

Water Footprint Verification Statement

The Inventory of Product Water Footprint of
Wafer Test Service

which is calculated by

KING YUAN ELECTRONICS CO., LTD.

No. 118, Chung-Hua Rd., Chu-Nan,
Miao-Li Hsien 350, Taiwan, R.O.C.

Based on life cycle assessment verified
as meeting the requirements of

ISO 14046:2014

Basis of Assessment

Cradle-to-Gate

Authorized by



Stephen Pao

Knowledge Deputy General Manager

Version 1

Issue Date: 27 July 2023

TGP58-15-2 2207

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



Statement TW23/00377WFP, continued

Product Name	Wafer Test Service					
Functional Unit	Per Wafer test time (Min)					
Water Footprint Profile						
Water Footprint Impact Assessment						Functional Unit WFP (Unit:by indicator)
Objects	Indicators	Unit	Raw material acquisition phase	service phase	Total	
Wafer test	Water Scaricity	L world eq. deprived/min	14.30	66.60	80.9	80.9

Statement TW23/00377WFP, continued

SGS has been commissioned by KING YUAN ELECTRONICS CO., LTD. (hereinafter referred to as "KYEC"), No. 118, Chung-Hua Rd., Chu-Nan, Miao-Li Hsien 350, Taiwan, R.O.C. to conduct the life cycle water footprint (hereinafter referred to as "WFP") verification of Wafer Test Service in accordance with ISO 14046:2014 against the requirements of

ISO 14046:2014

Roles and responsibilities

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

It is SGS's responsibility to express an independent WFP verification opinion on the life cycle WFP of the service.

SGS conducted a third party verification of the provided WFP assertion against the principles of ISO, ISO 14046:2014, ISO 14040: 2006 and ISO 14044: 2006 in the period 01 June 2023 to 16 June 2023. The verification was based on the verification scope, objectives and criteria as agreed between KYEC and SGS.

Scope

KYEC has commissioned an independent verification by SGS Taiwan of the reported Cradle-to-Gate life cycle WFP of the service, to establish conformance with ISO 14046:2014 within the scope of the verification as outlined below.

This engagement covers verification of WFP from Cradle-to-Gate life cycle assessment within the system boundary defined by ISO 14046:2014.

- Title or description of activities : Water footprint verification of the Cradle-to-Gate life cycle WFP of Wafer Test Service.
- Product Category Rule : Nil.
- Functional unit : Per Wafer test time (Min)
- System boundary : Covers a Cradle-to-Gate assessment of the full life cycle emissions; the system boundary was clearly defined in accordance with ISO 14040:2006.

Statement TW23/00377WFP, continued

- Data resources : The primary data collection is from manufacturing and operational control phases. The secondary data collection is from Ecoinvent 3.9.1.
- Life cycle assessment tool and index :
 - Life cycle emissions are calculated by Excel.
 - Category indicators of Water scarcity are applied in this inventory.
- Location of Service :
 - No. 118, Chung-Hua Rd., Chu-Nan, Miao-Li Hsien 350, Taiwan, R.O.C.
 - No. 8, Lane 228, Chung-Hua Rd., Chu-Nan, Miao-Li Hsien 350, Taiwan, R.O.C.
- WFP information for the following production period was verified : 01 January 2022 to 31 December 2022.
- Intended use of the verification statement : Private.

Objective

The purpose of this verification exercise is, by review of objective evidence, to independently review:

- Whether the life cycle WFP of the service are as declared by the organization's WFP assertion.
- The data reported is accurate, complete, consistent, transparent and free of material error or omission.

Criteria

Criteria against which the verification assessment is undertaken is the principles of ISO 14046:2014.

Materiality

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

Conclusion

KYEC provided the WFP assertion based on the requirements of ISO 14046:2014. The data had been verified by SGS, consistent with the agreed verification scope, objectives and criteria.

Statement TW23/00377WFP, continued

The WFP of each object is described as below:

Product Name	Wafer Test Service					
Functional Unit	Per Wafer test time (Min)					
Water Footprint Profile						
Water Footprint Impact Assessment						Functional Unit WFP (Unit:by indicator)
Objects	Indicators	Unit	Raw material acquisition phase	service phase	Total	
Wafer test	Water Scaricty	L world eq. deprived/min	14.30	66.60	80.9	80.9

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting the life cycle WFP of service information and the controls in place to mitigate these risks. Our examination included assessment and a test of evidence relevant to the amounts and disclosures in relation to the reported life cycle WFP of the service.

We conducted our verification with regard to the WFP assertion of KYEC, which included assessment of the company WFP information system, monitoring and reporting protocol. This assessment included the collection of evidence that support the reported data and verification of whether the provisions of the protocol reference were consistently and appropriately applied.

In SGS's opinion, the presented WFP assertion :

- is materially correct and is a fair representation of the WFP data and information, and
- is prepared in accordance with ISO 14046:2014 in relation to WFP 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.

Statement TW23/00377WFP, continued

Verifier Group

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

Lead Verifier:

Kevin Hsieh

Verifier:

Finn Han

This statement shall be interpreted with the WFP assertion of KYEC as a whole.

Note: This Statement is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Water footprint 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.