



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: 報告機構名稱:	Eng: Advanced Card Systems Holdings Limited 中文: 龍傑智能卡控股有限公司	Stock code: 股份代號:	02086
--------------------------------------	--	----------------------	-------

Hang Seng Industry Classification 恆生行業分類(HSIC):

(i) Industry: 行業:	Information Technology 資訊科技業 - 70
(ii) Sector: 業務類別:	IT Hardware 資訊科技器材 - 701

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):

Environmental, Social and Governance report (ESG report) included in the Annual Report FY2016 pages 29-33 www.acs.com.hk/download-financial-reports/7523/7523-ew02086.pdf

Attachment 附件

Additional files upload if any (not more than 3 files, not exceeding 2Mb per file) 上載附件檔案 (如有) (不多於3個檔案及每個檔案少於2MB)

File Description 文件描述: ACS - ESG report FY2016 part 1
File 文件: <https://www.carbon-footprint.hk/uploads/20170504-11-58-51ACS+-+ESG+report+FY2016+part+1.pdf>

File Description 文件描述: ACS - ESG report FY2016 part 2
File 文件: <https://www.carbon-footprint.hk/uploads/20170504-11-58-51ACS+-+ESG+report+FY2016+part+2.pdf>

File Description 文件描述:
File 文件:

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: 報告期:	2016-01-01 To (至) 2016-12-31	
GHG Accounting Standard / Guideline: 溫室氣體核算標準 / 指引:	<input checked="" 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 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 <u>Note 1</u> 營運邊界 <u>備註 1</u>	Brief descriptions on emission sources 排放來源簡述	Emission data 排放數據
Scope 1 範圍 1:	Emission from vehicles	3.44 tonnes CO ₂ -e (公噸二氧化碳當量)
Scope 2 範圍 2:	Electricity consumption	246.07 tonnes CO ₂ -e (公噸二氧化碳當量)
Scope 3 範圍 3:	Other indirect emissions (not included in scope 2)	4.46 tonnes CO ₂ -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:	253.97 tonnes CO ₂ -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:	240
Total gross floor area owned/controlled by the entity(s) covered in the reported GHG emission data during the reporting period (m ²): 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):	3911.12
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):	

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.):
 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)) 香港以外的營運 (請說明城市/國家名稱): Shenzhen, Zhuhai, Guangzhou and Manila

Please also specify the percentage of GHG emissions arising from Hong Kong operations 請同時說明由香港營運所產生的溫室氣體百分比: 24 %

<input checked="" type="checkbox"/> 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：	
	1	Advanced Card Systems Limited
	2	ACS Technologies Limited
	3	Logyi Limited
	4	TaptoPay Limited
	5	ACS Technologies (Shenzhen) Limited

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	Implementing different resource-saving measures, ranging from power-saving program, recycling paper and materials to the behavior change of our people. Furthermore, strengthen energy saving through administrative controls
2	Replacing metal halite lights with LED lights
3	Utilization of controllers and thermostats to enhance the manipulation of the air-conditioning system and usage
4	Announcements and financial reports being printed at minimum requirement, with electronic versions released online

**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	Staff workshop and talk on sustainability	Strengthen and improve low carbon culture
2	Reduce internal documentation	Reduce the number of paper used
3	Set air condition temperature in offices at 25C	Quantitative
4	Refrigerators replacement with Energy Efficiency	Quantitative

**Part 4 Verification information
 第四部分 核證**

Has verification **Note 2** been conducted?
 是否曾經進行核證? **備註 2** Yes – please fill in the blanks below (是 – 請填寫以下空格) No (否)

Verification body
 核證機構:

Verification standard: 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 type="checkbox"/> Others, please specify: (其他，請說明): <input type="text"/>
Date of verification: 核證日期:	<input type="text"/>
Remarks (e.g. various verification status for different subsidiaries): 備註(例如: 各附屬公司的核證情況):	<input type="text"/>