



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: Towngas China Company Limited 中文: 港華燃氣有限公司
Stock code: 股份代號:	01083
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) 行業: (例如: 金融業 – 50)	40
(ii) Sector: (e.g. Banks – 501) 業務類別: (例如: 銀行 – 501)	400
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):	
Towngas China Company Limited Annual Report 2016 (Link: http://www.towngaschina.com/getmedia/65b76346-57b5-4d22-b33b-efcff0298b3a/e_AR_2016-(1).pdf.aspx?ext=.pdf)	
Towngas China Company Limited CSR Report 2016(Link: http://www.towngaschina.com/getmedia/bc5b7dde-8961-4ec5-a3f6-5d20bb96ae78/CSR-Report_Eng.pdf.aspx?ext=.pdf)	
港華燃氣有限公司2016年報 (Link: http://www.towngaschina.com/getmedia/2bccadad-8ce6-424e-a5a7-8c550196a4da/CW_01083AR2016-(Full)-(1).pdf.aspx?ext=.pdf)	
港華燃氣有限公司2016度企業社會責任報告 (連結: http://www.towngaschina.com/getmedia/aa2622fe-093c-4712-b643-c70c9c769160/CSR-Report_Chi.pdf.aspx?ext=.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):	2016/1/1 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 checked="" 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 ¹ :	Brief description on emission sources 排放來源簡述	Emission data 排放數據
Scope 1 範圍 1:	Fuel consumption of production plants, vehicle fleets and etc. 生產廠房及車隊的燃料使用	~ 8,500 tonnes CO ₂ -e 公噸二氧化碳當量
Scope 2 範圍 2:	Electricity consumption of production plants, offices, customer centres, gas filling stations and datacenters etc. 生產廠房、辦公室、客戶中心、加氣站及數據中心等地方的電力使用	~ 21,400 tonnes CO ₂ -e 公噸二氧化碳當量
Scope 3 範圍 3:		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:	~ 29,900 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:		<u>n/a</u>
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):		<u>n/a</u>
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):		<u>n/a</u>
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):		<u>n/a</u>
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 <input checked="" type="checkbox"/> Operations outside Hong Kong (Please specify city(ies)/country(ies)): <u>China</u> 香港以外的營運 (請說明城市/國家名稱): <u>中國</u> Please also specify the percentage of GHG emissions arising from Hong Kong operations: <u>0%</u> 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 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: Please refer to the annual report 2016.	

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):

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>Organized the 7th carbon reduction competition to promote energy and carbon reduction initiatives across the companies from Towngas China, 7 projects were received in 2016. A project at Taian Taishan implemented the "Change Waste into Gold" action, which old appliances were delivered to recycling contractors for recycling. Proceeds from the recycling programme are allocated to support environmental activities.</p> <p>舉辦第七屆減碳比賽以減少內地項目公司的碳排放。2016年，共收到7個來自港華燃氣項目公司的減碳方案。泰安泰山通過"點廢成金"行動，將廢舊爐具進行回收把廢品賣給回收商，收益用於公司環保活動。</p>
2.	<p>Since the Group issued the "Green Declaration of Towngas China" in 2011, its project companies have been encouraged to participate in "A Date with Towngas China Forest" tree planting every year. This environmental protection initiative also promotes energy conservation and carbon reduction, as an operating model to create an ideal living environment. To date, the Group has led its project companies to plant more than 80,000 trees, covering a green area of over 390,000 square metres. Launched a corporate-wide environmental programme named "Meet-up at Towngas China Forests" to encourage staff practising green living through series of tree planting and cycling activities. Also, it drove staffs and customers to protect the environment through office greening, paperless operation and low-carbon actions.</p> <p>自2011年發佈《港華綠色宣言》以來，集團每年均會號召旗下項目公司踴躍響應「相約港華林」的植樹環保活動，同時亦鼓勵實踐節能減碳，以締造理想生活環境的營運模式。目前，集團已帶領旗下項目公司種植逾8萬棵樹木，綠化面積超過39萬平方米。</p>
3.	<p>In 2016, Towngas China introduced the "Contest of Low Carbon Creativity" activity to encourage staff from the head office and project companies to develop creative low-carbon activities in their own communities. Over 10 project companies in the Group invited their staff and their family members, customers and the public to participate in more than 30 eco-friendly activities such as tree planting projects in which more than 1,400 trees were planted, covering a green area of over 3,600 square metres.</p> <p>2016年，港華集團舉辦「低碳創意 SHOW」活動，鼓勵一眾總辦事處及各項目公司的員工發揮創意，開展符合當地實際情況的低碳活動。集團旗下超過10間項目公司邀請公司員工及其家屬、客戶、公眾一起參與其中，舉辦了植樹、低碳出行、低碳作品徵集等30餘項環保活動，共種植逾1,400棵樹木，綠化面積超過3,600平方米。</p>

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.	<p>Encourage project companies to participate in the 8th Carbon Reduction Competition.</p> <p>鼓勵項目公司參與第八屆減碳比賽活動。</p>	<p>Implement energy and carbon reduction initiatives</p> <p>實施具創意的節能減碳項目。</p>
2.		

3.		
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**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 Verification
第四部分 核證

4.1 Verification information 核證資料

Has verification² been conducted? 是否曾經進行核證？	<input type="checkbox"/> Yes – please fill in the blanks below 是 – 請填寫以下空格 <input checked="" type="checkbox"/> 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):	
Date of verification (yyyy/m/d): 核證日期 (年/月/日):		
Remarks (e.g. various verification status for different subsidiaries): 備註(例如: 各附屬公司的核證情況):		

¹ 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 審定和核推推出認可服務，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 Goods 消費品製造業 – 20
Consumer Services 消費者服務業 – 30
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 – 001
Coal 煤炭 – 002
Gold & Precious Metals 黃金及貴金屬 – 051
Diversified Metals & Minerals 一般金屬及礦石 – 052
Basic Materials 原材料 – 053
Industrial Engineering 工業工程 – 101
Industrial Transportation 工用運輸 – 102
Commercial & Professional Services 工用支援 – 103
Automobiles 汽車 – 201
Household Goods & Electronics 家庭電器及用品 – 202
Textiles, Clothing & Personal Care 紡織、服飾及個人護理 – 203
Food & Beverages 食物飲品 – 204
Healthcare 醫療保健 – 205
Agricultural Products 農業產品 – 206
Retailers 零售 – 301
Hotels, Casinos & Leisure Facilities 酒店、賭場及消閒設施 – 302
Media & Entertainment 媒體及娛樂 – 303
Transportation 運輸 – 304
Support Services 支援服務 – 305
Telecommunications 電訊 – 350
Utilities 公用事業 – 400
Banks 銀行 – 501
Insurance 保險 – 502
Other Financials 其他金融 – 503
Properties 地產 – 601
Construction 建築 – 602
IT Hardware 資訊科技器材 – 701
Software & Services 軟件服務 – 702
Semiconductors 半導體 – 703
Conglomerates 綜合企業 – 800

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>)