

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2017 of
Delta Electronics, Inc.

186 Ruey Kuang Road, Neihu,
Taipei 11491, Taiwan



has been verified in accordance with ISO 14064-3:2006

Scope 3: Other indirect emissions
377,498.069 tonnes of CO₂e

Authorized by

David Huang
Director

Date: 21 May 2018

Version 1

TGP 5615A-2 1801
SGS Taiwan Ltd.
No. 136-1, Wu Kung Road, New Taipei Industrial Park, Wu Ku District,
New Taipei City 24803, Taiwan
t (02) 22993279 f (02)22999453 www.sgs.com



Target	Scope 3: Other indirect emissions	
Bondary	<ul style="list-style-type: none"> Delta Electronics (Jiangsu) Ltd. (Wujiang Plant) : 1688, Jiangxing East Rd., Wujiang Eco & Tech Development Zone, Wujiang City, Jiangsu., P.R.C. 215200 Delta Electronics (Thailand) Public Co., Ltd. (DET Plant 1) : 714 Soi E5, Moo 4, Bangpoo Industrial Estate (E.P.Z), Pattana 1 Rd., Tambon Phraksa, Amphur Muang, Samutprakarn 10280, Thailand Delta Electronics (Thailand) Public Co., Ltd. (DET Plant 5) : 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z), Pattana 1 Rd., Tambon Phraksa, Amphur Muang, Samutprakarn 10280, Thailand Delta Electronics, Inc. (Taoyuan Plant 1) : 31-1 Xingbang Road, Guishan Industrial Zone, Taoyuan City 33370, Taiwan Delta Electronics, Inc. (Taoyuan Plant 2) : 252 Shangying Road, Guishan Industrial Zone, Taoyuan City, 33341, Taiwan 	
Data Period	From 01 January 2017 to 31 December 2017	
Category	Description	Emissions (tonnes of CO ₂ e)
01 Purchased goods and services	<ul style="list-style-type: none"> Product: ESR-48/56B F c Manufacturing plant: Wujiang Plant Product: ECD55020002, ECD21050002, TDPS-800FB A Manufacturing plant: DET Plant 1 and Plant 5 	9,515.4938
05 Waste generated in operations	<ul style="list-style-type: none"> The waste generated in operations of Taoyuan Plant 1 and Plant 2 	86.5108
06 Business travel	<ul style="list-style-type: none"> The business travel of employee in Taiwan 	3,710.4089
11 Use of sold products	<ul style="list-style-type: none"> Product 1: LED Street Light – Energy Saving Product use area: Taiwan 	3,011.6626
	<ul style="list-style-type: none"> Product 2: Server Power Product use area: Taiwan 	315,323.9374
	<ul style="list-style-type: none"> Product 3: AC-DC Adaptor Product use area: Taiwan 	36,178.6103
	<ul style="list-style-type: none"> Product 4: Ventilating Fans Product use area: Taiwan 	9,671.4449

Reference

- The definition of 15 categories are based on the “ GHG Protocol – Corporate Value Chain (Scope 3) Accounting and Reporting Standard”, which initiative by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD)
- The IPCC 2013 AR5 GWP values are applied in this inventory.

- Electricity emission factor: 0.529 kgCO₂e/kwh
(Announced by Bureau of Energy, Ministry of Economic Affairs in 2017)
- Part information reference:
 - 01 Purchased goods and services: SimaPro 8.2.0/Ecoinvent 3.0, SimaPr 8.4.0/Ecoinvent 3.3, IPCC 2013 GWP 100av1.02.
 - 05 Waste generated in operations: Business waste reporting and management information system of EPA.
 - 06 Business Travel: GHG Emissions from Transport or Mobile Sources of The ICAO Carbon Emissions Calculator. (<https://goo.gl/gcm3pd>)
 - 11 Use of sold products: Product has been confirmed by PwC in 20 April 2018.

Confidentiality

The statement may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the statement are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

Avoidance of Conflict of Interest

The statement is completely complied with the standards and procedures that related-authorities established and the auditing process is conduct with fairness and honesty.

Note: This Statement is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.

Statement TH14/7895GG

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2017 of

Delta Electronics (Thailand)

Public Company Limited

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Bangpoo Site:

a) 714 Soi E5, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road,
Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand

b) 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road,
Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand

Wellgrow Site:

111 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road,
Tambol Bangwua, Amphur Bangpakong, Chachoengsao 24180, Thailand

has been verified in accordance with ISO 14064-3:2006 as
meeting the requirements of

ISO 14064-1:2006

Scope 1 (Direct GHG Emissions) = 258.45 tonnes of CO₂e
Scope 2 (Indirect GHG Emissions) = 40,161 tonnes of CO₂e
Scope 3 (Other Emissions) = 18,536 tonnes of CO₂e

Authorized by



Montree Tangtermsirikul

General Manager

Date: 23 April 2018

SGS 14064-1 0212
SGS (Thailand) Ltd.
100 Nanglinchee Road, Chongnonsee, Yannawa,
Bangkok 10120, Thailand
t (02) 6781813 f (02) 6780620 www.sgs.com



Statement TH14/7895GG, continued

SGS has been contracted by Delta Electronics (Thailand) Public Company Limited (hereinafter referred to as "DET"), 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand, for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3: 2006

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as provided by Delta Electronics (Thailand) Public Company Limited (hereinafter referred to as "DET"), 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand, in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2017 to 31 December 2017.

Roles and responsibilities

The management of DET is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.

It is SGS's responsibility to express an independent GHG verification opinion on the GHG emissions as provided in the GHG Assertion for the period 01 January 2017 to 31 December 2017.

SGS conducted a third party verification of the provided GHG assertion against the principles of ISO 14064-1:2006 and ISO 14064-3:2006 in the period 5 March 2018 to 9 March 2018. The verification was based on the verification scope, objectives and criteria as agreed between DET and SGS on 12 January 2018.

Level of Assurance

The level of assurance agreed is that of reasonable assurance.

Scope

DET has commissioned an independent verification by SGS Thailand of reported GHG emissions of DET arising from MARKETING, DESIGN, DEVELOPMENT AND MANUFACTURING OF: POWER CONVERSION PRODUCTS (SUCH AS SWITCHING POWER SUPPLY, ADAPTOR & CHARGER, AC/DC, DC/DC, DC/AC CONVERTER, TELECOMMUNICATION / SERVER POWER SUPPLY); MAGNETIC PRODUCTS (SUCH AS TRANSFORMER, LINE FILTER, COIL); ELECTRONIC CONTROL UNITS / VISION SYSTEM; EMI FILTER; COOLING FAN; MTS (MOLDING, TOOLING

Statement TH14/7895GG, continued

AND STAMPING); SOLENOID PRODUCT, PWB ASSEMBLY AND TRANSFORMER, to establish conformance with ISO 14064 principles within the scope of the verification as outlined below.

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary and is based on ISO 14064-3:2006.

- Title or description activities: GHG verification for DET in year 2017
- Location/boundary of the activities:
 - Bangpoo Site:
 - a) 714 Soi E5, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
 - b) 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
 - Wellgrow Site:
 - 111 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua, Amphur Bangpakong, Chachoengsao 24180, Thailand
- Organizational boundary: Operational control approach
- Physical infrastructure, activities, technologies and processes of the organization: MARKETING, DESIGN, DEVELOPMENT AND MANUFACTURING OF : POWER CONVERSION PRODUCTS (SUCH AS SWITCHING POWER SUPPLY, ADAPTOR & CHARGER, AC/DC, DC/DC, DC/AC CONVERTER, TELECOMMUNICATION / SERVER POWER SUPPLY); MAGNETIC PRODUCTS (SUCH AS TRANSFORMER, LINE FILTER, COIL); ELECTRONIC CONTROL UNITS / VISION SYSTEM FOR AUTOMOTIVE; EMI FILTER; COOLING FAN; MTS (MOLDING, TOOLING AND STAMPING); SOLENOID PRODUCT, PWB ASSEMBLY AND TRANSFORMER
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by DET
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2017 to 31 December 2017
- Intended user of the verification statement: Private

Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG assertion

Statement TH14/7895GG, continued

- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14064.

The IPCC 2007 AR4 GWP values are applied in this inventory.

Materiality

The materiality required of the verification was considered by SGS to 5%, based on the needs of the intended user of the GHG Assertion.

Conclusion

DET provided the GHG assertion based on the requirements of ISO14064-1: 2006. The GHG information for the period 01 January 2017 to 31 December 2017 disclosing emissions of 40,419.5 metric tonnes of CO₂ equivalent (Summation of emission Scope 1 and Scope 2) and 18,536 metric tonnes of other CO₂ emissions (Scope 3) are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions.

We planned and performed our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the GHG emissions for the period 01 January 2017 to 31 December 2017 are fairly stated.

We conducted our verification with regard to the GHG assertion of DET which included assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied.

In SGS's opinion the presented GHG assertion

- is materially correct and is a fair representation of the GHG data and information, and
- is prepared in accordance with ISO14064-1:2006 on GHG quantification, monitoring and reporting.

Statement TH14/7895GG, continued

Confidentiality

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

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Avoidance of Conflict of Interest

The reports and attachments are completely complied with the standards and procedures that related-authorities established. The reports and attachments of auditing process are conduct with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This statement shall be interpreted with the GHG assertion of DET as a whole.

Verifier Group

Above statements coincide with auditing process with fairness and impartiality, and aim at the emission of year 2017 of clients.

Lead Verifer:

Mutha B.

Note: This Statement is issued, on behalf of Client, by SGS (Thailand) Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at Delta Electronics (Thailand) Public Company Limited 909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand. This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.