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2022 環境、社會及管治報告

Environmental, Social and Governance Report

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COMPANY PROFILE

東方電氣股份有限公司(以下簡稱東方電氣),總部位於四川省成都市,是中國東方電氣集團 有限公司控股特大型企業。東方電氣秉承"求實、創新、人和、圖強"的企業精神, 歷經 60 余 年的發展,已成為全球重要的高端能源裝備研究開發製造商和工程承包特大型企業之一。分別 在上海證券交易所(代碼 600875)和香港聯交所(代碼 1072)上市。

Dongfang Electric Co., Ltd. (hereinafter referred to as DEC), headquartered in Chengdu, Sichuan Province, is a large-scale enterprise held by Dongfang Electric Corporation. After more than 60 years of development, DEC, following the enterprise spirit of "Pragmatism, Creation, Cohesion, and Aspiration", has become one of the world's manufacturers engaged in R&D of high-end energy equipment and one of the ultra-large project contractors. Now it is listed on the Shanghai Stock Exchange (Stock Code: 600875) and the Stock Exchange of Hong Kong (Stock Code: 1072).

東方電氣擁有東方電機、東方汽輪機、東方鍋爐、東方風電、東方重機、東方自控、東方武核、 東方國際、東方印度等企業,分佈在中國四川、廣東、天津、浙江、湖北等省市自治區和印度 西孟邦、印尼雅加達。截至 2022 年底,東方電氣累計生產發電設備已超過 6.6 億千瓦。 目前,東方電氣的產品和服務已出口到美國、加拿大、印度、巴基斯坦、越南、印度尼西亞、沙特、

波黑、瑞典、巴西等近 80 個國家和地區。

DEC owns DEC Machinery, DEC Turbine, DEC Boiler, DEC Wind, DEC Heavy Machinery, Dongfang Electric Autocontrol Engineering, Dongfang Electric (Wuhan) Nuclear Equipment, DEC International, Dongfang Electric (India) Private Limited and other enterprises, which are distributed in China's Sichuan, Guangdong, Tianjin, Zhejiang, Hubei and other provinces and autonomous regions as well as West Bengal in India and Jakarta in Indonesia. As of the end of 2022, the capacity of electric power generators produced by DEC has exceeded 660GW. To date, the DEC products and services have been exported to nearly 80 countries and regions, including USA, Canada, India, Pakistan, Vietnam, Indonesia, Saudi Arabia, Bosnia-Herzegovina, Sweden, and Brazil.

東方電氣作為國家重大技術裝備國產化基地、國家級企業技術中心,擁有中國能源裝備製造行業中一流的綜合技 術開發能力。通過自主開發、產學研合作,形成了一批擁有自主知識產權的重大技術裝備產品,具備了大型水電、 煤電、核電、氣電、風電及太陽能發電設備的開發、設計、製造、銷售、設備供應及電站工程總承包能力。可批 量研製 1000MW 等級水輪發電機組、1350MW 等級超超臨界火電機組、1000MW-1750MW 等級核電機組、重型 燃氣輪機設備、直驅、半直驅和雙饋全系列風力發電機組、高效太陽能電站設備、氫能客車、大型環保及水處理 設備、電力电子與控制系統、新能源電池及儲能系統、智能裝備等產品。

As a national strategic base for heavy-duty machinery and equipment, as well as a National Corporate Technology Center. DEC boasts the best comprehensive technology R&D capability among Chinese manufacturers in energy equipment. Through independent development and industry-academia-research cooperation, DEC now owns a quantity of heavy-duty machinery and equipment with proprietary intellectual property rights. DEC has the ability to develop, design, manufacture, sell, supply large-scale wind power, solar power, hydropower, thermal power, nuclear power, gas power, coal powerd devices gas power, wind power and solar power generators and undertake general contracting of power station projects. The Company is also able to develop, in batches, 1,000MW (and other capacities) hydro turbines, 1,350MW (and other capacities) ultra-supercritical thermoelectric generators, 1,000MW-1,750MW nuclear power units, heavy-duty gas turbines, a whole series of direct-driven, semi-direct-driven, and double-fed wind turbines, highly-efficient solar energy equipment, hydrogen-powered bus, large-scale environmental conservation and water treatment equipment, electric & electronic automatic control systems, new energy batteries and energy storage systems, intelligent equipment, etc.

展望未來,東方電氣將积極踐行"綠色動力驅動未來"的使命,建設具有全球競爭力的世界一流企業,以綠色 動力驅動中國和世界經濟發展。

Looking ahead, DEC will actively implement the mission of "Shape the Future with Green Power", build a world-class enterprise with global competitiveness, and drive the economic development of China and the world with green power.

ふまやち

組織架構 **ORGANIZATION CHART**



	東方電氣"同創"文 Cohesion・Innovati	
(\$) (使命 Mission 綠色動力 驅動未來 Shape the Future with Green Power	管理理念 Management philos 科學規範 精益高效 Scientific, Standard, Lean, Efficient
٢ ج	安全理念 Security principles 安全第一生命至上 Safety First, Life Supreme	核心價值觀 Core Values 共創價值 共享成功 Value Co-creation for Shared Prosperity
522	企業精神	
	Spirit 求實創新人和圖強 Pragmatism, Creation, Cohe 業格局	
產 INI	Spirit 求實 創新 人和 圖強 Pragmatism, Creation, Cohe	ERN
產 INI	Spirit 求實創新人和圖強 Pragmatism, Creation, Cohe 業格局 DUSTRIAL PATT	ERN Six Kinds of Electricity
產 INI	Spirit 求實 創新 人和 圖強 Pragmatism, Creation, Cohe 業格局 DUSTRIAL PATT A電並舉 ultaneous Development of S	ERN Six Kinds of Electricity



願景 Vision

世界的東方 一流的電氣 Rise to be a Global Electric Powerhouse



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廉潔理念 Integrity principles

同心守正 廉潔致遠 Integrity in Unity, Honesty Lasts Long

經營理念 Business philosophy

質量立企 科技強企 品牌鑄企 誠信樹企 Quality, Technology, Branding, Integrity



人才理念

Talent principles 尚德立品 敏行銳進 Virtues. Moralities. Action. Determination

服務理念 Service principles

24 小時服務精神 24-hour Service Spirit

六業協同 **Coordinated Development of Six Industries**

01

高端石化裝備產業 high-end petrochemical equipment industry

03

工程與國際貿易產業 engineering and international trade industry

05

電力电子與控制產業 power electronics and control industry

02

節能環保產業 energy conservation and environmental protection industry

04

現代製造服務業 modern manufacturing service industry

06

新興產業 and emerging industry

關於本報告 **ABOUT THE REPORT**



報告簡介 INTRODUCTION TO THE REPORT

《東方電氣股份有限公司環境、社會及管 治報告(2022)》是東方電氣股份有限公 司自2017年以來發布的第7份環境、社 會及管治報告。

The Environmental, Social and Governance Report (2022) of Dongfang Electric Co., Ltd. is the 7th Environmental, Social and Governance Report released by Dongfang Electric Co., Ltd. since 2017.

報告範圍 **REPORTING SCOPE**

報告披露範圍涵蓋東方電氣股份有限公司 及其下屬企業。報告披露的時間范 圍為2022年1月1日至2022年12月 31 日,部分信息內容追溯了必要的歷史數 據。所有數據均來自東方電氣股份有限公 司內部統計及對外文件。

The report covers Dongfang Electric Co., Ltd. and its subsidiaries. The report covers the period from January 1, 2022 to December 31, 2022. Part of the content is beyond the above time range. All data are from internal statistics and external documents of Dongfang Electric Co., Ltd.,

若非特別說明,財務數據均以人民幣為計 量單位。

Unless otherwise stated, financial data are denominated in renminbi.

指代說明 DESIGNATION

為便於表述和閱讀, "東方電氣股份有限公司"在報告中 簡稱"東方電氣""公司""我們"等。此外,報告內所 提及子企業、子公司指代說明如下:

For ease of expression and reading, "Dongfang Electric Co., Ltd." is referred to as "DEC", "the Company", "We", etc. In addition, the subsidiaries and branches mentioned in the report are described as follows:

• "東方電機"指代東方電氣集團東方電機有限公司

"DEC Machinery" refers to Dongfang Electric Machinery Co., Ltd. of Dongfang Electric Corporation.

• "東方汽輪機"指代東方電氣集團東方汽輪機有限公司

"DEC Turbine" refers to Dongfang Turbine Co., Ltd. of Dongfang Electric Corporation.

● "東方鍋爐"指代東方電氣集團東方鍋爐股份有限公司

"DEC Boiler" refers to Dongfang Boiler Co., Ltd. of Dongfang Electric Corporation.

• "東方風電"指代東方電氣風電股份有限公司

"DEC Wind" refers to Dongfang Electric Wind Power Co., Ltd.

• "東方國際"指代東方電氣集團國際合作有限公司

"DEC International" refers to Dongfang Electric International Corporation.

"東方重機"指代東方電氣(廣州)重型機器有限公司

"DEC Heavy Machinery" refers to Dongfang (Guangzhou) Heavy Machinery Co., Ltd.

• "東方氫能"指代東方電氣(成都)氫燃料電池科技有限 公司

"DEC Hydrogen Energy" refers to Dongfang Electric (Chengdu) Hydrogen Fuel Cell Technology Co., Ltd

發布周期 **REPORTING CYCLE**

本報告按年度發布,上一份報告發布時間為2022年5月。 This is an annual report, with the last report published in May 2022.

編製依據 **PREPARATION BASIS**

本報告編製遵循香港聯交所《上市規則與指引》所刊《主板上市規則》之附錄"二十七環境、社會及管治報告指 引"(自 2022 年 01 月 01 日 起生效版本)。

The report is prepared in accordance with Appendix 27 "Guidelines on Environmental, Social and Governance Reporting" to the Main Board Listing Rules published in the Listing Rules and Guidance of the Stock Exchange of Hong Kong (SEHK) (with effect from January 1, 2022).

可靠性保證 **RELIABILITY ASSURANCE**

東方電氣董事會及全體董事保證本報告內容不存在任何虛假記載、誤導性陳述或重大遺漏,並對其內容的真實性、 準確性和完整性承擔個別及連帶責任。

The Board of Directors and all directors of Dongfang Electric Co., Ltd. guarantee that there is no fictitious record, misleading statement, or material omission in the report, and assume individual and joint liability for the authenticity, accuracy and completeness of the contents.

報告版本 REPORT VERSION

本報告以电子版本進行發布。若您需獲取報告,可以在東方電氣官方網站、上海證券交易所或香港聯交所指定平台下載。 The report is published in electronic form. If you need the report, you can download it from the official website of Dongfang

Electric Co., Ltd., Shanghai Stock Exchange, or SEHK.

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新跨越 向未来 **NEW LEAP INTO THE FUTURE**

征途漫漫,惟有奮鬥礪初心。在非凡的 2022 年,東方電氣視使命如炬、視責任如山,聚焦"雙碳"目標,以"開 局即決戰,起步即衝刺"狀態全力以赴謀增長、促轉型、控風險、強黨建,克服疫情、高溫、限電等多重不利影 響,踔厲奮發、勇毅前行,全力服務構建新型能源體系,有力推動生產經營持續向好。

指標 Indicator	單位 Unit	2020	2021	2022
營業總收入 Gross operating income	億元 RMB 100 million	372.83	478.19	553.53
利潤總額 Total profit	億元 RMB 100 million	20.67	26.67	33.25
凈利潤 Net profit	億元 RMB 100 million	19.16	24.29	30.10
總資產 Total assets	億元 RMB 100 million	977.95	1031.05	1152.65
每股收益 Earnings per share	元 / 股 Yuan/share	0.6	0.73	0.92



Only hard work demonstrates original aspiration during the long journey. In the extraordinary year of 2022, DEC fulfilled its CSR under the guidance of the vision. Focusing on the "carbon peak and carbon neutrality" goals, the Company went all outto seek growth, promote transformation, control risks, and strengthen party building, as well as overcome the multiple adverse effects of the pandemic, high temperature and power rationing, fully serve the building of a new energy system, and effectively promoting the continuous improvement of production and operation.

指標 Indicator	單位 Unit	2020	2021	2022
完成發電設備產量 The output of power generation equipment	萬千瓦 10MW	2488.34	3649.89	3604.53
累积完成发电设备产量 Cumulative output of power generation equipment	萬千瓦 10MW	58911.45	62561.34	66165.87
研發投入 R&D input	億元 RMB 100 million	20.03	27.22	31.05
擁有有效專利數 Total number of patents in force	件 Patents	2690	3045	3336

2022年

擁有有效專利數较 2021 年增加 Total number of patents in force increases by 291 than that in



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踐行低碳 共創綠色未來 **Practice Low-Carbon Development** and Contribute to a Green Future

東方電氣一直將環境保護和綠色發展作為企業社會責任的重要內容, 並始終貫徹可持續發展的理念。我們堅信,發展與環境是密不可分的, 只有通過綠色發展才能實現企業的可持續發展。

DEC has always regarded environmental protection and green development as an important part of its corporate social responsibility (CSR), and implemented the concept of sustainable development. We firmly believe that development and environment are inseparable, and only through green development can we achieve sustainable development of the Company.



13 CLIMATE





DEC actively promotes the development of green products and services, improves the energy efficiency and environmental protection performance of products through technological innovation and support from partners, and provides customers with greener, smarter and more efficient solutions.

Dongfang Electric Co., Ltd. Environmental, Social and Governance (2022) Report

堅持綠色發展 **INSIST ON GREEN DEVELOPMENT**

本着"動力與溫暖同在、夢想與責任同行"的原則,東方電氣時刻不忘作為社會公民的責任與義務,擔負起可持 續的環境責任,服務國家戰略,投身於綠色低碳發展大局,積极參与生態文明建設。

Adhering to the philosophy of "incorporating warmth into impetus, and dreams into responsibilities", DEC always remembers its responsibilities and obligations as a social citizen, undertakes sustainable environmental responsibilities, serves the national strategy, commits itself to the overall green and low-carbon development, and actively participates in ecological conservation

守護環境安全 CONTRIBUTE TO ENVIRONMENTAL SECURITY

公司遵守國家環境保護法律法規與屬地環保部門的政策規定,下屬生產企業遵循相應的環境管理體系要求,動態 識別重要環境因素,建立重點污染源清單,完善風險控制措施,設立節約能源與生態環境保護工作領導小組,部

署、研究節約能源、牛熊環境保護方面的重大事項。

The Company complies with the national laws and regulations on environmental protection and local environmental protection policies and provisions. Its subordinate production enterprises comply with the corresponding environmental management system requirements, dynamically identify important environmental factors, establish a list of key pollution sources, improve risk control measures, and set up a leading group for energy conservation and ecological environmental protection to formulate and study major issues concerning energy conservation and ecological and environmental protection.

公司按照 ISO14001 環境管理體系編製了《環境、職業健康安全應急準備和響應程序》, 識別潛在事故或緊急情況, 將突發環境事件納入公司《生產安全事故綜合預案》,如發生突發環境事件,分級啟動公司應急準備和響應預案。

The Company has compiled the Environmental and Occupational Health and Safety Emergency Preparedness and Response Procedures in accordance with ISO14001 to identify potential accidents or emergencies, and incorporate environmental emergencies into its Comprehensive Plan for Work Safety Accidents. In case of environmental emergencies, the company's emergency preparedness and response plan will be launched according to the event classification.



服務雙碳戰略 SERVE CARBON PEAK AND CARBON NEUTRALITY GOALS

東方電氣制定了公司的《碳達峰碳中和行動 方案》,成立綠色環保工作領導小組、設立 碳達峰碳中和研究中心統籌協調綠色低碳發 展工作,快速制定政策舉措,有效落實能源 節約與生態環境保護企業主體責任。

We have formulated the Carbon Peak and Carbon Neutrality Action Plan and established a leading group for environmental protection and a carbon peak and carbon neutrality research center to make overall plans and coordinate the green and low-carbon development work, and guickly formulate policies and measures to effectively carry out the main corporate responsibility for energy conservation and ecological environmental protection.

培育綠色文化 **CULTIVATE GREEN CORPORATE CULTURE**

東方電氣以六五環境日、節能宣傳周及全國低碳日等主題活動為契機,廣泛開展綠色低碳宣傳教育,利用企業內 網及微信、視頻平台等多種媒介、多種形式開展線上線下宣傳活動,积極倡導簡約適度、綠色低碳、文明健康的 綠色生產生活方式,培育公司綠色文化。

DEC takes the opportunity of themed activities such as the World Environment Day (June 5), Energy Conservation Publicity Week and National Low Carbon Day to extensively carry out green and low carbon publicity and education, and conduct online and offline publicity activities in various forms through various media such as Intranet, WeChat and video platform. It also actively advocates simple, moderate, green, low-carbon, civilized and healthy green production and life style and cultivates the green culture across the Company.



碳達峰碳中和工作領導小組 Leading Group for Carbon Peak and Carbon Neutrality:

組織制定發布並適時修訂東方電氣碳達峰碳中和行動方案,

統籌開展碳管理工作

Organize the formulation, release and timely revision of Dongfang Electric carbon peak carbon neutral action plan, and coordinate the carbon management work

東方雷氣碳達峰碳中和研究中心。 Carbon Peak and Carbon Neutrality Research Center:

提升"雙碳"專業研究能力,為企業綠色低碳發展提供強有 力保障

Enhance the professional research ability of "carbon peak and carbon neutrality", to provide a strong guarantee for the green and low-carbon development of the Company.

綠色文化宣傳 Green culture promotion

踐諾綠色環保 **PRACTICE GREEN ENVIRONMENTAL** PROTECTION

東方電氣堅持可持續發展理念,確保在尊重自

然、遵循規律、保護環境的前提下實現經濟的 可持續發展。

DEC adheres to the concept of sustainable development to achieve the sound and sustainable economic development of enterprises under the premise of respecting nature, following the law and protecting the environment.

2022年,公司環保總投入為

5968 萬元 In 2022, the Company allocated RMB 59.68 million to environmental protection.



完善污染防治 IMPROVE POLLUTION PREVENTION AND CONTROL

東方電氣按照國家生態環境部印發的《重污染天氣重點行業應急減排措施制定技術指南(2020版)》和企業環 保績效分級管控的有關要求,組織製造企業開展環保績效對標及提標升級。

DEC has organized manufacturing enterprises to improve their environmental performance in accordance with the Technical Guidelines for Formulating Emergency Emission Reduction Measures for Key Industries in Heavily Polluted Weather (2020 Edition) issued by the Ministry of Ecology and Environment of China and the relevant requirements of hierarchical management and control of enterprise environmental performance.

2022 年,公司一般及以上環境事件發生數為 0,能源節約與生態環境保護重大違法違規事件發生數為 0,未發生 被環境保護主管部門處罰的情況。

In 2022, the number of general or above environmental events of the Company was 0, the number of major violations of energy conservation and ecological environmental protection was 0, and no penalty was imposed by the competent environmental protection department.



2022年,公司開展環保工作管理:

降低污染排放 **REDUCE POLLUTION EMISSION**

公司嚴格遵守《中華人民共和國環境保護法》《大氣污染 防治法》《水污染防治法》等法律法規,积極開展污染物 防治工作。

The Company strictly abides by the Environmental Protection Law of the People's Republic of China, the Atmospheric Pollution Prevention and Control Law, the Water Pollution Prevention and Control Law and other laws and regulations, and actively carries out pollution prevention and control work.

In 2022, the Company carried out environmental protection management:

全面梳理可減量或可替代的有毒有害原輔材料,制定減量、替代實施行動計劃

comprehensively review the toxic and hazardous raw and auxiliary materials that can be reduced or replaced, and formulate an action plan for implementing such reduction and

以揮發性有機物排放治理、焊接煙塵排放治理、地下污水管網隱患整治、敏感噪聲治

focus on the control of VOCs and welding fume emission, hidden danger remediation of underground sewage pipe network, noise abatement, and storage and treatment of

將能耗強度和碳排放強度指標作為重點納入所屬企業經營業績考核

integrate energy consumption intensity and carbon emission intensity indicators as the focus into the business performance evaluation of relevant enterprises.

強化對所屬企業過程監督及問效問責;將能源節約與生態環境保護責任未落實、履職

不力以及發生突發環境污染事件等情形納入責任追究事項

strengthen the process supervision and accountability of relevant enterprise; include such circumstances as failure to fulfill the responsibility for energy conservation and ecological environmental protection, failure to perform one's duties and the occurrence of sudden environmental pollution incidents into the accountability matters.

> 2022年,公司各類污染物排放均達標, 萬元產值溫室氣體排放量較上年下降

96%

In 2022, the company's discharge of various pollutants was up to the standards, and its greenhouse gas emissions per RMB 10,000 of operating income decreased by 1.96% compared with the previous year.

2020-2022 年東方電氣排放物管理績效

DEC Emissions Management Performance From 2020 to 2022

溫室氣體排放情況

Greenhouse Gas Emissions

指標 Indicator	單位 Unit	2020年	2021 年	2022 年	與 2021 年同期比較增減(%) Increase or decrease compared with 2021 (%)
溫室氣體排放密度 GHG emission density	噸 / 萬元 ton/RMB 10,000	0.068	0.051	0.050	-1.96

廢氣排放量

Waste gases

指標 Indicator	單位 Unit	2020 年	2021年	2022 年	與 2021 年同期比較增減(%) Increase or decrease compared with 2021 (%)
二氧化硫排放密度 Sulfur dioxide emission density	噸 / 萬元 ton/RMB 10,000	0.00005	0.00004	0.00003	-25
氮氧化物排放密度 Nitrogen oxide emission density	噸 / 萬元 ton/RMB 10,000	0.00009	0.00006	0.00005	-16.7

廢水排放量

Discharge of Waste water

指標 Indicator	單位 Unit	2020年	2021年	2022 年	與 2021 年同期比較增減(%) Increase or decrease compared with 2021 (%)
氨氮 Ammonia nitrogen	噸 ton	83.5	76.1	67.5	-11.3
氨氮排放密度 Ammonia nitrogen discharge density	噸 / 萬元 ton/RMB 10,000	0.00002	0.00002	0.00001	-50
COD 排放量 COD discharge	噸 ton	367.0	295.0	288.5	-2.2
COD 排放密度 COD discharge density	噸 / 萬元 ton/RMB 10,000	0.00010	0.00006	0.00005	-16.7
廢水排放量 Discharge of Waste water	萬噸 10,000 tons	153.9	143.7	125.2	-12.87
廢水排放密度 Waste water discharge density	噸 / 萬元 ton/RMB 10,000	0.4128	0.3005	0.2262	-24.73



Solid waste

指標 Indicator	單位 Unit	2020 年	2021年	2022 年	与 2021 年同期比较增减(%) Increase or decrease compared with 2021 (%)
危險廢棄物 Hazardous wastes	噸 ton	2826	2329	1699	-27.00
危險廢棄物排放密度 Hazardous wastes emission density	噸 / 萬元 ton/RMB 10,000	0.0007	0.0004	0.0003	-25.00
無害廢棄物 Non-hazardous wastes	噸 ton	35800	26773	22168	-17.20
無害廢棄物排放密度 Non-hazardous wastes emission intensity	噸 / 萬元 ton/RMB 10,000	0.0072	0.0051	0.0040	-21.57
回收廢棄物 Recyclable wastes	噸 ton	29000	24423	20076	-17.80



東方電機在移動機器人焊接焊槍槍頭增設煙塵收集裝置

DEC Machinery adds a fume collection device in the head of the mobile robot welding torch,

虔置 e head of the 在不影響焊接工藝保護氣體 的同時實現

90%

以上的煙塵收集

which can collect more than 90% of the fume without affecting the shielding gas for welding process.

奉行綠色運營 PURSUE GREEN OPERATION

東方電氣以"綠色動力、驅動未來"為己任,以建設綠色車間、綠色工廠為目標,開展行業對標,全面梳理能耗、 資源綜合利用等評價標準,制定東方電氣綠色車間評價標準,提高公司能源管理水平。2022年,以高標準創建

綠色示範車間 9 個,綠色運營卓有成效。

Dongfang Electric takes "green power, driving the future" as its own responsibility, and aims to build green workshops and green factories. It carries out industrial benchmarking, comprehensively combs evaluation criteria such as energy consumption and comprehensive utilization of resources, establishes evaluation criteria for green workshops and improves the company's energy management level. In 2022, nine green demonstration workshops were established with high standards, delivering fruitful green operation.



綠色車間、綠色工廠建設 Green workshop and green factory construction

加強能耗管理 STRENGTHEN ENERGY CONSUMPTION MANAGEMENT

東方電氣嚴格執行《節約能源法》《重點用能單位節能管理辦法》《地下水管理條例》等法律法規要求。公司以 能源管理體系建設為核心,強化能源使用動態識別及措施管控,加大對重點單位的能耗管理力度,從分析評價、 計量管理、現場監督三環節,把能源管理體系建設要求貫穿落實到公司及下屬企業生產的全部流程。2022年, 公司綜合能耗、單位能耗總體受控。

DEC strictly implements the requirements of laws and regulations such as Energy Conservation Law, Measures for Administration of Energy Conservation in Respect of Key Energy-Using Entities and Regulations on Groundwater Management. The Company takes the establishment of energy management system as the core, strengthens the dynamic identification of energy use and measures control, increases the energy consumption management of key units, and implements the establishment requirements of energy management system during the whole process of the production of the Company and its subordinate enterprises from the three links of analysis and evaluation, measurement management and on-site supervision. In 2022, the company's comprehensive energy consumption and unit energy consumption were under control on the whole



能源體系建設三大環節:

落實節能降耗 IMPLEMENT ENERGY CONSERVATION AND CONSUMPTION REDUCTION

東方電氣大力發展低碳零碳能源裝備產業,以綠色供給助力國家新型能源體系,2022年度生產的低碳、零碳產

品每年減碳約 3117 萬噸, 折節約標煤 1199 萬噸。

DEC vigorously developed the low-carbon and zero-carbon energy equipment industry and supported the new national energy system with green supply. In 2022, the low-carbon and zero-carbon products the Company produced reduced carbon emissions by about 31.17 million tons per year, which is equivalent to saving 11.99 million tons of standard coal.

公司持續提升生產製造数字化水平,2022年,公司萬元產值綜合能耗較上年顯著下降 22.73%。

The Company continuously improves the digital level of production and manufacturing. In 2022, the company's comprehensive energy consumption per RMB 10,000 of operating income decreased significantly by 22.73% compared with the previous year

Strictly implement three major links in establishing an energy system:

對重點用能單位開展能源消耗和能源利用狀況分析評價,編製能源利用狀況分析報

Energy consumption and energy utilization in key energy-using units are analyzed and evaluated. Analysis reports on energy utilization, self-inspection reports on energy conservation and self-inspection reports on water conservation are prepared and improved

加強重點用能設備及能源計量設施管理,進一步規範能耗數據監測、計量、統計等

The management of key energy-using equipment and energy metering facilities are strengthened, to further standardize basic work such as energy consumption data

加強能源巡查巡檢,結合現場精益化管理工作,進一步加大對跑、冒、滴、漏等現

Efforts are made to strengthen energy inspection, and combined with the on-site lean management work, further strengthen the control of evaporating, emitting, dripping or

2020-2022 年東方電氣能耗管理績效

Energy Consumption Management Performance of DEC in 2020-2022

資源消耗情況

Resource consumption

指標 Indicator	單位 Unit	2020 年	2021 年	2022 年	與 2021 年同期比較增減(%) Increase or decrease compared with 2021 (%)
萬元產值綜合能耗 Comprehensive energy consumption per RMB 10,000 of operating income	噸標準煤 / 萬元 tce/RMB 10,000	0.028	0.022	0.017	-22.73
電力 Electricity	萬千瓦時 10,000 kWh	32783	31802	32350	1.72
天然氣 Natural gas	萬立方米 10,000 m ³	3809	3771	3805	0.90
柴油 Diesel	噸 ton	741.6	690.8	590.5	-14.52
水資源消耗 Water consumption	萬噸 10,000 tons	370	369	340	-7.86
萬元產值水資源消耗 Water resources consumption per RMB 10,000 of operating income	噸 / 萬元 ton/RMB 10,000	0.993	0.758	0.614	-19

包裝材料使用情況

Use of packaging materials

指標 Indicator	單位 Unit	2020 年	2021 年	2022 年	與 2021 年同期比較增減(%)) Increase or decrease compared with 2021 (%)
包裝材料消耗 Consumption of packaging materials	噸 ton	13507	15150	15064	-0.57
包裝材料消耗密度 Consumption intensity of packaging materials	噸 / 萬元 ton/RMB 10,000	0.0041	0.0032	0.0027	-15.63
木箱 Wooden box	噸 ton	8182	9687	7745	-20.05
紙箱 Carton	噸 ton	126	80	51	-36.25
塑料 Plastic	噸 ton	158	175	144	-17.71
槽鋼 Steel channel	噸 ton	4527	4754	6810	43.25
其他材料 Other materials	噸 ton	514	454	314	-30.84



東方汽輪機深度應用先進数字技術,建成國內首個葉片加工無人車間及首條黑燈產線,設備利用率達 90%,能 源利用率提升 47%。

DEC Turbine deeply applies advanced digital technology, and has built the first unattended blade processing workshop and the first dark production line in China, with the equipment utilization rate reaching 90% and the energy utilization rate increasing by 47%.

案例 Exhibit 東方電氣開展在役機組節能改造 DEC carries out energy-saving renovation of in-service units

東方電氣積極響應"雙碳"戰略,全面落實《全國煤電機組改造升級實施方案》要求,先後完成了華電鄒 縣等一系列改造。

DEC has actively responded to the "carbon peak and carbon neutrality" strategy and fully implemented the requirements of the Implementation Plan of National Coal-fired Power Generating Unit Renovation and Upgrading. It has successively completed a series of renovation projects, such as the renovation project in China Huadian Zouxian County.

利用第四代通流、補汽閥和筒 形缸等先進技術,改造后的華 電鄒縣7號、8號兩台機煤耗 均下降 15g/kwh, 按年利用 5000 小時計算,兩台機年節 約燃煤大於 82700 噸, CO2 減排超過 20 萬噸, 樹立了改 造市場新標杆。



Using the fourth generation of advanced technologies such as venting valve, gulp valve and cylinder, the coal consumption of Huadian Zouxian County #7 units after renovation is reduced by 15g/kWh. Based on the annual utilization of 5,000 hours, the annual saving of the two units is more than 82,700 tons of coal, and the CO₂ emission reduction is more than 200,000 tons, which sets a new benchmark for the transformation market.

以人為本 共繪美好生活 **Put People First to draw a Better Life Together**

東方電氣堅持以人為本的發展理念,致力於與員工、夥伴、社區構建良好和諧的關係。 重視員工健康和工作平衡,努力打造幸福和諧的職場氛圍,攜手合作夥伴一起,共 建同創共享的發展模式,積极參与慈善公益事業,推動企業發展與社會進步同向而行。

DEC adheres to the philosophy of people-oriented development and is committed to building a good and harmonious relationship with employees, partners and communities. We attach importance to balancing employees' health and work, strive to create a happy and harmonious workplace atmosphere, work together with partners to build a development model of co-creation and sharing, actively participate in charity and public welfare undertakings, and promote the development of enterprises and social progress in the same direction.



打造幸福職場 **CREATE A HAPPY WORKPLACE**

東方電氣堅持人才是第一資源,始終將促進自身發展與增進員工福祉相融合,高度重視員工權益保障,關心關愛 員工成長,全力守護員工安全健康,為員工打造和諧融洽、健康幸福的職場氛圍。

DEC insists that talent is the first resource, and always integrates its own development with the improvement of employees' well-being. It attaches great importance to the protection of employees' rights and interests, cares about the growth of employees and strives to protect the safety and health of employees, so as to create a harmonious, sound and happy workplace atmosphere for employees.

截至2022年底,公司在崗員工

By the end of 2022, the Company had 17,463 employees

外籍員工 27 overseas employees

保障員工權益 **PROTECT EMPLOYEES' RIGHTS AND INTERESTS**

東方電氣遵守屬地勞動法律、法規,依法保障員工的合法權益不受侵犯。報告期內,公司及旗下所屬企業未出現 任何強迫或強制勞動等有違法律、法規及職業道德的現象。

DEC complies with local labor laws and regulations, and protects employees' legitimate rights and interests from infringement according to the law. During the reporting period, the Company and its affiliated enterprises did not have any forced or compulsory labor and others in violations of laws, regulations and professional ethics.

員工構成 **STAFF COMPOSITION**

2020—2022 年東方電氣員工構成情況

Staff Composition of DEC From 2020 to 2022



女性職工人數 (單位:人) Number of female employees(Unit: person)





2020 2021 2022





2022年公司離職 189人,離職率為 1.1%,其中男性 156人,女性 33人。 In 2022, 189 personnel left their office in the company, with the dimission rate of 1.1%, including 156 males and 33 females.



民主管理 DEMOCRATIC MANAGEMENT

東方電氣切實保障員工的民主權利,充分發揮民主管理积極作用 不斷拓寬員工表達建議的渠道,鼓勵員工為公司發展獻言獻策。 2022年,公司积極開展職工代表大會、座談會、國企開放日等活 動,充分保障員工知情權、參与權、表達權,不斷提高企業民主 管理水平。

DEC earnestly protects the democratic rights of employees, gives full play to the positive role of democratic m anagement, constantly expands the channels for employees to express their suggestions, and encourages them to offer suggestions for the development of the Company. In 2022, the Company actively carried out activities such as meetings of employee representatives, discussions, SOE Open Day and meeting of democratic life to fully protect employees' rights to know, participate and express, and constantly improve the level of its democratic management.





東方電機組織員工家屬参觀園區 DEC Machinery organizes family members of employees to visit the park.



東方汽輪機開展國企開放日活動 DEC Turbine carries out SOE Open Day activity.

平等雇傭 EQUITY OF EMPLOYMENT

公司嚴格遵守《勞動法》《勞動合同法》等各項法律法規,堅持平等雇 傭,杜絕任何形式的就業歧視,不斷加強本地化用工管理,禁止雇傭童工 與其他強制性勞動,尊重員工隱私權,依法保障每一位員工的合法權益。 2022年,未發生任何用工歧視和雇傭童工現象。

The Company strictly abides by the Labor Law, the Labor Contract Law and other laws and regulations. It adheres to equity of employment, eliminates any form of employment discrimination, constantly strengthens local labor management, prohibits the employment of child labor and other types of forced labor, respects the privacy of employees, protects the legitimate rights and interests of every employee. There was no employment discrimination or child labor in the Company in 2022.

2022年,公司勞動合同簽 訂率為

100%

In 2022, 100% conclusion of employment contracts.

助力員工發展 SUPPORT EMPLOYEE DEVELOPMENT

暢通發展渠道 UNBLOCK DEVELOPMENT CHANNELS

東方電氣重視員工的培育與發展,不斷完善各類人才選拔培育機制,拓寬員工職業發展通道。

DEC attaches great importance to the cultivation and development of employees, and constantly improves various talent selection and cultivation mechanisms to broaden the career development channels of employees.

為強化創新人才引育,公司 2022 年制定實施了《科技創新人才培養工程方案》,完成技術序列總師職數設定, 全方位培養、引進、用好人才,加快構建具有競爭力的人才制度體系,激發人才活力潛力。

In order to strengthen the introduction and cultivation of innovative talents, the Company formulated and implemented the Scientific and Technological Innovative Talents Training Program in 2022, completed the setting of the number of chief engineers in technical sequence, trained, introduced and used talents in an all-round way, accelerated the establishment of a competitive talent system, and stimulated the vitality and potential of talents.

薪酬福利 **REMUNERATION AND WELFARE**

東方電氣堅持以價值創造為導向,不斷深化企業內部收入分配市場化改革,提升薪酬差異化水平;持續推進混改 企業員工持股,靈活開展多種方式的中長期激勵,逐步完善薪酬福利體系。2022年,公司全面推動企業董事會 考核分配職權落實落地。公司全力推行經理層成員任期制和契約化管理,實現全級次企業經理層成員任期制和契 約化管理全覆蓋,嚴格按照契約約定剛性兌現企業經理層成員年度薪酬。

Oriented by value creation, DEC continuously deepens the market-oriented reform of internal income distribution, and improves the differentiation level of salary. We continue to promote employee stock ownership in mixed-ownership enterprises, flexibly implement multiple medium- and long-term incentives, and gradually improve the remuneration and welfare system. In 2022, the Company fully promoted the implementation of the appraisal and assignment authority of the Board of Directors. It fully promoted the implementation of the tenure system of manager-level members and contractual management, with all manager-level members covered by the tenure system and contractual management, and strictly followed the contract clauses on the salary distribution of managers.



2022年,公司推行企業經理層任期 制和契約化管理,實現全公司

35 户子企業

131_名

經理層成員全部完成簽約

In 2022, the Company implemented the tenure system of enterprise managers and contractual management, with 131 management members of the company's 35 subsidiaries signing the contract.

879

開展校招人才儲備, 2022 年招錄畢業生

It reserved talents through campus recruitment and recruite 879 graduates in 2022

實現全級次企業經理層任

performance appraisal and sa management of the members of the board of directors and

開展員工培訓 **CARRY OUT EMPLOYEE TRAINING**

東方電氣着力推動六大人才工程落地窗施,积極開展各類培訓活動,促進員工活力釋放,實現員工與企業共同發展。

DEC strives to promote the implementation of the six talent projects, and actively carries out various training activities, promotes the release of employees' vitality, to pursue the common development of employees and enterprises.

2022年,

公司策劃專項集中培訓,完成各項培養工程,共選拔 1124 人進入首批人才庫;

聯合各大高校,組織開展高素質專業管理人才(含6個子項)、複合型國際化人才等 17項次培訓,777人參與。

In 2022, the Company planned special intensive training, completed various training projects, with a total of 1,124 people selected into the first batch of talent pool. Together with universities and colleges, we organized 17 training programs for high-quality professional management talents (including 6 sub-programmes) and inter-disciplinary international talents, with 777 participants.

員工培訓時長(按雇傭類型劃分)

Personnel's training hours(by type of employ)



員工培訓時長(小時 / 人)

67.51 69.05 69.32

2020 2021 2022

Personnel's training hours(Hour/person)

2022年按員工培訓比例(按雇傭類型劃分)



科技人員 Scientific personnel



經營管理人員 Operational manager









東方風電組織新員工入職拓展培訓 DEC Wind organizes orientation training for new employees.

舉辦青年職業技能大賽,營造創優爭先良好氛圍 案例 | Exhibit

The Youth vocational skills competition held to create a favorable atmosphere for excellence

2022 年 10 月 28 日,東方電氣第二屆青年職業技能大賽在東方汽輪機舉行,大賽為四川省級二類競賽。

On October 28, 2022, the second Youth Vocational Skills Contest of DEC was held in DEC Turbine, which is the second-class contest of Sichuan Province.

本次大賽設置鉗工、焊工、機床裝調維修工、工業機器人應用、三維建模、PPT 設計製作等 6 個競賽項目(工 種)。除了傳統競賽項目以外,此次大賽還增設工業機器人應用、三維建模等新興項目。大賽啟動以來, 通過層層選拔、優中選優,150 余名选手脫穎而出,亮相大賽決賽,參与同台競技。

This competition set six competitive events (types of work) including fitter, welder, machine tool installation and maintenance workers, industrial robot application, 3D modeling, and PPT design and production. In addition to the traditional events, new events such as industrial robot application and 3D modeling were also seen this time. Since the launch of the competition, more than 150 contestants have stood out and appeared in the final of the competition.



公司第二屆青年職業技能大賽成功舉辦 The second Youth Vocational Skills Contest of DEC is successfully held.



東方電氣舉辦高校畢業生入職典禮 DEC holds the induction ceremony for college graduates.





關心員工生活 **CARE ABOUT EMPLOYEES' LIFE**

工作生活平衡 WORK-LIFE BALANCE

東方電氣倡導員工工作與生活平衡共進,組織舉辦形式多樣、內容多樣的文娛體育活動,豐富員工業餘文化生活。 2022 年,組織開展"同·創"系列職工體育比賽、"三·八"婦女節系列活動,多渠道幫助員工緩解工作壓力, 提升員工幸福指數。

DEC advocates the balance between work and life of employees, and organizes various forms of cultural, recreational and sports activities with a variety of content to enrich employees' leisure cultural life. In 2022, the Company organized and carry out the "Cohesion & Creation" series of sports competitions for staff and workers, as well as International Women's Day series activities, to help employees relieve work pressure and improve their happiness quotient through multiple channels.



總部舉辦 "愛·東方更美麗" 手工 DIY 活動 "Love • More Beautiful DEC" DIY activity by the headquarters



東方汽輪機舉辦歌手大賽活動 A singer contest by DEC Turbine



東方電機組織開展三八節趣味接力活動 Women's Day fun relay activity by DEC Machinery



員工幫扶慰問 ASSISTANCE AND SYMPATHY FOR EMPLOYEES

東方電氣高度重視員工身心健康,积極改善員工工作環境和各項福利, 2022年,公司開展春節慰問會和夏季高

溫"送清涼"活動,讓員工切實體會公司關懷。

DEC attaches great importance to the physical and mental health of employees, and actively improves the working environment and various benefits for employees. In 2022, the Company staged all sorts of employee activities including care during the spring festival and summer care, to bring love and care to the employees.



為一線員工送去解暑飲料 The Company delivers drinks to front-line employees to relieve the summer heat.



組織開展"施工火熱、清涼在心"員工關愛活動 "Bustling Construction Site, Cool and Refreshing Feeling" employee care activity



"夏日送清涼" "Summer Care"

守護安全健康 **PROTECT SAFETY AND HEALTH**

關注員工健康 FOCUS ON EMPLOYEE HEALTH

東方電氣高度關注員工職業健康安全,始終把營造安全工作環境、 維護職工身心健康、為職工提供"普惠"服務作為重點工作內容, 定期組織開展員工職業安全健康培訓、心理健康諮詢等活動,持續 提升員工安全感和幸福度。

DEC attaches great importance to the occupational health and safety of employees. It always focuses on creating a safe working environment, maintaining the physical and mental health of employees, and providing "inclusive" services for employees, regularly organizes and carries out occupational safety and health training, mental health counseling and other activities to continuously improve the sense of security and happiness of employees.

2020-2022 年員工職業健康相關指標數據

Data of Indicators Related to Occupational Health of Employees From 2020 to 2022

指標 Indicator	單位 ^{unit}	2020	2021	2022
員工因工亡故人數 Number of employee work-related fatalities	人 person	1	0	0
員工體檢覆蓋率 Employee physical examination rate	%	100	100	100
員工職業病比率 Employee occupational disease ratio	%	0	0	0
特殊工種員工體檢覆蓋率 Physical examination rate of special employees	%	100	100	100



2022年, 員工體檢覆蓋率為

100%

In 2022, the medical examination coverage rate of employees was 100%.

案例 Exhibi 總部園區健康服務中心為職工身心健康保駕護航

The health service center of the headquarters park guarantees the physical and mental health of employees

公司积極回應職工群眾關切,推動總部園區健康服務中心項目建設運營,為職工身心健康保駕護航。 健康服務中心面向園區職工提供醫療保障與健康管理服務,包括職場診療、慢病干預、緊急救護、健康 管理等內容,為職工提供身體健康狀況諮詢,根據不適癥狀出具診療建議。健康服務中心的建成運營使 得職工群眾安全感大幅提升,獲得感持續增強,幸福感如期而至。

The Company actively responds to the concerns of employees, and promotes the construction and operation of the health service center project in the headquarters park, so as to guarantee the physical and mental health of employees. The health service center provides medical security and health management services for employees in the park, including workplace diagnosis and treatment, chronic disease intervention, emergency rescue, health management and others. It also provides health consulting for employees and provides diagnosis and treatment suggestions based on symptoms. The health service center has greatly improved the sense of security of employees, and thus continuously enhanced their sense of gain and happiness.



東方電氣總部園區健康服務中心 Health Service Center in DEC Headquarters Park



強化安全生產 STRENGTHEN WORK SAFETY

東方電氣不斷強化安全風險管理,积極開展隱患排查整治,組織 安全教育培訓活動,切實提升安全生產管理水平。公司通過了 ISO 45001 職業健康安全管理體系認證,依照國家有關安全生產法律、 法規及地方規章、行業標準要求等,有針對性地編製具有可操作性 的、保障安全生產的各崗位安全操作規程,並保證其有效實施。 2022年,公司全年無因工亡故事故、無重傷事故、無重大消防 事故、無重大環境事件發生。

DEC continues to strengthen safety risk management, actively carry out hidden danger investigation and rectification, and organize safety education and training activities, effectively improving the level of work safety management. The company's production unit has passed the ISO45001 occupational health and safety management system certification, and compiled the operable safe operation procedures for each post to ensure work safety in accordance with the relevant national work safety laws, regulations and local rules, industry standards and requirements, and guaranteed their effective implementation. In 2022, the Company had no work-related fatalities, no serious injury accidents, no major fire accidents and no major environment events.

2020-2022 安全生產相關指標數據

Data of Related Indicators of Work Safety From 2020 to 2022

指標 Indicator	單位 Unit	2020	2021	2022
開展安全消防演練的次數 Number of safety fire drills	次 drill	139	130	180
累計參与安全消防演練的人次 The total number of people participating in the fire drill	人次 man-time	1268	1359	1416
安全生產培訓人次 Number of employees in work safety training	人次 man-time	17306	137756	106795
較大安全生產事故數 Number of major work safety accidents	次 accident	0	0	0



東方電氣通過 GB/T45001-2020 idt ISO 45001:2018 職業健康安全管理認證

Dongfang Electric has passed the GB/T45001-2020 idt ISO45001:2018 Occupational Health and Safety Management certification

2022年,公司在安全生產方面的主要舉措有:

Company's key work safety measures in 2022 are as follows:

公司貫徹落實國務院安委會安全生產十五條硬 措施,總裁辦公會審議通過《安全生產專項整 治工作方案》,開展安全生產專項整治工作。

The Company has implemented the 15 hard measures of work safety issued by the production of the Work Safety Committee of the State Council, and carried out the special rectification work of work safety according to the Work Plan for the Special Rectification of Work Safety reviewed and approved by the President's executive meeting.

制定《安全生產管理規定》《安全生產責任制管理 規定》《安全生產責任追究管理規定》《安全生產 經驗反饋管理辦法》等制度,規範安全風險分級管 控及隱患排查治理工作。

Regulations on the Management of Work Safety, Regulations on the Management of Work Safety Responsibility System, Regulations on the Management of Work Safety Accountability, and Measures for the Management of Work Safety Experience Feedback have been formulated to standardize the hierarchical control of safety risks and the investigation and treatment of potential risks.

董事長俞培根率隊深入一線開展安全督導檢查 Chairman Yu Peigen led the team to carry out safety supervision and inspection on the front line.

按照《生產經營單位生產安全事故應急預 案編製導則》(GB/T 29639-2020)組織 下屬企業根據安全風險動態辨識情況,健 全完善應急預案體系,同時做好與地方政 府應急預案的銜接,按規定進行預案的備 案和公布。

In accordance with the Guidelines for the Preparation of Emergency Plans for Enterprises to Develop Emergency Response Plans for Work Place Accidents (GB/T29639-2020), subordinate enterprises have been organized to identify the dynamic situation of safety risks, improve the emergency plan system while coordinating with the emergency plans of local governments and recording and publishing the plans in accordance with regulations.





公司總部質量安全生產專題展板 Quality and work safety display panel in the Company Headquarters



組織開展安全隱患大排查大整治和危險化學品等 10 余項專項檢 查;委託安全管理專業機構,完成8家主要企業安全管理全面診斷。 組織開展新《安全生產法》的普法宣貫工作,推進 ISO9001 管理 理念和公司實踐相融合,完成質量、職業健康安全、環境管理體 系換證審核。

The Company has organized and carried out more than 10 special inspections such as the large-scale investigation and rectification of potential safety hazards and hazardous chemicals, and entrusted professional security management organizations to complete the comprehensive diagnosis of security management in eight major enterprises. The Company has organized and carried out the publicity and implementation of the new Work Safety Law, promoted the integration of ISO9001 management concept and company practice, and completed the re-certification audit of quality, safety and environmental management systems.



東方電機開展安全教育培訓活動 DEC Machinery carries out safety education and training activities.



東方鍋爐組織開展"第一責任人安全倡議書"活動 DEC Boiler organizes the "First Responsible Person Safety Initiative" activity.

攜手夥伴共贏 WORK WITH PARTNERS FOR WIN-WIN RESULTS

東方電氣本着共建共享、與利益相關方攜手共進的價值理念,致力於建立一個健康、可持續的供應鏈生態系統,

與合作夥伴實現共創共贏。

DEC is committed to building a sound and sustainable supply chain ecosystem in line with the value concept of joint construction and shared benefits and moving forward with stakeholders, so as to achieve a win-win situation with partners.

負責任採購 **RESPONSIBLE PURCHASING**

2022年,公司修訂完善了《採購管理辦法》《供應商管理規定》《招標管理規定》《採購監督管理規定》 等供應鏈管理規定,進一步明確職能職責,規範了採購方式和採購招標流程,細化了招投標、評定標、合同 談判、經銷商代理商等管理要求。

In 2022, the Company revised and improved the supply chain management regulations such as the Procurement Management Measures, Supplier Management Regulations, Bidding Management Regulations and Procurement Supervision and Management Regulations, further defining the functions and responsibilities, standardizing the procurement methods and bidding process, and detailing the management requirements of bidding, bid evaluation, contract negotiation, dealers and agents.

在規範招投標, 合規採購方面, 公司的主要舉措有:

In terms of standardizing bidding and complying with procurement, the Company has taken measures, mainly including:

修訂了《採購監督管理規定》,並構建 了業務 監督、職能監督、執紀監督三道 監督防線,明確了投訴受理、 監督處置 等流程,主要通過專項監督、日常監督 以及外部監督等方式,結合數據分析、 現場監督、在線監督、核查資料等手段 進行採購監督。

We have amended Regulations on Procurement Supervision and Management, established three lines of supervision including business supervision, functional supervision and discipline supervision, and clarified procedures of complaint acceptance, supervision and disposal. Procurement supervision is carried out mainly through special supervision, daily supervision and external supervision, combined with data analysis, on-site supervision, online supervision and data verification.

全面完成《採購招標整改及供應鏈管理提升 專項工作方案》22個專項推進工作。

We have completed 22 special projects in the Special Work Plan for the Rectification of Procurement Bidding and the Improvement of Supply Chain Management.



公司增加了供應商"三色名單"管理, 強化供應商黑名單管理。新增了《評 標專家管理規定》。

The Company adopted the "threecolor list" of suppliers, to strengthen the supplier blacklist management and added Regulations on the Management of Bid Evaluation Experts. In 2022, the Company had up to 17,675 suppliers, with an increase of 3,483, up 133% and 66% respectively from last year.

2022 年

推進集中採購,發布了《集中採購物資總 目錄》,新增了2家工業品電商平台。

To promote centralized procurement, the General Catalog of Materials for Centralized Procurement was published, and two new e-commerce platforms for industrial products were added.

開展了採購招標整改及供應鏈管理提升專 項工作。主要為專項治理髮現問題整改和 提升採購管理能力兩個方面,全面完成了 採購招標專項治理問題整改。

The special work of procurement bidding rectification and supply chain management improvement has been carried out. To rectify problems discovered during the special treatment and improve the procurement management capability, the Company has completed the rectification of the special management problems of procurement bidding in two aspects.

公司審查的供應商達

新增



分別是去年的



In 2022, the Company had up to 17,675 suppliers, with an increase of 3,483, up 133% and 66% respectively from last year.

投身社會公益 **DEDICATE TO PUBLIC WELFARE**

東方電氣积極主動融入到社區發展建設,關注社會民生問題,廣泛參与愛心助教、困難幫扶、慈善捐贈等社會公 益活動中去,幫助有需要的人群和地區,常態化開展志願服務,播撒愛心。

DEC actively integrates into community development and construction, pays attention to social livelihood issues, extensively participates in the social public welfare activities such as supporting education, helping people and regions in need, and charitable donations, and regularly carries out voluntary services to spread love.

支持社區發展 SUPPORT COMMUNITY DEVELOPMENT

開展志願服務 **PROVIDE VOLUNTARY SERVICE**

東方電氣多方位、多形式開展各類志願活動,為偏遠地區兒童開展公益課程、組織開展衣物捐贈活動,將愛心傳 遞進大山深處。

DEC carries out various kinds of voluntary activities in various aspects and forms, such as providing public welfare courses and donating clothes to children in remote areas, to spread love to deep mountains.



東方電機前往昭覺縣特布洛村幼教點,為小朋友準備了 裝有帽子、圍巾、手套及零食等的"暖冬愛心包" DEC Machinery prepares "Warm Winter Care Packages" containing hats, scarves, gloves and snacks for children of the preschool education service center in Tebuluo Village kindergarten, Zhaojue County.



東方汽輪機組織青年志願者為昭覺縣火普村幼教點的小 朋友們帶去了音樂、繪畫手工等有趣課程

DEC Turbine organizes young volunteers to provide music, drawing and handicraft classes to the children of the preschool education service center in Huopu Village, Zhaojue County



DEC Boiler carries out a clothes donation activity

為弘揚中華民族樂善好施、勤儉節約的傳統美德,2022年11月下旬,東方鍋爐志願者協會開展了"衣 舊有愛 情暖秋冬"舊衣捐贈活動,倡議廣大員工,整理家中閑置的衣物,為有需要的人送上一份愛心、 為環保公益事業貢獻一份力。

In order to carry forward the traditional virtues of charity and thrift of the Chinese nation, the Volunteer Association of DEC Boiler launched the clothes donation activity under the theme of "Warm Cold Season with Love" in late November 2022, encouraging employees to provide idle clothes to the people in need, and contribute to the public welfare cause of environmental protection.

共計有近兩百餘名員工及家屬參与到了本次 活動,活動共收到物資856件。此次活動收 到的衣物全數寄送至四川涼山州美姑縣俄曲 古鄉項目點、昭覺縣布西村項目點、甘孜藏 族自治州新龍縣樂安鄉周扎寺項目點。

A total of nearly 200 employees and their families participated in this activity, and 856 pieces of materials were received. All the clothes received in this activity were sent to the project sites of Equgu Township of Meigu County and Buxi Village of Zhaojue County, Liangshan Autonomous Prefecture and the project site of Zhouzha Temple, Le'an Township, Xinlong County, Ganzi Tibetan Autonomous Prefecture, Sichuan Province.





東方鍋爐開展員工舊衣捐贈活動

DEC Boiler carries out a used clothes donation activity.

服務疫情防控 SERVE PANDEMIC PREVENTION AND CONTROL

東方電氣堅決貫徹落實"疫情要防住、經濟要穩住、發展要安全"的總要求,投身抗疫前線服務保障工作,全力 推動下屬公司參与社區疫情防控工作,嚴格保障員工健康安全,保障疫情防控各項工作落地見效。

DEC firmly implements the general requirements of "responding effectively to COVID-19, maintaining economic stability, and ensuring security in development", throws itself in the pandemic response frontline service guarantee work, fully promotes its subsidiaries to participate in community pandemic response work, strictly guarantees the health and safety of employees, and ensures the effective implementation of pandemic prevention and control work.



東方電氣下屬企業紛紛投入社區疫情防控

DEC's subordinate enterprises have devoted themselves to the community pandemic response.

案例 | Exhibit 同心 "戰疫" 始終相伴

Work together in the fight against the pandemic

在特殊時期,東方鍋爐用行動傳遞溫暖,用行動保障員工身體健康。

In this special period, DEC Boiler conveyed warmth and protected the health of employees with actions.

面對外部疫情複雜環境,防疫物資購買困難現狀,東方鍋爐成立專項工作組,統籌推進疫情防控和物資 保供等各項工作,积極聯繫購買渠道,為公司員工採購了4500套新冠預防中藥,採購了退燒葯600份、 感冒葯600份、止咳葯600份、一次性醫用防護口罩40萬只和必要數量的抗原試劑。

In the face of the complicated pandemic and difficulties in purchasing anti-pandemic materials, DEC Boiler set up a special working group to coordinate and promote the prevention and control of the pandemic and the supply of materials. It actively contacted the purchasing channels and purchased 4,500 sets of traditional Chinese medicine, 600 copies of antipyretic medicine, 600 copies of cold medicine, 600 copies of cough medicine, 400,000 pieces of disposable medical protective masks and the necessary quantity of antigenic reagents for its employees.



東方鍋爐為員工分發抗疫物資 DEC Boiler distributes anti-pandemic supplies to its employees.

助力抗震救災 ASSIST IN EARTHQUAKE RELIEF

東方電氣堅持紮根蜀地,服務蜀地,全力支持四川 抗震救災及恢復重建工作,幫助震區居民社會生 活恢復正常秩序。2022年,面對四川甘孜藏 族自治州瀘定縣發生6.8級地震,東方電氣 第一時間動員組織所屬企業全力以赴投入抗震救災 工作,公司組織進行捐款活動支持災區渡過難關。

Adhering to the concept of taking root in and serving Sichuan, DEC fully supported the earthquake relief and reconstruction work in Sichuan, and helped the residents in the earthquake area to restore normal social life. In 2022, a 6.8-magnitude earthquake struck Luding County, Garze Tibetan Autonomous Prefecture, Sichuan Province. DEC immediately mobilized its affiliated enterprises to spare no effort in earthquake relief work, and organized donation events for the disaster areas.



東方電氣迅速部署四川瀘定震后應急處置工作,組織專業 技術人員有序對廠房、設備、邊坡等重點部位、重點場所 等進行全面排查

DEC quickly deployed the emergency treatment work after the Luding earthquake in Sichuan Province, and organized professional and technical personnel to conduct an orderly and comprehensive investigation of key parts and places such as plants, equipment, and slopes. 東方電氣組織全體職工開展向地震災區捐款 獻愛心活動,合計捐款

1,548,307.18 π

The Company organized all employees to donate money to the earthquake-stricken areas, with a total donation of RMB **1,548,307.18**.







加強海外履責 STRENGTHEN CSR OVERSEAS

東方電氣在大力拓展海外市場的同時,积極履行海外社會責任,培養當地人才、推動本地化雇傭,培育當地行業

發展,並以優質的電氣設備和服務,促進當地社會經濟發展。

While vigorously expanding the overseas market, DEC has actively fulfilled its overseas CSR, cultivated local talents, promoted localized employment, fostered the development of local industries, and promoted local social and economic development with high-quality electrical equipment and services.

支持當地人才培養 SUPPORT LOCAL TALENT TRAINING

東方電氣以解決經營屬地民眾困難為目的,為當地提供就業機會,雇傭外籍員工,积極組織學習、培訓,解決當 地員工就業問題,為屬地國培養高技術人才,為海外項目如期完成提供堅實的人力基礎。2022年,公司坦桑尼 亞朱利諾項目支持當地人才培養,培養焊工20多名,培養氣刨工6名,點焊工15名。

DEC provides employment opportunities for local people and actively organizes learning and training, to solve the difficulties of local people, cultivate high-tech talents for project countries, and provide a solid human foundation for the scheduled completion of overseas projects. In 2022, the Company cultivated local talents in its Julino project in Tanzania, and trained more than 20 welders, 6 air planers and 15 spot welders.



為坦桑尼亞分公司外籍員工提供技能培訓 Skills training for foreign employees in Tanzania branch

支持當地綠色運營 SUPPORT LOCAL GREEN OPERATION

東方電氣以"綠色驅動"為己任,為經營屬地國提供綠色技術、 創造產業發展動能,為其可持續發展提供技術支持與經營思路, 以綠色裝備助力海外友好國實現綠色生產,共同推進綠色可持 續發展。

Taking green development as its mission, DEC provides project countries with green technology and industrial development momentum, technical support and business ideas for sustainable development, and green equipment, to help them realize green production and jointly promote green sustainable development.

2022年,公司首次進入阿塞拜疆光伏市場,成功承接了阿塞 拜疆在建的最大光伏項目。

In 2022, the Company entered the Azerbaijani PV market and successfully undertook the largest PV project under construction in Azerbaijan. When completed, the project will produce about 500 million kWh of electricity for Azerbaijan annually, saving 110 million m3 natural gas and reducing carbon emissions by 200.000 tons.

支持當地產業發展 SUPPORT THE DEVELOPMENT OF LOCAL INDUSTRIES

東方電氣积極開展海外能源裝備服務,發揮自身能源企業優 勢,以清潔能源助力支持海外國家產業發展。2022年,公司 簽約尼日利亞大學城和醫院柴光儲綜合能源項目總承包合同。

DEC actively provides overseas energy equipment services, gives full play to its advantages as an energy enterprise, and supports the industrial development of overseas countries with clean energy. In 2022, the Company signed the general contract for the Nigeria University Town and Hospital Diesel-Solar-Energy Storage Integrated Energy Project.



牛產約 億千瓦時電力

the project will produce about 500 million kWh of electricity for Azerbaijan annually

節省

億立方米天然氣

saving 110 million m³ natural gas

減少

5

蕙噸碳排放

reducing carbon emissions by 200,000 tons



阿塞拜疆會場 Azerbaijan venue



簽約現場 Signing venue

接續鄉村振興 **CONTINUE RURAL REVITALIZATION**

東方電氣在鞏固脫貧攻堅成果的同時有效接續鄉村振興,通過不斷加強基層組織建設、加大基層幫扶力度、鞏固 拓展幫扶成效、全面推進鄉村振興事業。2022年,公司定點幫扶投入 2052.3 萬元,統籌推進幫扶項目 25個, 深化"造血式"幫扶。

While consolidating the achievements of poverty alleviation, DEC effectively continues the rural revitalization, and comprehensively promotes the rural revitalization cause by constantly strengthening the construction of primary-level organizations, increasing the efforts of grassroots assistance, and consolidating and expanding the effectiveness of assistance. In 2022, the Company invested RMB 20.523 million in targeted areas, with 25 assistance projects coordinated and promoted to deepen self-motivation.

夯實組織保障 STRENGTHEN ORGANIZATIONAL SUPPORT

東方電氣积極推進基層開展結對共聯、理論共學、資源共享、群團共扶,不斷提升鄉村治理能力,助力鄉村發展。

DEC constantly improves the capability of rural governance, and helps rural development through actively promoting pairedup assistance, theory co-learning, resource sharing and mutual assistance between mass organizations in communities.

2022年,公司主要負責人

2_×

In 2022, the Company selected 2 persons-in-charge

班子其他成員

人次

6 other members of the team

其他管理人員

次先後赴定點幫扶縣調研

231 management members to go to the targeted counties for investigation

公司全年完成基層幹部培訓

83.*

with 183 grassroots cadres

培訓技術人員

1,401 technical personnel trained

2022年,公司在定點幫扶組織振興方面的重要舉措有: organizations are as follows:

O 結對共聯 Paired-up assistance

與易返貧監測戶開展結對共聯,實施一對一精準幫扶

Pair up with households at risk of lapsing into poverty and implemented one-to-one targeted assistance.

• 通過日常跟蹤和動態管理了解幫扶對象情況,切實解決實際困難

Understand the situation of the targets through daily tracking and dynamic management and effectively solve the practical difficulties.

O 理論共學 Theory co-learning

• 分享理論學習資料、視頻培訓課程、精品黨課內容,加強幫扶地理論武裝

theoretical learning of the targeted region.

O 資源共享 Resource sharing

硬件資源方面,共建黨員活動室陣地,落實黨建陣地建設、升級改造

In terms of hardware resources, jointly build and upgrade Party members' activity rooms and make transformation

• 軟件資源方面, 贈送學習書籍, 共享教育資源

In terms of software resources, given learning books as gifts and share educational resources.

〇 群團共扶 Mutual assistance between mass organizations

• 引領廣大團員青年、幹部職工赴幫扶地開展金秋助學、愛心關懷、志願服務等各類活動

Lead the majority of youth league members, cadres and staff to carry out various kinds of activities such as educational supporting, caring and voluntary services.

Important measures that the Company took in 2022 to revitalize paired-up

Share theoretical learning materials, video training courses, and excellent Party lessons, and strengthen the

深入幫扶工作 **DEEPEN ASSISTANCE WORK**

東方電氣全面推進鄉村振興事業,大力建設鄉村,興產業、助教育。2022年,公司實施《中國東方電氣集團有 限公司"十四五"鄉村振興定點幫扶工作規劃》,因地制宜,全面推進鄉村振興。

DEC comprehensively promotes rural revitalization, vigorously builds rural areas, revitalizes industries and helps education. In 2022, the Company implemented the Work Plan for Targeted Assistance for Rural Revitalization during the 14th Five-Year Plan Period, to comprehensively promote rural revitalization based on local realities.

■ 完善基礎設施建設

Improve infrastructure development

案例 Exhibit 東方電氣落實鄉村基礎設施建設

DEC implements rural infrastructure development

2022 年 5 月, 東方電氣董事長俞培根帶隊赴特布洛村開展鄉村振興工作考察。此行重點考察了特布洛村廚 衛改造項目、污水處理項目、活動廣場項目等,嚴格要求項目建設要因地制宜,結合當地群眾的實際需求, 提高群眾宜居度,完善文化設施建設,豐富村民文化生活,提高村民生活質量。

In May 2022, Yu Peigen, Chairman of DEC led a team to carry out a rural revitalization investigation in Tebuluo Village. This trip focused on the kitchen and bathroom renovation project, sewage treatment project, activity square project and other projects in Tebuluo Village. It was strictly required that the project construction should be adapted to local conditions, enhance the livability of people and the construction of cultural facilities, enrich the cultural life of villagers, and improve the quality of life of villagers based on the actual needs of local people.



東方電氣董事長俞培根在特布洛村幫扶結對農戶家中 Yu Peigen, Chairman of DEC, visits the assisted villagers in Tebuluo Village



Signing ceremony of Zhaojue County waste incineration power generation investment cooperation intention agreement



公司領導現場調研察看垃圾焚燒發電項目選址 Company leaders check the location of the waste incineration power generation project

2022 年 5 月,公司與昭覺縣人民政府簽訂垃圾焚燒發電投資合作意向協議,項目建成后,可焚燒生活垃 圾規模達 600 噸。此次項目的達成對進一步健全昭覺縣產業體系具有重要意義。

In May 2022, the Company signed an investment cooperation intention agreement with Zhaojue County People's Government on waste incineration power generation. After completion, the project can burn up to 600 tons of domestic waste. This project is of great significance to further improve Zhaojue County's industrial system.

案例 | Exhibit 東方電氣赴吉縣開展定點幫扶調研工作

DEC carries out the targeted assistance survey in Jixian County 2022 年 6 月, 東方電氣董事、高級副總裁張繼烈率隊赴山西吉縣, 檢查幫扶項目落實情況, 研究後續振興 幫扶工作。公司與地方代表就鄉村振興工作開展情況及未來努力方向進行了深入交流,並對當地產業發展 提供了意見和建議。

In June 2022, Zhang Jilie, Director and Senior Vice President of DEC, led a team to Jixian County, Shanxi Province, to check the implementation of the assistance project and study the follow-up revitalization of the assistance work. The Company had in-depth exchanges with local representatives on the progress of rural revitalization work and future efforts. provided opinions and suggestions for the development of the local industry.



東方電氣董事、高級副總裁張繼烈了解當地花椒種植基地生產情況 Zhang Jilie, Director and Senior Vice President of DEC, listens to the production of local prickly ash planting base.

■ 發展教育事業 Develop local education



公司長期持續助力大涼山學前 教育基礎設施完善,截至 2022 年,在定點幫扶的昭覺縣偏遠 鄉村累計捐建11所"一村一 幼"幼教點和幼兒園。

The company has long helped improve the infrastructure of preschool education in Daliang Mountain. As of 2022. it has cumulatively donated 11 preschool education services centers and kindergartens featuring one center for one village to remote villages in Zhaojue County.

東方電氣捐建幼兒園 案例 | Exhibit

DEC donates kindergartens

2022 年 7 月 14 日,由東方電氣捐建的涼山州昭覺縣城北鎮牛博安置社區幼兒園舉行開工儀式。該幼兒 園是東方電氣為昭覺縣捐建的第一所幼兒園,建築面積約800平方米,共3個教學班級,建成后能滿足 周邊100余名適齡兒童教育需求。

On July 14, 2022, a groundbreaking ceremony was held for Niubo Resettlement Community Kindergarten in Chengbei Town, Zhaojue County, Liangshan Prefecture, which was donated by DEC. The kindergarten marks the first kindergarten donated by DEC for Zhaojue County, with a construction area of about 800 m² and a total of 3 classes, which can meet the educational needs of more than 100 school-age children in the surrounding area.



牛博社區幼兒園項目開工儀式 Groundbreaking Ceremony of Niubo Community Kindergarten Project

鞏固幫扶成效 STRENGTHEN THE EFFECTIVENESS OF ASSISTANCE

東方電氣不斷健全防止返貧動態檢測和幫扶機制,守住不發生規模性返貧的底線,注重幫扶成效,公司通過開展 定點幫扶專項審計掌握幫扶項目推進情況,切實為幫扶工作高效高質完成提供有效保障。

DEC has constantly improved the dynamic monitoring and assistance mechanism to people from falling back into poverty. guarded against a large-scale relapse into poverty, and paid attention to the effectiveness of assistance. The Company has mastered the progress of assistance projects by carrying out a special audit of targeted assistance, effectively providing effective guarantees for the efficient and high-quality completion of assistance work.



東方風電對昭覺縣特布洛鄉特口摩鋪村鄉村易返貧監測戶進行走訪摸排,建立起結對幫扶機制,指定所屬基層黨組織 與易返貧監測戶結對,組建定點幫扶工作組,按計劃開展精準幫扶 DEC Wind visited and investigated the monitored households at risk of lapsing into poverty at Tekoumopu Village, Tebuluo Township, Zhaojue County, established a paired-up assistance mechanism, designated the subordinate grass-roots Party organization to pair with the monitored households at risk of lapsing into poverty, set up a targeted assistance working group, and provided assistance for targeted households as planned.

精准扶貧



奮楫篤行 共譜發展新章 Move Forward to a New Chapter of Development

東方電氣建立嚴謹、嚴密的生產質量管理體系、制定規範的管理制度、建立有效的內 部控制、健全監管機制,形成了高效有力的現代企業制度,為國計民生建立重重保障。

a standardized management system, established effective internal control, and improved supervision mechanism, forming an efficient and powerful modern enterprise system, and building a strong guarantee for the national economy and people's livelihood.



The second s



By providing customers with high-quality products and services, quickly responding to customer feedback and creating value for customers, the Company works with customers to write a new chapter of development and jointly promote sustainable development.

Dongfang Electric Co., Ltd. Environmental, Social and Governance (2022) Report

穩固治理基石 **STABILIZE THE FOUNDATION OF GOVERNANCE**

2022 年,公司以"1532"改革工程(即"一條 主線",推進"五個專項行動",在重點領域實現"三 個突破、兩個提升")為主線推進治理改善工作, 並屢獲佳績。

In 2022, the Company took the "1532" reform project (namely "One main line", promoting "five special actions", realizing "three breakthroughs and two improvements" in key areas) as the main line to promote the improvement of governance, and achieved numerous achievements.

公司近三年利潤總額複合增長率超過20%,到 2022 年末,公司主要經營指標站上歷史新高度。 在 2021 年度中央企業改革三年行動重點任務考 核結果、2021年度中央企業三項制度改革考核結 果中,公司均榮獲 A 級評價。

In the past three years, the compound growth of the company's total profit has exceeded 20%. By the end of 2022, the company's major operating indicators have reached a historic high. In the 2021 assessment of key tasks of the three-year Action of SOE Reform and the 2021 assessment of the three-system reform of SOEs, the Company was rated A-level.

公司近三年利潤總額複合增長率超過

20%

In the past three years, the annual average growth of the company's total revenue and profit has exceeded 20%.



東方電氣 2022 環境、社會及管治報告 Dongfang Electric Co., Ltd.2022 Environmental, Social and Governance Report >>>



董事會 ESG 管治聲明 **BOARD'S ESG GOVERNANCE STATEMENT**

東方電氣作為一家同時在上海證券交易所及香港交易所上市領先的電力設備製造商和服務提供商,我們深知自己 在推動能源轉型、保護生態環境、履行社會責任和提升公司治理水平方面的重要使命。

As a leading power equipment manufacturer and service provider listed on both the Shanghai Stock Exchange and the HKSE, DEC understands its important mission in promoting energy transition, protecting the ecological environment, fulfilling social responsibility and enhancing corporate governance.

結合公司的使命,以服務國家"碳達峰碳中和"戰略目標為導向,通過對當下環境、社會的評估和研判,董事會 認為,公司推動数字化轉型、進一步提升自主創新能力,是公司在 ESG 領域的關鍵議題。

Combined with the company's mission and guided by serving the national strategic goals of "carbon peak and carbon neutrality", the Board of Directors believes that promoting digital transformation and further improving independent innovation capability are the key issues of the Company in the field of ESG through the assessment and research of the current environment and society.

在公司董事會的領導下,董事會辦公室為主要牽頭部門,各職能部門及所屬企業各司其職,以生產單位為主線, 不定期召開會議,討論 ESG 政策及現狀與生產、市場及客戶服務的關係。相關部門在生產與服務過程中亦對 ESG 保持關注,以節能減排、提高能耗等為原則,不斷提升生產效率、能耗效率,適時向管理層、董事會彙報工 作進度與成果,及適配當下 ESG 政策、形勢的公司政策的制定與修訂,以及其他和 ESG 事宜相關的合規資料, 持續完善董事會監管流程,推進公司 ESG 工作的落實。

Under the leadership of the board of directors of the Company, meetings are held irregularly, with the office of the board of directors as the main leading department, each functional department and affiliated enterprises as participants and production units as the main line, to discuss ESG policy and current situation as well as its relationship with production, market and customer service. Relevant departments also keep an eye on ESG in the process of production and service, constantly improve production efficiency and energy efficiency based on the principles of energy conservation, emission reduction and energy consumption improvement, timely report work progress and results to the management and the board of directors, formulate and revise company policies in line with current ESG policies and situation, as well as other compliance materials related to ESG matters, and continuously improve the supervision process of the board of directors, and promote the implementation of the company's ESG work.

2022年,公司通過重要性議題識別等工具,識別出本次報告的 ESG 關鍵議題,並以此確立公司的 ESG 指標與目標。

In 2022, the Company identified the key ESG issues in this report through important issues identification and other tools, and then established the company's ESG indicators and objectives.



員會、薪酬與考核委員會、提名委員會、風險與合規管理委員會。

公司治理

According to the Corporate Governance Code of SEHK, there are a total of five committees under the Board of Directors of the Company: the Audit and Review Committee, the Strategic Development Committee, the Compensation and Assessment Committee, the Nomination Committee, and the Risk and Compliance Management Committee.

至2022年末,公司共有董事會成員8名,其中3名為獨立非執行董事;監事會成員3名;總會計師、高級副總裁、 董事會秘書、副總裁等高級管理人員8名。

By the end of 2022, the Company had a total of eight board members, three of whom are independent non-executive directors; three members of the Board of Supervisors; and eight senior managers, including the chief accountant, senior vice president, secretary of the board of directors, and vice president.



公司 2021 年年度股東大會、2022 年第一次 A 股類別股東會議及 2022 年第一次 H 股類別股東會議 first H-share class shareholders' meeting in 2022

根據香港聯交所《企業管治守則》,公司共有董事會下設有五個委員會,分別是審計與審核委員會、戰略發展委

The Company's annual general meeting of shareholders in 2021, the first A-share Class shareholders' meeting in 2022 and the

股東大會是公司最高權力機構,決定公司的重大事宜。公司每年诵過發布年報、中期報告和臨時公告等方式,及 時進行信息披露,與股東建立和維持暢通的溝通渠道。

The general meeting of shareholders is the highest authority of the Company and decides its important matters. The Company releases annual reports, interim reports and interim announcements to timely disclose information and establish and maintain smooth communication channels with shareholders.

2022 年度,公司共召開一次股東大會。會上,董事向股東報告了公司的營運狀況並回答了股東的提問。

In 2022, the Company held one general meeting of shareholders. At the meeting, directors reported to shareholders on the company's operations and answered their questions.

報告期內: During the reporting period:

公司董事會召開會議14次,分別就公司戰略、國企改革、公司財務報告等進行審核與決議;

The board of directors held 14 meetings to separately review and make decisions on corporate strategy, SOE reform and financial reports;

• 公司監事會召開會議 8 次,分別就公司財務報告、公司回購註銷部分限制性股票等議案進 行審議:

The board of supervisors held eight meetings to deliberate on the company's financial report, the company's repurchase and cancellation of some restricted stock and other proposals;

公司舉行了4次業績說明會和路演活動;

The Company held four performance presentations and road shows;

 在公開渠道進行信息披露 255 條, 其中於上海證券交易所披露111 條,於香港交易所披露144條。

It disclosed 255 pieces of information through open channels, including 111 pieces on the Shanghai Stock Exchange and 144 pieces on the



• 连续 8 年荣获上交所信息披露 A 级 (最高级) 评价。

For 8 consecutive years, it has been awarded the A-level (the highest level) evaluation of information disclosure by the Shanghai Stock Exchange.



INTERNAL CONTROL MANAGEMENT

内控管理

通過健全法治工作體系、發揮法治保障、推進風控合規、加快法治信息化等方面的工作,東方電氣在提高依法治 企能力、全面提升風險防控工作水平等方面卓有成效的進步。

Through improving the rule of law work system, giving full play to the law guarantee, promoting risk control compliance, accelerating the application of IT in the rule of law work and other aspects. DEC has made fruitful progress in improving the ability to govern enterprises according to law and comprehensively improving the level of risk prevention and control.

霄科技創新戰略專項檢查。

In 2022, the Company carried out special management of conflicts of interest between key personnel and enterprises, special supervision of procurement bidding rectification and supply chain management improvement, and special inspection of implementation of scientific and technological innovation strategy.

指標名稱 Indicator	單位 Unit	2020 年	2021年	2022 年
守法合規培訓人次 Number of persons involved in training in terms of compliance with laws and regulations and risk	人次 person	9600	11200	12200

措施:

During the reporting period, in order to achieve compliant operation and controllable risks, the Company engaged 12,200 persons in the compliance with law training, At the same time, the Company has also taken some important measures as follows:



Establish a legal service center

"distinguishing categories and clarifying priorities".

HKEX.

2022 年,公司開展關鍵崗位人員與企業利益衝突行為專項治理、採購招標整改及供應鏈管理提升專項監督、落

報告期內,為實現運營合規、風險可控,公司開展的守法合規培訓覆蓋12200人次。同時,公司還採取如下重要

公司 5 家平台企業實施總法律顧問專職專業化工作, 2 家企業專職總法律顧問兼

Five platform enterprises of the Company have implemented full-time professional work of general counsel, and two enterprises have a full-time general counsel who concurrently serves as the chief compliance officer, responsible for corporate

以"區分類別、明確重點"的形式提供覆蓋全公司的法律專業服務。

Professional legal services are provided for the whole company in the form of

建立風險指標 監測系統 Establish a risk indicator monitoring system

公司將境內外合規案件數量、金額等作為合規風險監測指標,與法律風險相關指標 結合,構建法律方面風險計算模型,實現科學量化、精準呈現、及時干預、全面感知。

The Company takes the number and amount of domestic and foreign compliance cases as compliance risk monitoring indicators, and combines them with legal risk-related indicators to build legal risk calculation models, so as to achieve scientific quantification, accurate presentation, timely intervention and comprehensive perception.

案例 Exhibit 推進合規文化建設 堅守合規底線

Promote the development of compliance culture and adhere to the bottom line of compliance

2022 年,公司圍繞關鍵領域舉辦專題合規培訓共計 95 次,累計受訓 12200 餘人次。藉助四川大學的 師資力量,公司還實施了高素質法律風控合規人才培養工程,並開展了第一期人才培養計劃。

In 2022, the Company held 95 special compliance training sessions in key areas, with a total of more than 12,200 trainees. With the help of the faculty of Sichuan University, the Company has also implemented the training project for high-quality legal risk control and compliance talents, and carried out the first phase of talent training plan.

在 2022 年警示教育大會暨專項治理動員會上,公司發布了《合規倡議書》《合規承諾書》,14600 餘名員 工承諾堅守合規底線,促進合規管理、傳播合規文化。

In the 2022 Warning Education Conference and Special Governance Mobilization Meeting, the Company issued the Compliance Proposal and Compliance Commitment Letter, More than 14,600 employees pledged to stick to the bottom line of compliance, promote compliance management and spread compliance culture.



東方電氣高素質法律風控合規人才培養工程 DEC High-quality Legal Risk Control Compliance Personnel Training Project

在反貪腐、反舞弊方面,公司採取了以下舉措:

報告和補救程序。

In the Work manual of Internal Control System, it is clearly required that subordinate enterprises should establish an antifraud mechanism and standardize the reporting, investigation, handling, reporting and remedy procedures of fraud cases.

舉報、投訴成為企業有效掌握信息的重要途徑

Efforts are also made to establish a reporting and complaint system and a whistleblower protection system, set up a special reporting line, clarify the reporting and complaint handling procedures, time limits for handling and conclusion requirements, and ensure that reporting and complaints become an important way for enterprises to effectively grasp information.

2022年,公司未出現重大舞弊、貪腐案件。



In terms of anti-corruption and anti-fraud, the Company has taken the following measures:

在《內部控制體系工作手冊》中明確要求下屬企業應建立反舞弊機制,規範舞弊案件的舉報、調查、處理、

建立舉報投訴制度和舉報人保護制度,設置舉報專線,明確舉報投訴處理程序、辦理時限和辦結要求,確保

In 2022, there were no major cases of fraud and corruption in the Company.

堅持創新驅動 **ADHERE TO INNOVATION-DRIVEN DEVELOPMENT**



公司以綠色低碳轉型助推高質量發展,通過建設綠色工廠、整合数字化技術,推進製造数字化轉型,實現数字技 術從生產製造向產品服務領域延伸,推動以数字化、智能化手段替代傳統製造模式。

The Company promotes high-quality development through green and low-carbon transition, promotes the digital transformation of manufacturing through the construction of green factories and the integration of digital technology, realizes the extension of digital technology from production and manufacturing to products and services, and promotes the replacement of traditional manufacturing mode by digital and intelligent means.

全域数字化轉型 **ALL-AREA DIGITAL TRANSFORMATION**

2022年,公司發布《關於2022-2025年加快推進数字化轉型工作的行動方案》和《数字化轉型行動計劃 (2023-2025)》,制定雲計算數據中心、工業互聯網等建設方案,系統性地確定研發設計、生產製造、經營管理、 產品及服務、產業生態等5個業務領域共98項重點工作。

In 2022, the company will release the Action Plan on Accelerating Digital Transformation from 2022 to 2025 and the Action Plan on Digital Transformation (2023-2025), and formulate plans for the construction of cloud computing data centers and industrial Internet. A total of 98 key tasks have been systematically identified in 5 business areas, including research and development, production and manufacturing, operation and management, products and services, and industrial ecology.

報告期內,公司在数字化轉型方面的主要工作有:

During the reporting period, the company's major work on digital transformation included:



在推動風電主機業務應用三維協同設計系統中,實現與 ERP (Enterprise Resource Planning,企業資源計劃系統)集成並打通採購、生產等環節

In promoting the application of a 3D collaborative design system in wind power host business, the integration with Enterprise Resource Planning (ERP) was realized and such links as procurement and production were kept unimpeded.



東方電機與東方汽輪機率先達到智能製造成熟度3級(即企業對裝備、系統等開展集成, 實現跨業務間的數據共享。最高級為5級)。建成國內領先的汽輪機葉片 "黑燈產線" 、發電裝備行業全球首個定子沖片"綠色無人車間"。

DEC Machinery and DEC Turbine took the lead in reaching level 3 of intelligent manufacturing maturity (that is, enterprises integrate equipment, systems, etc., and realize data sharing between businesses. The highest level is 5). DEC has built the leading "dark production line" for turbine blades in China and the world's first "green unattended workshop" for stator punching in the power generation equipment industry.



品及服務数字化 Digitization of products and services

The Wangjiangping 100-day trouble-free demonstration wind farm in Guangyuan, Sichuan, built with smart wind power, has improved management efficiency by 20%, reduced comprehensive operation and maintenance costs by 10%, and increased power generation by 5% for customers. Different configurations of the system have been applied to more than 50 domestic wind farms.

案例 Exhibit 全球首個發電機定子沖片 "無人車間" 綠色再升級

可視化運行。

business areas.

The world's first "unattended workshop" for generator stator punching embraces green re-upgrade

投入使用一年之後,東方電機定子沖片"無人車間"升級為定子沖片綠色"無人"車間。

After one year of operation, WDEC Machinery's "unattended workshop" for stator punching was upgraded to a green "unattended workshop" for stator punching.



國內首個定子沖片綠色"無人車間" The first green "unattended workshop" for stator punching in China

實現財務共享服務系統等主要管理信息系統全級次正式應用,基本實現重點業務領域的

The Company has realized all levels of formal application of financial sharing service system and other major management information systems, and basically realized the visual operation of key

通過智慧風電打造的四川廣元望江坪百日無故障示範風場為客戶實現管理效能提升20%,

綜合運維成本降低10%,發電量提升5%;不同配置的系統已應用於國內50多個風場。

案例 Exhibit 智慧水電 實現萬里長江第一壩智慧"重生"

Intelligent Hydropower Intelligent "reborn" of the first dam on the Yangtze River

2022 年 7 月,東方電氣採用水電機組智能診斷解決方案對葛洲壩水電站首台 17 萬千瓦水輪發電機組順利 完成改造,實現對機組部分運行狀態進行實時評估和故障診斷,構建了全時空、全目標、全關係、全場景、 全態勢的感知系統。

On July 2022, DEC successfully completed the renovation of the first 170,000 kilowatts hydro turbine unit of Gezhouba Hydropower Station using the intelligent diagnosis solution for hydropower units, realizing real-time assessment of unit partial operation states and fault diagnosis, and establishing a sensing system that covers all time-space, objectives, relations, scenarios, and situations.

• 新增 200 多個傳感器測點

Over 200 new sensor locations.

機組設備全息監測在行業內首次採用基於 PXI 總線

First PXI Bus-based holographic monitoring of unit equipment in the industry

• 實現多物理量、大批量、高頻率、實時同步的數據采集

Data collection of multi-physics, high volume, high-frequency, and real-time.



低碳綠色環保 LOW-CARBON AND GREEN ENVIRONMENTAL PROTECTION

以"綠色動力,驅動未來"為己任,東方電氣致力推進清潔高效能源產品生產和清潔能源技術、儲能技術的研究,

服務國家"雙碳"戰略。

Taking "shape the future with green power" as its mission, DEC is committed to promoting the production of clean and efficient energy products and the research of clean energy technology and energy storage technology to serve the national "carbon peak and carbon neutrality" strategy.



Advanced energy storage technology helps "carbon peak and carbon neutrality"



項目儲能規模 10 兆瓦 /20 兆瓦時 The energy storage scale of the project is 10MW

/20MWh:

能在2小時內存滿2萬度電 It can store 20,000kWh of electricity in 2 hours;

二氧化碳 + 飛輪儲能項目具備以下特徵 The Carbon Dioxide + Flywheel energy storage project has the following characteristics:



2022 年 8 月 25 日, 東方汽輪機研發的全球首個"二氧化 碳+飛輪"儲能示範項目竣工

On August 25, 2022, the world's first "Carbon Dioxide + Flywheel" energy storage demonstration project developed by DEC Turbine was completed.



• 可以有效平滑電網波動性,實現電網安全運行,不用化石燃料,也不會產生固體廢棄物,

It can effectively smooth the volatility of the power grid, and realize the safe operation of the power grid. Since it does not use fossil fuels, it will not produce solid waste and thus realize

• 不受地理條件的限制,建設周期不到2年;不使用稀有金屬或貴金屬,長達30年的

The project is not limited by geographical conditions, and has a construction period of less than 2 years. It does not use rare or precious metals, with up to 30 years of service life. It is

• 在大容量長時儲能上有極佳的經濟效益。可與太陽能、風電等新能源配套

It has excellent economic benefits in large-capacity storage for a long time. It can be matched



13 兆瓦海上風電電機 13MW offshore wind power motor

設計風速下,每轉動一圈,可發電 22.8 度

Under the design wind speed, each rotation can generate 22.8kWh of electricity.

單台機組每年可輸出 5000 萬度清潔電能,能滿足 25000 個三口之家一年的家庭正常用電,

A single unit can output 50 million kWh of clean electricity every year, which can meet the normal electricity consumption of 25,000 families of three people for a year.

• 可減少燃煤消耗 1.5 萬噸,二氧化碳排放 3.8 萬噸

It can reduce coal consumption by 15,000 tons and carbon dioxide emissions by 38,000 tons.

以一個 100 萬千瓦的項目測算,與 10 兆瓦機組相比,選用 13 兆瓦風電機組可減少機位 23 個,節 約工程造價約 5 億元

In a project of one million kW, compared with a 10MW unit, the selection of the 13MW wind turbine can reduce the number of stands by 23, saving the project cost of about RMB 500 million.



氫燃料電池 更久 更強 Hydrogen fuel cells boast longer and stronger life cycle

2022 年 9 月,東方氫能自主設計的 Olas 60A 氫燃料電池系統耐久測試首次突破 10000 小時大關。和固態鋰電 池相比,氫燃料電池填充速度更快、全周期的碳排放更低,具有更加可靠的實用性。

In September 2022, Olas 60A hydrogen fuel cell system independently designed by DEC Hydrogen Energy exceeded 10,000 hours for the first time in the endurance test. Compared with solid-state lithium batteries, hydrogen fuel cells are more reliable and practical because of their faster filling speed and lower carbon emissions over the whole cycle.





東方電氣研製的氫能車 A Hydrogen-powered Bus Developed by DEC



提質增效 **IMPROVE QUALITY AND EFFICIENCY**

踐行"遵章守規、一次做好、精益求精、客戶滿意"的質量方針,東方電氣始終致力於不斷完善讓客戶放心的質 量保證體系。在產品質量管理方面,主要舉措如下:

Adhering to the quality policy that emphasizes "compliance with rules and regulations, one-and-done, pursuit of excellence and customer satisfaction", DEC has always been committed to constantly improving the quality assurance system that makes customers rest assured. In terms of product quality management, major measures are as follows:

實施"質量強國戰略" Implement the strategy of building China's strength in product quality.	始終堅持以質量為中心的戰略定位,將質量放在首位。 Always adhere to the strategic positioning of focusing on quality and put quality first.
全過程質量控制 Whole-process quality control:	對產品設計、採購、生產、銷售、服務等全過程進行控制和管理,確保產品質量。 Control and manage the whole process of product design, procurement, production, sales and service to ensure product quality.
精益管理 Lean management	积極推行精益管理運用到研發設計、生產製造、供應鏈管理、營銷服務等流程, 促進質量、成本、交期等指標顯著改善。 Actively integrate lean management into R&D and design, manufacturing and production, supply chain management, marketing services, and other processes to significantly improve indexes such as quality, cost, and delivery.
数字化轉型 Digital transformation	引入智能化技術,提升生產線的自動化程度,減少了人為因素對產品質量的影響。 Introduce intelligent technology to improve the automation of production line and reduce the influence of human factors on product quality.
品牌戰略 Brand strategy	通過提高產品質量、優化服務、不斷提升品牌知名度等方式,樹立起良好的品牌形象,增強了產品的競爭力。 Establish a good brand image and enhance the competitiveness of our products by improving product quality, optimizing service, and constantly enhancing brand

awareness.

2022 年,公司以提升質量管理體系的適宜性和充分性為目標,新增修訂質量管理制度及標準 8 份。依據《2021-2023 年質量培 訓滾動計劃》開展質量培訓活動,公司 2022 年開展了 363 次質量培訓活動,覆蓋 23278 人次;近年來,公司重大質量事故

為ዐ。

In 2022, with the goal of improving the suitability and adequacy of the quality management system, the Company added and revised eight quality management systems and standards. Quality training activities were carried out according to the Rolling Plan of Quality Training for 2021-2023. The Company carried out 363 quality training activities in 2022, covering 23,278 persons, with no major quality accidents in recent years.

東方電氣旗下產品所獲認證(部分): Certificates of DEC's products (part):



東方重機產品獲得美國安全委員會 ASME 認證

DEC Heavy Machinery's products have been certified by ASME.





東方電機"夾心餅乾"QC小組成果《夾 心絕緣板的製造與裝配創新》榮獲中央企 業OC小組成果發表賽一等獎

DEC Machinery's "Sandwich biscuit" QC group won the first prize in the Central Enterprise QC Group Outcome Presentation for its outcome of " Manufacturing and assembly innovation of sandwich insulation boards"

東方汽輪機"雷霆"QC小組成果《提高小 東方汽輪機獲民用核安全設備製造許可證 螺拉試樣加工一次交檢合格率》榮獲中央 企業 OC 小組成果發表賽一等獎

DEC Turbine's "Thunderbolt" QC group won the first prize in the Central Enterprise QC Group Outcome Presentation for its outcome of "Improve the acceptance rate of snails in first inspection of sample processing"

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東方鍋爐獲壓力容器證書設計許可證

DEC Boiler obtained pressure vessel certificate design license



中华人民共和国民用核安全设备

制造许可证

DEC Turbine obtained manufacturing license for civil nuclear safety equipment

精益管理 LEAN MANAGEMENT

為提高產品質量和穩定性、提高生 產效率和降低成本,東方電氣持續 深入推進精益管理,在下屬企業廣 泛應用精益六西格瑪管理方法。

In order to improve product quality and stability, improve production efficiency and reduce costs, DEC has continuously and deeply promoted lean management and widely applied the Lean Six Sigma management approach in its affiliated enterprises.



2022年,公司在推行精益管理方面的主要舉措有:

The company's major measures in implementing lean management in 2022 are as follows:

• 印發《精益管理評價標準》,引導下屬企業管理改善方向;

Issued the Lean Management Evaluation Standard to guide the management improvement direction of subordinate enterprises;

• 推舉精益黑帶項目標杆項目,強化示範引領作用;

Promote the lean Black Belt benchmarking project, and strengthen the demonstration and leading role;

• 統籌推進實施精益改善項目和精益模塊推進工作 560 項, 按季督導確保如期完成;

Promote the implementation of 560 lean improvement projects and lean module promotion projects in a coordinated manner, and supervise quarterly to ensure the completion on schedule;

 發布"十四五"精益管理人才培養方案,年內認證黑帶15人、綠帶94人、黃帶62人,培養精益人 才隊伍400人。

Issue Lean Management Talent Training Program during the "14th Five-Year Plan" Period, with 15 black belt talents, 94 green belt talents, 62 yellow belt talents certified, and 400 lean talents cultivated.

2022 年 8 月 19 日,公司在東方汽輪機召開第一期精益黑帶項目成果發布會,實現內部黑帶人才 "零突破"和多種產品質量、成本、交期有效改善。

On August 19, 2022, the Company held a press conference on the results of the first phase of Lean Black Belt project in DEC Turbine, realizing the "zero breakthrough" of internal black belt talents and the effective improvement of quality, cost and delivery of various products.



科研實力新高 **NEW HIGH IN SCIENTIFIC RESEARCH STRENGTH**

多年來,東方電氣以開拓創新之力,在關鍵核心技術屢屢完成攻關,並逐年開花結果。2022年,公司頒布了科

技項目管理辦法與專利管理辦法,同時在科技創新方面取得突出成果。

Over the years, DEC, with its pioneering and innovative force, has repeatedly completed breakthroughs in key core technologies, delivering fruitful results year by year. In 2022, the Company issued the Measures for the Administration of Scientific and Technological Projects and Measures for the Administration of Patents, and made outstanding achievements in scientific and technological innovation.





2022年,公司在科技創新方面取得突出成果: In 2022, the Company achieved significant outcomes in technology innovation:

- 新增有效專利 532 件,其中發明專利 183 件;
- 同比增長 10%、16%;
- 主持 3 項國家標準制定或修訂,參与 45 項國家標準的制定或修訂;
- 主持 10 項行業標準的制定或修訂,參与 64 項行業標準的制定或修訂;
- 獲得 1 項國家專利優秀獎: 低負荷下高流動穩定性的超臨界循環流化床鍋爐水冷(ZL201510830264.4) 獲得第二十三屆中國專利優秀獎。
- 2022年,公司研發投入達到 31.05 億元,相比上一年增長 14.1%;



532 new patents in force, among which 183 patents are innovation patents; Own a total of 3336 patents in force, among which 1282 patents are innovation patents, accounting for 38.42%, an increase of 10% and 16% yoy respectively; Direct the formulation or amendment of 3 national standards and participate in the formulation or amendment of 45 national standards; Direct the formulation or amendment of 10 industry standards and participate in the formulation or amendment of 64 industry standards; One China Patent Excellence Award: The ultra-supercritical circulating fluidized bed boiler water wall with high flow stability under low load (ZL201510830264.4) won the 23rd China Patent Excellence Award.R&D investment of CNY3.105 billion, an increase of 14.1% from that of the last year.

報告期內,公司加大創新激勵力度,開展科技進步獎、科技成果獎評選,大幅提高獎勵額度。

During the reporting period, the Company increased the incentive for innovation, carried out the selection of scientific and technological progress awards and scientific and technological achievement awards, greatly increased the amount of awards.

• 共擁有有效專利 3336 件,其中發明專利 1282 件,發明專利佔比 38,42%,分別

2022年2月,根據國家發展改革委發布《國家企業技術中心 2021年評價結果的通知》(發改辦高技〔2022〕68號)

文件,東方電氣國家級企業技術中心獲評優秀(最高等級),在全國**1744**家參評企業中排名第**7**,創歷史最優, 持續位列電力裝備製造業首位。

In February 2022, according to the "Notice on 2021 Evaluation Results of State-Accredited Enterprise Technology Centers" issued by the National Development and Reform Commission (F.G.B.G.J. [2022] 68), DEC's National Enterprise Technology Center was rated as excellent (the highest level), ranking 7th among 1744 participating enterprises in the country, which was the best in history and continuously ranked first in the power equipment manufacturing industry.

報告期內,東方電氣再創許多"之最"與"第一":

During the reporting period, DEC created many "bests" and "firsts" :

 世界最大的全空冷水輪發電機組於 2022 年在白 鶴灘(四川省涼山州寧南縣和雲南省昭通市巧家 縣境內)水電站成功投入運行。

In 2022, the world's largest all-air-cooled hydrogenerator set was put into operation at Baihetan Hydropower Station in Ningnan County of Liangshan Prefecture in Sichuan Province and Qiaojia County of Zhaotong City in Yunnan Province.



白鶴灘水電站內部: 左岸全部 8 台水電機組 Inside Baihetan Hydropower Station: All eight hydropower units on the left bank

 中國第一台自主知識產權重型燃氣輪機(F級50 兆瓦重型燃氣輪機)於2022年12月在華電廣 東清遠電站點火成功。

China's first heavy-duty gas turbine with independent intellectual property rights (F-class 50 MW heavyduty gas turbine) was successfully started at Qingyyuan power station of Guangdong Huadian in December 2022.



• 世界最大核電蒸汽發生器交付

Delivery of the world's largest nuclear steam generator

• 世界第一個非補燃 60 兆瓦壓縮空氣儲能電站於 2022 年 5 月在江蘇金壇投入商運。

The world's first 60 MW non-supplementary fired compressed air energy storage power station was put into commercial operation in Jintan, Jiangsu Province in May 2022.



精誠客戶服務 PROVIDE SINCERE CUSTOMER SERVICES

東方電氣始終堅持為客戶帶去高質量的產品和精益求精的服務,不斷完善用戶服務體系,持續提升產品和服務質量。

DEC always insists on providing high-quality products and excellent service to customers, constantly improving the user service system, and continuously improving the quality of products and services.

提升客戶滿意度 IMPROVE CUSTOMER SATISFACTION

東方電氣始終關注用戶需求,遵循客戶至上,积極 主動服務客戶,將客戶的肯定視作企業前進發展的 最大動力,以"24小時服務精神"作為企業服務理 念,着力提高客戶服務水平,不斷提升客戶滿意度。

DEC always pays attention to the needs of users, puts customers first, actively serves customers, and regards the affirmation of customers as the biggest driving force for its development. It takes the "24-hour service spirit" as the enterprise service concept, focuses on improving the level of customer service, and constantly improves customer satisfaction.

保護客戶隱私安全 PROTECT CUSTOMER PRIVACY AND SECURITY

東方電氣重視客戶商業敏感信息和個人隱私的保 護,不斷完善客戶信息管理制度,優化智能客戶服 務系統。2022年,公司客戶關係管理系統、智慧 客戶服務系統正式上線投入使用。

DEC attaches great importance to the protection of customers' commercially sensitive information and personal privacy, constantly improves the customer information management system and optimizes the intelligent customer service system. In 2022, the company's customer relationship management system and intelligent customer service system were officially put into use.



千秋偉業,百年芳華只是序章。2022 年是極不平凡的一年,黨的二十大勝利召開,清晰擘畫以中國式現代化推進中華民族偉大復興的宏偉藍圖,以習近平同志為核心的新一屆中央領導集體掌舵"中國號"巍巍巨輪再一次駛向更光明的未來。東方電氣在習近平新時代中國特色社會主義思想引領下,"大國重器"建設取得了新成就,高 質量發展邁上了新台階。

The past hundred years have just been the prologue of the lasting greatness for the Chinese nation. 2022 is an extraordinary year. The 20th National Congress of the Communist Party of China was successfully held, providing a grand blueprint of advancing national rejuvenation through a Chinese path to modernization. The great ship of "China" at the helm of the new central leadership with Comrade Xi Jinping at its core is sailing into a brighter future once again. Under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, DEC has made new achievements in technologies, with its high-quality development reaching a new level.

數載求索,萬里長風正當其時。2023年,是全面貫徹落實黨的二十大精神的開局之年,是"十四五"承上啟下 的攻堅之年,也是東方電氣邁向現代化發展新征程的關鍵之年。一時千載,千載一時,以中國式現代化全面推進 中華民族偉大復興的壯美畫卷已經在我們面前徐徐展開,正需要我們在 2023 這個重要年份里,給奮鬥的標尺一 個更深更長的刻度。 After years of searching, it is just time to ride the wind. The year 2023 is the first year to fully implement the guiding principles set forth by the 20th National Congress of the Communist Party of China, a crucial year to implement the "14th Five-Year Plan", and also the key year for DEC's new journey towards modernization. At such a rare time, with the magnificent picture of advancing the great rejuvenation of the Chinese nation on all fronts through a Chinese path to modernization has been slowly unfolding in front of us, we must leave an indelible stroke in 2023.

展望 2023,我們將秉承"共創價值、共享成功"的理念,服務國家戰略,創新能源未來,賦能美好生活,加快 建設具有全球競爭力的一流電氣集團,成為落實製造強國戰略的主力軍,成為維護國家能源安全的戰略依託,成 為引領重大技術裝備高質量發展的核心力量,成為建設清潔低碳安全高效能源體系的綜合解決方案提供商,以緣 色動力驅動未來可持續發展。

Looking ahead to 2023, we will adhere to the concept of "value co-creation for a shared prosperity", serve the national strategy, innovate the future of energy, and enable a better life. We will build ourselves into a world-class electric group with global competitiveness at a faster pace, the main force to implement the strategy of building China into a manufacturer of quality, the strategic support for safeguarding national energy security, the core force leading the high-quality development of major technologies and equipment, and a comprehensive solution provider for building a clean, low-carbon, safe and efficient energy system, so as to drive sustainable development in the future with green power.



責任榮譽 RESPONSIBILITY AND HONOR

2022年,公司及下屬所獲得的部分社會榮譽如下:

Some of the social honors received by the Company and its subsidiaries in 2022 are as follows:

項目名稱 Project name	獎項名稱 Award name	主要完成單位 Mainly completed by	頒發單位 Awarding unit
低負荷下高流動穩定性的超 臨界循環流化床鍋爐水冷壁 (ZL201510830264.4) Water Wall of Supercritical Circulating Fluidized Bed Boiler with High Flow Stability under Low Load (ZL201510830264.4)	第二十三屆中國專利 優秀獎 The twenty-third China Patent Excellence Award	東方電氣集團東方鍋爐股份有限 公司 Dongfang Boiler Co., Ltd.	國家知識產權局 China National Intellectural Property Administration
高端裝備核心部件主動適配型智能 運維關鍵技術及應用 Key technology and application of active adaptive intelligent operation and maintenance core components of high-end equipment	四川省科學技術進步 獎一等獎 First prize of Sichuan Science and Technology Progress Award	東方電氣集團東方電機有限公司 Dongfang Electric Machinery Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government
10MW 級海上風力發電機組關鍵技 術與應用 Key technologies and applications of 10MW offshore wind turbine units	四川省科學技術進步 獎一等獎 First prize of Sichuan Science and Technology Progress Award	東方電氣風電股份有限公司、東方 電氣集團東方電機有限公司、東方 電氣自動控制工程有限公司、東方 電氣集團科學技術研究院有限公司 Dongfang Electric Wind Power Co., Ltd.Dongfang Electric Machinery Co., Ltd.Dongfang Electric Autocontrol Engineering Co., Ltd.DEC Academy of Science and Technology Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government
1000MW 等級超超臨界汽輪機提 效關鍵技術及改造應用 Key technology and modified application of 1000MW-level ultra super-critical turbine efficiency improvement	四川省科學技術進步 獎二等獎 Second prize of Sichuan Science and Technology Progress Award	東方電氣集團東方汽輪機有限公司 Dongfang Turbine Co., Ltd.	四川省人民政 Sichuan Provincial People's Government
超大變幅水頭水輪機穩定運行關鍵 技術及應用 Key technology and applications of ultra-large variable head turbine in stable operation	四川省科學技術進步 獎二等獎 Second prize of Sichuan Science and Technology Progress Award	東方電氣集團東方電機有限公司 Dongfang Electric Machinery Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government
分散式風電規模化接入區域電網的 主動協同控制技術及應用 Active cooperative control technology and application of distributed wind power large-scale access to regional power grid	四川省科學技術進步 獎二等獎 Second prize of Sichuan Science and Technology Progress Award	東方電氣風電股份有限公司 Dongfang Electric Wind Power Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government
多沙條件下大型混流式水輪機穩定 性控制關鍵技術及應用 Key technology and application of stability control of large Francis turbine under sediment-laden condition	四川省科學技術進步 獎二等獎 Second prize of Sichuan Science and Technology Progress Award	東方電氣集團東方電機有限公司 Dongfang Electric Machinery Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government
高寒山區風電高效開發綜合技術研 究及應用 Research and application of comprehensive technology for efficient development of wind power in alpine mountainous areas	四川省科學技術進步 獎二等獎 Second prize of Sichuan Science and Technology Progress Award	四川省科學技術進步獎二等獎 Dongfang Electric Wind Power Co., Ltd.	四川省人民政府 Sichuan Provincial People's Government

附錄 APPENDIX

關鍵績效表 TABLE OF KEY PERFORMANCE

環境績效

Environmental performance

一級指標 Primary indicator	二級指標 Secondary indicator	2020	2021	202
温室气体	溫室氣體排放量(萬噸) GHG emission volume (10,000 tons)	25.20	24.10	Â
Greenhouse gasess	溫室氣體排放密度(噸 / 萬元) GHG emission density (ton/RMB 10,000)	0.068	0.051	(
	二氧化硫(噸) Sulfur dioxide (ton)	196.50	175.40	16
廢氣	二氧化硫排放密度(噸 / 萬元) Sulfur dioxide emission density (ton/RMB 10,000)	0.00005	0.00004	0.0
Waste gas	氮氧化物(噸) Nitrogen oxide (ton)	351.00	273.00	25
	氮氧化物排放密度(噸 / 萬元) Nitrogen oxide discharge density (ton/RMB 10,000)	0.00009	0.00006	0.0
	廢水排放量(噸) Discharge of waste water (ton)	153.90	143.70	12
	廢水排放密度(噸 / 萬元) Wastewater discharge density (ton/RMB 10,000)	0.4128	0.3005	0.
廢水	COD 排放量(噸) COD (ton)	367.00	295.00	28
Waste water	COD 排放密度(噸 / 萬元) COD discharge density (ton/RMB 10,000)	0.00010	0.00006	0.0
	氨氮(噸) Ammonia nitrogen (ton)	83.50	76.10	6
	氨氮排放密度(噸 / 萬元) Ammonia nitrogen discharge density (ton/RMB 10,000)	0.00002	0.00002	0.0
	危險廢棄物排放量(噸) Hazardous wastes emission volume (ton)	2,826	2,329	1
廢棄物 waste	危險廢棄物排放密度(噸 / 萬元) Hazardous wastes emission intensity (ton/RMB 10,000)	0.0007	0.0004	0.
	無害廢棄物排放量(噸) Non-hazardous wastes emission volume (ton)	35,800	26,773	22
	無害廢棄物排放密度(噸 / 萬元) Non-hazardous wastes emission intensity (ton/RMB 10,000)	0.0072	0.0051	0.
	回收廢棄物總量(噸) Total amount of recycled waste (ton)	29,000	24,423	20

一級指標 First-order index	二級指標 Secondary index	2020	2021	2022
	綜合能耗(噸標準煤) Comprehensive energy consumption (tce)	98,673	93,391	95,834
	萬元產值綜合能耗(噸標準煤 / 萬元) Comprehensive energy consumption per RMB 10,000 of operating income (tce/RMB 10,000)	0.028	0.022	0.017
能耗 Energy	電力(萬千瓦時) Electricity (10,000 kWh)	32,783	31,802	32,350
consumption	天然氣(萬立方米) Natural gas (10,000m ³)	3,809	3,771	3,805
	汽油(噸) Gasoline (ton)	756	655	592.7
	柴油(噸) Diesel (ton)	741.60	690.80	590.50
水資源	水資源消耗(萬噸) Water consumption (10,000 tons)	370	369	340
Water resource	萬元產值水資源消耗(噸 / 萬元) Water resources consumption per RMB 10,000 of operating income (ton/RMB 10,000)	0.993	0.758	0.614
	包裝材料消耗(噸) Consumption of packaging materials (ton)	13,507	15,150	15,064
	包裝材料消耗密度(噸 / 萬元) Consumption intensity of packaging materials (ton/ RMB 10,000)	0.0041	0.0032	0.0027
包裝物料	木箱(噸) Wooden box (ton)	8,182	9,687	7,745
Packing materials	紙箱(噸) Carton (ton)	126	80	51
	塑料(噸)) Plastic (ton)	158	175	144
	槽钢(吨) Steel channel (ton)	4,527	4,754	6,810
	其他材料(噸) Other materials (tons)	514	454	314
環保投入 Environmental protection investment	環保資金投入(萬元) Funds of environmental protection investment (RMB 10,000)	3,033	5,960	5,968
生態保護	重大環境污染事故(起) Major environmental pollution accident (accident)	0	0	0
Ecological protection	環保培訓覆蓋率(%) Coverage of environmental protection training (%)	100	100	100

社會績效

Social performance

一級指標 Primary indicator	二級指標 Secondary indicator	2020	2021	2022
	員工總人數(人) Total number of employees (persons)	17,336	16,969	17,463
雇傭	女性員工人數(人) Number of female employees (person)	3,003	2,945	3,029
Employment	勞動合同簽訂率(%) Percentage of employment contracts signed (%)	100	100	10
	社會保險覆蓋率(%) Coverage of social insurance (%)	100	100	10
	安全生產投入(萬元) Work safety investment (RMB 10,000)	7,063.5	8,472.6	12,469.
	安全生產培訓人次(人次) Number of employees in work safety training (person)	17,306	137,756	106,79
	較大及以上生產安全事故(起) Major or serious work safety accidents (accident)	0	0	
健康與安全 Health and	因工亡故員工人數(人) Number of work-related fatalities (persons)	1	0	
safety	因工亡故員工比率(%) Rate of work-related fatalities (%)	0.0054	0	
	因工損失工作日數(人日) Lost days due to work injury (day)	6,000	0	
	員工體檢覆蓋率(%) Coverage of physical examination (%)	100	100	10
發展與培訓 Development	員工培訓投入(萬元) Staff training investment (RMB 10,000)	3,770.22	4,193.80	5,362.2
and training	參与培訓員工人數(人次) Number of employees trained (person)	154,409	122,777	120,99
	報告期內審查的供應商個數(個) Number of suppliers screened within the reporting period (supplier)	20,543	13,323	17,67
伳噰鎑笉瑘	報告年度供應商新增總數(個) Number of new suppliers within the reporting period (supplier)	5,740	5,254	3,48
供應鏈管理 Supply chain management	供應商守法合規及風險培訓次數(次) Number of sessions of training for suppliers in terms of compliance with laws and regulations and risk (session)	13	15	1
	供應商守法合規及風險培訓人次(人次) Number of persons involved in training for suppliers in terms of compliance with laws and regulations and risk (person)	2,319	1,998	2,53
社區投資 Community investment	定點幫扶資金投入(萬元) Investment in targeted poverty alleviation (RMB 10,000)	2,768	2,650	2,05
	員工志願活動次數(次) Number of voluntary activities (activity)	465	1,923	1,20
	參与志願活動人次(人次) Number of voluntary employees (person)	3,375	15,358	9,21
	對外捐贈總額(萬元) Total amount of donation (RMB 10,000)	5,116	3,347	2,16

管治績效

Governance performance

一級指標 Primary indicator	二级指標 Indicator	2020	2021	2022
守法合規 Compliance with laws and regulations	守法合規培訓人次(人次) Number of persons involved in training in terms of compliance with laws and regulations and risk (person)	9,600	11,200	12,200
	反腐敗培訓次數(次) Number of anti-corruption training sessions (session)	103	85	189
反貪污 Anti-corruption	反腐敗培訓參与人數(人次) Number of participants in anti-corruption training (person)	12,501	9,221	15,976
	報告期內審結的貪污訴訟案件數(個) Number of corruption lawsuits closed within the reporting period (lawsuit)	2	2	0
	研發投入(億元) R&D investment (RMB 100 million)	20.03	27.22	31.05
科技創新 Technology	研發人員(人) Total number of R&D professionals (person)	3,615	4,122	4,361
innovation	擁有有效專利數(件) Total number of patents in force (patent)	2,690	3,045	3,336
	擁有發明專利數(件) Total Invention Patents (patent)	999	1,106	1,282
	已售或已運送產品總數中因安全與健康理由而須回收的 比例(%) Percentage of total products sold or shipped subject to recalls for safety and health reasons (%)	0	0	0
產品責任 Product responsibility	重大質量事故及重大客戶投訴數(起) Major quality accidents and customer complaints (accident)	0	0	0
	客戶滿意度(%) Customer satisfaction (%)	93.50	92.40	90.5

ESG 指標索引 **ESG INDEX**

議題 Topics	績效指標 KPIs	引用章節 / 說明 Cited Chapters/ Notes
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compty of Expt	一般披露 General disclosure	P13-14
	A1.1 排放物種類及相關排放數據。 KPI A1.1 The types of emissions and respective emissions data	P15-16,P18
	A1.2 直接及能源間接溫室氣體排放 KPI A1.2 Direct and energy indirect greenhouse gas emissions	P17
A1 排放物 A1 Emissions	A1.3 所產生有害廢棄物總量、密度 KPI A1.3 Total hazardous waste produced and intensity	P18
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	A1.6 有害及無害廢棄物管理及目標與採取的措施 KPI A1.6 How hazardous and non-hazardous wastes are handled and objectives and steps taken to achieve them	P18
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A2 Use of resources	A2.3 能源使用效益目標及所採取的措施 KPI A2.3 Energy use efficiency target(s) and steps taken to achieve them	P21-22
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	A2.5 製成品所用包裝材料的總量及每生產單位占量 KPI A2.5 Total packaging material used for finished products and with reference to per unit produced	P21
A3 環境及天然 資源	一般披露 General disclosure	P19-20
A3 Environmental and Natural resources	A3.1 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。 A3.1 Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	P19

議題 Topics	绩效指标 KPIs	引用章節 / 說明 Cited Chapters/ Notes	
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A4 Climate change	對發行人產生影響的重大氣候相關事宜,及應對行動。 Significant climate-related issues which have impacted the issuer, and the actions taken to manage them.	P13-14	
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B2 Health and safety	B2.2 因工傷損失工作日數。 KPI B2.2 Lost days due to work injury.	P84	
-	B2.3 職業健康與安全措施及相關執行及監察方法 KPI B2.3 Occupational health and safety measures adopted, how they are implemented and monitored	P37	
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	B3.2 按性別及雇員類別劃分,每名雇員完成受訓的平均時數。 KPI B3.2 The average training hours completed per employee by gender and employee category	P29-30	
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議題 Topic		引用章節 / 說明 Cite chapter/ note
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	B5.2 聘用供應商的慣例,向其執行有關慣例的供應商數目以及有關慣例的執行 及監察方法。 KPI B5.2 Description of practices relating to engaging suppliers, number of suppliers where thepractices are being implemented, how they are implemented and monitored.	
B5 供應鏈管理	B5.3 描述有關識別供應鏈每個環節的環境及社會風險的慣例,以及相關執行及 監察方法。 KPI B5.3 Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored.	- P39-4
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B6 產品責任 B6 Product	B6.2 接獲關於產品及服務的投訴數目以及應對方法。 KPI B6.2 Number of products and service related complaints received and how they are dealt with.	P7
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	B6.4 描述品質檢定過程及產品回收程式。 KPI B6.4 Description of quality assurance process and recall procedures.	不适/ Not applicable
	B6.5 描述消費者資料保障及私隱政策,以及相關執行及監察方法。 KPI B6.5 Description of consumer data protection and privacy policies, and how they are implemented and monitored.	or produc
	一般披露 General disclosure	P6
B7 反貪汙 B7 Anti-	B7.1 於彙報期內對發行人或其雇員提出並已審結的貪污訴訟案件的數目及訴訟 結果。 KPI B7.1 Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases.	P
corruption	B7.2 描述防範措施及舉報程式,以及相關執行及監察方法。 KPI B7.2 Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored.	P6
	B7.3 描述向董事及員工提供的反貪汙培訓。 KPI B7.3 Description of anti-corruption training provided to directors and staff.	P6
社區 Communiti	es	
	一般披露 General disclosure	P41,P45,P4
B8 社區投資 B8 Community investment	B8.1 專注貢獻範圍 KPI B8.1 Focus areas of contribution	P4
	B8.2 在專注範圍所動用資源 KPI B8.2 Resources contributed	P8

意見反饋 **FEEDBACK FORM**

尊敬的讀者: Dear Readers:

您好!感謝閱讀《東方電氣環境、社會及管治報告(2022)》。我們非常重視並期望聆聽您對東方電氣環境、社會 及管治報告的反饋意見。您的意見和建議,是我們持續推進企業社會責任管理和實踐的重要依據。您可以複製、 填寫下錶,通過郵件、傳真反饋給我們,我們非常歡迎並由衷感謝您提出寶貴意見!

Thank you for reading our Environmental, Social and Governance (2022) Report. We highly value and are looking forward to receiving your feedback on our ESG report. Your suggestions and comments are valuable basis for us to continue to improve our quality of information disclosure on corporate social responsibility and to promote our corporate social responsibility management and practices. You can copy and fill in the following form, and feed it back to us by email or fax. We sincerely thank you for your valuable comments!

選擇題(請在相應的位置打"√")

Choice Questions (Please tick the corresponding option)

1. 您認為本報告是否能反映東方電氣對經濟、社會和環境的重大影響?

1.Do you think this report can reflect the significant impact of DEC on economy, society and environment?

是□一般□ 否□ Yes □ Fair □ No □

2. 您認為本報告識別出的利益相關方及其與東方電氣關係的分析是否準確、全面?

2. Do you think the analysis of the stakeholders identified in this report and their relationship with DEC is accurate and comprehensive?

是□一般□否□ Yes□Fair□No□

3. 您認為本報告披露的信息是否全面?

3. Do you think the information disclosed in this report is comprehensive?

是□一般□否□ Yes□Fair□No□

4. 您認為本報告披露的信息是否具有可讀性?

4. Do you think the information disclosed in this report is readable?

是□一般□否□ Yes□Fair□No□

開放性問題

Open Questions

- 1. 您認為還有哪些您關注的信息未在本報告中披露?
- 1. What other information do you think you are concerned about is not disclosed in this report?

2. 您認為本報告還有哪些可以改進的地方?

2. What else do you think can be improved in this report?

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