

# Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2022 of

## 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

has been verified in accordance with ISO 14064-3:2019 as  
meeting the requirements of

## ISO 14064-1:2018

Direct GHG Emissions (Category 1) = 1,486.35 tonnes of CO<sub>2</sub>e  
Indirect GHG Emissions (Category 2) = 59,865.53 tonnes of CO<sub>2</sub>e  
(Location based)  
Indirect GHG Emissions (Category 2) = 57,965.91 tonnes of CO<sub>2</sub>e  
(Market based)  
Indirect GHG Emissions (Category 3-6) = 167,322.25 tonnes of  
CO<sub>2</sub>e

Authorized by



Montree Tangtermsirikul

General Manager

Date: 05 April 2023

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SGS has been contracted by Delta Electronics (Thailand) Public Company Limited and Delta Green Industrial (Thailand) Co., Ltd. (hereinafter referred to as “DET and DGiT”), for the verification of direct and indirect Greenhouse Gas emissions in accordance with

### **ISO 14064-3:2019**

as provided by Delta Electronics (Thailand) Public Company Limited and Delta Green Industrial (Thailand) Co., Ltd. (hereinafter referred to as “DET and DGiT”) in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2022 to 31 December 2022.

### **Roles and responsibilities**

The management of DET and DGiT 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 2022 to 31 December 2022.

SGS conducted a third party verification of the provided GHG assertion against the principles of ISO 14064-1:2018 and ISO 14064-3:2019 in the period 22-24, 27 February 2023. The verification was based on the verification scope, objectives and criteria as agreed between DET and DGiT and SGS on 4 February 2023.

### **Level of Assurance**

The level of assurance agreed is that of reasonable assurance.

### **Scope**

DET and DGiT has commissioned an independent verification by SGS Thailand of reported GHG emissions of DET and DGiT arising from

- Delta 1: Marketing, Design, Development, Manufacturing of Power Conversion Products (AC/DC, DC/DC, DC/AC converters, chargers, inverters) and Electronic control units.
- Delta 3: Manufacturing of Routers, Devices of Wireless Network Products, Switching Products for Network Communication and Magnetic Products (Transformers, Line Filters, Inductors).
- Delta 5: Marketing, Design, Development and Manufacturing of Power Conversion Products (Switching Power Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC converters, chargers, inverters, Telecommunication / Server Power Supply).

- Delta 6: Manufacturing of EMI Filter, Solenoid, PWB Assembly, Heatsink, Ventilation Fan and Cooling Fan Products.
- Delta 7: Marketing, Design, Development, Manufacturing of Power Conversion Products (Switching Power Supply Adaptor & Charger, AC/DC, DC/DC, DC/AC converters, chargers, inverters, Telecommunication / Server Power Supply).
- Delta Turbon 1: Design And Manufacturing of Power Conversion Products (AC/DC, DC/DC, DC/AC converters, chargers, investors) and Electric Control Units.
- Delta Turbon 2: Manufacturing of Magnetic Products (Transformers, Line Filters, and Inductors).
- DGiT: Sales & Service Management of LED Lighting Products (LED Street Lighting, LED Tunnel Lighting, LED Tube and LED Bulb), LED Display, LED Sign Board, Solar System (Solar Inverter and Solar Panel) and Uninterruptible Power Supply (UPS)

related activities, 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 14064-3:2019.

- The organizational boundary was established following operational control approach
- Title or description activities: GHG verification for DET and DGiT in year 2022
- Location/boundary of the activities:

Site	Address
Delta 1	714 Soi E5, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur muang, Samutprakarn 10280, Thailand
Delta 3	699, 701 Soi E9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur muang, Samutprakarn 10280, Thailand
Delta 5	909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur muang, Samutprakarn 10280, Thailand
Delta 6	111 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua, Amphur Bangpakong, Chachoengsao 24180, Thailand
Delta 7	111/6 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua, Amphur Bangpakong, Chachoengsao 24180, Thailand
Delta Turbon 1	711, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur muang, Samutprakarn 10280, Thailand
Delta Turbon 2:	709, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur muang, Samutprakarn 10280, Thailand

Site	Address
DGiT	1601-1603, 66 Tower Building, 16th Floor, Room No. 2556, Sukhumvit Road, Tambol Bang Na Nuea, Amphur Bang Na, Bangkok 10260, Thailand

- Physical infrastructure, activities, technologies and processes of the organization:
  - Delta 1: Marketing, Design, Development, Manufacturing of Power Conversion Products (AC/DC, DC/DC, DC/AC converters, chargers, inverters) and Electronic control units.
  - Delta 3: Manufacturing of Routers, Devices of Wireless Network Products, Switching Products for Network Communication and Magnetic Products (Transformers, Line Filters, Inductors).
  - Delta 5: Marketing, Design, Development and Manufacturing of Power Conversion Products (Switching Power Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC converters, chargers, inverters, Telecommunication / Server Power Supply).
  - Delta 6: Manufacturing of EMI Filter, Solenoid, PWB Assembly, Heatsink, Ventilation Fan and Cooling Fan Products.
  - Delta 7: Marketing, Design, Development, Manufacturing of Power Conversion Products (Switching Power Supply Adaptor & Charger, AC/DC, DC/DC, DC/AC converters, chargers, inverters, Telecommunication / Server Power Supply).
  - Delta Turbon 1: Design And Manufacturing of Power Conversion Products (AC/DC, DC/DC, DC/AC converters, chargers, investors) and Electric Control Units.
  - Delta Turbon 2: Manufacturing of Magnetic Products (Transformers, Line Filters, and Inductors).
  - DGiT: Sales & Service Management of LED Lighting Products (LED Street Lighting, LED Tunnel Lighting, LED Tube and LED Bulb), LED Display, LED Sign Board, Solar System (Solar Inverter and Solar Panel) and Uninterruptible Power Supply (UPS)
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by DET and DGiT
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, NF<sub>3</sub>, HFCs, PFCs, SF<sub>6</sub>
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2022 to 31 December 2022.
- 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
- 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 2021 AR6 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 and DGiT provided the GHG assertion based on the requirements of ISO14064-1: 2018. The GHG information for the period 01 January 2022 to 31 December 2022 disclosing direct emissions (category-1) of 1,486.35 metric tonnes of CO<sub>2</sub> equivalent and indirect emission of 59,865.53 metric tonnes of CO<sub>2</sub> equivalent as location based (category-2), indirect emission of 57,965.91 metric tonnes of CO<sub>2</sub> equivalent as market based (category-2) and 167,322.25 metric tonnes of other CO<sub>2</sub> emissions (Category 3, 4, 5, 6) are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria by location-based and market-based approach as below:

The emission of each category is described as below:

Unit: tonnes of CO<sub>2</sub>e

Operational Boundaries		GHG Emissions	
Category	Description	Location-based	Market-based
Direct emissions	This direct GHG emissions are the sum of owned or controlled by the organization within the organization	1,486.35	
Indirect emissions	Imported energy	59,865.53	57,965.91
	Transportation	3.1 Upstream transportation and distribution (Ocean and Air Freight only)	17,286.98
		3.2 Business travel by Air Freight	254.97
		3.3 Downstream transportation and distribution (Ocean and Air Freight only)	149,780.30
Total direct emissions and indirect emissions		228,674.13	226,774.51

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 limited level of assurance that the GHG emissions for the period 01 January 2022 to 31 December 2022 are fairly stated.

We conducted our verification with regard to the GHG assertion of DET and DGIT 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 ISO14064-1:2018 on GHG quantification, monitoring and reporting.

### **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.

### **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 and DGiT as a whole.

### **Verifier Group**

Above statements coincide with auditing process with fairness and impartiality, and aim at the emission of year 2022 of clients.

Lead Verifer: *Arisa S.*

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 and Delta Green Industrial (Thailand) Co., Ltd. (hereinafter referred to as "DET and DGiT") 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.