



BUREAU VERITAS
Center for
Energy

气体核

授予

支海缆股

核査 地址 江苏省 术开发区新子 号 厂

江苏省 术开发区齐山 号 厂

组织 边界 中天科 安 限公司 基于通 的 厂 围 (包括车间、办
公区域 等 区)

报告 边界 中天科 及 限公司 南厂区 光线 管 缆、海底光电复合
以及 作 电缆的设计、在 服 直 间接排放源

限制 量 排除 具 重 接温室 气体排

保证 级 合理保 庄

证 (北京) 司

述单 在 示标准 执行组 气 正 査证数据
之 理 和计算。其它 明 件 。

4004-1

终 核 2 月 1 日到 20 2 月 1 日 在 司

査 室气 直 能 接排放 数值为 36.1 吨

査 室气 间 放 值 别 3、1 为 9.4 吨 CO₂e

基 准 年: 20 2

发 行 日 期: 20 2 5 9 日

产 品 号: N 8 65



By J V R
Certification

温室气体核算方法与报告边界

中天科技股份有限公司必维尔(北京)有限公司对报告边界内
内的温室气体排放进行第三方核查。

排放源	设备	温室气体	核算方法	排放因子	单位	备注
直接温室气体排放	焊机乙炔	CO ₂	3.3	t	CO ₂ /t	量平衡方法
	焊机二氧化碳	CO ₂	1	t	CO ₂ /t	量平衡方法
	共烤机液化石油气	CO ₂	53	kg	CO ₂ /kg	PCC 2006
		CH ₄	1	kg	CH ₄ /kg	PCC 2006
		N ₂ O	0	kg	N ₂ O/kg	PCC 2006
		CO ₂	59	kg	CO ₂ /kg	PCC 2006
	公务用车汽油	CH ₄	3	kg	CH ₄ /kg	PCC 2006
		N ₂ O	5	kg	N ₂ O/kg	PCC 2006
		CO ₂	74	kg	CO ₂ /kg	PCC 2006
		CH ₄	3	kg	CH ₄ /kg	PCC 2006
货车柴油	N ₂ O	3	kg	N ₂ O/kg	PCC 2006	
	CO ₂	74	kg	CO ₂ /kg	PCC 2006	
	CH ₄	4	kg	CH ₄ /kg	PCC 2006	
	N ₂ O	2	kg	N ₂ O/kg	PCC 2006	
叉车柴油	CO ₂	74	kg	CO ₂ /kg	PCC 2006	
	CH ₄	4	kg	CH ₄ /kg	PCC 2006	
	N ₂ O	2	kg	N ₂ O/kg	PCC 2006	
	CO ₂	74	kg	CO ₂ /kg	PCC 2006	
输入能源间接温室气体排放	外购电力	CO ₂	6.7	tCO ₂	MWh	在中国区域电网CO ₂ 排放因子
	外购蒸汽	CO ₂	0.1	tCO ₂	/GJ	2022 年全国碳排放权交易配额的百分之

正机构地址：中国北京东城区东长安街1号必维尔(北京)有限公司一层B座，邮编：100738
 也办公室地址：中国上海浦东新区陆家嘴环路1000号必维尔(上海)有限公司一层B座，邮编：200120
 进一步澄清本声明书的范围，请联系必维尔(北京)有限公司，电话：+86 10 60000000



运输过程 间接温室 气体排放	道路货		0.0		中国产 生命周期温室气 体排放系数库
	水		0.0		
	航		0.0		
	铁	CO ₂ /CH ₄ /N ₂ O	0.0		
	汽		0.0		
	柴		0.0		
组织使用 产品的 间接温室 气体排放	汽	CO ₂ /CH ₄ /N ₂ O	25.0		中国产 生命周期温室气 体排放系数库
	电		0.02		UK Government GHG Conversion Factors for Company Reporting
	煤	CO ₂ /CH ₄ /N ₂ O	0.02		
	油		0.02		
	气		0.02		

上述经核查均符合除上述排放源外，其他温室气体排放经核查不具备经济性和技

术性。查证不确定性分析，数据质量良好。方法：样率：10%

核查组长：王文 日期：2023年5月19日

查证日期：2023年4月23-24日 批准日期：2023年5月19日



Statement of Work

China National Chemical Engineering Design Institute Co., Ltd.

China National Chemical Engineering Design Institute Co., Ltd. (CNEC) is a leading design and engineering firm in China, specializing in the design and construction of chemical and petrochemical plants. CNEC has a long history of providing high-quality services to its clients, and is committed to innovation and excellence in all its work.

The purpose of this Statement of Work (SOW) is to define the scope, objectives, and deliverables of the project. This SOW will serve as a reference point for all project activities and will be used to monitor and control project performance.

The project is to be completed in accordance with the terms and conditions set forth in this SOW. CNEC will be responsible for the design, engineering, and construction of the project, and will provide regular progress reports to the client.

Project Name: [Project Name]

Project Location: [Project Location]

Project Start Date: [Project Start Date]

Project End Date: [Project End Date]

Project Objectives: [Project Objectives]

Project Deliverables: [Project Deliverables]

Project Organization: [Project Organization]

Project Roles and Responsibilities: [Project Roles and Responsibilities]

Project Risks: [Project Risks]

Project Assumptions: [Project Assumptions]

Project Communication: [Project Communication]

Project Reporting: [Project Reporting]

Project Approval: [Project Approval]

Project Sign-off: [Project Sign-off]

Project Contact Information: [Project Contact Information]

Project Revision History: [Project Revision History]

Project Terms and Conditions: [Project Terms and Conditions]

Project Disclaimer: [Project Disclaimer]



Issue 1.0
Date: 2023-03-15

Prepared by: [Name]
Reviewed by: [Name]

Approved by: [Name]

Project Manager: [Name]

Client Representative: [Name]

Project Location: [Project Location]

Project Start Date: [Project Start Date]

Project End Date: [Project End Date]

Project Objectives: [Project Objectives]

Project Deliverables: [Project Deliverables]

Project Organization: [Project Organization]

Project Roles and Responsibilities: [Project Roles and Responsibilities]

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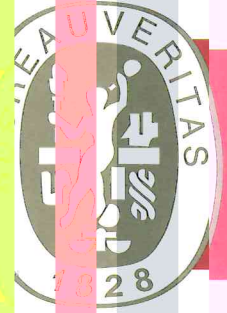
Greenhouse Gas Verification Statement

Appendix

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

Type	Facility	GHG	Quantity	Unit	Reference
Direct GHG emissions	Acetylene of Welding machine	O ₂	846	tCO ₂	Mass balance method
		CO ₂	1	tCO ₂	Mass balance method
	Carbon dioxide of Welding machine	O ₂	100	kg CO ₂	IF CC 2006
		H ₄	1	kg CH ₄	IF CC 2006
		eO	0.1	kg N ₂ O	IF CC 2006
	LPG of Roaster	O ₂	300	kg CO ₂	IF CC 2006
		H ₄	0.8	kg CH ₄	IF CC 2006
		eO	0.7	kg N ₂ O	IF CC 2006
	Gasoline of Car	O ₂	100	kg CO ₂	IF CC 2006
		H ₄	0.9	kg CH ₄	IF CC 2006
		eO	0.9	kg N ₂ O	IF CC 2006
	Diesel oil of Truck	O ₂	100	kg CO ₂	IF CC 2006
		H ₄	0.15	kg CH ₄	IF CC 2006
		eO	0.6	kg N ₂ O	IF CC 2006
Diesel oil of Fork cart	O ₂	035	ton CO _{2e} /M	Average CO ₂ emission factors China's regional power grids in 20	
	H ₄				
	eO				
Indirect GHG emissions for imported energy	Power	O ₂			

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Indirect emissions from imported energy	CO ₂	0.105	ton CO ₂ e	Implementation plan for setting and allocating the total amount of national carbon emission trading rights trading quotas in 2021-2022
Indirect emissions from transport	CO ₂	0.074	kg CO ₂ e	China products carbon footprint factors database
	CO ₂	0.012	kg CO ₂ e	
	CO ₂	0.088	kg CO ₂ e	
	CO ₂ /H ₄ /N ₂ O	0.018	kg CO ₂ e	
	CO ₂	0.041	kg CO ₂ e	
	CO ₂	0.015	kg CO ₂ e	
Indirect emissions from products by organization	CO ₂ /H ₄ /N ₂ O	25.29	kg CO ₂ e / kg	China products carbon footprint factors database
	CO ₂ /H ₄ /N ₂ O	0.01317	kg CO ₂ e / kg	UK Government GHG Conversion Factors for Company Reporting
	CO ₂ /H ₄ /N ₂ O	0.01317	kg CO ₂ e / kg	
	CO ₂ /H ₄ /N ₂ O	0.01317	kg CO ₂ e / kg	
	CO ₂ /H ₄ /N ₂ O	0.01317	kg CO ₂ e / kg	

Above the table, the verifier has verified the data provided by the organization. The organization has provided sufficient evidence to support the data provided. The verifier has conducted a risk-based audit and has identified no material misstatements. The organization's data is reliable and accurate. The organization's data is consistent with the data provided by other sources. The organization's data is consistent with the data provided by other sources. The organization's data is consistent with the data provided by other sources.

Authorized Representative

Approved date: 19 May 2023