

Ford Lio Ho Motor Co., Ltd --- Taiwan

福特六和汽車股份有限公司 – 臺灣



2013 Greenhouse Gas Inventory

2013 年度溫室氣體盤查報告書

Executive Summary 摘要：

Ford Lio Ho Motor Co., Ltd. (Ford Lio Ho, hereafter) is proud to present its third Greenhouse Gas (GHG) emissions inventory. Ford Lio Ho is the first domestic carmaker in Taiwan to sign voluntary CO2 emission reduction initiative introduced by Taiwan Environmental Protection Administration. Ford Lio Ho also pioneered as No.1 domestic carmaker achieving the reduction goal. Ford Lio Ho believes that the starting point of a corporate GHG strategy is to better understand its emissions. Ford Lio Ho is aware of the importance of Climate Change and is committed to the continuous improvement in its environmental performance and sharing the results with others.

福特六和汽車股份有限公司（以下簡稱“福特六和”）在此鄭重發佈第三份溫室氣體 GHG 排放盤查報告。福特六和是台灣第一家車輛組裝廠簽署由臺灣環保署推動的二氧化碳自願性減量協議，並於 2013 年領先業界，成為首間達成減碳目標的國產車品牌。福特六和相信公司的 GHG 策略出發點是為了更好地瞭解自身排放情況。福特六和已經認識到氣候變化的重要性，並且承諾將持續地改進自身環境績效，同時與大眾分享結果。

Ford is proud to participate in different greenhouse gas management initiatives worldwide including: The Mexican GHG Program, The Australian National Greenhouse Emissions Reporting System (NGERS), The Climate Registry (TCR), The Brazilian GHG Program, The EU Emissions Trading Scheme (EU ETS), and The Canadian GHG Emissions Reporting Program (GHGRP).

福特汽車公司非常榮幸地參與了各種世界 GHG 管理計畫，包括芝加哥氣候交易所（CCX）、墨西哥 GHG 計畫、澳大利亞國內溫室排放報告系統、氣候登記（TCR）、巴西 GHG 計畫、歐盟排放交易計畫（EU ETS）以及加拿大溫室氣體排放報告計畫（GHGRP）。

The 2013 GHG inventory includes Ford Lio Ho data from 2007-2013. Because Ford Lio Ho experienced 8.5% production increase from 2012 to 2013, total emissions

increased by over 6.6% accordingly. 2013 total emissions decreased over 19.7% from the baseline period (2007), while production decreased by 25.3% during the same period.

2013 年 GHG 盤查報告包括福特六和 2007 至 2013 年度的資料。由於福特六和 2013 年產量比 2012 年增加了 8.5%，GHG 排放總量相應上升約 6.6%。由於產量比基準時期(2007)降低了 25.3%，2013 年的排放總量比 2007 年下降了 19.7%以上。

The 2013 emissions intensity (per unit) decreased approximately 1.8% from 2012 but increased approximately 7.6% from the baseline reporting period in 2007.

2013 年排放強度（每單位）比 2012 年下降了約 1.8%，但是比自基準時期（2007 年）以來上升了 7.6%。

Ford Lio Ho will provide annual updates as it continues to strive to maintain and exceed its environmental standards.

福特六和將每年提供更新資料，並繼續努力保持和超越自身的環境標準。

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Introduction 介紹

On November 20, 1972, Lio Ho Motor Company and the Ford group formally signed a joint agreement at Ford headquarters in Michigan, U.S.A. and officially established "Ford Lio Ho Motor Company"(Ford Lio Ho) on Dec. 1, 1972. In 1973, Ford Lio Ho introduced the first locally manufactured sedan "Cortina" and in 1986, the company completed the first factory expansion and production capacity soared to 120,000 vehicles per year. Currently Ford Lio Ho manufactures the Ford Fiesta, Ford Focus, Mazda 3, Ford Mondeo, Ford Escape, Ford Kuga and Mazda 5.

1972 年 11 月 20 日，六和汽車公司與福特集團於福特密西根總部簽署了合約，並於 1972 年 12 月 1 日正式成立福特六和汽車公司，福特六和於 1973 年首度推出在地生產的跑天下，並在 1986 年完成第一次擴廠，提升產至每年 12 萬輛，福特六和出產的高品質汽車，有小型轎車如 Ford Fiesta、中型轎車如 Ford Focus、Mazda 3，中大型轎車如 Ford Mondeo、休旅車如 Ford Escape、Ford Kuga、Mazda 5。

Ford Lio Ho has garnered several significant national awards, such as the National Quality Award in 2003, the permanent award on Environmental Protection Enterprise in 2004, Business Weekly Top Sales Award, GlobalView Magazine Service Excellence Award in 2012. And in 2013, Ford Lio Ho won Achievement Award from Environmental Protection Administration, recognizing achievement on voluntary CO2 emission reduction. Taoyuan County Government also award Ford Lio Ho Excellent Enterprise Awards - Environmental & Green in 2013. Ford Lio Ho was ISO 14001 certified in 1997 and became the first car company in Taiwan to receive TS16949:2002 and ISO14001:2004 integrated certifications in 2005. In 2008, Ford Lio Ho received OHSAS18001 certification. One of the most important initiatives undertaken by Ford Lio Ho is the implementation of the ISO 14001 environmental management standard, where all aspects of the facility are included: air emissions, waste, water, and energy. In order

to remain certified, a facility must undergo a surveillance audit each year that ensures adherence to guidelines, and measures the plant's progress.

福特六和歷年來獲得許多重要獎項，例如於 2003 年榮獲行政院「國家品質獎」、2004 年榮獲「企業環保獎」終身成就獎，2012 年榮獲商業周刊「王者大獎」、遠見雜誌「傑出服務獎」，並於 2013 年榮獲環保署車輛二氧化碳自願性減量協議-減碳有成獎，以及桃園縣政府績優企業卓越獎 - 環保綠能獎。福特六和於 1997 年取得 ISO14001 認證，並於 2005 年 4 月率先通過稽核，成為國內第一家同時獲得歐、美、日三大市場認可的 TS16949:2002 品質管理及國際最新版本環保管理之 ISO14001:2004 兩大系統整合驗證的中心車廠。2008 年更加入 OHSAS 18001 職業安全衛生管理系統，與 TS 16949:2nd/ISO 14001:2004 完成整合驗證。福特六和採取的最重要舉措之一是執行了 ISO 14001 環境管理標準，該標準涵蓋了工廠環境管理的各個方面，包括大氣排放、廢棄物、水和能源。為了維護該認證，工廠每年進行一次監督審核以確保工廠達標，同時衡量工廠所取得的進步。

Ford Lio Ho is the first domestic carmaker in Taiwan to sign a new carbon emission reduction initiative introduced by EPA. The program calls on car companies operating in Taiwan to voluntarily reduce their product line CO2 emission levels by 10 to 15% by 2015. In 2013, FLH is the No.1 local automaker reaching EPA's CO2 emission reduction goal and far ahead of time. We even exceeded the benchmark (15%) to 19%.

福特六和是台灣第一家車輛組裝廠簽署二氧化碳自願性減量協議，該協議由台灣環保署推動，承諾引進及產製低碳車輛供國內消費者選購，並透過調整銷售策略，達成至 2015 年減少 10 至 15% 產品線二氧化碳排放量之目標。在 2013 年，福特六和不但提前成為台灣第一家達成環保署產品線二氧化碳排放量之目標的車輛組裝廠，甚至超越原訂 15% 的目標，達成 19% 的減量。

This GHG inventory includes data for Ford Lio Ho plant. Ford Lio Ho recognizes the importance of the climate change issue and will continue to work on reducing GHG

Ford Lio Ho 2013 GHG Inventory

emissions of our vehicles and facilities by way of introducing advanced technology vehicles and improving energy efficiency in manufacturing operations.本盤查報告包括福特六和工廠的資料。福特六和認識到氣候變化問題的重要性，並將通過引進含有先進技術的汽車和提高生產過程中的能效來繼續減少其汽車和工廠的 GHG 排放。

Ford Lio Ho 福特六和

Product: Ford Focus, Ford Mondeo, Ford Fiesta, Ford Escape, Ford Kuga Mazda 3, Mazda 5

Founded: 1972

Plant Capacity: 57,000 units/year (One shift)

Operation: Assembly

Employees: 1,234 employees (June, 2014)

Site: 346,171 m²

Floor Space: 137,263m²

ISO 14001 Certified: 1997

產品：福特 Focus、福特 Mondeo、福特 Fiesta、福特 Escape、福特 Kuga、Mazda3、Mazda5

成立年份：1972 年

產能：5.7 萬/年（一班制）

作業：汽車組裝

員工人數：1,234 人（2014 年 6 月）

占地面積：346,171 平方公尺

建築面積：137,263 平方公尺

ISO 14001 認證年份：1997 年



Figure 1: Ford Focus
圖 1：福特 Focus



Figure 2: Ford Mondeo
圖 2：福特 Mondeo



Figure 3: Ford Fiesta
圖 3：福特 Fiesta



Figure 4: Ford Escape
圖 4：福特 Escape



Figure 5: Ford Kuga
圖 5：福特 Kuga



Figure 6: Mazda 3
圖 6：Mazda 3



Figure 7: Mazda 5

圖 7: Mazda 5

Corporate Climate Change Initiatives 集團氣候變化管理計畫:

Ford believes that climate change is a serious environmental issue and recognizes that it is not possible to wait for all the scientific uncertainties to be resolved. Ford Motor Company is actively participating in various programs around the world and gaining considerable experience in GHG reporting. Some of the initiatives are listed below:

福特汽車公司相信氣候變化是一個嚴重的環境問題，並認為我們不能等待所有的科學不確定性明朗以後再採取行動。福特汽車公司正積極地參與全世界各種 GHG 計畫並獲得了一定的 GHG 報告經驗。以下是我們參與過的部分 GHG 管理計畫：

Chicago Climate Exchange (CCX):

The Chicago Climate Exchange (CCX) was a greenhouse gas (GHG) emission reduction and trading program for emission sources and projects in North America. It was a self-regulated, rules based exchange designed and governed by CCX members. These members made a voluntary, legally binding commitment to reduce their emissions of greenhouse gases by six percent below the 2000 baseline year by 2010. Ford was the first and only auto manufacturing participant in this program. The exchange was closed in November 2010.

芝加哥氣候交易所 (CCX):

芝加哥氣候交易所 (CCX) 是北美地區的 GHG 減排與交易系統。CCX 是由會員設計和治理，自願形成的一套交易體系。這些成員自願地通過法律約定的承諾在 2010 年前，基於 2000 年的基準值消減 GHG 排放量 6%。福特汽車公司是第一家，也是唯一一家參與這個計畫的汽車製造公司。這個交易所已於 2010 年 11 月關閉。

Mexico GHG Pilot Program:

The Mexico GHG Program started as a two year partnership between La Secretaria de Medio Ambiente y Recursos Naturales (SEMARNAT), World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD). It is a voluntary program established to help Mexican companies to quantify greenhouse gas emissions. Ford Motor Company was proud to be the only auto manufacturer to participate in the first phase of the program where we are committed to reporting emissions annually.

墨西哥 GHG 試驗計畫：

墨西哥 GHG 試驗計畫是由 La Secretaria de Medio Ambiente y Recursos Naturales (SEMARNAT)、世界資源研究所 (WRI) 和世界永續發展工商理事會 (WBCSD) 發起的為期兩年的合作計畫。作為一個自願性計畫，墨西哥 GHG 試驗計畫的成立旨在協助墨西哥企業計算其 GHG 排放量。福特汽車公司是唯一一家參與該計畫的第一階段的汽車製造企業，並承諾每年報告其排放量。

EU Emissions Trading Scheme (EU ETS):

Ford participates in the EU ETS which commenced in January 2005 and is one of the policies being introduced across Europe to reduce emissions of carbon dioxide and other greenhouse gases.

歐盟排放權交易方案(EU ETS):

福特汽車公司參與的 EU ETS 於 2005 年 1 月正式啟動，是歐洲減少二氧化碳和其它 GHG 排放的方針的其中一個。

Canadian Voluntary Challenge and Registry:

Ford voluntarily reported GHG emissions to the Canadian Voluntary Challenge and Registry (VCR) from 1999 to 2006. Over the years, it received the highest level of achievement in the reporting system, which includes two Leadership Awards in the

Automotive Manufacturing Sector category as well as qualifying as a Silver Champion level Reporter in 1999 and Gold Champion Level Reporter from 2000 to 2003, 2005 & 2006. The Challenge Registry ceased taking submissions effective, January 1, 2012. Ford now participates in the Canadian Greenhouse Gas Reporting Program.

加拿大 GHG 挑戰與登記:

從 1999 年起到 2006 年，福特汽車公司自願向加拿大 GHG 挑戰與登記（VCR）報告其年度 GHG 排放量。時至今日，福特汽車公司已經在 VCR 的報告系統裡取得最高級別的成績，包括獲得汽車行業兩次「領導力獎」，1999 年獲得報告「銀牌獎」以及在 2000~2003 年,2005~2006 年報告「金牌獎」。加拿大挑戰與登記已經於 2012 年 1 月 1 日停止。福特汽車公司現正參加加拿大溫室氣體報告計畫。

Philippines GHG Program

The Philippine Greenhouse Gas Accounting and Reporting Program (PhilGARP) partnership between Klima Climate Change Center of the Manila Observatory, Philippine Business for the Environment, the Department of the Environment and Natural Resources, Department of Energy, WBCSD, and WRI – was launched in November 2006. In 2012, Ford ceased operations in the Philippines and therefore, will no longer be a participant in the program.

菲律賓 GHG 計畫：

菲律賓 GHG 計算與報告計畫（PhilGARP）由馬尼拉天文臺的 Klima 氣候變化中心、菲律賓環境商務部、環境與自然資源部、能源部、WBCSD 和 WRI 於 2006 年 11 月聯合發起。2012 年，福特關閉了菲律賓工廠，因此也不再參加菲律賓 GHG 計畫。

The Climate Registry (TCR)

The Climate Registry is a nonprofit organization that establishes consistent, transparent standards throughout North America for businesses and governments to calculate, verify and publicly report their carbon footprints in a single, unified registry. Ford became a founding member in 2008 and was the first auto manufacturing participant in the program. In 2011, Ford became a Climate Registered member of TCR with the independent third party verification of all of Ford's North American GHG emissions.

氣候變化註冊組織 (TCR)

北美的氣候變化註冊組織 (TCR) 提供精準和透明的 GHG 排放測量方法，並保證各行業和地區使用一致的度量法。氣候變化註冊組織的下屬統計機構即支持自願的，也支持法定的管理計畫。福特汽車公司是氣候變化註冊組織的創始成員，也是第一家加入該組織的汽車製造商。福特在 2011 年由獨立協力廠商驗證了所有福特北美溫室氣體排放量之後，成為氣候變化組織的註冊成員。

Brazilian GHG Reporting Program

The Brazil Greenhouse Gas program is a partnership of Brazil's Ministry of Environment, the Brazilian Business Council for Sustainable Development, the Fundação Getúlio Vargas, the World Business Council on Sustainable Development, and the World Resources Institute (WRI). Ford of Brazil is proud to be the first automobile company in Brazil to voluntarily report its Facility Greenhouse Gas (GHG) emissions.

巴西 GHG 報告計畫

巴西 GHG 計畫由巴西環境部、巴西永續發展商業理事會、the Fundação Getúlio Vargas、WBCSD 和 WRI 共同發起。巴西的福特汽車公司是巴西國內第一家自願報告其 GHG 排放量的汽車製造商。

Methodology 方法

Ford Lio Ho uses a highly integrated energy monitoring system and an industry-leading Global Emissions Manager (GEM) database to ensure environmental metrics such as CO₂ emissions are tracked consistently. All energy data contained in this report is available within GEM and it is tracked and revised by the facility. The emissions data reported was generated following the GHG calculation tools developed by the World Resources Institute (WRI). Note that WRI electricity emission factor changes every year and we will use the factor provided for each reporting year, starting in 2007.

福特六和運用高度集成的能源監控系統和行業領先的全球排放管理（GEM）資料庫，以確保環境因素例如二氧化碳排放量得到持續一致的跟蹤。本報告的所有能來源資料均包含在 GEM 裡，並通過工廠進行跟蹤和修正。本報告的排放資料是通過世界能源研究院（WRI）建立的 GHG 計算工具計算得出。請注意，WRI 的電排放係數每年都會產生變化，所以我們從 2007 年開始每年運用更新的係數來計算。

This report includes "direct" emissions characterized as scope 1 in the WRI/WBCSD protocol and "indirect" or scope 2 emissions from the same protocol. All CO₂ emissions are included and reported in units of metric tons of carbon dioxide (CO₂). Other GHG applicable to combustion processes, CH₄ and N₂O, are estimated to be less than 1% of the total emissions and hence considered negligible. Other emission sources such as HFCs from refrigerant leakages during the initial vehicle fill process for the air conditioning units are also considered minimal at less than 1.7% of total emissions. PFCs and SF₆ do not apply to the company's manufacturing facilities. Emission factors in Table 1 were used to calculate CO₂ emissions.

本報告包括由 WRI 和 WBCSD 協議裡定義為範圍一的「直接」排放源和範圍二的「間接」排放源。報告裡所有的二氧化碳排放量單位均為公制噸二氧化碳當量。其它 GHG，例如甲烷和一氧化二氮的排放估量在總排放量的 1% 以下，因此忽略不計。其它排

放源，如在汽車空調初填充製冷劑時滲漏的含氟烴類，其排放量可視為總排放量 1.7%以下。本公司的製造工廠沒有使用到全氟烴類和六氟化硫。表 1 裡的排放指標是用作二氧化碳排放量的計算。

Table 1: Emission Factors

表 1：排放指標

Fuel 燃料	Emission Factor 排放指標
Natural Gas 天然氣	<i>0.001885tCO2/m3</i>
Fuel Oil 汽油/石油	<i>0.002676tCO2/l</i>
Electricity (2007) 電 (2007)	<i>0.000632tCO2/KWh</i>
Electricity (2008) 電(2008)	<i>0.000631tCO2/KWh</i>
Electricity (2009) 電 (2009)	<i>0.000616tCO2/KWh</i>
Electricity (2010) 電 (2010)	<i>0.000612tCO2/KWh</i>
Note: From WRI/WBCSD 來源：WRI和WBCSD	

Base Year 基準年

Ford Lio Ho began operations in 1972 and has increased production since then. We have selected 2007 year as our representative baseline going forward. Table 2 shows the direct and indirect emissions used to obtain the baseline. Note: Direct emissions are those generated on site (i.e. from gas and petroleum fuel use). Indirect emissions are those generated off site but attributable to car manufacturing (i.e. electricity used on site).

福特六和於 1972 年投產並逐漸提高產量。我們選擇 2007 年分別作為我們的基準年。表 2 顯示了用作計算基準值的直接和間接排放。注：直接排放來自廠內（如燃燒天然氣以及石油類燃料）。間接排放代表那些並不在廠區產生但歸於汽車製造的排放（如廠區用電）。

Table 2: Direct and Indirect Emissions Baseline

表 2：直接和間接排放基準值

Direct Emissions (metric tCO₂) 直接排放 (噸 CO₂)	Indirect Emissions (metric tCO₂) 間接排放(噸 CO₂)	Production 產量
2007 年	2007 年	2007 年
5,799	19,426	45,347

GHG Emissions Data GHG 排放資料

Ford Lio Ho operates the plant in an energy efficient manner. Ford Lio Ho's internal energy management and control process allows the plants to monitor energy usage throughout the facilities and identify areas that can be improved.

福特六和以高效節能的方式運作工廠。福特六和的內部能源管理和控制流程可以監控工廠內各部門的能源使用並識別出可以改進的地方。

Table 3 below summarizes Ford Lio Ho energy consumption from 2007-2013.

表 3 匯總了福特六和 2007—2013 年度的能耗。

Table 3: Ford Lio Ho Energy Consumption From 2007-2013

表 3：福特六和 2007-2013 年能耗

Period 年份	Natural Gas (m ³) 天然氣 (m3)	Fuel Oil (l) 燃油 (l)	Electricity(KWH) 電力 (KWH)
2007	1,088,947	1,400,000	30,738,000
2008	673,895	1,050,000	22,204,800
2009	784,524	1,000,000	22,483,200
2010	1,001,869	1,300,000	26,604,707
2011	942,463	1,250,000	25,491,600
2012	852,262	1,050,000	23,937,600
2013	907,060	1,150,000	25,293,600
Disclaimer: Because Lio Ho experienced 8.5% production increase from 2012 to 2013. Energy consumption increased accordingly 注:由於福特六和 2013 年的產量比 2012 年增加了 8.5%, 能耗相應增加。			

Direct Emissions:

Direct Emissions result from combusting fuels at Ford Lio Ho site including natural gas and fuel oil.

直接排放：

福特六和的直接排放來自燃燒天然氣以及燃油的排放。

Indirect Emissions:

Ford Lio Ho Indirect Emissions include all emissions generated outside the site's perimeter such as emissions from burning fossil fuel to generate electricity. Ford Lio Ho continuously monitors its electricity consumption. However the rate of energy consumption depends heavily on production, and if production increases, so will energy consumption. Table 4 shows direct and indirect emissions per year from 2007-2013.

間接排放：

福特六和的間接排放包括廠外產生的全部排放，例如用來發電的化石燃料。福特六和長期監控其用電量。但是用電量受生產影響較大，生產量加大，用電量也隨之增大。表 4 顯示了工廠 2007 – 2013 年的直接以及間接排放量。

Table 4: Ford Lio Ho Total Emissions and Emission Intensity

表 4：福特六和排放總量及排放強度

Year 年份	Total Emission (tCO2) 排放總量 (噸 CO2)		Emission Intensity (tCO2/unit) 排放強度 (噸 CO2/車)
	Direct Emissions (tCO2) 直接排放 (噸 CO2)	Indirect Emissions (tCO2) 間接排放 (噸 CO2)	
2007	5,799	19,426	0.556
2008	4,080	14,011	0.876
2009	4,155	13,849	0.640
2010	5,367	16,282	0.568
2011	5,121	15,601	0.553
2012	4,365	14,650	0.609
2013	4,787	15,480	0.598

Disclaimer: The calculation is based on electricity emission factors provided by WRI every year. The most updated WRI 2010 emission factor was used for 2013 emission calculations.
注: 所有排放總量的計算都是基於 WRI 每年更新的係數. 2013 年的排放計算是基於最更新的 2010 年排放係數.

Data Analysis 資料分析

Ford Lio Ho site experienced 8.5% production increase from 2012 to 2013. Total emissions increased over 6.6% accordingly. When compared to baseline year 2007, Ford Lio Ho production decreased 25.3% while total emission decreased over 19.7%. Figure 7 below shows Ford Lio Ho Total Emissions trends from 2007 to 2013.

福特六和 2013 年的產量比 2012 年增加了 8.5%，CO₂ 總排放量比 2012 年相應增加 6.6%；與基準年 2007 年相較，2013 年產量降低 25.3%，排放總量下降 19.7%。圖 7 顯示了福特六和從 2007 年至 2013 年的排放總量趨勢。

Emission intensity is calculated by dividing total emissions by the number of production units (vehicles built). As shown in Figure 8, due to 8.5% production increase from 2012 to 2013 in Ford Lio Ho, the 2013 emissions intensity (per unit) decreased slightly 1.8% from 2012. However, 2013 emission intensity increased approximately 7.6% from the baseline reporting period in 2007. During the period of 2007 to 2012, production has decreased approximately 25.3%.

排放強度的計算是基於排放總量除以生產單位的個數（即汽車）。如圖 8 所示，由於福特六和 2013 年的產量比 2012 年增加了 8.5%，2013 年的排放強度（每單位）比 2012 年略微下降了 1.8%；然而，2013 年的排放強度比基準時期（2007 年）高 7.6% 左右。因 2007 至 2013 年，產量下降了約 25.3%。

Figure 8: Ford Lio Ho Total GHG Emissions

圖 8：福特六和 GHG 排放總量

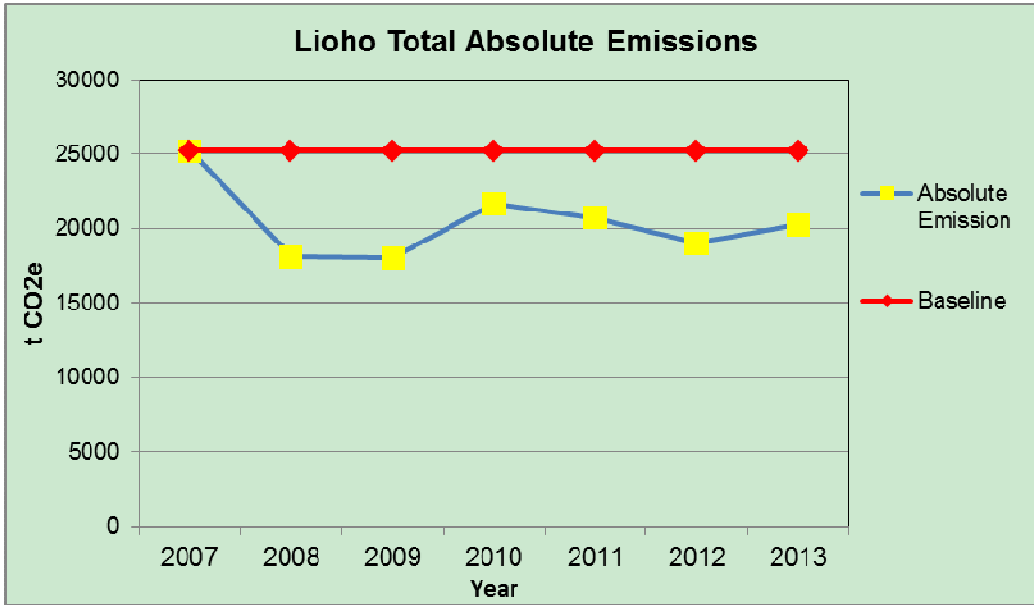
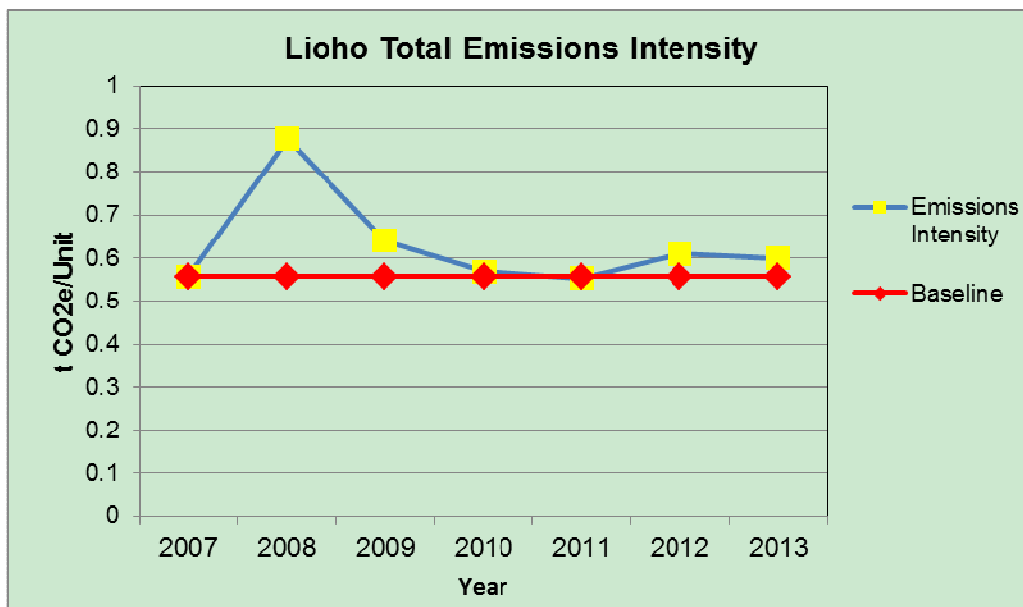


Figure 9: Ford Lio Ho GHG Emissions Intensity

圖 9：福特六和 GHG 排放強度



Conclusions 結論

Ford Lio Ho is proud to present its third GHG emissions inventory building upon prior achievement to voluntarily report its facility GHG emissions in Taiwan. Ford Lio Ho recognizes the importance of the climate change issue and supports emissions reporting. Ford Lio Ho is committed to improving energy efficiency, reducing GHG emissions, and maintaining and exceeding its environmental standards.

福特六和作為自願公佈其工廠 GHG 排放的汽車公司，現鄭重發佈第三份 GHG 排放盤查報告。福特六和認識到氣候變化問題的重要性，並支持 GHG 排放的公佈。福特六和致力於提高能效，減少溫室氣體排放，同時保持並超越自身的環境標準。