Jiangling Motors Corporation (JMC) 江铃汽车股份有限公司





2012 Greenhouse Gas Inventory 2012 年度温室气体总量

Executive Summary 摘要:

Jiangling Motors Corporation (JMC) – a publicly-traded company in China with Ford as a 31.5% shareholder – is issuing the third report of its greenhouse gas emissions (GHG). JMC believes that the starting point of a corporate GHG strategy is to better understand its emissions. JMC is aware of the importance of Climate Change and it is committed to continuous improvement in its environmental performance and sharing the results with others.

江铃汽车股份有限公司(以下简称 JMC)是一家境内的上市公司,其中福特汽车公司占 31.5%股份,现公布第三份温室气体总量报告。JMC 相信一个公司的 GHG 战略出发点是为了更好地了解自身排放情况。JMC 已经认识到气候变化的重要性,并致力于不断提高自身的环境业绩,同时与其它公司分享结果。

JMC assembles the Ford Transit van and other non-Ford-technology-based vehicles for distribution in China. Ford is proud to participate in different greenhouse gas management initiatives worldwide including: The Chicago Climate Exchange (CCX), 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).

JMC 主要进行福特全顺系列车型和其它非福特技术汽车的总装以及在中国的经销。在全球范围内,福特汽车公司非常荣幸地参与了多个国家的 GHG 管理计划,包括芝加哥气候交易所(CCX)、墨西哥 GHG 计划、澳大利亚国内温室排放报告系统、气候登记(TCR)、巴西 GHG 计划、欧盟排放交易计划(EU ETS)以及加拿大 GHG 温室气体排放报告计划。

The 2012 GHG inventory includes JMC data from 2008-2012. Overall JMC (JMC Transit and JMC Engine combined) has increased its total emissions in 2012 by 34.3% compared to the 2008 baseline year.

JMC 的 2012 年度 GHG 总量报告包括其 2008 年至 2012 年度的数据。总体来说,2012 年的 JMC (包括 JMC 全顺厂和 JMC 发动机厂)的排放总量比基准年 2008 年以来上升了 34.3%以上。

However, JMC Transit emissions intensity (per unit) in 2012 decreased by 38.3% over the same period, while JMC Engine emission intensity in 2012 was 16.8% lower than 2008 baseline year.

但是,2012 年 JMC 全顺厂的排放强度(每单位)分别比自基准时期下降 38.3%以上,JMC 发动机厂的排放强度分别比自基准时期(2008年)下降 16.8%以上。

JMC will provide annual updates as it continues to strive to meet or exceed environmental standards.

JMC 将每年提供更新资料,并继续努力保持和超越自身的环境标准。

- JMC 2012 GHG Inventory

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— JMC 2012 GHG Inventory

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Introduction 介绍

Jiangling Motors Corporation, Ltd. (JMC) is located in Jiangxi province, Nanchang and is one of the largest companies in China. Ford entered a strategic partnership with JMC in 1995 by purchasing 20% of JMC's shares, which was increased to 31.5% now.

江铃汽车股份有限公司(以下简称 JMC)位于江西省南昌市,是中国最大的汽车制造公司之一。福特汽车公司作为战略伙伴于 1995 年被引入,最初持有 20%的股份,到现在,持股比例增加到 31.5%。

JMC and Ford worked together to develop The Ford Transit in 1997 and the 4J engine in 1995. Current JMC products include the new-generation Ford Transit and the JX4D24 engine.

1997年,JMC 和福特汽车公司联合开发推出福特全顺系列车型,1995年生产出 4J系列发动机。目前产品包括新世代福特全顺和 JX4D24 发动机。

One of the most important initiatives undertaken by JMC 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. JMC Transit Plant became ISO 14001 certified in 1999 and also obtained the National Environmental Label Certification in 2003. In 2004 JMC implemented ISO/TS16949, an internationally recognized quality management system for the automotive industry and the China Compulsory Certification (3C). The 3C integrates quality and content controls on products for import and export into one procedure as part of China's commitment for entry into the World Trade Organization. In 2009 JMC received the National Enterprise Environmental Achievement Award which is considered

to be the top level award of environmental protection. JMC was the only automaker to receive this award.

JMC 采取的最重要举措之一是执行了 ISO 14001 环境管理标准,该标准涵盖了工厂环境管理的各个方面,包括大气排放、废物、水和能源。为了维护该认证,工厂必须每年进行一次监督审核以确保工厂达标,同时衡量工厂所取得的进步。JMC 全顺厂于 1999 年取得 ISO14001 认证,并在 2003 年获得国家环境标致产品认证。2004 年,JMC 开始执行被全球认可的汽车行业的质量管理体系 ISO/TS16949 和中国强制性产品认证制度(简称3C 认证)。3C 认证作为中国加入世贸组织承诺的一部分,它将质量和产品进出口控制整合为一个程序。2009 年,JMC 获得被视为中国环境保护领域的最高奖项的全国企业环保成就奖。JMC 是唯一获此殊荣的汽车生产商。

A highlight of JMC's performance is the use of detailed management systems for all resource use (energy, solid and liquid waste, solvent use and water). Energy targets are set for each operation and monitoring systems are in place in all areas. Performance against these targets is taken very seriously. Energy engineers report out to senior management on performance against their respective targets on a weekly basis. Other environmental initiatives include: energy efficiency projects and educational programs for employees.

JMC 其中一个显著的成效是对资源利用(包括:能源、固体和液体废物、溶液和水)进行细致的体系化管理。厂内所有场所均有安装监测系统,并对每个工艺提出能源目标。工厂对目标能耗的达标要求十分严格,能源工程师每星期直接向高级管理层汇报成效。其它环境计划包括:节能项目和员工教育计划。

This GHG inventory includes data for both the JMC Transit and JMC Engine plants. JMC recognizes the importance of the climate change issue and will continue to work on reducing GHG emissions of our vehicles and facilities by way of introducing advanced technology vehicles and improving energy efficiency in our manufacturing operations.

- JMC 2012 GHG Inventory

本总量报告包括 JMC 全顺厂和 JMC 发动机厂的数据。JMC 认识到气候变化问题的重要性,并将通过引进含有先进技术的汽车和提高生产过程中的能效来继续减少其汽车和工厂的 GHG 排放。

JMC Transit JMC 全顺厂

Product: Transit with Multiple Configurations (VE83 LWB, VE83 SWB, VE83 CAB, V348

LWB, V348 SWB, V348 JUMBO)

Founded: 1995

Plant Capacity: 58,000 units/year

Operation: Vehicle Assembly **Employees:** 1337 employees

Site: 120,000m2

Floor Space: 98,000m2

ISO 14001 Certified: 2003

产品: 全顺系列(VE83 LWB, VE83 SWB, VE83 CAB, V348 LWB, V348 SWB, V348

JUMBO)

成立年份: 1995年

产能: 5.8 万辆/年

工艺: 汽车总装

员工人数: 1337 人

占地面积: 12 万平方米

建筑面积: 9.8 万平方米

ISO 14001 认证年份: 2003年

JMC 2012 GHG Inventory



Figure 1: V348 LWB Ford Transit 图 1: 福特全顺 V348 LWB



Figure 2: VE83 LWB Ford Transit 图 2: 福特全顺 VE83 LWB



Figure 3: V348 Ford VAN Transit 图 3: 福特新世代全顺 V348

JMC Engine JMC 发动机厂

Product: 4JB1 engine, and PUMA engine*

Founded: 1995

Plant Capacity: 4JB1: 110,000 units/year and PUMA: 106,000 units/year

Operation: Engines

Employees: 937 employees

Site: 63,000m2

Floor Space: 51,000m2 ISO 14001Certified: 2001

*JMC engine also manufactures the Cylinder Heads, Cylinder Blocks, crankshafts and connecting Rods for its engines.

产品: 4JB1 发动机和 JX4D24 发动机*

成立年份: 1995年

产能: 4JB1: 11万台/年 PUMA: 10.6万台/年

工艺: 发动机

员工人数: 937人

占地面积: 6.3 万平方米

建筑面积: 5.1 万平方米

ISO 14001 认证年份: 2001 年

注: JMC 发动机厂同时还生产发动机配套的缸盖、缸体、曲轴和连杆。



Figure 4: PUMA Engine 图 4: PUMA 发动机



Figure 5: 4JB1 Engine 图 5: 4JB1 发动机

Corporate Climate Change Initiatives 集团气候变化管理计划

JMC is proud to be one of the first automobile companies to voluntarily report its GHG emissions in Mainland China. We believe that climate change is a serious environmental issue and recognize 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 gaining considerable experience in GHG reporting. Some of the initiatives are listed below:

JMC 是中国大陆首批自愿公布其 GHG 排放的汽车公司之一,为此,我们感到非常骄傲。我们相信气候变化是一个严重的环境问题,并认为我们不能等待所有的科学不确定性明朗以后再来行动。福特汽车公司正积极地参与全世界各种 GHG 计划并获得了一定的 GHG 报告的经验。以下是我们参与过的部分 GHG 管理计划:

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.

芝加哥气候交易所 (CCX)

芝加哥气候交易所(CCX) 是北美地区的 GHG 减排与交易系统。CCX 是由会员设计和治理,自愿形成的一套交易体系。这些成员自愿地通过法律约定的承诺在 2010 年前,基于 2000 年的基准值消减 GHG 排放量 6%。福特汽车公司是第一家,也是唯一一家参与这个计划的汽车制造公司。这个交易所已于 2010 年 11 月关闭。

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 试验计划

墨西哥 GHG 试验计划是由 La Secretaria de Medio Ambiente y Recursos Naturales (SEMARNAT)、世界资源研究所(WRI) 和世界可持续发展工商理事会(WBCSD) 发起的为期两年的合作计划。作为一个自愿计划,墨西哥 GHG 试验计划的成立旨在协助墨西哥企业计算其 GHG 排放量。福特汽车公司是唯一一家参与该计划的第一阶段的汽车制造企业,并承诺每年报告其排放量。

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. The second phase of this program runs from 2008-2012 and coincides with the first Kyoto Commitment Period. Details of the third phase of the program, beginning in 2013, are currently being finalized.

欧盟排放权交易方案(EU ETS)

福特汽车公司参与的 EU ETS 于 2005 年 1 月正式启动,是欧洲减少二氧化碳和其它 GHG 排放的方针的其中一个。该方案的第二阶段于 2008 年到 2012 年实施,这一时期也是《京都议定书》首次正式实施的时间。该方案的第三期最近已经完成,由 2013 年开始。

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 挑战与登记

从 1999 年起到 2006 年,福特汽车公司自愿向加拿大 GHG 挑战与登记(VCR)报告其年度 GHG 排放量。时至今日,福特汽车公司已经在 VCR 的报告系统里取得最高级别的成绩,包括获得汽车行业两次领导力奖,1999 年获得报告银奖以及在 2000~2003 年,2005~2006 年报告金奖。 加拿大挑战与登记已经于 2012 年 1 月 1 日停止。 福特汽车公司现正参加加拿大温室气体报告计划。

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. Ford ceased operations in the Philippines in 2012 and therefore, will no longer participate in the program.

菲律宾 GHG 计划

菲律宾 GHG 计算与报告计划(PhilGARP) 由马尼拉天文台的 Klima 气候变化中心、菲律宾环境商务部、环境与自然资源部、能源部、WBCSD 和 WRI 于 2006 年 11 月联合发起。福特于 2012 年关闭了菲律宾工厂,也不再参与该计划。

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.

气候变化注册组织 (TCR)

北美的气候变化注册组织(TCR)提供精准和透明的 GHG 排放测量方法,并保证各行业和地区使用一致的度量法。气候变化注册组织的下属统计机构即支持自愿的,也支持法定的管理计划。福特汽车公司是气候变化注册组织的创始成员,也是第一家加入该组织的汽车制造商。福特在 2011 年由独立第三方验证了所有福特北美温室气体排放量之后,成为气候变化组织的注册成员。

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 报告计划

巴西 GHG 计划由巴西环境部、巴西可持续发展商业理事会、the Fundação Getúlio Vargas、WBCSD 和 WRI 共同发起。巴西的福特汽车公司是巴西国内第一家自愿报告其 GHG 排放量的汽车制造商。

Methodology 方法

JMC uses a best in class 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). Please note that updated 2008 WRI emission factors are used in this report.

JMC 运用最高等级的能源监控系统和行业领先的全球排放管理(GEM)数据库,以确保环境因素例如二氧化碳排放量得到持续一致的跟踪。本报告的所有能源数据均包含在GEM 里,并通过工厂进行跟踪和修正。本报告的排放数据是通过世界能源研究所(WRI)建立的 GHG 计算工具计算得出。请注意,2008 年至 2012 年二氧化碳排放的计算是基于最新的 2008 年电排放系数。

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.

本报告包括由 WRI 和 WBCSD 协议里定义为范围一的直接排放源和范围二的间接排放源。报告里所有的二氧化碳排放量单位均为公制吨二氧化碳当量。其它 GHG,例如甲烷和一氧化二氮的排放估量在总排放量的 1%以下,因此忽略不计。其它排放源,如在汽

车空调初填充制冷剂时渗漏的含氟烃类,其排放量可视为总排放量 1.7%以下。本公司的制造工厂没有使用到全氟烃类和六氟化硫。表 1 里的排放指标是用作二氧化碳排放量的计算。

Please note that different coal emission factors are used for JMC Transit and JMC Engine respectively, because coals with different caloric values are used in these two plants.

请注意由于全顺厂和发动机厂所用的煤的品种不同,不同煤的排放指标也相应不同。

Table 1: Emission Factors 表 1: 排放指标

Fuel 燃料	Factor 排放指标
Diesel 柴油	0.002676tCO2/I
Coal (JMC Transit) 煤(JMC 全顺)	2.624tCO2/t
Coal (JMC Engine) 煤(JMC 发动机)	1.136tCO2/t
Electricity (2008) 电(2008)	0.0006892tCO2/KWh
Note: From WRI/WBCSD 来源: WRI和WBCSD	

Base Years 基准年

JMC began operations in 1987 and has increased production every year. We have selected the annual emissions in 2008 as our representative baseline going forward. The baseline takes into account all years for which we have accurate and complete energy data. Table 2 shows the direct and indirect emissions used to obtain the baseline. Note: Direct emissions are those generated on site (i.e. from diesel, petroleum fuel and coal use). Indirect emissions are those generated off site but attributable to car manufacturing (i.e. electricity used on site).

JMC 于 1987 年开始运行,产量逐年递增。我们选取 2008 年度的平均年排放量作为我们的基准值。该基准值考虑到所有能源数据精确而完整的年份。表 2 显示了用作计算基准值的直接和间接排放。注:直接排放来自厂内(如燃烧天然气以及石油类燃料)。间接排放来自于厂外,但是归于汽车制造过程(如厂内用电)。

Table 2: Direct and Indirect Emissions Baseline

表 2: 直接和间接排放基准值

JMC Transit			
Direct Emissions (metric tCO2) 直接排放(吨 CO2)	Indirect Emissions (metric tCO2) 间接排放(吨 CO2)	Production 产量	
2008	2008	2008	
9,633	22,383	27,001	
JMC Engine			
Direct Emissions (metric tCO2) 直接排放(吨 CO2)	Indirect Emissions (metric tCO2) 间接排放 (吨 CO2)	Production 产量	
2008	2008	2008	
1,584	8,205	98,920	

GHG Emissions Data GHG 排放数据

JMC Transit and JMC Engine plants were constructed with state of the art technology that allows the plants to operate in an energy efficient manner. JMC's internal energy management and control process allows the plants to monitor energy usage throughout the facilities and identify areas that can be improved.

JMC 运用最先进的技术建造工厂使其运作可以达到高效节能。JMC 的内部能源管理和控制流程可以监控工厂内部各部门的能源使用并识别出可以改进的地方。

Table 3 below summarizes JMC Transit and Engine plant energy consumption from 2008-2012.

表 3 汇总了 JMC 全顺厂和发动机厂 2008-2012 年度的能耗。

Table 3: JMC Energy Consumption From 2008-2012 表 3: JMC 2008 - 2012 年能耗

JMC Transit			
Period 年份	Fuel Oil (I) 燃油(I)	Coal (tons) 煤(t)	Electricity (KWH) 电(KWH)
2008	2,546,483	1,051	32,476,221
2009	2,471,389	1,343	34,827,845
2010	3,166,129	1,602	43,678,174
2011	3,028,454	1,485	45,522,683
2012	2,816,657	1,632	43,709,609
JMC Engine			
Period	Fuel Oil (I)	Coal (tons)	Electricity (KWH)
年份	燃油(I)	煤(t)	电(KWH)

2008	186,450	951	11,904,647
2009	189,500	1,044	13,743,414
2010	656,000	1,457	16,569,670
2011	460,500	1,375	17,363,941
2012	483,150	1,175	16,845,410

Direct Emissions:

Direct Emissions result from combusting fuels at the JMC plants including diesel and coal. Most gasoline purchased is used to fill new vehicle fuel tanks leaving the site and not for on-site combustion.

直接排放:

JMC 的直接排放来自于燃烧柴油以及煤的排放。大部分购买的汽油用于新车出厂前油箱的填充而不是厂内燃烧用的。

Indirect Emissions

JMC Indirect Emissions include all emissions generated outside the site's perimeter such as emissions from burning fossil fuel to generate electricity. JMC 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 2008-2012.

间接排放:

JMC 的间接排放包括厂外产生的全部排放,例如用来发电的化石燃料。JMC 长期监控其用电量。但是用电量受生产影响较大,生产量加大,用电量也随之增大。表 4 显示了工厂 2008-2012 年的直接,间接排放量以及排放强度。

Table 4: JMC Total Emissions and Emission Intensity

表 4: JMC 排放总量及排放强度

JMC Transit			
Year 年份	Total Emission (tCO2) 排放总量 (吨 CO2)		Emission Intensity (tCO2/unit) 排放强度
	Direct Emissions (tCO2) 直接排放(吨 CO2)	Indirect Emissions (tCO2) 间接排放(吨 CO2)	₩ 从 强没 (吨 CO2/车)
2008	9,633	22,383	1.19
2009	10,197	24,003	1.00
2010	12,676	30,103	0.80
2011	12,001	31,374	0.76
2012	11,808	30,125	0.73
JMC Engine			
		Total Emission (tCO2) 排放总量 (吨 CO2)	
Voor		` '	Emission Intensity (tCO2/unit) 非故理度
Year 年份		` '	
	排放总量(Direct Emissions (tCO2)	(吨 CO2) Indirect Emissions (tCO2)	(tCO2/unit) 排放强度
年份	排放总量(Direct Emissions (tCO2) 直接排放(吨 CO2)	(吨 CO2) Indirect Emissions (tCO2) 间接排放(吨 CO2)	(tCO2/unit) 排放强度 (吨 CO2/发动机)
年份	排放总量(Direct Emissions (tCO2) 直接排放(吨 CO2) 1,584	(吨 CO2) Indirect Emissions (tCO2) 间接排放(吨 CO2) 8,205	(tCO2/unit) 排放强度 (吨 CO2/发动机) 0.099
年份 2008 2009	排放总量(Direct Emissions (tCO2) 直接排放(吨 CO2) 1,584 1,698	(吨 CO2) Indirect Emissions (tCO2) 间接排放(吨 CO2) 8,205 9,472	(tCO2/unit) 排放强度 (吨 CO2/发动机) 0.099 0.096

Disclaimer: The calculation is based on electricity emission factors provided by WRI every year. Please note the most up to date 2008 WRI electricity emission factors were used for the 2008~2012 CO2 emission calculations. 注: 所有排放总量的计算都是基于 WRI 每年更新的系数。2008 年至 2012 年二氧化碳排放的计算是基于最新的 2008 年电排

Data Analysis 数据分析

JMC Transit experienced a 0.6% production increase from 2011 to 2012, while JMC Engine's 2012 production is 0.8% higher than 2011.

JMC 全顺厂 2012 年的产量比 2011 年增长了 0.6%, JMC 发动机厂 2012 年的产量比 2011 年增长了 0.8%。

JMC Total Emissions JMC 总排放

Overall JMC (JMC Transit and JMC Engine combined) has increased its total emissions in 2012 by 34.3% compared to the baseline year.

总体来说,JMC(包括 JMC 全顺厂和 JMC 发动机厂)2012 年的排放总量比基准年上升了34.3%。

For the purposes of providing a detailed analysis we have separated the GHG emissions by type of operation (Engine and Assembly).

为了提供具体分析,我们将 GHG 排放依照生产类型(发动机和总装)分别计算。

JMC Transit Assembly JMC 全顺总装厂

In 2012, JMC Transit increased its total GHG emissions by 31% compared with the 2008 baseline year and decreased 3.3% compared to 2011.

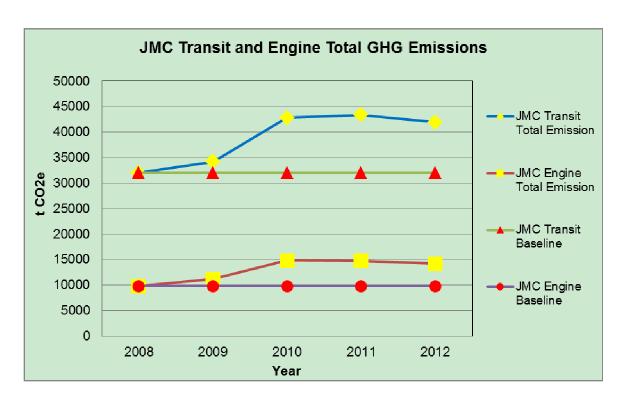
2012 年, JMC 全顺厂的 GHG 排放总量相对于基准年(2008)上升了 31%,相对 2011 年下降了 3.3%。

JMC Engine JMC 发动机厂

The JMC Engine Plant has increased its total GHG emissions in 2012 by 45.4% compared to the 2008 baseline year and decreased 3.6% compared to 2011. Figure 6 shows JMC Transit and Engine Total GHG emissions from 2008 to 2012.

2012 年,JMC 发动厂的 GHG 排放总量相对于基准年(2008)上升了 45.4%,相对 2011 年下降了 3.6%。图 6显示了 JMC 全顺厂和发动机厂 2008 至 2012 年的 GHG 排放总量。





Emission intensity is calculated by dividing total emissions by the number of production units (vehicles built).

排放强度的计算是基于排放总量除以生产单位的个数(即汽车)。

As shown in Figure 7, 2012 JMC Transit emissions intensity (per unit) decreased approximately 3.5% from 2011. The 2012 emission intensities decreased approximately 38.3% from the 2008 baseline period.

如图 7 所示, JMC 全顺厂 2012 年的排放强度(每单位)比 2011 年起下降了 3.5%。2012年的排放强度比基准时期(2008年)降低 38.3%左右。

As shown in Figure 7, 2012 JMC Engine emissions intensity decreased approximately 4.2% from 2011. The 2012 emission intensities decreased approximately 16.8% from the 2008 baseline period.

如图 7 所示, JMC 发动机厂 2012 年的排放强度(每单位)比 2011 年起下降了 4.2%。2012年的排放强度比基准时期(2008年)降低 16.8%左右。

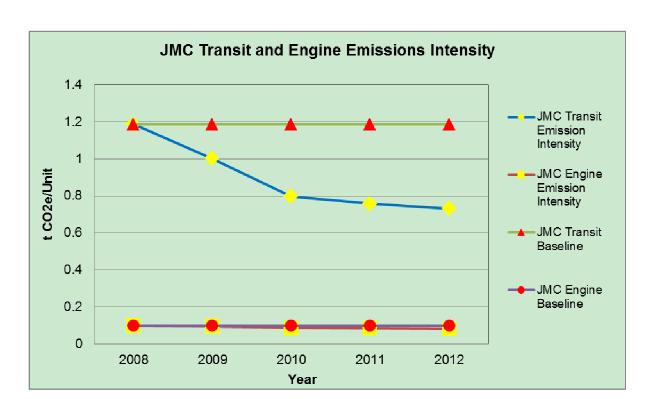


Figure 7: JMC Transit and Engine GHG Emissions Intensity 图 7: JMC 全顺厂以及发动机厂 GHG 排放强度

Conclusions 结论

Jiangling Motors Corporation, Ltd. (JMC) is proud to present its fourth GHG emissions inventory building upon the prior achievement of becoming the first automobile company in Mainland China to voluntarily report its facility GHG emissions. JMC recognizes the importance of the climate change issue and supports emissions reporting at a national level. JMC is committed to improving energy efficiency, reducing GHG emissions, and meeting or exceeding environmental standards.

江铃汽车股份有限公司(简称 JMC)作为中国大陆首家自愿公布其工厂 GHG 排放的汽车公司,现隆重发布第四份 GHG 排放总量报告。JMC 认识到气候变化问题的重要

- JMC 2012 GHG Inventory

性,并在国家层面上支持 GHG 排放的公布。JMC 致力于提高能效,减少温室气体排放,同时保持并超越自身的环境标准。