



VERIFICATION REPORT

ORGANIZATION

Company name	Address
Ford Motor Company	290 Town Center Dr. Dearborn MI 48126

Point-of-contact name	Point-of-contact email	Point-of-contact phone
Lori Cmar	lcmar@ford.com	(313) 594-1710

INTRODUCTION

Assertion

AWMS has determined that the client's emissions report(s) for the year of 2013 may be **Verified without Qualifications**.

Discrepancies found during this verification total less than the materiality threshold of 5% each for Scope 1 and Scope 2.

Client was found to have utilized simplified estimation methods for less than 5% of the total emissions.

Verification Team

Beth Rearden	Lead Verifier
Jim Mullican	Peer Reviewer

VERIFICATION SCOPE

The emissions sources of this verification included Ford Motor Company's global manufacturing operations. Offices/leased space emissions were excluded from the verification.

The scope of this verification was:

- Physical infrastructure, activities, technologies and processes of the organization;
- GHG sources, sinks, reservoirs;
- Types of GHGs;
- Time periods.

Scope 1 emissions include only stationary combustion. Scope 2 emissions include only electricity.

Site	Site activities / GHG SSRs	Types of GHGs	Emission year(s)
See Attached Table		CO2	2013

VERIFICATION OBJECTIVES

This verification was performed with the objectives to confirm:

- Conformance with applicable verification criteria, including the principles and requirements of relevant standards or GHG programs, within the scope of the verification;
- The client's GHG inventory of GHG emissions and removals;
- Any significant changes in the client's GHG inventory since the last reporting;
- The client's GHG-related controls.



VERIFICATION CRITERIA

Criteria for this verification were:

- a) Ford EY 2013 Inventory Management Plan
- b) Ford EQS09-001 (February 6, 2014)

LEVEL OF ASSURANCE

This verification was performed to a Limited level of assurance. This is defined as ensuring there is no evidence that an emission report is not materially correct.

MATERIALITY

TCR sets the materiality threshold at 5% each (absolute basis) of Scope 1 and of Scope 2 emissions. These emissions must be accurate to within the 5% limit in order to issue a successful verification statement. Any misstatements below this limit may remain however they are noted within this report.

CLIENT'S REPRESENTATIVES HAVING SIGNIFICANT DIRECT RESPONSIBILITIES REGARDING GHGMS

Lori Cmar

Senior Environmental Engineer

DESCRIPTION OF WORK

AWMS conducted a risk analysis of Ford Global's CO2 emissions inventory based upon the Ford Global Spreadsheet: 2013_CO2_and_Energy_Sust_013_GV_Finalv2.xls. Sites were selected for a detailed desk verification (verification based upon a review of the GEM database and independent calculations) using this risk analysis. A qualified lead verifier independent of these activities conducted an independent peer review (independent calculations).

VERIFICATION PLAN

The client and AWMS agreed upon a verification plan on 8/7/2014.

FACILITIES / CALCULATIONS USING ALTERNATIVE METHODOLOGIES

The client used the criteria defined above to calculate their emission inventory.

RISK ANALYSIS

- Methodologies for determining representative samples
- Risks of potential error, omissions, or misrepresentations



Scope analysis

Scope 1

Site	Tons CO2e	% of scope	% of change	Total change
AP CAF Chongqing 1 Assy Energy	27,757.4859	1.77%	0.20%	
AP CAF Chongqing 2 Assy Energy	18,783.903	1.21%	0.44%	
EU Valencia Site CO2 Footprint	92,466.539	5.97%	0.96%	
EU Kocaeli VO Assembly Energy Footprint	44,686.365	2.88%	-0.20%	
NA Kansas City Site Energy	82,936.31045	5.36%	1.08%	
NA Research and Engineering Energy	79,870.05771	5.16%	0.74%	
NA Kentucky Truck Plant Energy	77,962.08096	5.03%	0.32%	
SA Valencia Assembly (VE) Energy	30,542.163	1.97%	1.01%	
SA Pacheco Site Energy	22,440.896	1.45%	-0.47%	
Total	477,138.82412	30.80%		4.08%

Scope 2

Site	Tons CO2e	% of scope	% of change	Total change
AP CAF Chongqing 1 Assy Energy	70,250.621	2.10%	-0.27%	
AP CAF Chongqing 2 Assy Energy	66,957.715	2.00%	0.43%	
EU Kocaeli VO Assembly Energy Footprint	91,308.169	2.73%	-0.68%	
EU Saarlouis Press and Assembly Energy Footprint	101,724.267	3.05%	-0.33%	
NA Research and Engineering Energy	154,998.26720	4.64%	-0.05%	
NA Kentucky Truck Plant Energy	135,856.70815	4.07%	0.11%	
SA Pacheco Site Energy	36,275.88906	1.09%	-0.02%	
SA Bahia Assembly Energy	15,805.54477	0.47%	0.15%	
Total	673,177.18118	20.15%		-0.66%

Potential inherent risks identified

Incompleteness, inaccuracies, inconsistencies:

- None observed during this risk analysis (+)

Data management weaknesses:

- Data management has been noted as a strength during previous verifications (+)
- Large number of sites and sources (-)

Control risks:

- None observed during this risk analysis (+)
- Ford uses direct source data to generate the majority of the inventory (+)

The residual risks to be sampled were determined by the following criteria:

- A site contribution of greater than or equal to 5% to scope 1 or scope 2 emissions;
- A site contribution of greater than or equal to 1% of the changes to scope 1 or scope 2 emissions;



- The two largest contributing sites from each global region (AP, EU, NA, SA) if neither of the other conditions are not met.

RESIDUAL RISKS SAMPLED

Site	Activity	Source	Records Req.
AP CAF Chongqing 1 Assy Energy	Stationary Combustion	NG_CO2_T	Yes
	Purchased Electricity	INELECIN_CO2_T	Yes
AP AF Chongqing 2 Assy Energy	Purchased Electricity	INELECIN_CO2_T	Yes
EU Valencia Site CO2 Footprint	Stationary Combustion	NG_CO2_T	Yes
	Purchased Electricity	INELECIN_CO2_T	Yes
EU Kocaeli VO Assembly Energy	Stationary combustion	NG_CO2_T	Yes
	Purchased electricity	INELECIN_CO2_T	Yes
NA Kansas City Site Energy	Stationary combustion	NG_CO2_T	No
NA Research and Engineering Energy	Stationary combustion	NG_CO2_T	No
	Purchased electricity	INELECIN_CO2_T	No
NA Kentucky Truck Plant Energy	Stationary combustion	NG_CO2_T	No
	Purchased electricity	INELECIN_CO2_T	No
SA Valencia Assembly (VE) Energy	Stationary Combustion	NG_CO2_T	Yes
SA Pacheco Site Energy	Stationary Combustion	NG_M3_CM	Yes
SA Bahia Assembly Energy	Purchased electricity	INELECIN_CO2_T	Yes

GHG INFORMATION VERIFIED

2013 Ford Global Sustainability Report Data

Site / Facility	Scope 1 Tons CO2	Scope 2 tons CO2
TOTAL	1,482,020.32	3,440,266.65

2013 Sustainability Report Data Sampled

Site / Facility	Scope 1 Tons CO2	Scope 2 tons CO2
NA Research and Engineering Energy	79,870.057	154,998.267
NA Kentucky Truck Plant Energy	77,962.081	135,856.708
EU Saarlouis Press and Assembly Energy Footprint	N/A	101,724.267
EU Kocaeli VO Assembly Energy Footprint	44,686.365	91,308.169
AP CAF Chongqing 1 Assy Energy	27,757.486	70,250.621
AP CAF Chongqing 2 Assy Energy	18,783.903	66,957.715
SA Pacheco Site Energy	22,440.896	36,275.889
SA Bahia Assembly Energy	N/A	15,805.544
EU Valencia Site CO2 Footprint	92,466.539	N/A
NA Kansas City Site Energy	82,936.310	N/A
SA Valencia Assembly (VE) Energy	30,542.163	N/A
TOTAL		



RECALCULATION RESULTS

Scope 1

Site / Facility	Activity	Discrepancy (tons CO2)	% Difference
AP CAF Chongqing 1 Assy Energy	Natural Gas	0.00	0.00%
AP CAF Chongqing 2 Assy Energy	Natural Gas	0.00	0.00%
EU Valencia Site CO2 Footprint	Natural Gas	-73.321	-0.079%
EU Kocaeli VO Assembly Energy Footprint	Natural Gas	-145.111	-0.324%
NA Kansas City Site Energy	Natural Gas	-61.682	-0.074%
NA Research and Engineering Energy	Natural Gas	-59.405	-0.074%
NA Kentucky Truck Plant Energy	Natural Gas	-57.982	-0.074%
SA Valencia Assembly (VE) Energy	Natural Gas	-629.0438	-0.680%
SA Pacheco Site Energy	Natural Gas	0.00	0.00%
TOTAL		-1026.5448	-1.31%

Scope 2

Site / Facility	Activity	Discrepancy	% Difference
AP CAF Chongqing 1 Assy Energy	Purchased Elec	20.392	.029%
AP CAF Chongqing 2 Assy Energy	Purchased Elec	19.436	.029%
EU Kocaeli VO Assembly Energy Footprint	Purchased Elec	0.00	0.00%
EU Saarlouis Press and Assembly Energy Footprint	Purchased Elec	0.00	0.00%
NA Research and Engineering Energy	Purchased Elec	0.00	0.00%
NA Kentucky Truck Plant Energy	Purchased Elec	0.00	0.00%
SA Pacheco Site Energy	Purchased Elec	0.00	0.00%
SA Bahia Assembly Energy	Purchased Elec	0.00	0.00%
TOTAL		39.828	0.06%

CONFORMANCE WITH PROTOCOLS

Risk analysis

	Requirement	Yes	No	Notes
1	Are appropriate methods used to manage and implement entity-wide GHG emissions reporting programs? If the Client has more than one facility, is the emissions data correctly monitored?	✓		An extensive data collection system incorporating Business Objects software and Microsoft Excel spreadsheets to collect data from all sites on a monthly basis.
2	Is a qualified individual responsible for managing and reporting GHG emissions?	✓		Ford employs highly qualified in-house staff to oversee the GHG management system.
3	Is appropriate training provided to personnel assigned to GHG emissions reporting duties? If the Client relies on external staff to perform required activities, are the contractors' qualified to undertake such work?	✓		See 5
4	Are appropriate documents created to support and/or substantiate activities related to GHG emissions reporting	✓		Appropriate documentation was provided for the verification process.



	activities, and is such documentation retained appropriately? For example, is such documentation maintained through reporting plans or procedures, utility bills, etc.?			
5	Are appropriate mechanisms used to measure and review the effectiveness of GHG emissions reporting programs? For example, are policies, procedures, and practices evaluated and updated at appropriate intervals?	✓		
6	Does the system account for the diversity of the sources that comprise each emission category? For example, are there multiple types of vehicles and other transportation devices that require different emission estimation methodologies?	✓		Verified through the sampling process.
7	Do you know the diversity of GHGs emitted from each emission source category?	✓		Verified through the sampling process.
8	Are the methodologies, data sources and emission factors documented and explained appropriately?	✓		
9	Does the Client's GHG management system appropriately track emissions in all of the emission source categories?			N/A

Emission estimates

	Requirement	Yes	No	Notes
1	Are the reported electricity, steam, and district heating and cooling use consistent with utility bills?	✓		
2	Is the reported total stationary fuel use by fuel type consistent with the fuel use records?	✓		
3	Is the reported total consumption of fuels in motor vehicles consistent with available documentation and by vehicle type? If the entity calculates transportation emissions based on vehicle mileage, is the reported vehicle mileage consistent with vehicle mileage records?			N/A
4	Is the reported process and fugitive emissions consistent with activity data or maintenance records?			N/A
5	Are the emission factors used by the Client appropriate?	✓		WRI factors are used which were verified through review of WRI tables
5a	If default factors are not used, do the alternative emission factors provide increased accuracy?			N/A
5b	Is the derivation and explanation of increased accuracy properly documented and reasonable?	✓		
6	Does a sample of the Client's calculations agree with your re-calculated Scope 1 (mobile, stationary, process & fugitive), Scope 2, and Direct Biogenic CO ₂ (Mobile and Stationary) emissions estimates? Have you documented your process for determining the appropriate sampling plan?	✓		See recalculation results
7	Are all required GHG emissions included?			N/A
8	Are discrepancies between your emissions estimates and the Client's immaterial?	✓		



QUALIFICATION AND DISCREPANCIES

There are no qualifications to this verification.

Final discrepancies are recorded in the “Recalculation Results” section of this report.

A list of issues and corrective actions found during this verification is attached to this report.

CONCLUSIONS

The Ford Global EY2013 Global emission inventory is **Verified without Qualification**.

VERIFICATION BODY

Advanced Waste Management Systems, Inc. (AWMS)
6430 Hixson Pike, Hixson, TN 37343
(423) 843-2206

APPROVAL

Beth Rearden
AWMS Lead Verifier

4/30/15
Date

James Mullican
AWMS Peer Reviewer

4/30/15
Date