

# 温室气体核查证书

证书登记号码 : CF 50462041 0001

核查报告号码 : 90107732 001

证书持有者 :  中芯国际集成电路制造(天津)有限公司  
天津市西青经济开发区兴华道 19 号

核查范围 : 本次核查包含:  
- 中芯国际集成电路制造(天津)有限公司:  
- 天津市西青经济开发区兴华道 19 号

已依照 ISO 14064-3:2006 之要求, 就 ISO 14064-1:2006 之条文内容进行核查。  
核查的过程包含:

- 文件审查, 访谈, 远程核查与重新计算

基于取得的信息进行评估, 莱茵检测认证服务(中国)有限公司之核查结论:

- 双方同意本次温室气体核查为"合理保证等级".
- 核查的实质性要求为 5%, 全球暖化潜势(GWP)依据 IPCC 2013 报告执行, 数据与信息为历史性数据.
- 基准年为: 2009
- 核查年为: 2019
- 碳排放总量为 100124.70 吨/二氧化碳当量(tCO<sub>2</sub>e)
  - 直接排放为 29466.09 吨/二氧化碳当量(tCO<sub>2</sub>e) (29.43%)
  - 能源间接排放为 70658.61 吨/二氧化碳当量(tCO<sub>2</sub>e) (70.57%)
  - 其他间接排放为 0.00 吨/二氧化碳当量(tCO<sub>2</sub>e) (0.00%)
  - 生质燃烧排放为 0.00 吨/二氧化碳当量(tCO<sub>2</sub>e)
- 电力排放因子: 2017 年度减排项目中国区域电网基准线排放因子, 华北电网的 OM 值

有效性 : 本证书仅对核查年度进行核查, 非对管理体系进行认证

证书生效期为 2020/03/25

台湾德国莱茵技术监护顾问股份有限公司  
台湾 105 台北市八德路四段 758 号 11 楼

  
Jason J. S. Wu

德国莱茵大中华区管理系统服务  
2020/03/25

This Verification Statement is based on the information made available to TÜV Rheinland Greater China and the engagement conditions detailed above. Therefore, TÜV Rheinland Greater China cannot guarantee the accuracy or correctness of this information. TÜV Rheinland Greater China cannot be held liable by any party relying or acting upon this Verification Statement.

# Greenhouse Gas Verification Statement

Statement Registr. No.: **CF 50462041 0001**

Verification Report No.: **90107732 001**

License Holder :



**Semiconductor Manufacturing International  
(Tianjin) Corporation**

No.19 Xinghua Road, Xiqing Economic  
Development Area, Tianjin, 300385, China

Scope

- : The inventory include:
- Semiconductor Manufacturing International (Tianjin) Corporation:
    - No.19 Xinghua Road, Xiqing Economic Development Area, Tianjin, 300385, China

has been verified in accordance with ISO 14064-3:2006 as meeting the requirements of ISO 14064-1:2006. Following activities were conducted during verification:

- Document review, interview, remote verification and recalculation

Based on the information we have received and evaluated, it was verified by TÜV Rheinland (China) Ltd. that:

- The level of assurance carried out in this verification was agreed by both parties is Reasonable Assurance Level.
- Required materiality of the verification is 5% and GWP value is following IPCC 2013. Data and information, which support this verification, are from historical in nature.
- The base year: 2009
- The verified year: 2019
- The total carbon emission is 100124.70 tons of carbon dioxide equivalent (tCO<sub>2</sub>e), where as the:
  - direct emission is 29466.09 tCO<sub>2</sub>e (29.43%)
  - energy indirect emission from purchased electricity is 70658.61 tCO<sub>2</sub>e (70.57%)
  - other indirect emissions is 4762.21 tCO<sub>2</sub>e (2.45%)
  - biomass emission is 0.0000 tCO<sub>2</sub>e
- The inventory use OM value of North China of 2017 Chinese national average electricity emissions factor for GHGs calculation.

Validity

- : This statement only verified the year of verification, this verification is not for the management systems certification.

Date of Issue 2020/03/25

TÜV Rheinland Taiwan Ltd.  
11F, No. 758, Sec. 4, Bade Rd.,  
Taipei 105, Taiwan, R.O.C.

  
**Jason J. S. Wu**

TÜV Rheinland Systems Greater China  
2020/03/25

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