

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 CO<sub>2</sub>e  
Scope 2 (Indirect GHG Emissions) = 40,161 tonnes of CO<sub>2</sub>e  
Scope 3 (Other Emissions) = 18,536 tonnes of CO<sub>2</sub>e

Authorized by



Montree Tangtermsirikul

General Manager

Date: 23 April 2018

SGS 14064-1 0212  
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## 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

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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: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>
- 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

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- 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 CO<sub>2</sub> equivalent (Summation of emission Scope 1 and Scope 2) and 18,536 metric tonnes of other CO<sub>2</sub> 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.

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### **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](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.