

# Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2021 of

## KUO TOONG INTERNATIONAL CO., LTD.

8F-5, No.91, Dashun 1st Rd., Zuoying Dist.,  
Kaohsiung City 813328, Taiwan



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

### ISO 14064-1:2018

Direct emissions	1,428.9114 tonnes of CO <sub>2</sub> e
Indirect emissions	10,601.6040 tonnes of CO <sub>2</sub> e
Direct emissions and indirect emissions	12,030.515 tonnes of CO <sub>2</sub> e

Authorized by

A handwritten signature in black ink.

Stephen Pao  
Knowledge Deputy General Manager  
Date: 24 November 2022  
Version 1

TGP56A-15-6 2207  
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Statement TW22/00483GG, continued

The emission of each category is described as below:

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

Reporting Boundaries		GHG Emissions
Inventory categories	Description	
Direct emissions	This direct GHG emissions are the sum of owned or controlled by the organization within the organization.	1,428.9114
Indirect emissions	Imported energy	8,798.7766
	Transportation	NA
	Products used by an organization	1,802.8274
	Associated with the use of products from the organization	NA
	Other sources	NA
Direct emissions and indirect emissions		12,030.515

The emission of each site is described as below:

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

Site	Direct emissions	Indirect emissions	Total GHG emissions
Headquarter	24.6072	74.6221	99.229
Shinyuan Factory	1,383.0895	7,829.8883	9,212.978
Magong 3000 CMD Desalination Plant	21.2147	2,697.0936	2,718.308

## Statement TW22/00483GG, continued

SGS has been contracted by KUO TOONG INTERNATIONAL CO., LTD. (hereinafter referred to as "KTI"), 8F-5, No.91, Dashun 1st Rd., Zuoying Dist., Kaohsiung City 813328, Taiwan for the verification of direct and indirect Greenhouse Gas emissions in accordance with

### **ISO 14064-3:2006**

as provided by KUO TOONG INTERNATIONAL CO., LTD. (hereinafter referred to as "KTI"), 8F-5, No.91, Dashun 1st Rd., Zuoying Dist., Kaohsiung City 813328, in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2021 to 31 December 2021.

### **Roles and responsibilities**

The management of KTI 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 2021 to 31 December 2021.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14064-1:2018, ISO 14064-3:2006 in the period 06 Oct.2022 to 27 Oct.2022. The verification was based on the verification scope, objectives and criteria as agreed between KTI and SGS on 18 January 2022.

### **Level of Assurance**

The level of assurance for category 1 and category 2 agreed is that of reasonable assurance.

Category 3 till category 6 agreed is that of limited assurance.

### **Scope**

KTI has commissioned an independent verification by SGS Taiwan of reported GHG emissions of KTI arising from Manufacturing Ductile Iron Pipes (DIP) and Steel Pipes (for water mains and distribution), Design and Construction of Seawater reverse osmosis activities, to establish conformance with ISO 14064:2018 principles within the scope of the verification as outlined below.

## Statement TW22/00483GG, continued

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 KTI in year 2021
- Location/boundary of the activities:
  - 5F-3、7F-4、7F-5、8F-4、8F-5, No.91, Dashun 1st Rd., Zuoying Dist., Kaohsiung City 813328, Taiwan
  - No. 307, Wukan, Magong City, Penghu County 880023, Taiwan
  - No.400, Matzu Rd., Shinyuan Shiang, Pingtung 900, Taiwan
- Physical infrastructure, activities, technologies and processes of the organization:  
Manufacturing Ductile Iron Pipes (DIP) and Steel Pipes (for water mains and distribution), Design and Construction of Seawater reverse osmosis.
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by KTI
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub>
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
  - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), EPA.
  - Indirect emissions:
    - Electricity emission factor is 0.509 kgCO<sub>2</sub>e/kwh (Announced by Bureau of Energy, Ministry of Economic Affairs in 2022).
    - The secondary database has Carbon Footprint Information Platform.
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2021 to 31 December 2021
- The version of inventory sheet: 2022.10.27
- The version of GHG assertion: 2022.10.27
- 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.

## Statement TW22/00483GG, continued

### Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14064-1:2018

### 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

TKI provided the GHG assertion based on the requirements of ISO 14064-1: 2018. The GHG information for the period 01 January 2021 to 31 December 2021 disclosing emissions of 12,030.515 metric tonnes of CO<sub>2</sub> equivalent and 0.0000 metric tonnes of direct CO<sub>2</sub> emissions from the combustion of biomass are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The emission of each category is described as below:

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## Statement TW22/00483GG, continued

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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 of category 1 and category 2, and limited level of assurance of category 3 till category 6 for the period 01 January 2021 to 31 December 2021 are fairly stated.

We conducted our verification with regard to the GHG assertion of KTI 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.

## Statement TW22/00483GG, continued

### **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 KTI as a whole.

### **Verifier Group**

Above statements coincide with auditing process with fairness and impartiality and aim at the emission of year 2021 of clients.

Lead Verifier:



Verifier:



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](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 KTI, 8F-5, No.91, Dashun 1st Rd., Zuoying Dist., Kaohsiung City 813328, 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.