



温室气体核查报告

授予

天支海缆股份有限公司

核查地址 [江苏省南 至 [技术开 新南 号 [厂
[江苏省南 至 [技术开 干 号 [厂
组织边界 户天科技 及 限公司 基于运 营 的 [厂 围 (包括 车间、办
公区域、
报告边界 户天科技 及 限公司 南厂区的 光 纤 缆、海 底 光 电 复 合
以及北 创 电 缆 的 设 计、生 产 服 务 间 接 排 放 源
限制 叙 排除其 重 接 温 室 气 体 排 放
保证 级 合理保证

必 证 (北 京) 有 限 公 司

证 述 单 位 依 标 准 执 行 组 织 温 室 气 体 正 确 查 证 数 据
和 计 算 。 其 它 详 明 证 件 包 括

C 4064-1

经核 22 年 1 月 1 日 到 2022 年 2 月 1 日 止
查 室 气 体 直 能 接 排 放 数 值 为 4 36.1 吨
查 室 气 体 间 接 排 放 值 (类 别 3、类 别 为 15.4 吨 CO₂e
基 准 年 : 2011

发 行 日 期 : 2023 年 5 月 9 日
明 证 号 : CN 86 65

温室气体核算与报告（附件）

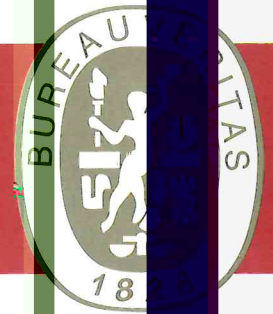
中天科技股份有限公司委托必维（北京）有限公司对该公司报告边界范围内的温室气体排放进行第三方核查。

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	焊机乙炔	CO ₂	646 t CO ₂ /t	量平衡方法
	焊机二氧化碳	CO ₂	t CO ₂ /t	量平衡方法
	烘烤机液化石油气	CO ₂	100 kg CO ₂ /TJ	PCC 2006
		CH ₄	1 kg CH ₄ /TJ	PCC 2006
		N ₂ O	0.1 kg N ₂ O/TJ	PCC 2006
		CO ₂	300 kg CO ₂ /TJ	PCC 2006
	公务用车汽油	CH ₄	8 kg CH ₄ /TJ	PCC 2006
		N ₂ O	7 kg N ₂ O/TJ	PCC 2006
		CO ₂	100 kg CO ₂ /TJ	PCC 2006
	货车柴油	CH ₄	9 kg CH ₄ /TJ	PCC 2006
		N ₂ O	9 kg N ₂ O/TJ	PCC 2006
		CO ₂	100 kg CO ₂ /TJ	PCC 2006
	叉车柴油	CH ₄	15 kg CH ₄ /TJ	PCC 2006
		N ₂ O	36 kg N ₂ O/TJ	PCC 2006
输入能源间接温室气体排放	外购电力	CO ₂	35 tCO ₂ /MWh	在中国区域电网平均碳排放因子
	外购蒸汽	CO ₂	0.105 tCO ₂ /GJ	2022 年全国碳排放权交易配额总量单侧分配实施



运输过程 间接温室气体排放	道路货运	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / ton*km	中国产品生命周期温室气体排放系数库
	水运	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / ton*km	
	航空	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / (人*km)	
	铁路运输	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / (人*km)	
	汽车	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / (人*km)	
	柴油	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / (人*km)	
	其他	CO ₂ /CH ₄ /N ₂ O	0.000000	g CO ₂ / (人*km)	
组织使用产品的间接温室气体排放	汽油	CO ₂ /CH ₄ /N ₂ O	25.20	g CO ₂ / 晚	中国产品生命周期温室气体排放系数库
	柴油	CO ₂ /CH ₄ /N ₂ O	0.0213	g CO ₂ / 晚	UK Government GHG Conversion Factors for Company Reporting
	天然气	CO ₂ /CH ₄ /N ₂ O	0.0213	g CO ₂ / 晚	
	电力	CO ₂ /CH ₄ /N ₂ O	0.0213	g CO ₂ / 晚	
	其他	CO ₂ /CH ₄ /N ₂ O	0.0213	g CO ₂ / 晚	

上述经核查均属实，除上述排放源外，其他温室气体排放源经核查不具备经济性和技术可行性。
核查不确定定性分析，数据品质良好。方法学：样率：10%
核查组长：王文 授权代表：[Signature]
核查日期：2023年4月23日 批准日期：2023年5月19日



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

Address: 100000 Beijing, China

Organization: Ministry of Science and Technology

Project Name: Development of a New Type of Submarine Cable

Project Number: 100000

Project Start Date: 1990

Project End Date: 1995

Project Status: Completed

Project Description: Development of a new type of submarine cable for use in deep-sea exploration and research.

Project Objectives: To develop a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Results: The project has resulted in the development of a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Conclusions: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Recommendations: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Acknowledgments: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project References: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Appendix: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Glossary: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Index: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project Table of Contents: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project List of Figures: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project List of Tables: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

Project List of Equations: The project has been successful in developing a new type of submarine cable that is capable of operating at depths of up to 10,000 meters.

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BUREAU OF VERIFICATION AND CERTIFICATION

Greenhouse Gas Verification Statement

Zhongtian Technology Submarine Cable Co., Ltd. has commissioned Bureau of Verification and Certification (BV) to verify its greenhouse gas emissions within its reporting boundary.

Type	Facility	GHG	Quantity	Unit	Reference
Direct GHG emissions	Acetylene of Welding machine	CO ₂	846	tCO ₂ e	Mass balance method
	Carbon dioxide of Welding machine	CO ₂	1	tCO ₂ e	Mass balance method
	LPG of Roaster	CO ₂	100	kg CO ₂ e	IPCC 2006
		H ₄	1	kg CH ₄	IPCC 2006
		N ₂ O	0.1	kg N ₂ O	IPCC 2006
	Gasoline of Car	CO ₂	300	kg CO ₂ e	IPCC 2006
		H ₄	0.8	kg CH ₄	IPCC 2006
		N ₂ O	0.7	kg N ₂ O	IPCC 2006
		CO ₂	100	kg CO ₂ e	IPCC 2006
	Diesel oil of Truck	H ₄	0.9	kg CH ₄	IPCC 2006
		N ₂ O	0.9	kg N ₂ O	IPCC 2006
		CO ₂	100	kg CO ₂ e	IPCC 2006
	Diesel oil of Fork cart	H ₄	0.15	kg CH ₄	IPCC 2006
		N ₂ O	0.6	kg N ₂ O	IPCC 2006
Indirect GHG emissions for imported electricity	Power	CO ₂	035	ton CO ₂ e/MWh	Average CO ₂ emission factors China's regional power grids in 2012

BUREAU VERITAS Certification



Indirect emissions from the use of purchased electricity	Scope 2	CO ₂	105	tonnes	105	Implementation, for setting and allocating the total amount of national carbon emission trading rights and quotas in 2021-2022
Indirect emissions from the use of purchased steam	Scope 2	CO ₂	74	tonnes	74	
Indirect emissions from the use of purchased cold water	Scope 2	CO ₂	12	tonnes	12	
Indirect emissions from the use of purchased natural gas	Scope 2	CO ₂	88	tonnes	88	
Indirect emissions from the use of purchased diesel	Scope 2	CO ₂	18	tonnes	18	
Indirect emissions from the use of purchased kerosene	Scope 2	CO ₂	41	tonnes	41	
Indirect emissions from the use of purchased aviation kerosene	Scope 2	CO ₂	15	tonnes	15	
Indirect emissions from the use of purchased electricity	Scope 2	CO ₂	62	tonnes	62	
Indirect emissions from the use of purchased steam	Scope 2	CO ₂	29	tonnes	29	
Indirect emissions from the use of purchased cold water	Scope 2	CO ₂	1317	tonnes	1317	
Indirect emissions from the use of purchased natural gas	Scope 2	CO ₂	1317	tonnes	1317	
Indirect emissions from the use of purchased diesel	Scope 2	CO ₂	1317	tonnes	1317	
Indirect emissions from the use of purchased kerosene	Scope 2	CO ₂	1317	tonnes	1317	
Indirect emissions from the use of purchased aviation kerosene	Scope 2	CO ₂	1317	tonnes	1317	

Authorized Representative

Approved date: 19 May, 2023

Office Building 1, 100 District, Shanghai, China. 200000
 The scope of this certification may be obtained from the organization.