

授予

支海缆股份有限公

叙述:

设计: 台述单位依 示标准执行组 只温 气体正 查证数 居

明上

经核	2022 年 1 月 1 日到 2022 年 12 月 31 日	公司
室气体直	能直接排放数值为: 436.1	吨
室气体间	放数值类别 3、为	10 吨 CO ₂ e

证温
证温

日期: 2023 年 5 月 9 日

声 号: CN 8 65

日期

书编

正机构地址: 七 城 区 东 长 安 街 1 号 方
也办公室地 置 浦 区 安 路 1288 号 数
生一步澄清才 黄 围, 外 马 接 向 持 声
坚证本声明日 如 是: +86 21 3190 19

一办 9 室, 邮编: 100738
层 00011

查询

温室气体核算

中天科技股份有限公司对必维立比有限公司对报告边界内
内的温室气体排放进行第三方查。

排放源	设备	温室气体	数量	单位	备注
直接温室气体排放	焊接机乙炔	CO ₂	8.3	kg CO ₂ /t	量平衡方法
	焊接机二氧化碳	CO ₂	1	kg CO ₂ /t	量平衡方法
	烘烤机液化石油气	CO ₂	631	kg CO ₂ /	PCC 2006
		CH ₄	1	kg CH ₄ /	PCC 2006
		N ₂ O	0.	kg N ₂ O/	PCC 2006
	公务用车汽油	CO ₂	693	kg CO ₂ /	PCC 2006
		CH ₄	3.	kg CH ₄ /	PCC 2006
		N ₂ O	5.	kg N ₂ O/	PCC 2006
	货车柴油	CO ₂	741	kg CO ₂ /	PCC 2006
		CH ₄	3.	kg CH ₄ /	PCC 2006
输入能源间接温室气体排放	叉车柴油	N ₂ O	3.	kg N ₂ O/	PCC 2006
		CO ₂	741	kg CO ₂ /	PCC 2006
		CH ₄	4.1	kg CH ₄ /	PCC 2006
	外购电力	N ₂ O	23	kg N ₂ O/	PCC 2006
		CO ₂	0.7	tCO ₂ -MV	在中国区域电网CO ₂ 排放因子
	外购蒸汽	CO ₂	11	tCO ₂ /G	2022 年全国碳排放权交易配额总量分配实施

BEAU VERITAS

Verification



运输过程 间接温室气体排放	货物	0.000000	kg CO ₂ e	中国产品生命周期温室气体排放系数库
		0.000000	/ton*km	
		0.000000	kg CO ₂ e	
		0.000000	/ton*km	
		0.000000	kg CO ₂ e	
		0.000000	/人*km	
	CO ₂ /CH ₄ /N ₂ O	0.000000	kg CO ₂ e	
组织使用 产品的间接温室气体排放		0.000000	kg CO ₂ e	中国产品生命周期温室气体排放系数库
		0.000000	/人*km	
		0.000000	kg CO ₂ e	
		0.000000	/人*km	
		0.000000	kg CO ₂ e	
		0.000000	/人*km	
	CO ₂ /CH ₄ /N ₂ O	0.000000	kg CO ₂ e	
组织使用 产品的间接温室气体排放		0.020000	tCO ₂ e/	UK Government GHG Conversion Factors for Company Reporting
		0.020000	tCO ₂ e/	
		0.020000	tCO ₂ e/	
		0.020000	tCO ₂ e/	
		0.020000	tCO ₂ e/	
		0.020000	tCO ₂ e/	
		0.020000	tCO ₂ e/	

上述经过查证，除上述排放源外，其他温室气体排放源经过查证不具备经济性和技术可行性。
查证不满足定性分析，数据品质良好。
核查组文件。
查证日期：2023年4月23-24日
批准日期：2023年5月19日



Statement of Work for the Development of a New Type of Submarine Cable

The purpose of this Statement of Work is to define the scope, objectives, and deliverables for the development of a new type of submarine cable. The project is being undertaken by the Bureau of Standards and Metrology of the People's Republic of China, in collaboration with the Ministry of Defense and the Ministry of Science and Technology.

The project is divided into three main phases: 1. Design and Development, 2. Testing and Evaluation, and 3. Production and Distribution. The Design and Development phase will involve the selection of materials, the design of the cable structure, and the development of manufacturing processes. The Testing and Evaluation phase will involve the construction of prototypes, the testing of these prototypes under various conditions, and the evaluation of the results. The Production and Distribution phase will involve the mass production of the cable and its distribution to the relevant departments.

The project is being undertaken by the Bureau of Standards and Metrology of the People's Republic of China, in collaboration with the Ministry of Defense and the Ministry of Science and Technology.

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BUREAU VERITAS
Certification

Greenhouse Gas Verification Statement

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

Scope	Type	Facility	GHG	Quantity	Factor	Unit	Reference
Direct GHG emissions		Acetylene of Welding machine	CO ₂	846	tCO ₂ e	/t	Mass balance method
		Carbon dioxide of Welding machine	CO ₂	1	tCO ₂ e	/t	Mass balance method
		LPG of Roaster	CO ₂	100	kg C ₂ H ₆		IPCC 2006
			H ₄	1	kg C ₂ H ₆		IPCC 2006
			CO	1	kg N ₂ O		IPCC 2006
			CO ₂	300	kg C ₂ H ₆		IPCC 2006
		Gasoline of Car	H ₄	8	kg C ₂ H ₆		IPCC 2006
			CO	7	kg N ₂ O		IPCC 2006
			CO ₂	100	kg C ₂ H ₆		IPCC 2006
		Diesel oil of Truck	H ₄	9	kg C ₂ H ₆		IPCC 2006
			CO	9	kg N ₂ O		IPCC 2006
			CO ₂	100	kg C ₂ H ₆		IPCC 2006
		Diesel oil of Fork cart	H ₄	15	kg C ₂ H ₆		IPCC 2006
			CO	6	kg N ₂ O		IPCC 2006
Indirect GHG emissions for imported energy		Power	CO ₂	35	to CO ₂ e/Wh		Average CO ₂ emission factors China's regional power grids in 20

Certification
No.1 East
Local office
Further contact
To check

Address: Room 02, 9 / F, V
an Street, Dongcheng District
Beijing
ons regarding the verification
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BUREAU VERITAS

Certification



Indirect emissions from imported energy	Scope 1	CO ₂	105	tonnes CO ₂ e	Importation for selling and allocating the total amount of national carbon trading rights in 2021-2022
Indirect emissions from transport	Road transport (freight)	CO ₂ /C ₄ H ₁₀ /N ₂ O	074	kg CO ₂ /ton	China products carbon footprint database
	Aviation (passenger)	CO ₂ /C ₄ H ₁₀ /N ₂ O	012	kg CO ₂ /ton	
	Railway (passenger)	CO ₂ /C ₄ H ₁₀ /N ₂ O	088	kg CO ₂ /ton	
	Gas pipeline	CO ₂ /C ₄ H ₁₀ /N ₂ O	018	kg CO ₂ /ton	
	Diesel	CO ₂ /C ₄ H ₁₀ /N ₂ O	041	kg CO ₂ /ton	
	Motocycle	CO ₂ /C ₄ H ₁₀ /N ₂ O	015	kg CO ₂ /ton	
Indirect emissions from products by organization	Accommodation	CO ₂ /C ₄ H ₁₀ /N ₂ O	062	kg CO ₂ /ton	
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	029	kg CO ₂ /ton	China products carbon footprint database
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	1317	kg CO ₂ /ton	UK Government GHG Conversion Factors for Company Reporting
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	1317	kg CO ₂ /ton	
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	1317	kg CO ₂ /ton	
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	1317	kg CO ₂ /ton	
	Waste	CO ₂ /C ₄ H ₁₀ /N ₂ O	1317	kg CO ₂ /ton	

Above have been verified by Bureau Veritas. Except above, all other greenhouse gas emissions are not included in the scope of this certification.

Verify independently: Quality analysis, good quality

Sampling method: Quality analysis, good quality

Lead verification: Shown on the certificate

Verification date: 2023

Authorized Representative

Approved date: 19 May, 2023

[Signature]

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