



中国船级社
CHINA CLASSIFICATION SOCIETY

温室气体核查证书

证书编号: CCSC202201040102001

兹证明受中芯北方集成电路制造(北京)有限公司委托,本机构根据核查准则和相关核查程序对

中芯北方集成电路制造(北京)有限公司

地址:北京市北京经济技术开发区文昌大道18号9幢

的 GHG 陈述进行核查并发布如下核查意见:

1. 该组织 GHG 陈述中对温室气体排放和清除的量化、监测和报告符合 ISO 14064-1:2018 的相关要求。

2. 该组织 GHG 陈述所覆盖的时间段为 2021 年 01 月 01 日至 2021 年 12 月 31 日,在此期间组织的温室气体排放量如下:

类别一:	类别二:	类别三:	类别四:	类别五:	类别六:	
直接温室气体排放量 (tCO ₂ e)	输入能源的间接温室气体排放量 (tCO ₂ e)	运输产生的间接温室气体排放量 (tCO ₂ e)	组织使用的产品产生的间接温室气体排放量 (tCO ₂ e)	与使用组织产品有关的间接温室气体排放量 (tCO ₂ e)	其它来源的间接温室气体排放量 (tCO ₂ e)	排放总量 (tCO ₂ e)
144739.91	373081.81	/	472.677	/	/	518294.39

3. 本次核查提供的合理保证等级与商定的核查目的、准则和范围相一致。

4. 该组织的 GHG 陈述不存在重要性偏差。

5. 不存在限制条件。

核查的详细内容见附页。

签发:

发证机构:

中国船级社质量认证有限公司

发证地点:

北京

发证日期:

2022年3月18日



中国认可
审定核查
VALIDATION VERIFICATION
CNAS C005-V



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N: A 00024868

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温室气体核查意见附页

证书编号: CCSC202201040102001

本次核查服务的目的、准则、范围和保证等级是建立在中芯北方集成电路制造（北京）有限公司和中国船级社质量认证有限公司商定的基础之上。

1. 核查目的:

评价组织是否满足 GHG 适用的核查准则，包括适用于核查范围的有关标准或 GHG 的方案的原则和要求。

2. 核查准则:

- ISO 14064-1: 2018 温室气体 第一部分 组织层次上对温室气体排放和清除的量化和报告的规范及指南
- ISO 14064-3: 2019 温室气体 第三部分 温室气体陈述审定与核查的规范及指南

3.核查范围:

组织边界	该组织基于运行控制权下的设备所产生的GHG排放。
报告边界	该组织集成电路制造等经营范围内的活动所引起的温室气体排放，包含： 类别一：直接温室气体排放量； 类别二：输入能源的间接温室气体排放量； 类别四：组织使用的产品产生的间接温室气体排放量； 类别三、类别五和类别六未量化。
温室气体源/汇/库	在上述边界内，该企业引起 GHG 排放的所有设施。
温室气体种类	包括 CO ₂ 、CH ₄ 、N ₂ O、HFCs、PFCs、SF ₆ 、NF ₃ 等温室气体。
覆盖的时间段	2021 年 01 月 01 日至 2021 年 12 月 31 日
基准年	2020 年。



4. 保证等级:

合理保证等级

5. 其他:

无

注：附页与证书同时使用方可有效。



GHG VERIFICATION OPINION

No: CCSC202201040102001

This is to certify that, engaged by Semiconductor Manufacturing North China(Beijing) Corporation,

Semiconductor Manufacturing North China(Beijing) Corporation

**Address: Building 9, No.18 WenChang Road, Beijing Developing Area, Beijing,
China**

China Classification Society Certification Co., Ltd. (CCSC) issues this verification opinion according to verification criteria and related verification procedures.

By verification, CCSC confirms that,

1.The GHG statement of this organization is prepared in accordance with the related requirement of ISO14064-1: 2018 on GHG quantification, monitoring and reporting.

2. The GHG statement of the organization covers the period of 2021/01/01- 2021/12/31, during which the GHG emissions are as follows:

Category 1:	Category 2:	Category 3:	Category 4:	Category 5:	Category 6:	
Direct GHG emissions and removals (tCO ₂ e)	Indirect GHG emissions from imported energy (tCO ₂ e)	Indirect GHG emissions from transportation (tCO ₂ e)	Indirect GHG emissions from products used by an organization (tCO ₂ e)	Indirect GHG emissions associated with the use of products from the organization (tCO ₂ e)	Indirect GHG emissions from other sources (tCO ₂ e)	Total emissions (tCO ₂ e)
144739.91	373081.81	/	472.677	/	/	518294.39

3.The level of reasonable assurance provided by the verification is consistent with the agreed verification objectives, criteria and scope.

4.The GHG statement of this organization is free from significant errors, omissions or misstatements.

5. The conclusion is unconditional.

Signed by: Issued by:  Ltd.

Issued at: Beijing

Issued on: 2022.01.08



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More details in Appendix.

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APPENDIX TO GHG VERIFICATION OPINION

No: CCSC202201040102001

The objective(s), criteria, scope and level of assurance of this verification service is set in the basis of the agreement between Semiconductor Manufacturing North China(Beijing) Corporation and CCSC.

1. Verification objectives:

Evaluate whether the GHG statement is conform to applicable verification criteria within the scope of the verification.

2. Verification criteria:

ISO 14064-1: 2018 Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

ISO 14064-3: 2019 Greenhouse gases — Part 3: Specification with guidance for the verification and validation of greenhouse gas statements

3. Verification scope:

Organizational boundary	This organization accounts for GHG <u>emissions and/or removals</u> from facilities over which it has <u>operational control</u> . This organization accounts for its portion of <u>GHG emissions and/or removals</u> from respective facilities.
Reporting boundary	GHG emissions and removals associated with <u>the organization's operational activity</u> , e.g. <u>computer production</u> , including Category 1: Direct GHG emissions and removals; Category 2: Indirect GHG emissions from imported energy; Category 4: Indirect GHG emissions from products used by an organization; Category 3, Category 5 and Category 6 are not reported by the organization during this reporting period.
GHG sources/sinks/reservoirs	All <u>facilities/process</u> with GHG emission within the boundaries.
Types of GHG	Include 7 types of GHG i.e. CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆ and NF ₃ .
Time period(s)	2021/01/01- 2021/12/31
Base year	The base year is 2020

4. Level of Assurance: Level of Reasonable Assurance

5. Others: None

Note: the APPENDIX is valid only when used together with the opinion.