

## Summary of Carbon Footprint for Listed Companies 上市公司碳足跡摘要

### Part 1 Reporting Entity Information

#### 第一部分 報告機構資料

#### 1.1 Company information 公司資料

**Name of reporting entity:** Eng: Geely Automobile Holdings Limited  
**報告機構名稱:** 中文: 吉利汽車控股有限公司

**Stock code:** 175  
**股份代號:**

**Hang Seng Industry Classification 恆生行業分類 (HSIC)** (Please see [Appendix](#)/ 請參考[附件](#)):

(i) **Industry:** (e.g. Financials – 50) 23  
**行業:** (例如: 金融業 – 50)

(ii) **Sector:** (e.g. Banks – 5010) 231  
**業務類別:** (例如: 銀行 – 5010)

#### 1.2 Basis of information reported in this form (e.g. weblink(s) to the carbon audit report, GHG accounting report, Environmental, Social and Governance report (ESG report) or sustainability report (GHG emission-related chapter) of the reporting entity, etc)

報告內容的基礎 (例如: 報告機構的碳審計報告、溫室氣體排放核算報告、「環境、社會及管治報告」或可持續發展報告(與溫室氣體排放有關的章節)之網絡連結等):

2019 CSR Report (Chinese version):

[https://www1.hkexnews.hk/listedco/listconews/sehk/2020/0422/2020042200620\\_c.pdf](https://www1.hkexnews.hk/listedco/listconews/sehk/2020/0422/2020042200620_c.pdf)

2019 CSR Report (English version) :

<https://www1.hkexnews.hk/listedco/listconews/sehk/2020/0422/2020042200619.pdf>

Part 2 Greenhouse Gas (GHG) Emissions 第二部分 溫室氣體排放		
2.1 GHG Emission Data 溫室氣體排放數據		
Reporting period (yyyy/m/d): 報告期(年/月/日):	2019/1/1 to/至 2019/12/31	
GHG Accounting Standard / Guideline: 溫室氣體核算標準 / 指引:	<input type="checkbox"/> EPD/ EMSD Guidelines 環境保護署/ 機電工程署指引 <input type="checkbox"/> GHG Protocol 溫室氣體議定書 <input checked="" type="checkbox"/> International Organization for Standardization (ISO) 14064 國際標準化組織 (ISO) 14064 <input type="checkbox"/> Others, please specify: (其他, 請說明:)	
Operational boundary 營運邊界 <sup>1</sup> :	Brief description on emission sources 排放來源簡述	Emission data 排放數據
Scope 1 範圍 1:	GHG emissions (Scope 1) include direct emissions from car testing and energy-consuming equipment, such as incinerators, boilers, and in 12 plants of Ningbo, Hangzhou Bay, Chunxiao, Guiyang, Chengdu, Xiangtan, Jinzhong, Baoji, Luqiao, Linhai and Zhangjiakou. 範圍一溫室氣體排放量包括寧波、杭州灣、春曉、貴陽、成都、湘潭、晉中、寶雞、路橋、臨海和張家口12個工廠的焚燒爐、鍋爐等耗能設備及測試汽車產生的直接排放量	141,099.52 tonnes CO <sub>2</sub> -e 公噸二氧化碳當量
Scope 2 範圍 2:	GHG emissions (Scope 2) include indirect emissions from purchased electricity and steam in 12 plants of Ningbo, Hangzhou Bay, Chunxiao, Guiyang, Chengdu, Xiangtan, Jinzhong, Baoji, Luqiao, Linhai and Zhangjiakou. 範圍二溫室氣體排放量包括寧波、杭州灣、春曉、貴陽、成都、湘潭、晉中、寶雞、路橋、臨海和張家口12個公司的外購電力、蒸汽產生的間接排放量	418,179.98 tonnes CO <sub>2</sub> -e 公噸二氧化碳當量
Scope 3 範圍 3:	N/A	N/A tonnes CO <sub>2</sub> -e 公噸二氧化碳當量
Reported GHG emissions in total: 所報告的溫室氣體排放總和:	559,279.5 tonnes CO <sub>2</sub> -e / 公噸二氧化碳當量	
2.2 Company related information 與公司有關的資料		
Total number of full-time-equivalent employees of the entity(s) covered in the reported GHG emission data during the reporting period: 報告期內溫室氣體排放數據所涵蓋機構的相等於全職僱員總人數:	42,785	
Total gross floor area owned/controlled by the entity(s) covered in the reported GHG emission data during the reporting period (m <sup>2</sup> ): 報告期內溫室氣體排放數據所涵蓋機構擁有/ 控制的總樓面面積(平方米):	N/A	
Total revenue of the entity(s) covered in the reported GHG emission data during the reporting period (HK\$ million): 報告期內溫室氣體排放數據所涵蓋機構的總收入(百萬港元):	RMB 97.4 billion	

Other information which is relevant to the entity's business operations covered in the reported GHG emissions during the reporting period, please specify (e.g., total no. of passengers, total no. of customers, total unit of goods produced, total no. of hotel rooms occupied, total kWh electricity generated, or total measures of freight load, etc.):

N/A

報告期內溫室氣體排放數據所涵蓋機構的其他有關營運資料，請說明  
(例如：乘客總人數、顧客總人數、製成產品總數量、酒店入住房間總數、總發電量(千瓦/小時)  
或貨運總量等):

**2.3. Geographical coverage of reported GHG emission data 所報告的溫室氣體排放數據地域範圍:**

Operations within Hong Kong 香港以內的營運

Operations outside Hong Kong (Please specify city(ies)/country(ies)): Ningbo, Hangzhou Bay, Chunxiao, Guiyang, Chengdu, Xiangtan, Jinzhong, Baoji, Luqiao, Linhai and Zhangjiakou  
香港以外的營運 (請說明城市/國家名稱): 寧波、杭州灣、春曉、貴陽、成都、湘潭、晉中、寶雞、路橋、臨海和張家口

Please also specify the percentage of GHG emissions arising from Hong Kong operations: 0%  
請同時說明由香港營運所產生的溫室氣體百分比:

Subsidiaries  
附屬公司

Please list out the subsidiaries covered in the GHG emission data during the reporting period:  
請列出報告期內溫室氣體排放數據所涵蓋的附屬公司:

Additional information on physical boundary in relation to GHG emission reported (if applicable):

與所報告的溫室氣體排放數據相關之建築物邊界的附加資料(如適用):

N/A

## Part 3 GHG Emission Reduction Measures, Future Initiatives and Targets

### 第三部分 減少溫室氣體排放的措施、未來計劃及目標

#### 3.1 GHG emission reduction measures implemented during the Reporting Period\*

##### 在報告期內減少溫室氣體排放的措施\*

No. 列序	GHG Emission Reduction Measures 減少溫室氣體排放的措施
1.	<p>Implementing the responsibility system for emissions reduction 實行減排工作責任制</p> <p>We actively implement the responsibility system for emissions reduction, so as to manage energy conservation and emissions reduction and climate change issues. The Office of Safety and Environmental Protection (OSEP) tracks and evaluates the potential real-time impacts of new environmental protection laws and regulations on Geely's environmental management work, formulates corresponding measures and reports to The Office of Board of Directors (OBOD) for approval. The Manufacture Engineering (ME) Centre's manufacturing planning department is responsible for preparing the energy management structure, online management of energy, and planning projects for solar photovoltaic (PV) power generation and new energy battery energy storage. Actively construct environmental management system and energy management system, and conduct self assessment at least once a year in response to climate change issues such as energy-saving and emission reduction.</p> <p>我們積極推進減排工作責任制，以此管理節能減排和氣候變化事項。安全環保部即時跟蹤評估新的環保法律法規對吉利環境管理工作的潛在影響，制定相應的措施並上報董事局辦公室審批。ME 中心製造規劃部負責能源管理架構的編制，能源的線上管理以及太陽能光伏發電和新能源蓄電池儲能專案的規劃。積極開展環境管理體系和能源管理體系的建設工作，針對節能減排等應對氣候變化事項，每年至少進行一次內部審核。</p>
2.	<p>Promoting shared transport modes such as "Cao Cao" and "Star Rides" 推動“曹操出行”、“耀出行”等共用出行方式</p> <p>As early as 2015, we strongly promoted Cao Cao, an Internet+ travel platform, and provided it new energy vehicles (NEVs) and services support, adhered to the operating model of "new energy vehicle + enterprise owned and operationed taxis + certified driver". In 2019, Cao Cao has gradually expanded its service to 167 million people with a service distance accumulated over 1.48 billion km, reduced 210,000 tonnes of carbon emissions.</p> <p>早在2015年，我們大力推動曹操專車這一互聯網+出行平臺，並為其提供新能源汽車產品及服務的支持，堅持「新能源汽車+公車公營+認證司機」的運營模式。2019年，曹操出行全年累計服務1.67億人次，全年累計行駛里程超過14.8億公里，全年累計碳減排量21萬噸。</p>
3.	<p>Broaden new product line: high-end, pure electric Geometry brand 拓寬新產品線：高端純電幾何品牌</p> <p>In 11 April, 2019, Geely launched the highend, pure electric Geometry Brand in Singapore, of which the first model, the Geometry A, a pure electric car model, made the global listing. In the aspects of high-dimensional safety, high-order design, high-touch technology and high-energy endurance, the Geometry A has redefined the standards for A Grade, pure electric cars. The high-energy, extreme endurance version of Geometry A is capable of reaching the New European Driving Cycle (NEDC) comprehensive road conditions for 500km continuously, expending only 13.5 kW/h over 100 km. To ensure the high-battery use performance, Geometry A utilises Geely's new energy, smart engine and pure electric technology to conduct a live monitoring of battery and electric machinery system, and regulate car temperatures within the range of -30oC and 50oC, eliminating the challenge of travel in extreme weather conditions. On average, the Geometry A car series support 5 different charging modes and the fastest charging requires only 30 minutes for a 30-80% charge.</p> <p>2019年4月11日，吉利在新加坡發布高端純電品牌幾何。旗下首款高性能純電車型幾何A全球上市，在高維安全、高階設計、高感科技、高能續航等方面，全新定義A級純電動轎車標準。高能超長續航版幾何A可實現新標歐洲循環測試（NEDC）綜合工況續航里程500km，百公里電耗僅13.5kWh。為確保電池的高效運行，幾何A應用吉利新能源智擎純電技術，可即時監測電池和電機系統，在零下30°到零上55°溫度區間實現智慧溫控，解決極端天氣出行難題。幾何A全系車型均支持5種充電模式，最快僅需0.5小時即可完成30%-80%的電量。</p> <p>Broaden new product line: Achieved bulk production of the well-praised 48V mild hybrid electric vehicle 拓寬新產品線：實現48V輕型混合動力電動汽車（MHEV）量產</p>

	<p>Geely is one of the earliest Chinese brands to fulfil 48V mild, hybrid electric vehicle (MHEV) production numbers and have successful ridden on the Borui GE, Jiaji and Xingyue car models to cover the 3 big product line of sedans, SUV and MPV. Using the luxury car testing standards adopted by Volvo as a basis, Geely has developed a corresponding examination procedure for MHEV. At present, Geely has accumulated more than 7.58 million km of road examination data and 500,000 hours of examination to ensure that the R&amp;D of the MHEV technology is supported by strong and reliable data. At the same time, we fine-tuned the engine power output based on our unique big database of the Chinese road conditions to aggressively pursue lowest energy consumption and emissions, thereby tailoring the most exhilarating driving experience for the user.</p> <p>吉利是最早實現48V 輕型混合動力電動汽車（MHEV）量產的中國品牌，已在博瑞 GE、嘉際和星越等車型成功搭載，覆蓋轎車、SUV 和 MPV 三大產品線。在富豪所採用的豪華車試驗標準基礎上，吉利開發了相應的 MHEV 驗證規程。目前，已累積758 萬公里等效道路驗證資料，5 萬小時等效測試時長，為 MHEV 技術研發提供強有力的資料支撐。同時，我們基於吉利獨有的中國工況大資料進行動力調校，致力於用最低的能耗、最低的排放，為用戶量身打造最具愉悅感的駕駛體驗。</p>
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**3.2 GHG emission reduction measures for future initiatives and targets\***  
**為未來計劃及目標而制訂的減少溫室氣體排放措施\***

No. 列序	Future Initiatives 未來計劃	Target GHG Reduction (Qualitative/ Quantitative) 減排目標 (性質/ 數量)
1.	Technology Improvement 技術革新	<p>Geely goes all out to create the system for new energy powered smart engine covering 4 main technology channels – electric, hybrid, combustion replacement and hydrogen fuel batteries technologies – and realising a new preliminary transition from following existing technology to leading advances in technology.</p> <p>吉利全力打造智擎新能源動力系統，涵蓋純電技術、混動技術、替代燃料以及氫燃料電池四大技術路徑，初步實現從技術跟隨到技術引領的新跨越。</p>
2.	Implementing solar photovoltaic power generation projects 實施太陽能光伏發電專案	<p>Geely implements solar photovoltaic power generations projects. The cumulative installed capacity of distributed PV generation projects exceeds 100MW, with an annual power generation over 100 million kilowatt-hours, which reduced emissions of ca. 10,000 tonnes of CO2. Meanwhile, Geely's new energy power batteries are recycled for cascade utilisation, e.g., the batteries will be further utilised in the planned energy storage systems in the PV generation projects. In this way, the residual value of the recycled new energy power batteries is fully utilised. With the implementation of the PV generation projects at Geely's old and new base parking lots, the total installed PV capacity is expected to reach 300 MW by 2022.</p> <p>吉利實施太陽能光伏發電專案。分散式光伏發電專案累計裝機容量超過100MW，年發電量超1 億千瓦時，減排二氧化碳約10 萬噸。同時，回收吉利新能源動力蓄電池進行梯級利用，配套光伏發電專案規劃儲能系統，充分利用新能源動力蓄電池的剩餘價值。隨著新老基地停車場光伏發電專案的實施，預計至2022 年總裝機可300MW。</p>
3.		

\*Please use separate sheet(s) where the space provided in the form is not sufficient 如表格內提供的空位不足夠，請另加紙張填寫

**Part 4 Renewable Energy**  
**第四部分 可再生能源**

**4.1 Feed-in Tariff (FiT) Scheme**  
**上網電價計劃**

<b>Has your company joined the FiT Scheme?</b> 是否已參與上網電價計劃?	<input type="checkbox"/> Yes – please fill in the blanks below 是 – 請填寫以下空格 <input checked="" type="checkbox"/> No 否
<b>Renewable Technology</b> 可再生能源技術	<input type="checkbox"/> Solar 太陽能 <input type="checkbox"/> Wind 風能 <input type="checkbox"/> Others (Please Specify) 其他(請註明) _____
<b>Generation Capacity</b> 發電容量	kW 千瓦

**4.2 Renewable Energy (RE) Certificate**  
**可再生能源證書**

<b>Has/Have RE Certificate(s) been purchased?</b> 有否購買可再生能源證書?	<input type="checkbox"/> Yes – please fill in the blanks below 有 – 請填寫以下空格 <input checked="" type="checkbox"/> No 沒有	
<b>Purchased from</b> 購自	The Hongkong Electric Co., Ltd 香港電燈有限公司  <input type="checkbox"/>	CLP Power Hong Kong Ltd 中華電力有限公司  <input type="checkbox"/>
<b>Amount of Electricity Purchased</b> 購買的電量	kWh 千瓦時	kWh 千瓦時

Part 5 Verification 第五部分 核證																																					
5.1 Verification information 核證資料																																					
<b>Has verification<sup>2</sup> been conducted?</b> 是否曾經進行核證？	<input checked="" type="checkbox"/> Yes – please fill in the blanks below 是 – 請填寫以下空格 <input type="checkbox"/> No 否																																				
<b>Verification body 核證機構:</b>	ISO14064-1认证: 中國品質中心 ISO14001认证: Please refer to below information																																				
<b>Verification standard:</b> 核證標準:	<input type="checkbox"/> International Organization for Standardization (ISO) 14064-3:2006 - Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions 國際標準化組織 (ISO) 14064-3:2006 – 溫室氣體 - 第3部分: 溫室氣體確定的證實和驗證的規範與指南																																				
	<input checked="" type="checkbox"/> Others, please specify: 其他 (請說明):																																				
	1. ISO 14064-1:2006 Specifies principles and requirements at the organization level for quantification and reporting of greenhouse gas (GHG) emissions and removals 2. ISO 14001 Environmental management systems																																				
<b>Date of verification (yyyy/m/d):</b> 核證日期 (年/月/日):	2012/2/27																																				
<b>Remarks (e.g. various verification status for different subsidiaries):</b> 備註(例如: 各附屬公司的核證情況):	<p>以下是位於寧波、杭州灣、春曉、貴陽、成都、湘潭、晉中、寶雞、路橋、臨海的附屬公司及位於張家口的合資公司有關ISO14001之認證情況：</p> <table border="1"> <thead> <tr> <th>地區</th> <th>認證時間</th> <th>認證機構</th> </tr> </thead> <tbody> <tr> <td>寧波</td> <td>15/9/2018</td> <td>上海品質體系審核中心</td> </tr> <tr> <td>杭州灣</td> <td>6/7/2018</td> <td>上海品質體系審核中心</td> </tr> <tr> <td>春曉</td> <td>22/12/2019</td> <td>上海品質體系審核中心</td> </tr> <tr> <td>貴陽</td> <td>9/6/2019</td> <td>Intertek Certification Limited</td> </tr> <tr> <td>成都</td> <td>16/5/2018</td> <td>四川三峽認證有限公司</td> </tr> <tr> <td>湘潭</td> <td>12/10/2018</td> <td>天津華城認證有限公司</td> </tr> <tr> <td>晉中</td> <td>8/2/2018</td> <td>天津華城認證有限公司</td> </tr> <tr> <td>寶雞</td> <td>8/12/2018</td> <td>上海品質體系審核中心</td> </tr> <tr> <td>路橋</td> <td>15/9/2018</td> <td>上海品質體系審核中心</td> </tr> <tr> <td>臨海</td> <td>13/9/2018</td> <td>天津華城認證有限公司</td> </tr> <tr> <td>張家口</td> <td>7/11/2018</td> <td>華夏認證中心有限公司</td> </tr> </tbody> </table>	地區	認證時間	認證機構	寧波	15/9/2018	上海品質體系審核中心	杭州灣	6/7/2018	上海品質體系審核中心	春曉	22/12/2019	上海品質體系審核中心	貴陽	9/6/2019	Intertek Certification Limited	成都	16/5/2018	四川三峽認證有限公司	湘潭	12/10/2018	天津華城認證有限公司	晉中	8/2/2018	天津華城認證有限公司	寶雞	8/12/2018	上海品質體系審核中心	路橋	15/9/2018	上海品質體系審核中心	臨海	13/9/2018	天津華城認證有限公司	張家口	7/11/2018	華夏認證中心有限公司
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<sup>1</sup> GHG emissions (direct and indirect) and removals in relation to the buildings can be broadly classified into three separate scopes as below –

- Scope 1 – direct emissions and removals;
- Scope 2 – energy indirect emissions; and
- Scope 3 – other indirect emissions.

The definitions of Scopes 1, 2 and 3 emissions can be found in the “Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong (2010 Edition)”

與建築物有關的溫室氣體排放 (直接或間接) 及減除, 可概括分為以下三個不同的範圍 –

- 
- 範圍 1 -- 直接溫室氣體排放及減除；
  - 範圍 2 -- 使用能源間接引致的溫室氣體排放；以及
  - 範圍 3 -- 其他間接溫室氣體排放。

有關溫室氣體排放範圍 1、2及3的定義，可參照《香港建築物(商業、住宅或公共用途)的溫室氣體排放及減除的核算和報告指引》(2010年版)

2 The reporting entity is encouraged to carry out verification of the GHG emissions by an independent verifier. Independent verification of GHG emissions can facilitate the management to have better understanding of the carbon footprint of the company's operation and identify areas for improvement, provide credibility and quality assurance on the disclosure of carbon footprint, and enhance the corporate image in respect of transparency and accountability. In December 2012, the Hong Kong Accreditation Service (HKAS) introduced accreditation service for ISO 14064 GHG validation and verification for validation/verification bodies' voluntary application. Accredited validation/verification bodies' technical competence is rigorously assessed by HKAS, so that the reliability of their results can be assured. Relevant HKAS-accredited validation/verification bodies, once available, will be announced at HKAS's website at:

<http://www.itc.gov.hk/en/quality/hkas/hkcas/about.htm>.

我們鼓勵報告機構聘請獨立核證人核證溫室氣體排放，溫室氣體排放的獨立核證能促使管理層對公司營運引致的碳足跡有更好的了解，並找出可作改善的地方；此舉亦為所披露的碳足跡資料提供可信性和質量保證，在透明度和問責層面提升企業形象。2012年12月香港認可處就 ISO 14064 審定和核查推出認可服務，供審定/核查機構自願申請。獲認可審定/核查機構的技術能力由香港認可處進行嚴格評審，因此能確保其審定/核查結果更為可靠。當有獲香港認可處認可的相關審定/核查機構，將在香港認可處網站公布：<http://www.itc.gov.hk/ch/quality/hkas/hkcas/about.htm>。



**Hang Seng Industry Classification 恒生行業分類****Industry 行業**

Energy 能源業 – 00
Materials 原材料業 – 05
Industrials 工業 – 10
Consumer Discretionary 非必需性消費 – 23
Consumer Staples 消費者服務業 – 25
Healthcare 醫療保健業 – 28
Telecommunications 電訊業 – 35
Utilities 公用事業 – 40
Financials 金融業 – 50
Properties & Construction 地產建築業 – 60
Information Technology 資訊科技業 – 70
Conglomerates 綜合企業 – 80

**Sector 業務類別**

Oil & Gas 石油及天然氣 – 0010
Coal 煤炭 – 0020
Gold & Precious Metals 黃金及貴金屬 – 0510
Diversified Metals & Minerals 一般金屬及礦石 – 0520
Basic Materials 原材料 – 0530
Industrial Engineering 工業工程 – 1010
Industrial Transportation 工用運輸 – 1020
Commercial & Professional Services 工用支援 – 1030
Automobiles 汽車 – 2310
Household Goods & Electronics 家庭電器及用品 – 2320
Textiles, Clothing 紡織及服飾 – 2330
Travel & Leisure 旅遊及消閒設施 – 2340
Media & Entertainment 媒體及娛樂 – 2350
Support Services 支援服務 – 2360
Specialty Retail 專業零售 – 2370
Food & Beverages 食物飲品 – 2510
Agricultural Products 農業產品 – 2520
Consumer Staple Retailers 消費者主要零售商 – 2530
Pharmaceuticals & Biotechnology 藥品及生物科技 – 2810
Healthcare Equipment & Services 醫療保健設備和服務 – 2820
Telecommunications 電訊 – 3500
Utilities 公用事業 – 4000
Banks 銀行 – 5010
Insurance 保險 – 5020
Other Financials 其他金融 – 5030
Properties 地產 – 6010
Construction 建築 – 6020
IT Hardware 資訊科技器材 – 7010
Software & Services 軟件服務 – 7020
Semiconductors 半導體 – 7030
Conglomerates 綜合企業 – 8000

Source: Hang Seng Indexes (<http://www.hsi.com.hk/HSI-Net/HSI-Net>)來源: 恆生指數 (<http://www.hsi.com.hk/HSI-Net/HSI-Net>)