

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in
1st January 2013 to 31st December 2013 of

Alpha & Omega Semiconductor (Shanghai) Ltd.

Agape Package Manufacturing (Shanghai) Ltd.

尼西半导体科技（上海）有限公司

葵和精密电子（上海）有限公司

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

ISO 14064-1:2006

Direct Emissions

295.36 tonnes of CO₂e

Energy Indirect Emissions

46,277.35 tonnes of CO₂e

Total Direct and Energy Indirect Emissions

46,572.71 tonnes of CO₂e

Authorized by

Director

Date: September 1, 2014

SGS HongKong Limited

5/F Manhattan Centre, 8 Kwai Cheong Road, Kwai Chung

N.T Hong Kong

Contact details www.sgs.com



Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in
1st January 2013 to 31st December 2013 of

Buildings 8 & 9, No. 91, 109 Lane, Rongkang Road, Songjiang Export Process
Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China
Building B1, Dongkai Industrial Park, Songjiang Export Process Zone, Area B,
No. 888, Songzheng Road, Songjiang District, Shanghai City, China
中国上海市松江区松蒸公路 888 号松江出口加工区
B 区茸康路 109 弄 91 号 8、9 幢
中国上海市松江区松蒸公路 888 号松江出口加工区
B 区东开置业园 B1 栋

has been verified in accordance with ISO 14064-3:2006 as meeting the
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SGS has been contracted by Alpha & Omega Semiconductor (Shanghai) Ltd. (hereinafter referred to as "CLIENT"), Buildings 8 & 9, No. 91, 109 Lane, Rongkang Road, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China, for the verification of direct and energy indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2006

as provided by Alpha & Omega Semiconductor (Shanghai) Ltd. and Agape Package Manufacturing (Shanghai) Ltd. (hereinafter referred to as "RESPONSIBLE PARTY"),

Alpha & Omega Semiconductor (Shanghai) Ltd.,
Buildings 8 & 9, No. 91, 109 Lane, Rongkang Road, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China;
Agape Package Manufacturing (Shanghai) Ltd.,
Building B1, Dongkai Industrial Park, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China,

in the Greenhouse Gas (GHG) Assertion in the form of GHG Report covering GHG emissions of the period 1st January 2013 to 31st December 2013.

Roles and responsibilities

The management of the RESPONSIBLE PARTY 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 assertion as provided by the RESPONSIBLE PARTY for the period 1st January 2013 to 31st December 2013.

SGS conducted a third party verification of the provided GHG assertion against the requirements of ISO 14064-1:2006 in the period 28th July 2014 to 13rd August 2014. The verification was based on the verification scope, objectives and criteria as agreed between the CLIENT and SGS on 12th August 2014.

Level of Assurance

The level of assurance agreed is that of reasonable assurance.

Scope

The CLIENT has commissioned an independent verification by SGS-CSTC Standards Technical Services Co., Ltd. to assure the reported GHG emissions of RESPONSIBLE PARTY, as arising from provision of wafer grinding and backmetal processing services; assembly and test of semiconductor devices; development, manufacture and testing of transient voltage suppressors, power ICs (Integrated Circuits), analog switches and MOSFETS activities, be in conformance with ISO 14064 requirements within the scope of the verification as outlined below. The data and information supporting the GHG assertion were historical in nature.

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

- The organizational boundary was established following operational control approach.
- Title or description activities: GHG verification of year 2013 for RESPONSIBLE PARTY.
- Location/boundary of the activities:
 - Alpha & Omega Semiconductor (Shanghai) Ltd.: Buildings 8 & 9, No. 91, 109 Lane, Rongkang Road, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China;
 - Agape Package Manufacturing (Shanghai) Ltd.: Building B1, Dongkai Industrial Park, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China.
- Physical infrastructure, activities, technologies and processes of the organization:
 - Provision of wafer grinding and backmetal processing services; assembly and test of semiconductor devices; development, manufacture and testing of transient voltage suppressors, power ICs (Integrated Circuits), analog switches and MOSFETS.
- GHG sources, sinks and/or reservoirs included: GHG sources as presented in the 2013 GHG Report of the RESPONSIBLE PARTY.
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆.
- GWP adopted: IPCC Fourth Assessment Report (AR4).
- GHG information for the following period was verified: 1st January 2013 to 31st December 2013.
- Intended user of the verification statement: Private user.

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 organisation'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 requirements of ISO 14064.

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

The RESPONSIBLE PARTY provided the GHG assertion based on the requirements of ISO14064-1:2006. The GHG information for the period 1st January 2013 to 31st December 2013 disclosing emissions of 46,572.71 tonnes of CO₂ equivalent 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 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 1st January 2013 to 31st December 2013 are fairly stated.

We conducted our verification with regard to the GHG assertion of 2013 GHG Report of the RESPONSIBLE PARTY which included assessment of GHG information system 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 and reporting.

This statement shall be interpreted with the GHG assertion of 2013 GHG Report of the RESPONSIBLE PARTY as a whole.

Note: This Statement is issued by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Greenhouse Gas Validation & Verification Services. The findings recorded hereon are based upon a verification performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at **Buildings 8 & 9, No. 91, 109 Lane, Rongkang Road, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China and Building B1, Dongkai Industrial Park, Songjiang Export Process Zone, Area B, No. 888, Songzheng Road, Songjiang District, Shanghai City, China.** 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.