



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

| Part 1 Reporting Entity Information<br>第一部分 報告機構資料   |   |
|--|---|
| <b>1.1 Company information 公司資料</b>  |   |
| <b>Name of reporting entity:</b><br>報告機構名稱:  | Eng: Lenovo Group Limited<br>中文: 聯想集團有限公司 |
| <b>Stock code:</b><br>股份代號:  | 992                                       |
| <b>Hang Seng Industry Classification 恆生行業分類 (HSIC)</b> (Please see <a href="#">Appendix</a> / 請參考 <a href="#">附件</a> ):  |   |
| (i) <b>Industry:</b> (e.g. Financials – 50)<br>行業: (例如: 金融業 – 50)  | 70  |
| (ii) <b>Sector:</b> (e.g. Banks – 5010)<br>業務類別: (例如: 銀行 – 5010)   | 701                                       |
| <b>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)</b><br>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):  |   |
| <p><a href="http://www.lenovo.com/environment">http://www.lenovo.com/environment</a> ... “Combating Climate Change” section</p> <p><a href="http://www.lenovo.com/sustainability">http://www.lenovo.com/sustainability</a> ... Lenovo’s Sustainability/ESG Reports ... “Planet” section ... “Environmental Impact of Lenovo Operations” subsection (energy, climate change, energy efficiency, renewable energy, renewable energy commodities and carbon offsets, GHG emissions performance, etc.)</p> <p><a href="http://www.lenovo.com/climate">http://www.lenovo.com/climate</a> ... Lenovo’s Climate Change website</p> <p><a href="https://www.lenovo.com/us/en/social_responsibility/climate_policy/">https://www.lenovo.com/us/en/social_responsibility/climate_policy/</a> ... Lenovo’s Climate and Energy Policy</p> <p><a href="https://www.lenovo.com/us/en/social_responsibility/climate/plan/">https://www.lenovo.com/us/en/social_responsibility/climate/plan/</a> ... Lenovo's Climate Change Strategy and Objectives &amp; Targets</p> <p><a href="https://static.lenovo.com/ww/docs/sustainability/19.20-ghg-and-energy-verification-statement.pdf">https://static.lenovo.com/ww/docs/sustainability/19.20-ghg-and-energy-verification-statement.pdf</a> ... Lenovo's FY19/20 GHG and Energy verification statement</p> |   |

| Part 2 Greenhouse Gas (GHG) Emissions<br>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):<br>報告期 (年/月/日):   | 2019/04/01 to/至 2020/3/31   |  |
| GHG Accounting Standard / Guideline:<br>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<br><input checked="" type="checkbox"/> GHG Protocol 溫室氣體議定書<br><input checked="" type="checkbox"/> International Organization for Standardization (ISO) 14064 國際標準化組織 (ISO) 14064<br><input type="checkbox"/> Others, please specify: (其他, 請說明:) |  |
| Operational boundary<br>營運邊界 <sup>1</sup> :  | Brief description on emission sources<br>排放來源簡述   | Emission data<br>排放數據  |
| Scope 1 範圍 1:  | Fuels used in generators, cafeterias, owned vehicles and refrigerants used in chillers, AC systems, etc   | 7,766 tonnes CO <sub>2</sub> -e<br>公噸二氧化碳當量  |
| Scope 2 範圍 2:  | Purchased electricity, steam and cooling used for lighting, power, cooling and heat   | 162,597 (location based)<br>23,852 (market based)<br>tonnes CO <sub>2</sub> -e<br>公噸二氧化碳當量 |
| Scope 3 範圍 3:  | Purchased goods and services, fuel and energy related activities, waste generated in operations, business travel, employee commute, product transport, use of sold products, end of life of sold products and capital goods   | 17,530,795 tonnes CO <sub>2</sub> -e<br>公噸二氧化碳當量   |
| Reported GHG emissions in total:<br>所報告的溫室氣體排放總和:  | <b>17,701,158 (including Scope 2 - location based)</b><br><b>17,562,413 (including Scope 2 - market based)</b><br>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:<br>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:  | Approximately 64,000 (including contractors)  |  |
| 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> ):<br>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):   | Approximately 1,927,000   |  |
| Total revenue of the entity(s) covered in the reported GHG emission data during the reporting period (HK\$ million):<br>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):   | ~HK\$393,178 million (at the ex rate of USD1=HKD7.7525)   |  |
| 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.):<br>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): | Approximately 67,900,000 (units of production)  |  |
| 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:   |   |  |
| <input checked="" type="checkbox"/> Operations within Hong Kong 香港以內的營運<br><input checked="" type="checkbox"/> Operations outside Hong Kong (Please specify city(ies)/country(ies)): Global operations including manufacturing and R&D in China, Taiwan, Germany, India, Japan,  |   |  |

香港以外的營運 (請說明城市/國家名稱): Mexico, Brazil, United States and offices located worldwide

Please also specify the percentage of GHG emissions arising from Hong Kong operations: Less than 1%  
請同時說明由香港營運所產生的溫室氣體百分比:

|  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsidiaries<br>附屬公司 | Please list out the subsidiaries covered in the GHG emission data during the reporting period:<br>請列出報告期內溫室氣體排放數據所涵蓋的附屬公司:<br>Please refer to pages 282 to 289 in our FY 2019/20 Annual Report<br>( <a href="https://doc.irasia.com/listco/hk/lenovo/annual/2020/ar2020.pdf">https://doc.irasia.com/listco/hk/lenovo/annual/2020/ar2020.pdf</a> ) for principal subsidiaries |
|--|--|

**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):

**Boundary in a scope of operational control approach.**

## 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.     | Lenovo implemented approximately 16 new energy-efficiency projects that contributed to the GHG reductions. As an example, lightning replacement and upgrade, air compressors improvement, HVAC upgrade, solar panels installation and retrocommissioning. These new projects will contribute approximately US\$201,000 in savings and reduce energy consumption by over 7,000 MWh annually. It is estimated that the total annual CO <sub>2</sub> e savings will be over 4,000 MT CO <sub>2</sub> e.   |
| 2.     | Lenovo is committed to installing local renewable energy generation sources where feasible. In support of this commitment we continue to expand our use of onsite solar energy. We currently have solar hot water generation facilities in Beijing and solar electric generation plants in Hefei and Wuhan, China as well as Whitsett and Morrisville, NC, USA. The current solar capacity of all these projects is approximately 16 MW.<br><br>During FY 2019/20 we completed solar projects in our facilities in Morrisville and Whitsett, NC, USA and Hefei (Phase 2) and Wuhan, China. |
| 3.     | Furthermore Lenovo voluntarily purchased additional renewable energy in a form of Renewable Energy Credits in USA, International Renewable Energy Credits in China, Brazil, India and Mexico, Guarantees of Origin in Europe and carbon offsets in China.  |

#### 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.     | Implementation of various energy efficiency projects, installation of onsite renewable generation, entry into power purchase agreements (PPA) with power providers, and/or the purchase of renewable energy credits, guarantees of origin and carbon offsets | Reduce Lenovo's global Scope 1 + Scope 2 GHG emissions by 40% by March 31, 2020, relative to FY 2009/10<br><br>Also:<br>Lenovo's FY 2019/20 target of submitting Lenovo's science-based targets proposal for Scope 1, 2 and 3 emissions for official evaluation by SBTi by December 31, 2019 was partially achieved. We submitted our proposal for the unofficial evaluation in November 2019 and for official validation in May 2020 when we were informed that our proposed emission reduction targets meet criterion for Scope 1, 2 and 3 ambition as defined by SBTi and are considered science based. Specifically, Scope 1 and 2 absolute emissions target exceeds the minimum ambition for 1.5°C pathway and Scope 3 intensity emissions targets exceed the ambition under the absolute contraction approach.<br><br>The approved targets will be listed on the Science Based Targets website as following:<br><br>"Lenovo commits to reduce absolute scope 1 and 2 GHG emissions 50% by FY 2029/30 from a FY 2018/19 base year. Lenovo commits to reduce scope 3 GHG emissions from use of sold products 25% per comparable product (for notebooks, desktops and servers) by FY 2029/30 from a FY 2018/19 base year. Lenovo also commits to reduce scope 3 GHG emissions from purchased goods and services 25% per million US\$ procurement spend, and from upstream transportation and distribution 25% per tonne-km of transported product over the same period." |

|    |  |   |
|----|--|---|
|    |  | <a href="https://sciencebasedtargets.org/companies-taking-action/">https://sciencebasedtargets.org/companies-taking-action/</a> |
| 2. | Installation of onsite renewable generation, entry into power purchase agreements (PPA) with power providers, and/or the purchase of renewable energy credits, guarantees of origin and carbon offsets | Achieve a YTY increase in the % of energy purchased from renewable generation sources globally, relative to the previous FY.    |
| 3. | Installation of onsite renewable generation (owned or leased)  | Achieve 30MW of Lenovo owned or leased renewable energy generation capacity globally by 2020.                                   |

\*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

|   |   |  |
|---|---|--|
| <b>Part 4 Renewable Energy</b><br>第四部分 可再生能源                      |   |  |
| <b>4.1 Feed in Tariff (FiT) Scheme</b><br>上網電價計劃                  |   |  |
| <b>Has your company joined the FiT Scheme?</b><br>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<br><input checked="" type="checkbox"/> No 否                |  |
| <b>Renewable Technology</b><br>可再生能源技術                            | <input type="checkbox"/> Solar 太陽能 <input type="checkbox"/> Wind 風能<br><input type="checkbox"/> Others (Please Specify) 其他(請註明) _____ |  |
| <b>Generation Capacity</b><br>發電容量                                |   | kW<br>千瓦   |
| <b>4.2 Renewable Energy (RE) Certificate</b><br>可再生能源證書           |   |  |
| <b>Has/Have RE Certificate(s) been purchased?</b><br>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<br><input checked="" type="checkbox"/> No 沒有               |  |
| <b>Purchased from</b><br>購自                                       | <input type="checkbox"/> The Hongkong Electric Co., Ltd<br>香港電燈有限公司   | <input type="checkbox"/> CLP Power Hong Kong Ltd<br>中華電力有限公司 |
| <b>Amount of Electricity Purchased</b><br>購買的電量                   | kWh<br>千瓦時  | kWh<br>千瓦時   |

| Part 5 Verification<br>第五部分 核證   |   |
|--|---|
| 5.1 Verification information 核證資料  |   |
| <b>Has verification<sup>2</sup> been conducted?</b><br>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<br><input type="checkbox"/> No 否  |
| <b>Verification body 核證機構:</b>   | TÜV SÜD   |
| <b>Verification standard:</b><br>核證標準:   | <input checked="" 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<br>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:<br>其他 (請說明):<br>WRI/WBCSD: The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition);<br>WRI/WBCSD: Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Accounting and Reporting Standard<br>WRI/WBCSD: Greenhouse Gas Protocol: Scope 2 Guidance |
| <b>Date of verification (yyyy/m/d):</b><br>核證日期 (年/月/日):   | 2020/6/26   |
| <b>Remarks (e.g. various verification status for different subsidiaries):</b><br>備註(例如: 各附屬公司的核證情況): | Geographic Scope of Verification:<br>Global Emissions<br>Type of Verification:<br>Reasonable Assurance for Scope 1 and 2<br>Limited Assurance for Scope 3   |

---

<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佳的了解，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>)