



声明编码 CN20/31811

温室气体核查声明

以下组织的 2019 年 1 月 1 日至 2019 年 12 月 31 日
温室气体盘查清单

武汉新芯集成电路制造有限公司

注册地址：中国湖北省武汉市东湖开发区高新四路 18 号
组织边界：中国湖北省武汉市东湖开发区高新四路 18 号



已由 SGS 依据 ISO14064-3:2006 进行了核查并满足以下要求

ISO14064-1:2006

直接排放量
24,247.35 吨二氧化碳当量
能源间接排放量
131,895.45 吨二氧化碳当量
直接，能源间接总排放量
156,142.8 吨二氧化碳当量

签署

签署日期：2020 年 11 月 24 日

通标标准技术服务有限公司 认证与企业优化
北京市阜成路 73 号世纪裕惠大厦 16 层
100142

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SGS 与武汉新芯集成电路制造有限公司（下文称作“客户”）签订合同，依据

ISO 14064-3:2006

核查由武汉新芯集成电路制造有限公司（下文称作“责任方”）以温室气体报告形式提供的温室气体声明，涵盖从 2019 年 1 月 1 日至 2019 年 12 月 31 日（下文称作“报告期”）的直接和能源间接温室气体排放。

角色和责任

责任方的管理者负责组织的温室气体信息系统、依据该系统建立和维护记录及报告程序，包括计算和决定温室气体排放信息及报告的排放量。

SGS 有责任对由责任方提供的报告期的温室气体声明作出独立的温室气体核查意见。

SGS 于 2020 年 11 月 20 日依据 ISO14064-3:2006 要求对责任方提供的温室气体声明符合 ISO 14064-1:2006 的要求进行了第三方核查。核查是基于客户与 SGS 于 2020 年 11 月 20 日商定的核查范围、目标和准则。

保证等级

商定的保证等级为合理保证。

适用范围

客户委托 SGS 进行一次独立核查，以确保责任方所报告的温室气体排放量，在下述的核查范围内符合 ISO 14064-1:2006 的要求。责任方的温室气体声明是以历史数据与信息来编制。

这一协议覆盖组织边界内人类活动引起的温室气体排放的核查，且协议基于 ISO14064-3:2006。

- 组织边界的建立是遵循营运控制权。
- 活动标题或描述：为责任方核查 2019 年的温室气体盘查清册。
- 活动地点/边界：中国湖北省武汉市东湖开发区高新四路 18 号
- 组织的基础设施、活动、技术和流程：12" 集成电路的制造
- 温室气体源、汇和/或库包括：责任方 2019 年温室气体报告中所提出的温室气体源。
- 温室气体种类包括：二氧化碳 (CO₂)、甲烷 (CH₄)、氧化亚氮 (N₂O)、氢氟碳化物 (HFCs)、全氟化碳 (PFCs) 和六氟化硫 (SF₆)。
- 采用的全球变暖潜能：IPCC 第 5 次评估报告。
- 以下期间的温室气体信息已被核查：2019 年 1 月 1 日至 2019 年 12 月 31 日。
- 核查声明的预期使用者：私人使用者

目标

本次核查之目的是通过客观证据审查：

- 温室气体排放是否如组织的温室气体声明所述
- 所报的数据是准确的、完整的、一致的、透明的和没有实质错误或遗漏。

准则

核查依据的准则是 ISO 14064-3:2006。

实质性

基于温室气体声明的预期使用者的需要，本次核查的实质性定为 5%。

结论

责任方提供了基于 ISO14064-1:2006 的要求的温室气体声明。在报告期内的温室气体信息所披露的 **156,142.8** 吨二氧化碳当量，经 SGS 核查达到合理保证等级，与商定的核查范围、目标和准则一致。

SGS 的方法是基于风险，理解所报告的温室气体排放信息相关的风险并加以控制，从而减轻风险。我们的检查包括评估与排放量有关的证据和组织温室气体排放量的披露。

SGS 计划并执行工作来获取必要的信息、解释和证据，以提供合理保证等级，确保能公正地陈述在报告期内的责任方的温室气体排放。

SGS 核查责任方以温室气体报告的方式提供的温室气体声明，包括评估温室气体信息系统和报告计划或协议。这次评估包括收集用以支持所报数据的证据，以及检查所参考的协议的条款是否一致地和适当地应用。

责任方递交的温室气体声明

- 是为实质正确的，且为温室气体数据和信息之确实展现，及
- 是依据 ISO14064-1:2006 对温室气体量化和报告而制备的。

本声明必须与责任方温室气体报告的方式提供的温室气体声明作为一个整体进行解释说明。

注：通标标准技术服务有限公司 ("SGS") 按 SGS 温室气体审定与核查服务通用条款发放此温室气体核查声明。此声明的内容基于核查结果编制。可向责任方查询获取此温室气体核查声明及责任方温室气体声明(温室气体报告的副本。此核查声明不可解除客户应遵守国家法律法规的责任。此核查声明不对 SGS 造成约束，SGS 没有责任面对除其客户以外的任何一方。

本温室气体核查声明是以英语订立。若有任何译文差异，以英文版为准。

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in
01 January 2019 to 31 December 2019 of

Wuhan XINXIN Semiconductor Manufacturing Co., Ltd.

Business address: No. 18, Gao Xin 4th Road, Donghu New Technology Development Zone,
Wuhan City, Hubei Province, P.R. China

Organization boundary: No. 18, Gao Xin 4th Road, Donghu New Technology Development Zone,
Wuhan City, Hubei Province, P.R. China

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

ISO 14064-1:2006

Direct Emissions

24,247.35 tonnes of CO₂e

Energy Indirect Emissions

131,895.45 tonnes of CO₂e

Total Direct and Energy Indirect Emissions

156,142.8 tonnes of CO₂e

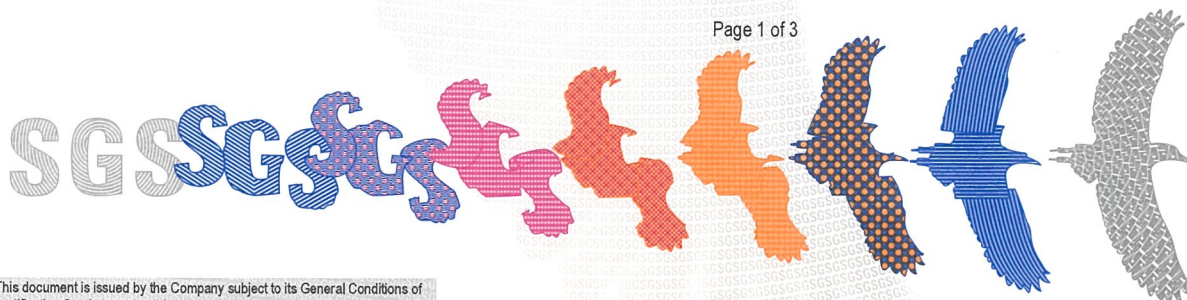
Authorised by



DATE: 24 November 2020

SGS-CSTC Standard Technical Services Co., Ltd Certification and Business Enhancement
Country Headquarter 16/F Century Yuhui Mansion,
No.73, Fucheng Road
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of the law.

SGS has been contracted by Wuhan XINXIN Semiconductor Manufacturing Co., Ltd. (hereinafter referred to as "CLIENT"), for the verification of direct and energy indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2006

as provided by Wuhan XINXIN Semiconductor Manufacturing Co., Ltd. (hereinafter referred to as "RESPONSIBLE PARTY"), in the Greenhouse Gas (GHG) Assertion in the form of GHG Report covering GHG emissions of the period 01 January 2019 to 31 December 2019 (hereinafter referred to as "REPORT PERIOD").

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 REPORT PERIOD.

SGS conducted a third-party verification of the provided GHG assertion against the requirements of ISO 14064-1:2006 in the period 20 November 2020. The verification was based on the verification scope, objectives and criteria as agreed between the CLIENT and SGS on 20 November 2020.

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, 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 organization'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 2019 for RESPONSIBLE PARTY.
- Location/boundary of the activities: No. 18, Gao Xin 4th Road, Donghu New Technology Development Zone, Wuhan City, Hubei Province, P.R. China
- Physical infrastructure, activities, technologies and processes: Manufacture of 12 inches integrated circuit
- GHG sources, sinks and/or reservoirs included: GHG sources as presented in the 2019 GHG Report of the RESPONSIBLE PARTY.
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆.
- GWP adopted: IPCC 5 Assessment Report.
- GHG information for the following period was verified: 01 January 2019 to 31 December 2019
- 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 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 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 REPORT PERIOD disclosing emissions of **156,142.8** 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 REPORT PERIOD are fairly stated.

We conducted our verification with regard to the GHG assertion of 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 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 from RESPONSIBLE PARTY. This Statement does not relieve Client from compliance with any by laws, 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.