



2023

万邦集团

温室气体
盘查报告书

关于 本报告书

为响应全球永续行动，万邦于2022年加入科学基础目标倡议（SBTI）。本报告书将呈现我们在2023年度的碳排放盘查结果、2030年减碳目标，并呈现集团对比2022年基准年的碳排放量数据变化，以及为达成目标所采取的具体行动。

报告期间



2023年1月1日至2023年12月31日。

报告发布



本集团每年于万邦集团网站上发行中、英文报告书。本期于2024年11月发布，所含相关数据经第三方单位(SGS)查核认证，核查报告附于本报告书中。

涵盖范畴



本报告书所揭露资讯包含实际生产营运之中国、越南、与印度之生产基地。若报告书有任何的数据范畴调整或差异，将于该段落内注明。



集团生产基地

中国厂

万邦(清新)鞋业有限公司
(Apache Footwear Ltd.)

印度厂

万邦(印度)鞋业有限公司
(Apache Footwear India Pvt. Ltd.)

越南厂

万邦(越南)鞋业有限公司
(Apache Footwear Vietnam Company Ltd.)

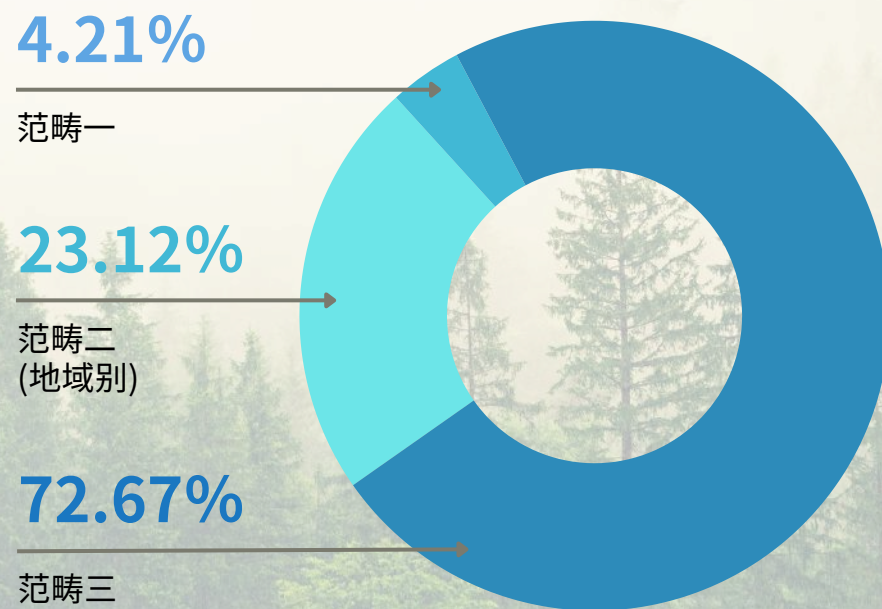
万邦积极响应国际倡议，加入 SBTi， 完成 2023 年温室气体盘查。

Science Based Targets initiative，是全球第一个「净零碳排放标准」的减碳框架，目标为将均温升幅控制在摄氏 1.5 度以内。这项全球性倡议旨在帮助企业建立和实施符合科学标准的减排目标，使减排承诺更具体可行且能衡量并符合实际影响力，以对抗全球暖化，并在永续发展的道路上发挥更大的作用。

因此，作为 adidas 的重要战略合作伙伴，万邦积极回应全球的永续行动。为此，我们加入 SBTi（科学基础减量目标倡议），并于 2022 年启动集团温室气体盘查，设定了至 2030 年的减碳目标。目前万邦集团全球生产据点均完成 ISO 14064-1:2018 温室气体查证。

万邦集团承诺在 2030 年，较 2022 年基准年相比，范畴一与范畴二的温室气体绝对排放量将减少 42%；范畴三的每一百万美元增加值温室气体排放量将减少 51.6%。透过这些具体目标与行动，展现万邦在永续发展上的努力与承诺！

万邦集团 2022 基准年 温室气体排放量各范畴概况



温室气体总排放量

单位：公吨二氧化碳当量

项目	2022年 (基准年)	2023年
范畴一：直接排放	11,742.92	11,996.65
范畴二：间接排放(地域别)	64,442.03	43,995.26
范畴三：其他间接排放	202,608.46	209,425.52

范畴三(其他间接排放)总排放量

单位：公吨二氧化碳当量

项目	2022年 (基准年)	2023年	排放源计算说明
S3-1 外购商品和服务	139,458.39	156,963.84	采购的原材料、自来水输送
S3-2 资本商品	2,795.64	2,314.36	固定资产、设备及设施 (如机器、电脑)
S3-3 燃料和能源相关活动	17,865.52	16,413.72	工厂使用的各种能源
S3-4 上游运输和分销	7,348.17	2,636.85	原材料运输 (海运、空运、货运)、成品运输
S3-5 运营中产生的废弃物	659.39	741.08	废弃物运输 (货车)、工厂产生的各种废弃物
S3-6 商务旅行	133.14	257.71	航空差旅 (经济舱)、铁路、大巴, 酒店住宿
S3-7 员工通勤	10,340.67	8,369.47	自驾车、摩托车、大巴、电动摩托车
S3-8 上游租赁资产	-	-	不适用
S3-9 下游运输和分销	18,691.10	17,847.14	(成品鞋) 线上、线下
S3-10 售出产品的加工	-	-	不适用
S3-11 售出产品的使用	-	-	不适用
S3-12 处理寿命终止的售出产品	5,316.44	3,881.35	处理寿命终止的售出产品 (填埋)
S3-13 下游租赁资产	-	-	不适用
S3-14 特许经营商	-	-	不适用
S3-15 投资	-	-	不适用
总计	202,608.46	209,425.52	

注：1. 本报告书所揭露之数据为经第三方查证之数据。

2. 温室气体包含二氧化碳(CO₂)、甲烷(CH₄)、氧化亚氮(N₂O)、氢氟碳化物(HFCs)、全氟碳化物(PFCs)、六氟化硫(SF₆)及三氟化氮(NF₃)。

3. 盘查所使用的标准依据 ISO 14064-1。此外，因本集团未涉及上游租赁资产、售出产品的加工、售出产品的使用、下游租赁资产、特许经营权及投资，故列为不适用。

4. 透过科学基础减量目标倡议 SBTi, 和 ISO14064-1 标准，定期检讨短中长期节能减碳追踪执行情形及目标达成程度。

5. 建立内部温室气体 (GHG) 管理系统与政策，管控基准年、排放量及目标变化，包含明确基准年调整条件及因应情况调整目标的需求。

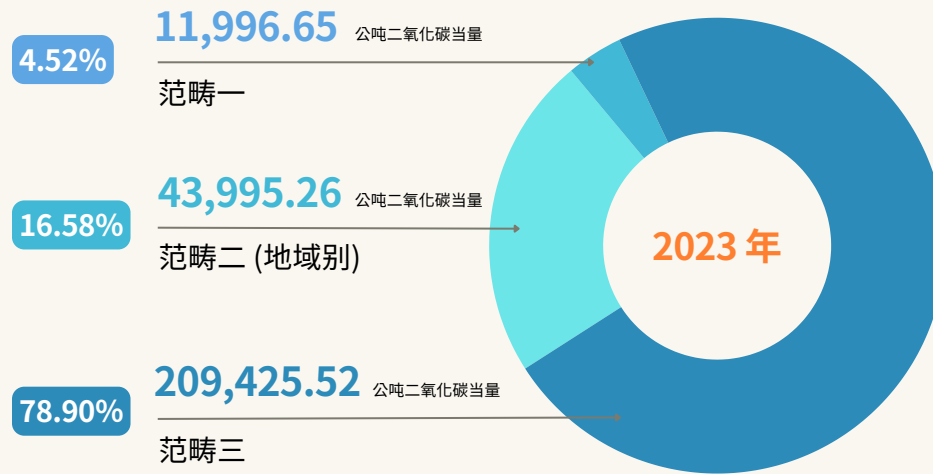
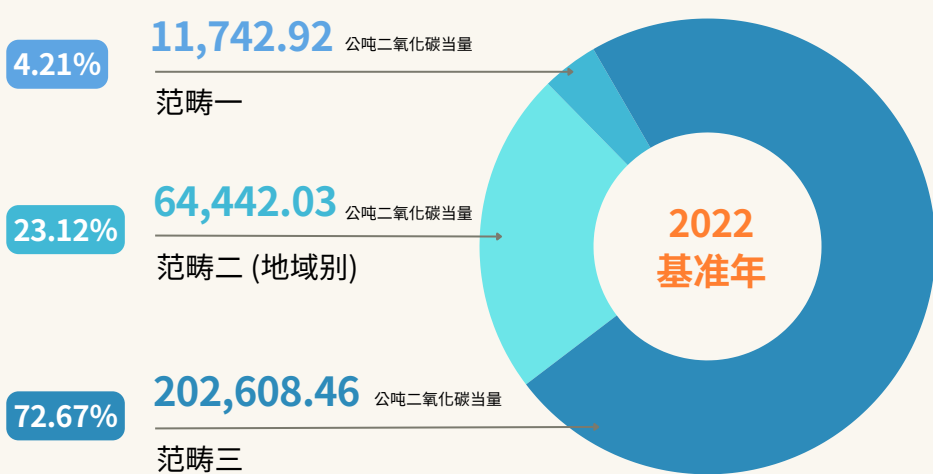
2023 年碳目标达成进度

万邦集团自 2023 年起，依序完成 2022 年及 2023 年全球生产据点的温室气体盘查，涵盖范围包含中国、越南及印度生产基地。根据过往温室气体盘查结果，万邦在范畴一及二的主要温室气体排放来自于范畴二，因此，万邦的温室气体减量策略以节能与能源管理为核心，并辅以采用再生能源。

万邦依据 ISO 14064 标准，鉴别重大排放项目进行碳盘查，亦依照 GHG Protocol 方法学盘查各类别的温室气体排放量。2023 年，整体生产厂区的直接排放与能源间接排放总计为 55,991.91 吨二氧化碳当量(地域别)，较前一年下降 26.51%。此减少源于持续推行自主节能措施、调整能源使用方式、导入智慧化管理系统以及采用再生能源等具体行动，其中包括厂区内安装屋顶太阳能发电设备、采购绿电和非捆绑式再生能源凭证。

在其他间接排放(范畴三)，2023 年的总排放量相较前一年增加，范畴三主要排放类别为 S3-1 外购商品和服务(约占75%)。未来，集团将持续推动采用可重复利用之材料与包材、优化废弃物管理与能源转换，并强化供应链管理，进一步减少范畴三的碳排放。

万邦集团 2022 基准年与 2023 年温室气体各范畴排放概况



SBTi目标减碳策略及执行进度



厂区	减碳策略	策略说明	执行情形
中国厂 (APE)	使用再生能源	1. 装设屋顶太阳能发电系统 2. 签订绿电采购协议	已完成，2023年分别减少范畴二碳排放量 1,069.48 吨 CO2e 与 2,173.6 吨 CO2e。
	能资源使用	分别从管理层面与热能技术着手，透过改善周、优化流程、合并产线，以及改用空气能 and 太阳能取代电能加热水洗机用水以节能。	执行中，预计分别减少 2023 年范畴二的碳排放量 109.17 吨 CO2e 和 152.36 吨 CO2e。
		将原掩埋生活垃圾的处理方式改为焚烧。	2024 年 1 月已开始执行
		取消餐厅原使用的液化石油气，改采用电能。	已完成，2023 年预计减少范畴一的碳排放量 10 吨 CO2e。
		透过使用自动裁剪机提高材料利用率，减少报废量。並重复使用如包材纸箱等可重复利用之材料。	执行中
越南厂 (APH)	使用再生能源	采购非捆绑式再生能源凭证 (Unbundled EACs)	已完成。I-REC 的发电容量在 2023 年达到 3,550 MW，并于 2024 年增至 5,500 MW。
	能资源使用	透过能源稽核计划，评估使用情况，识别改善机会并提出节能与效率提升方案。	已完成。
		试行能源管理系统 (EMS)，以自动化实时监控数据，识别高能耗区域并提升效率。	进行中，已完成能源消耗数据分析，现测试能源效率提升方案。
		安装空气进气系统，降低压缩室温度，提高压缩机效率。	2023 年已完成，年节省能源效率达 149,536.8 兆焦耳。
		定期检查与维护空气压缩机系统、阀门、管道及连接处，修复损坏部分并提供定期培训，防止错误操作。同时，解决变压器电容器问题。	已完成，年节省能源效率分别达 218,412 与 257,814 兆焦耳。
	废弃物管理与转换	提高废弃物回收率并将废弃物转化为可用能源	执行中，2023 年废弃物转移率达 99.98%。同时，将废弃物转化为能源，2023 年共减少 1,026 吨二氧化碳排放。
提升员工减碳意识与行为养成	开展节能宣传活动与培训，提高员工意识。并指派各区域负责人管理灯光开关，确保在无人工作或无须照明的区域关闭灯光。	执行中，年节省能源效率达 28,256.4 兆焦耳。	
印度厂 (APC)	使用再生能源	与电力公司签订直购电协议 (PPA)，扩建 2.5MW 的屋顶太阳能发电系统。	原已于 2021 年装设 1.97MW 的屋顶太阳能，现持续发电使用中。另，规划签订协议拟于 2025 年 4 月完成。
	能资源使用	采购 2024 年度的再生能源绿证 (I-REC)	已购买 1500 张绿证，相当于 1,500,000kWh。
		逐步更新目前厂区所使用设备，以优化能资源使用並降低碳排，规划方案如下： 1. 针对餐厅需求，改用电炊具烹饪，以避免使用液化石油气。 2. 已采购以电力驱动的电热压模具机，并规划持续增加采购数量。	执行中，预计于 2025 年 3 月底前完成。
		3. 工厂将根据需求，逐步替换高能耗设备和叉车，以减少碳排。	执行中，预计于 2025 年底前实行。
购买商品与服务	积极推动商品与原物料的在地化采购	执行中，未来将持续最大化本地供应商的比例。	
	积极推动永续供应链策略，确保供应商承诺生产更永续、可回收与翻新之产品。并积极协助制定减碳计画，监测碳足迹，以减少能源消耗与碳排放。	规划中，预计自 2025 年实行，将重点聚焦于减少碳足迹。	

第三方温室气体核查声明书

Statement of Conformity CN24/00007421

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in 01 Jan. 2023 to 31 Dec. 2023 of

APACHE FOOTWEAR LIMITED

Business address: Taiping Industrial Park, Qingxin District, Qingyuan City, Guangdong
Organization boundary: Detail organization boundary information has been listed in Annex, for multi-site statement

has been verified in accordance with ISO 14064-3:2019 as meeting the requirements of

ISO 14064-1:2018

Direct Emissions [Category 1]
11,996.65 tonnes of CO₂e

Indirect Emissions from Imported Energy [Category 2]
43,995.26 tonnes of CO₂e

Indirect Emissions from Transportation [Category 3]
29,232.34 tonnes of CO₂e

Indirect Emissions from Products Used by An Organization [Category 4]
176,311.82 tonnes of CO₂e

Indirect Emissions Associated with The Use of Products from The Organization [Category 5]
3,881.35 tonnes of CO₂e

Indirect Emissions from Other Sources [Category 6]
[be determined as non-significant indirect emissions and not quantified]


Total Emissions Quantified
265,417.43 tonnes of CO₂e


Authorised by
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Sr. Director - Business Assurance
DATE: 05 Nov. 2024

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Several statements have been issued for this scope, this is main statement
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SGS has been contracted by APACHE FOOTWEAR LIMITED (hereinafter referred to as "CLIENT"), for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by APACHE FOOTWEAR LIMITED (hereinafter referred to as "RESPONSIBLE PARTY"), in the Greenhouse Gas (GHG) Assertion in the form of GHG Report covering GHG emissions of the period 01 Jan. 2023 to 31 Dec. 2023 (hereinafter referred to as "REPORT PERIOD").

Roles and responsibilities
The management of the RESPONSIBLE PARTY is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.
It is SGS's responsibility to express an independent GHG verification opinion on the GHG statement as provided by the RESPONSIBLE PARTY for the REPORT PERIOD.

According to ISO 14064-3:2019, SGS has conducted a third-party verification of the provided GHG statement by RESPONSIBLE PARTY against the requirements of ISO 14064-1:2018 in the period 28 Oct.-05 Nov. 2024. The verification is based on the verification scope, objectives and criteria as agreed between the CLIENT and SGS on 28 Oct. 2024.

Level of Assurance
The level of assurance agreed is that of Reasonable assurance.

Scope
The CLIENT has commissioned an independent verification by SGS in according to ISO 14064-3:2019 to assure the reported GHG emissions of RESPONSIBLE PARTY, in conformance with ISO 14064-1:2018 requirements within the scope of the verification as outlined below. The data and information supporting the GHG statement is historical in nature.

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary:

- The organizational boundary is established following Operational control approach
- Location/boundary of the activities: detail boundary information has been listed in Annex
- Physical infrastructure, activities, technologies and processes: Design, development and manufacturing of sports shoes
- GHG sources, sinks and/or reservoirs included: GHG sources as presented in the GHG inventory and report of the RESPONSIBLE PARTY
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- GHG information for the following period was verified: 01 Jan. 2023 to 31 Dec. 2023
- GWP adopted: IPCC 6 Assessment Report.
- Intended user of the verification statement: Private user.

Objective
The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG statement

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第三方温室气体核查声明书



- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Criteria

Criteria against which the verification assessment is undertaken are the requirements of ISO 14064-3:2019.

Materiality

The materiality required of the verification is considered by SGS to 5%, based on the needs of the intended user of the GHG statement.

Verification approach

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions

We plan and perform our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the GHG emissions for the REPORT PERIOD are fairly stated.

We conduct our verification with regard to the GHG statement of GHG Report of the RESPONSIBLE PARTY which includes assessment of GHG information system and reporting plan/protocol. This assessment includes the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, are consistently and appropriately applied.

Verification opinion conclusion

The RESPONSIBLE PARTY provided the GHG statement based on the requirements of ISO 14064-1:2018 that total emission 265,417.43 tonnes of CO₂e in the organization boundary for the REPORT PERIOD.

The verification opinion as below is issued by SGS after an independent verification for RESPONSIBLE PARTY's GHG statement base on agreed Reasonable assurance:

Unmodified

The GHG statement submitted by RESPONSIBLE PARTY is prepared in accordance with ISO 14064-1:2018 on GHG quantification and reporting, is a fair representation materially, the GHG data and information in statement are explicit and supported by adequacy and appropriate evidence.

Modified

The GHG statement submitted by RESPONSIBLE PARTY has no material misstatement, however has some deficiencies which will prevent the issuance of unmodified verification opinion.

Adverse opinion

The GHG statement submitted by RESPONSIBLE PARTY:

- has no material misstatement or
- there is insufficient or inappropriate evidence to support an unmodified or modified opinion.

Disclaiming the issuance of an opinion

It is unable to obtain sufficient and appropriate objective evidence to form an opinion as to whether the GHG statement submitted is presented fairly in accordance with



ISO 14064-1:2018

This statement shall be interpreted with the GHG statement of GHG Report of the RESPONSIBLE PARTY as a whole.

Note: This Statement is issued by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Greenhouse Gas Validation & Verification Services. The findings recorded hereon are based upon a verification performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted from RESPONSIBLE PARTY. This Statement does not relieve Client from compliance with any by laws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client. The verification statement of greenhouse gases is concluded in English. Any translation differences, the English version shall prevail.

Annex

Multi-site Organizational Boundaries List

	Organization Name	Description of organizational boundaries
Headquarter	APACHE FOOTWEAR LTD. (QINGXIN)	Taiping Industrial Park, Qingxin District, Qingyuan City, Guangdong, P.R. China Lot No. 71A, 72A, 78A, 79, 102, 103A, 127B, 128A, 128B, 128C (Referred to as Lot No. 79), Long Giang Industrial Park, Tan Lap 1 Commune, Tan Phuoc District, Tien Giang Province
Site 1	APACHE FOOTWEAR VIET NAM CO., LTD	Apache SEZ zone, Mambattu village, Tada mandal, Sullurupeta, Tirupati district, Andhra Pradesh, INDIA
Site 2	APACHE FOOTWEAR INDIA PVT LTD	

数位化永续管理指企业利用智慧化系统、数据分析及智能技术作为工具，以实践并加强永续发展目标。透过导入智能技术以实现智慧工厂，企业能够更有效地管理和利用能资源，提升运营效率，并降低对环境的影响。例如，工厂可以实时监测能源、水资源及其他资源的消耗，并以可视化数据进行分析，配合自动警示系统来即时调整能资源使用，以实现资源最小化浪费与效益最大化的目标。

如右图所示，透过四步骤执行数位永续管理：**数据收集**、**即时监测与示警**、**数据分析与决策制定**，**最终达能资源效率的优化**。此流程帮助企业在决策过程中利用精确数据和即时资讯，支持领导层做出更具可持续性、符合未来需求的决策，同时强化供应链管理并提高透明度。此管理方式有助于企业达成环境永续目标，也实现成本节省和竞争优势，进一步提升企业在全市场中的绿色形象与责任感。以下列举万邦在数位化永续管理方面的实践。



<p>数据化平台，可视化管理</p> <p>引进智慧化能源管理系统，透过数据化平台即时监控能源使用状况，优化能源分配，降低浪费并确保用电安全。</p>	<p>智慧化管理有效追踪</p> <p>透过智慧化管理，能有效追踪废弃物流向，确保处理过程透明合规，推动环境永续的同时也提升管理效率。</p>	<p>水资源管理</p> <p>透过定期追踪用水量、分析流量、主动侦测水泄漏与自动切断阀门等措施，提升用水效率与永续循环使用。</p>	<p>VOC 管理</p> <p>通过即时监测与记录空气排放数据、自动异常警示等功能，助于及时采取应变措施，有效提升空气质量与管理效率，确保永续合规。</p>



APACHE

FOOTWEAR GROUP