots Ann, Andover, UK, SP11 7BT
AESSEAL Inc.	Rockford	Rockford TN - 355 Dunavant Drive, Rockford Tennessee 37853
AESSEAL Inc.	Kingsport TN	Kingsport TN - Building 226 Dr 6, Eastman Road, Kingsport, Tennessee 37662 (AES employees on Eastman Site)
AESSEAL Inc.	Marion IA	Marion IA - 5055 8th Avenue Marion, Iowa 52302
AESSEAL Inc.	Fairfield ME	Fairfield ME - 11 Evergreen Drive, Fairfield, Maine, 04937
AESSEAL Inc.	Longview WA	Longview WA - Suite #8, 960 Industrial Way, Longview, WA 98632
Mechanical Seal & Service Inc.	Odessa TX	Odessa - 3500 N County Road W, Odessa, TX, 79764
AVT Sealing Solutions Inc.	Addison IL	Addison - 1070 N Garfield Street Lombard, IL 60418
AESSEAL Sealing Products of Corpus Christie, LLP	Corpus Christi TX	Corpus Christi - 433 Sunbelt Drive, Suite A, Corpus Christi, TX 78408
AESSEAL Canada Inc	Mississauga ON	Mississauga - Unit 2, 445 Admiral Boulevard, Mississauga, Ontario, L5T 2N1
AESSEAL Canada Inc	Vancouver BC	British Columbia - #304 19292- 60th Avenue, Surrey, B.C Canada, V3S 3M2

Entity	Site (Shorthand)	Location
AESSEAL (SEALTEC PLC SA)	Buenos Aires	Vicente Lopez, Buenos Aires - Sebastian Gaboto 4950, B1605BH-Munro, Buenos Aires, Argentina.
AESSEAL (SEALTEC PLC SA)	Montevideo	Montevideo - Asuncion 1476 Aguada , Montevideo
AESSEAL Brazil Ltda	Sao Paulo	Sau Paulo (Main Office) - Av. Guido Caloi No 1985, Galpao 3, Santo Amaro, CEP No. 0582-140, Sao Paulo SP
AESSEAL Brazil Ltda	Belo Oriente	Belo Oriente (Branch) - Rodovia BR 381, KM 172, Perpetuo Socorro, CEP No. 35196-000, Belo Oriente, MG
AESSEAL Brazil Ltda	Laoro de Freitas	Lauro de Freitas (Branch) - Av Luiz Tarquino, 2580, Ed Villa Empresarial I, sala 311 - Pitangueiras, CEP No 42700-000, Lauro de Freitas, BA
AESSEAL Colombia SA	Bogota	Bogota - Calle 25g No. 85B-65: Barrio Santa Cecilia de Modelia
AESSEAL Chile SA	Santiago	Providencia, Santiago. - Avenida El Retiro 1275. Bodega A05 RENCA- Santiago, Chile
AESSEAL MEXICO S. DE R.L. DE C.V.	Tampico	Tampico Tamaulipas - Carretera Tampico, Mante #2005 Local D Planta Alta y Baja , Colonia del Bosque, Tampico Tamaulipas CP 89318
AESSEAL MEXICO S. DE R.L. DE C.V.	Tlalnepantla	Tlalnepantla - El Encanto #8, Col. Electra, Tlalnepantla de Baz, 54060, Edo. Mexico.
AESSEAL MEXICO S. DE R.L. DE C.V.	Coatzacoalcos	Coatzacoalcos - Nuevo Leon No. 713 Colonia Petrolera, Coatzacoalcos, Veracruz, 96400
AESSEAL Coldweld Pvt. Ltd,	Coldweld	Vasai East Mumbai - Gala No A Cold Weld Estate, 22-23 Gokhivare Village, Sativali Road, Vasai East, Dist Palghar, Maharashtra, India, Pin Code 401208
AESSEAL India Pvt. Ltd	Vasai	Bldg. no. 4A, KT Laser, S. No. 15 H. No. 1, KT Industrial Park, Vasai East - 401208.
AESSEAL India Pvt. Ltd	Customer operated	Customer operated site
AESSEAL India Pvt. Ltd	Pune	Pune - Gat No. 85, At Post Varve, Khed Shivapur, Taluka Bhore, Dist. Pune, 412 205.
AESSEAL China Ltd	Ningbo	Ningbo - No. 65 1-2, Lane 777, Qingfeng Road, Ci Cheng Town, Jiang bei District, Ningbo, Zhejiang Province, China
AESSEAL China Ltd	Wuxi	Wuxi - 21F Coast Center, No. 41 Guanshunda Coast City, Taihu New Town, Binhu District, Wuxi City
AESSEAL China Ltd	Dalian	18th floor, Dalian Ping An Building, 24 Renmin Road, Zhongshan District, Dalian
AESSEAL China Ltd	Zhanjiang City	Room 806, No 9, Zone 4, Lucun Road, Xiashan district, Zhanjiang City
AESSEAL Pty Ltd	Johannesburg	Johannesburg - 67 Loper Avenue, Spartan Extension 2, Johannesburg, Gauteng
AESSEAL Pty Ltd	Durban	Durban Durban Belzona - 454 Kingsway Road, Amanzimtoti, KZN, South Africa
AESSEAL Pty Ltd	Cape Town	Cape Town - 10 Killarney Avenue, Killarney Gardens, Milnerton, Cape Town, 7441.
AESSEAL Pty Ltd	Richards Bay	Richards Bay - Unit 4, Dolphin Park, 72 Ceramic Curve, Alton, Richards Bay
AESSEAL Pty Ltd	Sasolburg	Sasolburg - 3 Oxygen Street, Sasolburg Eco Industrial Park, Vaalpark, 1947
AESSEAL Pty Ltd	Kuruman	10 Schoeman Street, Kuruman, Northern Cape, 8460
AESSEAL Pty Ltd	Secunda	Secunda - 14 Kingfisher Street, Secunda, Mpumalanga
AESSEAL Benelux BV	Breda (Benelux)	Breda - Nikkelstraat 27, 4823 AE, Breda.
AESSEAL Czech s.r.o.	Brno	Brno - Turanka 115, 627 00 Brno
AESSEAL Denmark A-S	Køge	Køge - Koebenhavnsvej 222, DK-4600 Køge
AESSEAL Austria GmbH	Oberösterreich	Obere Dorfstraße - Obere Dorfstraße 39, 4616 Weißkirchen an der Traun , Oberösterreich

Entity	Site (Shorthand)	Location
AESSEAL Deutschland GmbH	Kronau	Kronau - Heidigstrasse 9, Kronau, D - 76709
AESSEAL Finland OY	Jyväskylä	Jyväskylä - Sorastajantie 1a lt. 2, 40340 Jyväskylä, Lansi-Suomen laani
AESSEAL France SARL	Nieppe	Nieppe - ZA De L'Epinette, 161 rue de Bruxelles, 59850 Nieppe France
AESSEAL Ibérica SL	Tarragona	Tarragona (Delivery Address) - Pol Ind Riu Clar, Plata 7, Tarragona, 43006
AESSEAL Italia SRL	Gallarate	Gallarate - Via Varese 17/B - 21013 Gallarate (Va)
AESSEAL Italia SRL	Latina	Latina - Via Gioberti, 11 - 04100 Latina (Lt)
AESSEAL Polska Sp. z o.o.	Mazancowice	Mazańcowice - Mazańcowice 999, 43-391 Mazańcowice
AESSEAL Russia	Moscow	Moscow - Boldyreva Street, 1 Koroliov City, Moscow Area, 141073
AESSEAL Nordic AB	Stockholm	Jordbro, Stockholm - Jordbro Park, Rörvägen 57, 136 50 Jordbro
AESSEAL Sızdırmazlık Tic.Ltd.	Istanbul	Istanbul - Tekstilcent Is Merkezi, A15 Blok, No.13 Esenler - Istanbul 34235
AESSEAL Univeda Unipessoal LDA	Lisbon	QUELUZ de BAIXO - Barcarena - Estrada Consiglieri Pedroso, 71 Edificio E - Fracção Q4 - 2730-055 Queluz de Baixo
AESSEAL Univeda Unipessoal LDA	Porto	Stª Maria da Feira - Porto - Rua Centro Empresarial do Cavaco, Pav. 04 - Escritório 06, 4520-061 S. João De Ver
Propack Dichtungen und Packungen AG	Sauerlach	Rudolf-Diesel-Ring 28, D 82054 Sauerlach
AESSEAL (M) Sdn Bhd	Selangor (Puchong)	Selangor (Puchong) - No.9, Jalan MJ 13, Taman Industri Meranti Jaya, 47120 Puchong, Selangor Darul Ehsan
AESSEAL (M) Sdn Bhd	Pahang (Kuantan - Gebeng Area)	Pahang (Kuantan - Gebeng Area) - A-25. Ground Floor, Jalan Gebeng 2/6, Kawasan Industri Gebeng, 26080 Kuantan, Pahang Darul Makmur, Pahang.
AESSEAL (M) Sdn Bhd	Johor (Masai)	Johor (Masai) - No. 31 Jalan Bukit 9 , Bandar Seri Alam , 81750 Masai, Johor.
AESSEAL (M) Sdn Bhd	Lahad Datu (East Malaysia)	Lahad Datu (East Malaysia) - MDLD 7635, Lot 3, Block B, Layung Industries, Jalan Tengah Nipah, 91100 Lahad Datu,
AESSEAL (M) Sdn Bhd	Pulau Pinang (Butterworth)	Pulau Pinang (Butterworth) - No. 52, Lengkok Kapal, Jalan Chain Ferry, 12100 Butterworth, Pulau Pinang
AESSEAL Saudi Arabia Co. Ltd.	Dammam	DAMMAM - DAMMAM 2ND INDUSTRIAL CITY - SAUDI INDUSTRIAL PROPERTY AUTHORITY - MODON - Building No 6770 Unit No. 3 - PO BOX 6770 - 3341 Dammam 34334 KSA
AESSEAL Middle East FZE	Dubai	Dubai - Showroom No. S3B5SR08, Jebel Ali Free Zone, Jebel Ali, Dubai, UAE
AESSEAL Australia Pty Ltd	Brisbane QLD	QLD - 12 Counihan Road, Seventeen Mile Rocks, Queensland, 4073
AESSEAL Australia Pty Ltd	Rockingham WA	WA - Unit 6, 5 Nasmyth Road, Rockingham WA 6168
AESSEAL Australia Pty Ltd	Edwardstown SA	SA - 25 Weaver Street, Edwardstown SA 5039
AESSEAL Australia Pty Ltd	Sydney NSW	NSW - Sydney - Unit 11/1 Adept Lane, Bankstown, NSW 2200
AESSEAL COJ	Algiers	Algiers - Lot No 5 Zone d'activite Ain Benian-Alger, Algeria
AESSEAL Taiwan Co., Ltd	Kaohsiung	Kaohsiung City - No.124 Zhumen Ln., RenWu Dist., Kaohsiung City 81448, Taiwan (R.O.C.)
AESSEAL Namibia (Pty) Ltd	Swakopmund	Swakopmund - Unit 9, Einstein Business Park, Einstein Street, Swakopmund (moving Aug 19 to Winghoek)
AESSEAL Botswana (Pty) Ltd	Orapa	Orapa - Office Unit 3, Plot 1056, Industrial Site Orapa, Botswana
AESSEAL NSW Pty Ltd	Smeaton Grange (Stevco)	Stevco Seals & Pumps Pty Ltd - 11 Samantha Place Smeaton Grange, NSW, 2567
AESSEAL NSW Pty Ltd	Smeaton Grange (AES&S)	Australian Engineering Sale & Service Pty Ltd - 11 Samantha Place Smeaton Grange, NSW, 2567
AES Edmonton	Edmonton	3104/3108 - 121 Avenue N.E, Edmonton, Alberta

Entity	Site (Shorthand)	Location
Van Geffen AMS	Van Geffen	Uilenwaard 7, 5236 WB 's-Hertogenbosch, Netherlands
AESSEAL Pty Ltd	East London	Mercedes Benz SA (PTY) LTD, 7 Settlers Way, Gately Industrial Township, Building B-Plant, Machine Shop, East London, 5200
AESSEAL MEXICO S. DE R.L. DE C.V.	Atizapan	Gardenia 14, Tulipan y Azucena, HDA De La Luz, C.P. 52929, Atizapan De Zaragoza, Mex.

