



# 中国船级社质量认证有限公司

CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

## 温室气体核查证书

证书编号: CCSC202301040102017

兹证明受中芯北方集成电路制造(北京)有限公司委托,本机构作为第三方核查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 陈述进行核查并出具如下核查意见:

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 2022 年 01 月 01 日至 2022 年 12 月 31 日,在此期间组织的温室气体排放和清除量如下:

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 <sub>2</sub> e)	输入能源的间接温室气体排放量 (tCO <sub>2</sub> e)	运输产生的间接温室气体排放量 (tCO <sub>2</sub> e)	组织使用的产品产生的间接温室气体排放量 (tCO <sub>2</sub> e)	与使用组织产品有关的间接温室气体排放量 (tCO <sub>2</sub> e)	其它来源的间接温室气体排放量 (tCO <sub>2</sub> e)	排放总量 (tCO <sub>2</sub> e)
165827.33	441089.55	/	591.54	/	/	607508.42

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 陈述不存在重大错误。

5.不存在限制条件。

详细内容见附页。



中国认可  
审定核查  
VALIDATION VERIFICATION  
CNAS VV001-EI

签 发:

发证机构: 中国船级社质量认证有限公司

发证地点:

发证日期:



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北京市东城区东黄城根南街 40 号楼 100006 电话: +86(10)56313400 网址: [www.ccs-c.com.cn](http://www.ccs-c.com.cn)  
40 Dong Huang Cheng Gen Nan Jie, Dongcheng District, Beijing, 100006, China Tel.: +86(10)56313400 Website: [www.ccs-c.com.cn](http://www.ccs-c.com.cn)

# 温室气体核查证书附页

证书编号: CCSC202301040102017

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 GHG 陈述是否满足适用的核查准则, 包括适用于核查范围的有关标准或 GHG 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 温室气体声明审定与核查规范和指南

## 3. 核查范围:

组织边界	该组织基于运行控制权下的所有设备所产生的GHG排放量。 该组织属于最低一级法人单位, 无分公司或子公司。
报告边界	该组织业务活动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; 类别三: 运输产生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; 类别五: 与使用组织产品有关的间接温室气体排放量; 类别六: 其它来源的间接温室气体排放量。 类别三、类别五至六未量化。
温室气体种类	包括 CO <sub>2</sub> 、CH <sub>4</sub> 、N <sub>2</sub> O、HFCs、PFCs、SF <sub>6</sub> 、NF <sub>3</sub> 七类温室气体。
覆盖的时间段	2022 年 1 月 1 日至 2022 年 12 月 31 日
基准年	2020 年。

## 4. 保证等级:

合理保证等级

## 5. 其他:

支持组织陈述的数据和信息属于合理假设、预测和/或历史事实。

注: 附页与证书同时使用方可有效。





# 中国船级社质量认证有限公司

## CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

### GHG VERIFICATION OPINION

No: CCSC202301040102017

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, P.R. China**

China Classification Society Certification Co., Ltd. (CCSC) as a third party verification body verifies the GHG statement and issues this verification opinion according to verification criteria and related 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 quantification and reporting of GHG emissions and removals.

2. The GHG statement of the organization covers the period of 01/01/2022- 31/12/2022, during which the GHG emissions and removals are as follows:

Category 1:	Category 2:	Category 3:	Category 4:	Category 5:	Category6:	
Direct GHG emissions (tCO <sub>2</sub> e)	Indirect GHG emissions from imported energy (tCO <sub>2</sub> e)	Indirect GHG emissions from transportation (tCO <sub>2</sub> e)	Indirect GHG emissions from products used by an organization (tCO <sub>2</sub> e)	Indirect GHG emissions associated with the use of products from the organization (tCO <sub>2</sub> e)	Indirect GHG emissions from other sources (tCO <sub>2</sub> e)	Total emissions (tCO <sub>2</sub> e)
165827.33	441089.55	/	591.54	/	/	607508.42

3.The reasonable level of 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 material misstatements.

5.The conclusion is unconditional.

More details in Appendix.



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Signed by:

Issued by:

Issued at:

Issued on:



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40 Dong Huang Cheng Gen Nan Jie, Dongcheng District, Beijing, 100006, China Tel.: +86(10)56313400 Website: [www.ccs-c.com.cn](http://www.ccs-c.com.cn)

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## APPENDIX TO GHG VERIFICATION OPINION

No: CCSC202301040102017

The objective(s), criteria, scope and level of assurance of this verification are based on the agreement between Semiconductor Manufacturing North China (Beijing) Corporation and CCSC.

### 1. Verification objectives:

Evaluate whether the GHG statement is conform to the applicable verification criteria, including the relevant standards or the principles and requirements of the GHG programme.

### 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 emissions from facilities over which it has operational control. The organization belongs to the lowest level legal entity and has no branches or subsidiaries.
Reporting boundary	GHG emissions and removals associated with <u>the organization's operational activity</u> , including Category 1: Direct GHG emissions; Category 2: Indirect GHG emissions from imported energy; Category 3: Indirect GHG emissions from transportation; Category 4: Indirect GHG emissions from products used by an organization; Category 5: Indirect GHG emissions associated with the use of products from the organization; Category 6: Indirect GHG emissions from other sources. Category 3, Category 5 and Category 6 are not reported by the organization during this reporting period.
GHG types	Include 7 types of GHG i.e. CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> and NF <sub>3</sub>
Time period(s)	01/01/2022- 31/12/2022
Base year	The base year is 2020

### 4. Level of assurance: Reasonable level of assurance

5. Others: The evidences and information claimed by the organization are reasonable assumptions, predictions and / or historical facts.

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

