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# 温室气体核查意见书

授予

## 苏州纽威阀门股份有限公司

必维认证（北京）有限公司（以下简称“必维”）受苏州纽威阀门股份有限公司的委托，对苏州纽威阀门股份有限公司报告的温室气体排放量进行独立的第三方核查，本核查意见适用于下文所述工作范围内的相关信息。

### 核查边界：

- 核查场所名称：苏州纽威阀门股份有限公司
- 核查地址：中国江苏省苏州新区泰山路 666 号
- 温室气体报告期限：2023 年 01 月 01 日 - 2023 年 12 月 31 日

**组织边界：**苏州纽威阀门股份有限公司实施运营控制和财务控制的活动和设施

**报告边界：**苏州纽威阀门股份有限公司组织边界内，工业阀门的设计开发、生产和相关管理活动过程中产生的温室气体排放及其重要的间接温室气体排放

### 经核查的排放量：

- 类别1：直接温室气体排放：1,879.51 tCO<sub>2</sub>e
  - 类别2：输入能源的间接温室气体排放（基于位置）：6,692.086 tCO<sub>2</sub>e
  - 类别3：运输的间接温室气体排放：13,578.45 tCO<sub>2</sub>e
  - 类别4：组织使用产品的间接温室气体排放：106,154.80 tCO<sub>2</sub>e
  - 类别5：与使用组织产品有关的间接温室气体排放：非重要间接排放，未量化
  - 类别6：其它来源的间接温室气体排放：非重要间接排放，未量化
- 经量化的总排放量（基于位置）：128,304.9 tCO<sub>2</sub>e

**限制性叙述：**排除其他非重要间接温室气体排放

### 温室气体核查依据：

- ISO 14064-1:2018 温室气体 - 第1部分：组织层面温室气体排放和移除的量化和报告的要求及指南
- ISO 14064-3:2019 温室气体 - 第3部分：温室气体声明核查和审定规范及指南

### 保证等级：

- 合理保证

### 核查方法：

- 访谈相关人员；
- 评审提供的文件证据；
- 评估用于数据收集、汇总、分析和检查的量化方法和信息系统；
- 核查抽样场所和数据源。

### 核查结论：

基于核查工作实施过程和核查发现，苏州纽威阀门股份有限公司在盘查报告中提供的温室气体排

认证机构地址：中国北京市东城区东长安街1号东方广场西一办公楼9层902室，邮编：100738

需进一步澄清本意见书的核查范围，可直接向本意见书持有者查询

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放量数据，与ISO 14064-1:2018 温室气体 - 部分1：组织层面温室气体排放和移除的量化和报告的要求及指南是相符的。

**独立、公正和胜任能力声明：**

必维集团是一家拥有190多年历史，在质量、环境、职业健康安全和社会责任领域提供独立验证服务的机构。必维核查团队与苏州纽威阀门股份有限公司及其管理人员不存在其它的商业关系，核查团队的核查活动是独立的、公正的，不存在任何利益冲突。必维集团在整个业务范围内实施商业道德准则，以确保员工在日常业务活动中保持最高的道德标准。

核查组长：李永健

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必维认证（北京）有限公司授权代表





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# 温室气体核查意见书附件

苏州纽威阀门股份有限公司委托必维认证（北京）有限公司对其的报告边界范围内的温室气体排放进行第三方核查，核查的关键信息如下：

- GWP 版本：AR6
- 温室气体类型：7 类（CO<sub>2</sub>,CH<sub>4</sub>,N<sub>2</sub>O,HFCs,PFCs,SF<sub>6</sub>,NF<sub>3</sub>）
- 数据库：《2006 年 IPCC 国家温室气体指南》的计算方法，及依据《综合能耗计算通则（GB/T2589—2020）》、《2012 年中国区域电网基线排放因子》、美国 EPD climate change leadership “Emission Factors for Greenhouse Gas Inventories”

### 排放因子数据表

GHG清单类别	GHG 排放源	温室气体	排放因子		数据来源
			数值	单位	
直接温室气体排放	喷涂制程烘烤使用天然气炉	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	1.9996	kgCO <sub>2</sub> e/m <sup>3</sup>	IPCC 2006
	焊接制程预热消耗液化石油气	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	3.1730	kgCO <sub>2</sub> e/kg	IPCC 2006
	金相喷涂加热航天煤油	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	3.1641	kgCO <sub>2</sub> e/kg	IPCC 2006
	公务车消耗汽油	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	3.0602	kgCO <sub>2</sub> e/kg	IPCC 2006
	叉车消耗柴油	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	3.5028	kgCO <sub>2</sub> e/kg	IPCC 2006
	焊接CO <sub>2</sub> 气体	CO <sub>2</sub>	1	kgCO <sub>2</sub> e/kg	IPCC 2006
	空调冷干机冷水机逸散冷媒R410A	HFCs	1127.75	kgCO <sub>2</sub> e/kg	AR6
输入能源间接温室气体排放	外购电力	CO <sub>2</sub>	0.5703	kgCO <sub>2</sub> e/kwh	“2022 年中国区域电网平均二氧化碳排放因子”
运输的间接温室气体排放	厂外车辆消耗柴油	CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub>	3.2146	kgCO <sub>2</sub> e/kg	IPCC 2006



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# Greenhouse Gases Verification Opinion

is awarded to

## NEWAY VALVE (SUZHOU) CO., LTD.

Bureau Veritas Certification (Beijing) Co., Ltd. was engaged to conduct an independent verification of the greenhouse gases (GHG) emissions reported by NEWAY VALVE (SUZHOU) CO., LTD. for the period stated below. This verification opinion applies to the related information included within the scope of work described below.

### Boundaries covered by the verification:

- Verification site name: NEWAY VALVE (SUZHOU) CO., LTD.
- Verification site address: NO.666 Taishan Road, Suzhou New District, Jiangsu Province, P.R.China(215129)
- Reporting period covered: 01/01/2023 to 31/12/2023

**Organizational boundaries:** Activities and facilities of NEWAY VALVE (SUZHOU) CO., LTD. under operational and financial control approach.

**Reporting boundaries:** GHG emissions generated in design, production of industrial Valve and related management activities within the organizational boundaries, as well as significant indirect greenhouse gases emissions.

### Emissions data verified under reporting boundaries:

- Category 1: Direct GHG emissions: 1,879.51 tCO<sub>2</sub>e
- Category 2: Indirect GHG emissions from imported energy (location-based): 6,692.086 tCO<sub>2</sub>e
- Category 3: Indirect GHG emissions from transportation: 13,578.45 tCO<sub>2</sub>e
- Category 4: Indirect GHG emissions from products used by organization: 106,154.80 tCO<sub>2</sub>e
- Category 5: Indirect GHG emissions associated with the use of products from the organization: Non-significant indirect emissions and not quantified
- Category 6: Indirect GHG emissions from other sources: Non-significant indirect emissions and not quantified

Total quantified emissions(location-based): 128,304.9 tCO<sub>2</sub>e

**Limitations and exclusions:** Excluding other non-significant indirect GHG emissions

### GHG verification protocol used to conduct the verification:

- 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

### Level of assurance:

- Reasonable assurance



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**GHG verification methodology:**

- Interview for relevant personnel;
- Review of the documentary evidence;
- Evaluation of the methodology and information systems for data collection, aggregation, analysis and review;
- Audit of sampled sites and data to verify source.

**Verification conclusion:**

Based on the verification process and findings, the GHG emission data in the GHG inventory report from NEWAY VALVE (SUZHOU) CO., LTD. is in compliance with 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.

**Statement of independence, impartiality and competence:**

Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 190 years' history in providing independent assurance services.

No member of the verification team has a business relationship with NEWAY VALVE (SUZHOU) CO., LTD and its directors or managers beyond that required by this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

**Lead verifier:** *Jerry Li*

**No.:** EMI21750689

**Version No.:** No.1

**Verification date:** 31/05/2024

**Issue date:** 12/06/2024

Signed on behalf of  
Bureau Veritas Certification (Beijing) Co., Ltd.



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## Appendix for Greenhouse Gases Verification Opinion

NEWAY VALVE (SUZHOU) CO., LTD. has commissioned Bureau Veritas Certification (Beijing) Co., Ltd. to conduct a third-party verification on the GHG emissions within its reporting boundary. Key information is listed below:

- GWP source: AR6
- Types of GHG: 7 types (CO<sub>2</sub>,CH<sub>4</sub>,N<sub>2</sub>O,HFCs,PFCs,SF<sub>6</sub>,NF<sub>3</sub>)
- Database: The calculation method of the "2006 IPCC National Greenhouse Gas Guidelines" and base on the "General Principles for Comprehensive Energy Consumption Calculation (GB/T2589-2020)", "2012 China Regional Grid Baseline Emission Factors", and the US EPD climate change leadership "Emission Factors for Greenhouse Gas Inventories"

Emission Factor Data Sheet					
GHG Inventory Categories	GHG Source	GHG	Emission Factor		Reference
			Quantity	Unit	
Direct GHG emissions	Natural Gas used for drying	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	1.9996	kgCO <sub>2</sub> e/m <sup>3</sup>	IPCC 2006
	LPG used for pre-heating	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	3.1730	kgCO <sub>2</sub> e/kg	IPCC 2006
	Aerospace kerosene used for Metallographic spraying	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	3.1641	kgCO <sub>2</sub> e/kg	IPCC 2006
	Gasoline used for official vehicle	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	3.0602	kgCO <sub>2</sub> e/kg	IPCC 2006
	Diesel used for forklift	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	3.5028	kgCO <sub>2</sub> e/kg	IPCC 2006
	CO <sub>2</sub> used for welding	CO <sub>2</sub>	1	kgCO <sub>2</sub> e/kg	IPCC 2006
	R410A Refrigerant used for air conditioner, Cold dryer and chiller	HFCs	1127.75	kgCO <sub>2</sub> e/kg	AR6
Indirect GHG emissions form imported energy	Purchased power	CO <sub>2</sub>	0.5703	kgCO <sub>2</sub> e/kwh	"Average carbon dioxide emission factor of China's regional power grid in 2022 "
Indirect GHG emissions from transportation	Diesel used for vehicle outside	CO <sub>2</sub> , N <sub>2</sub> O,CH <sub>4</sub>	3.2146	kgCO <sub>2</sub> e/kg	IPCC 2006

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738  
 Further clarifications regarding the verification scope of this opinion may be obtained by consulting the organization.  
 To check this opinion validity please call: +86 10 59683663