



Verification Scope

SCS conducted independent third-party verification services according to the Verification Objectives and Verification Criteria to provide assurance that Owens Corning’s reported GHG inventory is accurate and complete. This project includes the assessment and verification of the inventory GHG emissions reported by Owens Corning for all Scope 1 and 2 emissions, as well as all reported categories for Scope 3 emissions as calculated using EIO-LCA software and other methods.

Verification Objectives

- Evaluate to a reasonable level of assurance whether Owens Corning has a GHG emissions reporting program consistent with The Greenhouse Gas Protocol developed by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCD).
- Evaluate the reasonableness of the data that Owens Corning has prepared to report for calendar year 2016, as described in project documentation, against the WRI/WBCSD Greenhouse Gas Protocol reporting guidelines.
- Evaluate to a limited level of assurance whether Owens Corning has completely and accurately measured and reported their total Scope 3 emissions, have reported all applicable data of emissions sources, and have correctly utilized the EIO-LCA software to report their Scope 3 data.

Verification Criteria

- World Resources Institute/World Business Council for Sustainable Development’s “The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)” dated March 2004.
- GHG Protocol Scope 2 Guidance: An amendment to the GHG Protocol Corporate Standard
- Corporate Value Chain (Scope 3) Accounting and Reporting Standard: Supplement to the GHG Protocol Corporate Accounting and Reporting Standard
- ISO 14064-3: 2006 *Specification with guidance for the validation and verification of GHG assertion*
- ISAE 3000 (Revised): Assurance Engagement Other than Audits or Reviews of Historical Financial Information

Total Entity-Wide Emissions Verified: 7,752,059 mt CO2e

Scope 1 Emissions: 2,559,224 mt CO2-e							
CO ₂	CH ₄	N ₂ O	HFCs	HCFCs	PFCs	SF ₆	NF ₃
1,186,687	567	779	781,514	589,678	0	0	0

Scope 2 Emissions (Location Based) : 1,398,725 mt CO2-e		
CO ₂	CH ₄	N ₂ O
1,393,269	2,003	3,453

Scope 2 Emissions (Market Based): 1,388,792 mt CO2-e		
CO ₂	CH ₄	N ₂ O
1,385,873	1,075	1,843

Scope 3 Emissions: 3,804,042 mt CO2-e							
CO ₂	CH ₄	N ₂ O	HFCs	HCFCs	PFCs	SF ₆	NF ₃
3,804,042	0	0	0	0	0	0	0



Owens Corning

Energy Consumed: Fuels								
Natural Gas MWH	Light Oil MWH	Gasoline MWH	Heavy Oil MWH	Propane MWH	Diesel MWH	LPG MWH	Kerosene MWH	Coke MWH
5,325,218	113,221	776	2,709	53,689	11,928	3,027	284	76,724

Total Energy Consumed: Electricity	
Electricity, MWH	
2,879,767	

* MWH is Megawatt hours

Verification Opinion

This Verification Statement documents that SCS Global Services has conducted verification activities in compliance with ISO 14064-3: Specification with guidance for the validation and verification of greenhouse gas assertions. This statement also attests that SCS Global Services can provide reasonable assurance that Owens Corning’s reported Scope 1 and Scope 2 greenhouse gas emissions from 1 January 2016 to 31 December 2016 are in all material respects in accordance with the reporting criteria. Furthermore, SCS Global Services can provide limited assurance, based on the procedures performed and evidence obtained, that no matters have come to the attention of the audit team to cause the verification body to believe that Owens Corning’s reported Scope 3 greenhouse gas emissions from 1 January 2016 to 31 December 2016 were materially misstated.

SCS applies the International Standard *ISO 14065:2013 - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition* and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

In accordance with the requirements of ISAE 3000, SCS has complied with the commercial independence and other ethical requirements of the International Standard *ISO 14065:2013 - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition*, which is founded on fundamental principles of impartiality, competence, objective decision making, openness, and confidentiality.

Verification Date: May 12, 2017



Tina Sentner
Lead Verifier, Greenhouse Gas Verification



Assessment Statement DJSI Environmental for Water Owens Corning

Assessment Scope

SCS conducted independent third-party assessment services to provide a limited level of assurance that Owens Corning’s (OC) Water Consumption Metrics are without material misstatement. This assessment included the examination of supporting documentation and secondary sources of information, as well as, the review of processes and procedures for the internal calculations of Water Withdrawn and Consumed as directed by the Dow Jones Sustainability Index (DJSI) Sustainability Assessment disclosure form.

Assessment Objectives

- Evaluate to a limited level of assurance whether Owens Corning has measured and calculated their water consumption, as described in CDP water use framework.
- Evaluate to a limited level of assurance the reasonableness of the data that Owens Corning has prepared in order to measure and calculate their water usage for high risk facilities, as described in the CDP water use framework.

Assessment Criteria

- CDP 2017 water usage metrics (water withdrawals, discharges and consumption)

Assessment Metrics:

Water Withdrawal: Cubic Meters				
Surface Water	Water	Water – Storm water	Water - Third Party Supplier	Water - Well Water
351,140	6,919,823	49,556	75,248	2,836,661
Water Consumed: Cubic Meters				
Water - Evaporation (consumption)				
4,093,747				

Assessment Opinion

This Assessment Statement asserts that SCS Global Services has conducted assessment activities in order to evaluate the reasonableness of the data that Owens Corning has prepared for the specified criteria above. Furthermore, SCS Global Services can provide limited assurance, based on the procedures performed and evidence obtained, that no matters have come to the attention of the audit team to cause the verification body to believe that Owens Corning’s reported Water Withdrawal and Consumption were materially misstated.

In accordance with the requirements of ISAE 3000, SCS has complied with the commercial independence and other ethical requirements of the International Standard ISO 14065:2013 - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition, which is founded on fundamental principles of impartiality, competence, objective decision making, openness, and confidentiality.

Assessment Date: May 12, 2017

Tina Sentner
Lead Verifier

Assessment Scope

SCS conducted independent third-party assessment services to provide a limited level of assurance that Owens Corning’s (OC) selected economic and social Key Performance Indicators (KPI) are without material misstatement. This assessment included the examination of supporting documentation and secondary sources of information, as well as, the review of processes and procedures for the internal calculations of the selected economic and social KPI metrics as directed by the Dow Jones Sustainability Index (DJSI) Sustainability Assessment disclosure form.

Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.1.3 – Social Reporting – Quantitative Data		
	Please specify the KPI and attach the public reference together with the page number where the social indicator is publicly reported:	Please specify the target that is linked to the KPI and attach the public reference together with the page number where the target of the social indicator is publicly reported:
KPI 1	KPI: Safety and Wellness: While we are committed to eliminating all injuries (goal of 0), our interim goal is to make progress on our march to zero by demonstrating a reduction in the number of injuries year over year. Living safely is a core value of Owens Corning.	2016 Target: 84 injuries 2016 Results: 90 injuries 2017 Target: Reduction from 90 injuries reported in 2016 https://www.owenscorning.com/corporate/sustainability/journey/goals
KPI 2	KPI: Owens Corning’s employees are our number one asset and we are committed to our employee’s development. For 2017, we are demonstrating that commitment by striving for 13 hours of training per employee focused on both the quality and quantity of development beyond basic compliance training.	2016 Target: 30 hours of training 2016 Results: 18.08 hours of training 2017 Target: 13 hours of training per employee beyond basic compliance training in 2017 https://www.owenscorning.com/corporate/sustainability/journey/goals
KPI 3	KPI: Community Impact: our 5 year goal is to have every facility participate in at least one community engagement.	2016 Target: 70% of facilities would have at least one community engagement 2016 Results: 72% of facilities participated in at least one community engagement 2017 Target: 100% of facilities participate in at least one community engagement by 2020 https://www.owenscorning.com/corporate/sustainability/journey/goals

Assessment Opinion

This Assessment Statement asserts that SCS Global Services has conducted assessment activities in order to evaluate the reasonableness of the data that Owens Corning has prepared for the specified Dow Jones Sustainability KPI metrics. Furthermore, SCS Global Services can provide limited assurance, based on the procedures performed and evidence obtained, that no matters have come to the attention of the audit team to cause the verification body to believe that Owens Corning’s reported DJSI economic and social key performance indicators were materially misstated.

Assessment Date: May 31, 2017



Holly Capell

Verifier, Greenhouse Gas Verification

In accordance with the requirements of ISAE 3000, SCS has complied with the commercial independence and other ethical requirements of the International Standard ISO 14065:2013 - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition, which is founded on fundamental principles of impartiality, competence, objective decision making, openness, and confidentiality.



Assessment Statement

DJSI Economic and Social Key Performance Indicators

Owens Corning

Assessment Scope

SCS conducted independent third-party assessment services to provide a limited level of assurance that Owens Corning’s (OC) selected economic and social Key Performance Indicators (KPI) are without material misstatement. This assessment included the examination of supporting documentation and secondary sources of information, as well as, the review of processes and procedures for the internal calculations of the selected economic and social KPI metrics as directed by the Dow Jones Sustainability Index (DJSI) Sustainability Assessment disclosure form.

Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.7.3 – Fatalities (total no) Employees & Contractors				
Fatalities	FY 2013	FY 2014	FY 2015	FY 2016
Employees (work-related fatalities)	0	0	0	0
Contractors (work-related fatalities)	0	0	0	0

Assessment Opinion

This Assessment Statement asserts that SCS Global Services has conducted assessment activities in order to evaluate the reasonableness of the data that Owens Corning has prepared for the specified Dow Jones Sustainability KPI metrics. Furthermore, SCS Global Services can provide limited assurance, based on the procedures performed and evidence obtained, that no matters have come to the attention of the audit team to cause the verification body to believe that Owens Corning’s reported DJSI economic and social key performance indicators were materially misstated.

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Assessment Date: May 15, 2017

Holly Capell
 Verifier, Greenhouse Gas Verification



Assessment Statement

DJSI Economic and Social Key Performance Indicators

Owens Corning

Assessment Scope

SCS conducted independent third-party assessment services to provide a limited level of assurance that Owens Corning’s (OC) selected economic and social Key Performance Indicators (KPI) are without material misstatement. This assessment included the examination of supporting documentation and secondary sources of information, as well as, the review of processes and procedures for the internal calculations of the selected economic and social KPI metrics as directed by the Dow Jones Sustainability Index (DJSI) Sustainability Assessment disclosure form.

Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.7.4 – Lost-Time Injuries Frequency Rate (LTIFR) – Employees					
LTIFR	Unit	FY 2013	FY 2014	FY 2015	FY 2016
Employees	n/million hours worked	1.34	1.32	1.72	1.28

Assessment Opinion

This Assessment Statement asserts that SCS Global Services has conducted assessment activities in order to evaluate the reasonableness of the data that Owens Corning has prepared for the specified Dow Jones Sustainability KPI metrics. Furthermore, SCS Global Services can provide limited assurance, based on the procedures performed and evidence obtained, that no matters have come to the attention of the audit team to cause the verification body to believe that Owens Corning’s reported DJSI economic and social key performance indicators were materially misstated.

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Assessment Date: May 15, 2017

Holly Capell

Verifier, Greenhouse Gas Verification



Assessment Statement

DJSI Economic and Social Key Performance Indicators

Owens Corning

Assessment Scope

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Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.7.5 – Lost-Time Injuries Frequency Rate (LTIFR) – Contractors					
LTIFR	Unit	FY 2013	FY 2014	FY 2015	FY 2016
Contractors	n/million hours worked	1.84	1.24	0.00	0.00

Assessment Opinion

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Assessment Statement

DJSI Economic and Social Key Performance Indicators

Owens Corning

Assessment Scope

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Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.7.6 – Occupational Illness Frequency Rate (OIFR) - Employees					
LTIFR	Unit	FY 2013	FY 2014	FY 2015	FY 2016
Employees	n/million hours worked	0.06	0.03	0.03	0.08

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Assessment Metrics:

DJSI 3.6.2 – Type of Philanthropic Activities

Figures indicating the types of philanthropic activities – charitable donations, community investments, and commercial initiatives – and each activities’ percentage of total cost of all philanthropy.

DJSI 3.6.3 – Input

Figures indicating the types contributions – cash, time (employee volunteering during paid working hours), in-kind giving (product or services donations, project/partnerships or similar), and management overheads – and the total amount in currency for each.

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Assessment Objectives

- Assess to a limited level of assurance the reasonableness of the data that Owens Corning has prepared for the OC specified Dow Jones Sustainability Index economic and social KPI Metrics.

Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 1.1.11 Disclosure of Median or Mean Compensation of all Employees & CEO Compensation

Figures that indicate the annual compensation for the Chief Executive Officer and the median of the annual compensation of all other employees as well as the ratio between the two.

Assessment Opinion

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Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.4.1 – Training & Development Inputs

Figures that indicate the average hours per FTE of training and development, the average amount spent per FTE on training and development in USD, and the percentage of open positions filled by internal candidates.

DJSI 3.4.3 – Human Capital Return on Investment

Figures that indicate the total revenue, total operating expenses, total employees-related expenses (salaries and benefits), the total FTE, and the resulting HC ROI for each year from 2013-2016.

Assessment Opinion

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Assessment Objectives

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Assessment Criteria

- DJSI Sustainability Assessment 2017

Assessment Metrics:

DJSI 3.2.2 Labor KPIs - Equal Remuneration

Figures that indicate the average remuneration values of both males and females at the executive level, the management level, and the non-management level.

DJSI 3.2.1 Labor KPIs - Diversity

Figures that indicate the female share of total workforce; the share of females in management positions; the share of females in junior management positions; the share of females in top management positions; and the breakdown of workforce based on minority, culture or other similar criteria.

Assessment Opinion

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Holly Capell
Verifier, Greenhouse Gas
Verification