武汉东方时代模塑制品有限公司

2022年度温室气体核查报告

2022 Greenhouse Gas Verification Report

Wuhan Oriental Age Molding Products Co., Ltd

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温室气体盘查准备

Greenhouse gas inventory preparation

确定核查对象与范围
Determine the verification object and scope

01

明确核查的温室气体种类

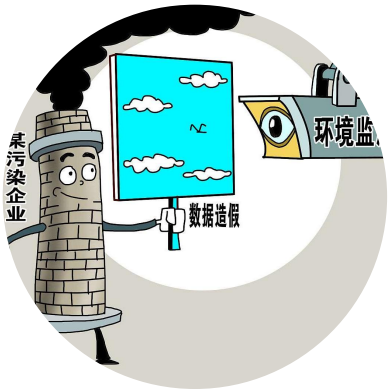
Clearly identify the types of greenhouse gases to be verified

根据相关法规和行业标准，确定需要核查的温室气体种类，如二氧化碳、甲烷等。 According to relevant regulations and industry standards, determine the types of greenhouse gases that need to be verified, such as carbon dioxide, methane, etc.

02

界定核查范围 Defining the scope of verification

明确核查的组织边界和运营边界，包括直接排放和间接排放的源头，以及涉及的设施和活动等。 Clearly define the organizational and operational boundaries for verification, including the sources of direct and indirect emissions, as well as the facilities and activities involved.



03

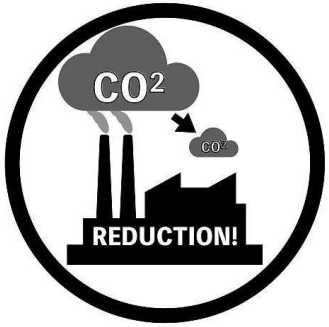
识别关键排放源 Identify key emission sources

针对核查范围内的活动和设施，识别出主要的温室气体排放源和关键过程。 Identify the main sources and key processes of greenhouse gas emissions for activities and facilities within the scope of verification.

确定核查对象与范围
Determine the verification object and scope

制定详细的核查计划
Develop a detailed verification plan

根据核查对象和范围，制定详细的核查计划，包括核查方法、核查步骤、数据收集与处理方式等。 Develop a detailed verification plan based on the verification object and scope, including verification methods, verification steps, data collection and processing methods, etc



编制核查时间表
Develop a verification schedule

结合核查计划，编制合理的核查时间表，明确各项核查任务的时间节点和完成期限。 Based on the verification plan, prepare a reasonable verification schedule, clarify the time nodes and completion deadlines for each verification task.

评估与调整计划
Evaluation and adjustment plan

在核查过程中，根据实际情况对核查计划和时间表进行评估和调整，确保核查工作的顺利进行。 During the verification process, evaluate and adjust the verification plan and schedule based on the actual situation to ensure the smooth progress of the verification work.

温室气体盘查清册与量化说明

Greenhouse Gas Inventory and Quantitative Explanation

2022年温室气体排放情况

温室气体种类 Types of greenhouse gases	能源名称 Name of the energy	消耗量 Full scale Qty	排放因子 Temperature emission factor	排放量（tCO_2） Emission load（tCO2）
范畴一 Scope 1	柴油（L） Diesel(L)	3622	2.78kgCO2/L	10
	生活废水（t） sanitary wastewater (t)	4883	0.0025tCO2/t	12
范畴二 Scope 2	电(kwh) Electric (kwh)	18,828,888	0.581kgCO2/kwh	10,940
总 排 放 当 量 Total equivalent value	-	-	-	10962

排放因子获取途径及选择依据
Ways to obtain emission factors and selection criteria

1

排放因子获取途径Ways to obtain emission factors

包括政府发布的排放因子、行业协会推荐的排放因子、企业实际测量得到的排放因子等。 This includes emission factors released by the government, emission factors recommended by industry associations, and emission factors actually measured by enterprises.

2

排放因子选择依据Selection criteria for emission factors

根据排放源的实际情况和核算要求选择合适的排放因子，确保核算结果的准确性和可靠性。 Select appropriate emission factors based on the actual situation of emission sources and accounting requirements to ensure the accuracy and reliability of accounting results.

3

排放因子更新Update of emission factors

随着生产工艺、燃料质量等因素的变化，排放因子也需要不断更新和完善，以确保核算结果的时效性。 With changes in production processes, fuel quality, and other factors, emission factors also need to be constantly updated and improved to ensure the timeliness of accounting results.

减排计划

Emission reduction plan

减排计划

Emission reduction plan

公司积极响应《巴黎协定》为全球应对气候变化做出的安排，将全球平均气温升幅控制在1.5℃以下，我们做出了如下减排计划：

Company actively responds to the arrangements made by the Paris Agreement for global climate change response, controlling the global average temperature rise below 1.5 ℃. We have made the following emission reduction plans

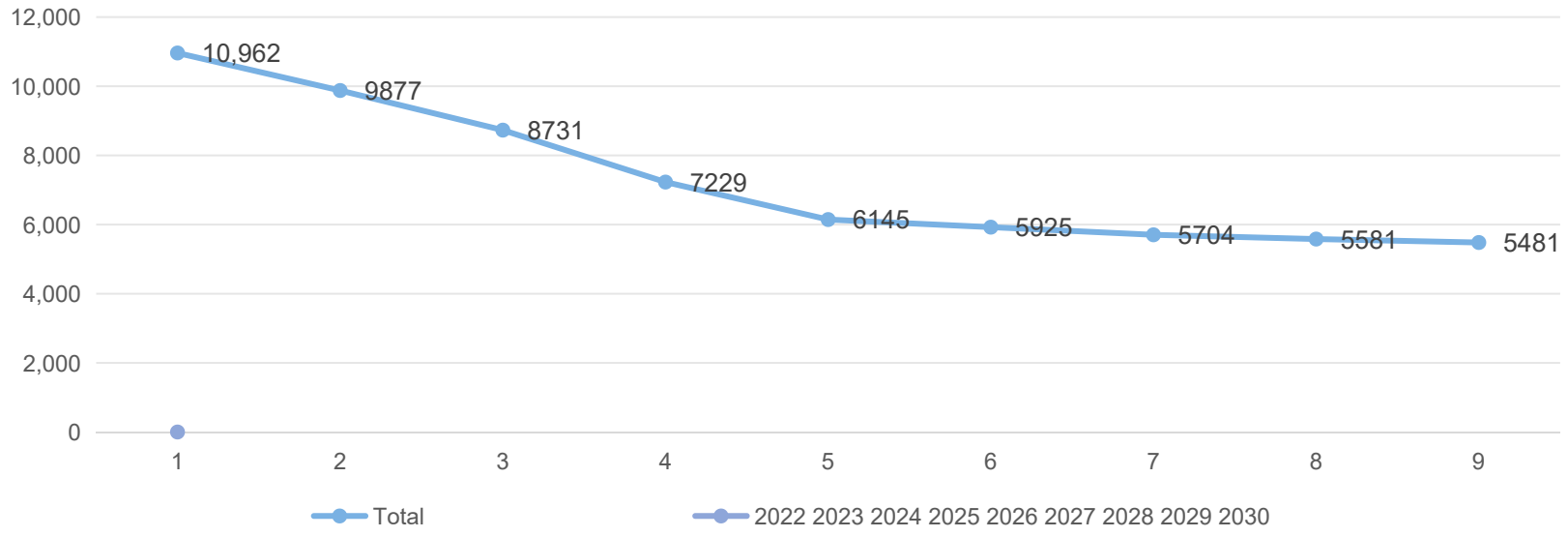
Till Y2030 total -50% V.s. Y2022

-50%

减排计划

Emission reduction plan

	2022	2023	2024	2025	2026	2027	2028	2029	2030
Scope 1	10	9.2	8.4	7.7	7.1	6.5	6	5.5	5
Scope 2	10,952	9867.8	8722.6	7221.3	6137.9	5918.5	5698	5575.5	5476
Total	10,962	9877	8731	7229	6145	5925	5704	5581	5481
									-50%



减排计划

Emission reduction plan

减排类型 Emission reduction type	减排方针 Emission reduction policy	减排项目	减排指标	2022(基准年) 2022(Base year)	2030目标 2030 target	reduce % 2030 vs 2022
气候中性 Climate neutral	发展绿色制造、合理利用能源资源 Develop green manufacturing and rationally use energy resources	温室气体与能源管理 Greenhouse gases and Energy management	碳排放总量（范围1-柴油）（tCO2e) C02 emission （Scope 1-Diesel（tCO2e)	10	5	-50%
			碳排放总量（范围1-生活废水）（tCO2e) C02 emission （Scope 1-sanitary wastewater(tCO2e)	12	6	-50%
			碳排放总量（范围2）（tCO2e) CO2 emission Scope 2	10,940	5470	-50%
环境保护 environmental protection	减少资源消耗、倡导循环利用、“三废”达标排放 Reduce resource consumption, promote recycling, and "three wastes" emission standards	水资源管理 water resource management	人均生活用水量（m³/人) water usage (m3/person)	61.04	30.52	-50%
		废气管理 Waste gas management	臭气排放强度（kg/t) Odor emission intensity	0.84	0.588	-30%
			非甲烷总烃排放强度（kg/t） Total non-methane hydrocarbon emission intensity	0.56	0.392	-30%
		废弃物管理 waste management	一般固废排放强度（kg/t) General solid waste emission intensity	6.6	3.3	-50%
			危险废弃物排放强度（kg/t) Hazardous waste discharge intensity	4.2	2.1	-50%

到2023年环境目标和行动计划

Environmental objective& Action plan

废气排放

Exhaust emissions

Non-methane hydrocarbon emissions	Odour emissions	CO2 emissions
-30%	-30%	-5,481T

处理后废气排放

符合非甲烷总烃排放浓度符合《合成树脂工业污染物排放标准》（GB31572-2015）要求，臭气浓度符合《恶臭污染物排放标准》（GB14554-93）要求；

Exhaust emission treatment meets the requirements of the total non-methane hydrocarbon emission concentration in line with the "Synthetic resin Industry Pollutant Emission Standard" (GB31572-2015), and the odor concentration in line with the "odor pollutant emission Standard" (GB14554-93);

绿色运输

减少传统能源车的使用，减少尾气排放，不断优化运输方式，倡导使用新能源、清洁能源车，实施绿色物流，倡导绿色出行，减少碳排放

Green transportation

reduce traspotaion by traditional vehicle, optimize transportation modes, use of new energy and clean mobility vehicles

环境目标和行动计划

Environmental objective& Action plan

节能降耗绿色发展

Energy conservation, green development

Electricity save

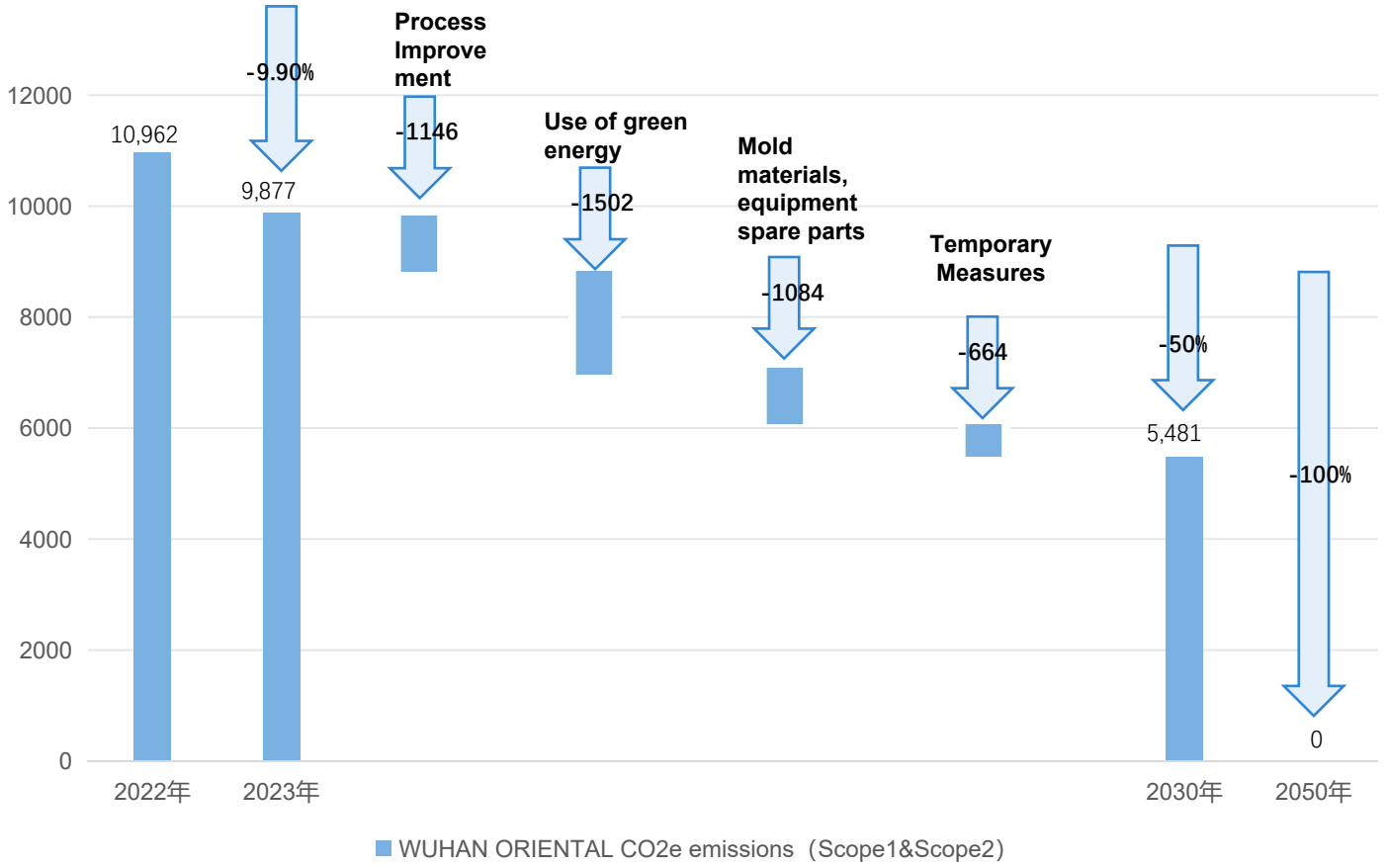
3150 MWH

为了顺利实现2030年前碳达峰目标，武汉东方时代积极行动，在苏州新工厂拟建容量为2860KW的光伏项目，建筑屋顶总面积:27180m2,光伏安装面积:16500m2,年均发电量约为315万度电。

In order to successfully achieve the carbon peak target before 2030, Wuhan Oriental Times actively takes action and plans to build a photovoltaic project with a capacity of 2860KW in a new factory in Suzhou. The total roof area of the building is 27180m2, the photovoltaic installation area is 16500m2, and the average annual power generation is about 3.15 million kilowatt hours.

二氧化碳路线图

CO2 roadmap asap



谢谢！

Thank you!