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温室气体核查声明书

授予

天科技海缆股份有限公司

核查地址：江苏省

经济技术开发区新南路 1 号（南厂区）

江苏省

经济技术开发区齐山路 109 号（北厂区）

组织边界：天科技

股份有限公司基于运营控制的两个厂区范围（包括车间、办公室）

区域、

报告边界：天科技

股份有限公司南厂区的海底光缆、海底电缆、海底光电复合

以及北

的电线电缆的设计、生产和服务的直接和间接排放源

限制性叙述：排除其

重要间接温室气体排放

保证等级：合理保证

必维认证（北京）有限公司

证明上

下列国际标准执行组织温室气体查证工作，查证数据

O 14064-1:2018

2022 年 1 月 1 日到 2022 年 12 月 31 日期间

能源间接排放数值为：48,136.19 吨 CO₂e

排放源数值（类别 3、类别 4）为：40,426.40 吨 CO₂e

基准年：2011 年

签发日期：2023

5 月 19 日

声明书编号：CN

8659065

正机构地址：

北京市东城区东长安街 1 号东方广场西一办公楼 9 层 905 室，邮编：100738

当地地址：

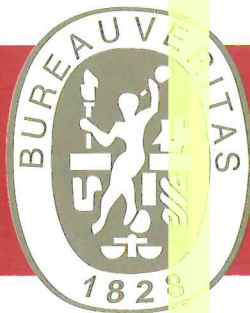
上海市黄浦区外马路 1288 号综合楼四层 B 室，邮编：200011

进一步澄清

书的核查范围，可直接向持声明书者查询

需验证本声明

状态请电：+86 21 23190119



温室气体核算指南 (附件)

中天科技海缆股份有限公司委托必维国际认证有限公司对该公司的报告边界范围内的温室气体排放进行第三方核查。

排放源		温室气体	排放因子	单位	备注
类别	设备				
直接温室气体排放	焊接机乙炔	CO ₂	1	tCO ₂ e/t	质量平衡方法
	焊接机二氧化碳	CO ₂	1	tCO ₂ e/t	质量平衡方法
	烘烤机液化石油气	CO ₂	1	kg CO ₂ /TJ	IPCC 2006
		CH ₄	1	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	0.0001	kg N ₂ O/TJ	IPCC 2006
	公务用车汽油	CO ₂	3	kg CO ₂ /TJ	IPCC 2006
		CH ₄	0.0001	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	0.0001	kg N ₂ O/TJ	IPCC 2006
	货车柴油	CO ₂	1	kg CO ₂ /TJ	IPCC 2006
		CH ₄	0.0001	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	0.0001	kg N ₂ O/TJ	IPCC 2006
	叉车柴油	CO ₂	1	kg CO ₂ /TJ	IPCC 2006
		CH ₄	0.0001	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	0.0001	kg N ₂ O/TJ	IPCC 2006
输入能源间接温室气体排放	外购电力	CO ₂	0.58	tCO ₂ e/MWh	2012 年中国区域电网平均 CO ₂ 排放因子
	外购蒸汽	CO ₂	1	tCO ₂ e/GJ	2021-2022 年全国碳排放交易权交易配额总量设定与分配实施方案

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运输过程 间接温室 气体排放	道路运输 (货 运) 平均	CO ₂	0.074	kg CO _{2e} /(t*km)	中国产品全生命周期温室气 体排放系数库
	水运 (货运) 平均		0.012	kg CO _{2e} /(t*km)	
	航空 (客运) 平均		0.088	kg CO _{2e} /(人*km)	
	铁路 (客运) 平均		0.018	kg CO _{2e} /(人*km)	
	汽油小客车		0.041	kg CO _{2e} /(人*km)	
	柴油公交车		0.015	kg CO _{2e} /(人*km)	
	摩托车		0.062	kg CO _{2e} /(人*km)	
组织使用 产品的间 接温室气 体排放	酒店住宿	CO ₂	25.29g	kg CO _{2e} /晚	中国产品全生命周期温室气 体排放系数库
	废金属	CO ₂	0.021317	tCO _{2e} /t	UK Government GHG Conversion Factors for Company Reporting
	废纸品		0.021317	tCO _{2e} /t	
	废塑料		0.021317	tCO _{2e} /t	
	废橡胶		0.021317	tCO _{2e} /t	
	废木头		0.021317	tCO _{2e} /t	

上述经查证均适宜。除上述排放源外,其他温室气体排放源经查证不具备经济性和技术
性。

查证不确定性: 定性分析数据品质良好

方法学抽样率: 100%

核查组长: 蔡世文

授权代表: [Signature]

查证日期: 2023 年 4 月 24 日

批准日期: 2023 年 05 月 19 日

认证机构地址: 中国北京东城区东长安街1号东方广场西二办公楼9层902室, 邮编: 100738

当地办公室地址: 中国上海浦东新区外马路1288号综合楼四层B室, 邮编: 200011

需进一步澄清本声明书范围, 可直接向本声明书持有者查询
联系: +86 21 2319 0319



Greenhouse Gas Verification Statement

Zhongtian Technology Co., Ltd.

Verified Address: Xinkainan Road, Jiangsu Province, China
Economic and Technological Development Zone, Jiangsu Province, China
Xinkainan Road No. 10, Jiangsu Province, China
Economic and Technological Development Zone, Jiangsu Province, China

Organizational boundary: The two factories owned and operated by Zhongtian Technology Co., Ltd. (including workshops, offices, warehouses, etc.)

Reporting boundary: The direct and indirect greenhouse gas emissions from the production and service of submarine optical fiber cables, submarine power cables, and other products.

Limitation conclusion: Exclude other products.

Assurance level: Reasonable

Bureau Veritas Certification (Beijing) Co., Ltd.

Certifies that the organization has complied with the requirements of the standard for greenhouse gas calculation. Certification is based on the calculation.

ISO 14064-1:2018

Verified greenhouse gas emissions: 31,000 tCO₂e
Verified direct and indirect greenhouse gas emissions: 36.19 ton CO₂e
Verified other significant greenhouse gas emissions: 0.12 ton CO₂e
(Category 4): 40,400 tCO₂e

Base year: Y2021

Issue date: 19 May, 2023

Statement Number: CNS1418605

Greenhouse Gas Verification Statement (Appendix)

Zhongtian Technology Submarine Cable Co., Ltd. has commissioned Bureau Veritas (Beijing) Co., Ltd. to conduct a third-party verification on the greenhouse gas emissions within its reporting boundary.

Source		GHG	Factor		Reference
Type	Facility		Quantity	Unit	
Direct GHG emissions	Acetylene of Welding machine	CO ₂	3.3846	tCO _{2e} /t	Mass balance method
	Carbon dioxide of Welding machine	CO ₂	1	tCO _{2e} /t	Mass balance method
	LPG of Roaster	CO ₂	63100	kg CO ₂ /TJ	IPCC 2006
		CH ₄	1	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	0.1	kg N ₂ O/TJ	IPCC 2006
	Gasoline of Car	CO ₂	69300	kg CO ₂ /TJ	IPCC 2006
		CH ₄	3.8	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	5.7	kg N ₂ O/TJ	IPCC 2006
	Diesel oil of Truck	CO ₂	74100	kg CO ₂ /TJ	IPCC 2006
		CH ₄	3.9	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	3.9	kg N ₂ O/TJ	IPCC 2006
	Diesel oil of Fork cart	CO ₂	74100	kg CO ₂ /TJ	IPCC 2006
		CH ₄	4.15	kg CH ₄ /TJ	IPCC 2006
		N ₂ O	28.6	kg N ₂ O/TJ	IPCC 2006
Indirect GHG emissions from imported energy	Power	CO ₂	0.7035	ton CO _{2e} /MWh	Average CO ₂ emission factors of China's regional power grids in 2012

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Indirect GHG emissions from imported energy	Steam	CO ₂	0.1105	ton CO ₂ e/GJ	Implementation plan for setting and allocating the total amount of national carbon emission trading rights trading quotas in 2021-2022
Indirect GHG emissions from transportation	Road traffic (freight)	CO ₂ /CH ₄ /N ₂ O	0.074	kg CO ₂ e/(t*km)	China products carbon footprint factors database
	Water transport (freight)		0.012	kg CO ₂ e/(t*km)	
	Aviation (passenger transport)		0.088	kg CO ₂ e/(passenger*km)	
	Railway (passenger transport)		0.018	kg CO ₂ e/(passenger*km)	
	Gasoline car		0.041	kg CO ₂ e/(passenger*km)	
	Diesel bus		0.015	kg CO ₂ e/(passenger*km)	
	Motorcycle		0.062	kg CO ₂ e/(passenger*km)	
Indirect GHG emissions from products used by organization	Accommodation	CO ₂ /CH ₄ /N ₂ O	25.29	kg CO ₂ e/night	China products carbon footprint factors database
	Waste Metal	CO ₂ /CH ₄ /N ₂ O	0.021317	kg CO ₂ e/t	UK Government GHG Conversion Factors for Company Reporting
	Waste Paper		0.021317	kg CO ₂ e/t	
	Waste Plastic		0.021317	kg CO ₂ e/t	
	Waste Rubber		0.021317	kg CO ₂ e/t	
	Waste Wood		0.021317	kg CO ₂ e/t	

Above have been verified to be suitable. Except above emission sources, other greenhouse gas emission sources do not have the economic and technical characteristics to collect.

Verify Uncertainty: Qualitative analysis, good data quality

Sampling method: 100%

Lead verifier: Shi Wen Cai

Authorized Representative: [Signature]

Verification date: 4 April, 2023

Approved date: 19 May, 2023

Certification body: Room 02, 9/F, West Office Building, 1, Oriental Economic TradeCity, Oriental Plaza, No.1 East Chang'an Avenue, Dongcheng District, Beijing, China, 100738
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Further clarification: Rm. 100738, Huangpu District, Shanghai, China, 200011
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