

2019

環境、社會及管治報告 ESG

Environmental, Social and Governance (ESG) Report 2019



東方電氣股份有限公司
DONGFANG ELECTRIC CO., LTD.

關於本報告

ABOUT THE REPORT

本公司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。

本報告是東方電氣股份有限公司及其附屬公司（“本公司”、“東方電氣”）根據《香港聯合交易所有限公司證券上市規則》（“上市規則”）附錄二十七所載之《環境、社會及管治報告指引》（“ESG 報告指引”）之要求而編制，本報告之涵蓋期間為2019年1月1日至2019年12月31日，部分內容對以往的相關活動進行了簡要的回顧。同時，本公司考慮到主要經營地在中國大陸，亦有選擇性地參考了《中國企業社會責任報告編寫指南(CASS-CSR4.0)》。

本報告中關於政策和社會範疇的數據包括本公司全部業務，環境範疇的數據業已涵蓋了本公司主要業務活動和主要經營地。本報告數據來源于本公司的內部文件和相關統計資料。

本公司成立ESG工作小組（“工作小組”），收集相關數據及編制ESG報告。工作小組定期向董事匯報，協助評估及識別本公司于ESG層面的風險管理以及其內部監控系統是否合適及有效。工作小組檢討本公司的ESG表現，包括環境、勞工待遇及涉及ESG的其他層面信息。董事會為ESG策略定下基調，並負責確保合規有效的風險管理制度及內部監控體系運行。

本公司秉承“求實、創新、人和、圖強”的企業精神，歷經60餘年的發展，已成為全球最大的發電設備供應商和電站工程總承包商之一。截至2019年底，公司累計生產發電設備已超過5.64億千瓦，繼續在全球同行業中保持領先地位。本公司具備大型水電、火電、核電、氣電、風電及太陽能發電設備的開發、設計、制造、銷售、設備供應及電站工程總承包能力。可批量研制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、電力電子與控制系統、新能源電池及儲能系統、智能裝備等產品。

本公司一直秉承“共創價值、共享成功”的宗旨，以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為己任，為客戶提供更優質的產品及服務。作為一家具有責任心及遠見的企業，本公司認真遵守《上市規則》附錄十四《企業管治守則》及《企業管治報告》的規定，通過優化營運管治、環境保護、培養人才和社區投資等方面的措施，為股東和潛在投資者創造價值，推動公司可持續發展，履行環境友好策略，肩負社會責任，推動人才持續成長。同時，本公司積極完善公司法人治理結構，規範公司運作，為建設更美好的和諧社會環境而奮鬥。

The Board of Directors and all directors of the Company warrant that there is no false record, misleading statement or major omission in the Report, and agree to assume joint and several liability for the authenticity, accuracy and completeness of the Report.

The Report is prepared by Dongfang Electric Co., Ltd. and its affiliates (“the Company” or “DEC”) in accordance with the requirements of the Environmental, Social and Governance Reporting Guide (“ESG Guide”) set forth in Appendix 27 to the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited (“Listing Rules”). It covers the period from January 1, 2019 to December 31, 2019, and includes a brief review of previous related activities. Considering that the principle place of business is in Chinese Mainland, we also make selective reference to the Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-CSR4.0).

In the Report, the policy data and social data cover all businesses of the Company, and the environmental data covers the Company’s main business activities and principle place of business. The data are sourced from the Company’s internal documents and relevant statistical information.

The Company has set up an ESG Task Force (“Task Force”) to collect relevant data and prepare ESG reports. The Task Force is responsible for regularly reporting to the directors and assisting in evaluating and identifying the Company’s risk management at ESG level and whether the Company’s internal control system is appropriate and effective; reviewing the Company’s performance in ESG, including environment, labor treatment and other information related to ESG. The board is responsible for setting the tone for the Company’s ESG strategy and ensuring the compliance and effectiveness of the risk management system and internal control system.

The Company has always been adhering to the enterprise spirit of “being realistic, innovative, harmonious and strong”. After more than 60 years of development, the Company has become one of the world’s largest power generation equipment suppliers and general contractors of power station projects. By the end of 2019, the Company had achieved an accumulated output of 564GW of power generation equipment, continuing to lead the world in the industry. The Company has the ability to develop, design, manufacture, sell and supply large-scale hydropower, thermal power, nuclear power, gas power, wind power and solar power generation equipment, and to general-contract power station projects. Besides, the Company can batch develop 1000MW hydro-generator units, 1350MW ultra-supercritical thermal power units, 1000MW-1750MW nuclear power units, heavy gas turbines, a whole series of direct-driven and double-fed wind turbine units, high-efficiency solar power stations, hydrogen passenger cars, large-scale environmental protection and water treatment equipment, power electronics and control systems, new-energy battery and energy storage systems, intelligent equipment, etc.

Upholding the tenet of “co-creating value and sharing success”, the Company has been committed to developing itself into a world-class enterprise with global competitiveness, driving the economic development of China and the world with green power and providing customers with better products and services. As a responsible and far-sighted enterprise, the Company has conscientiously followed the provisions of Appendix 14 “Corporate Governance Code” and “Corporate Governance Reporting” to the Listing Rules, and created value for shareholders and potential investors, promoted sustainable development, fulfilled environmentally friendly strategies, shouldered social responsibilities and promoted sustainable growth of talents by operation governance improvement, environmental protection, talent training, community investment and other measures. Meanwhile, the Company has actively improved the corporate governance structure, standardized operation and strived for a better harmonious social environment.

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環境

Environmental Reporting

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排放物 Emissions

本公司嚴格遵守《環境保護法》《水污染防治法》《大氣污染防治法》《固體廢物污染環境防治法》，落實環境保護企業主體責任，定期開展環境污染風險排查，有效運行環保設備設施，合規處置危險廢棄物。2019年，各類污染物達標排放且總量呈下降趨勢，未發生突發環境事件，未發生環境保護重大違法違規事件。

In strict accordance with the Environmental Protection Law, Water Pollution Prevention and Control Law, Air Pollution Prevention and Control Law and Law on the Prevention and Control of Environmental Pollution by Solid Wastes, the Company has fulfilled its main responsibility for environmental protection, regularly carried out environmental pollution risk investigation, effectively operated environmental protection equipment and facilities, and lawfully disposed of hazardous wastes. In 2019, the Company discharged all pollutants in line with relevant emission standards and showed a downward trend in total emissions. There was no emergent environmental incident or major violation in environmental protection.

東方電氣2019年污染物排放情況 Pollutant Emissions by DEC in 2019

排放物類型 Emission type	排放物名稱 Emission name	單位 Unit	2019年數量 Qty. in 2019	2018年數量 Qty. in 2018
廢氣排放 Exhaust emission	二氧化硫 Sulfur dioxide	噸 Ton	208.4	214
	氮氧化物 Nitric oxide	噸 Ton	370.3	401
溫室氣體排放 Greenhouse gas emission	二氧化碳 Carbon dioxide	噸 Ton	264696	233108
	密度（排放量/營業收入） Density (emissions/operating income)	噸/萬元 Ton per ten thousand Yuan	0.0806	0.0759
廢水排放 Wastewater emission	COD	噸 Ton	381	411.6
	氨氮 Ammonia nitrogen	噸 Ton	88.9	94
廢棄物產生 Waste generation	危險廢棄物 Hazardous wastes	噸 Ton	2995.5	3583.5
	密度（排放量/營業收入） Density (emissions/operating income)	噸/萬元 Ton per ten thousand Yuan	0.0009	0.0011
	一般廢棄物 General wastes	噸 Ton	31601	31948
	密度（排放量/營業收入） Density (emissions/operating income)	噸/萬元 Ton per ten thousand Yuan	0.0096	0.0104

資源使用

Resource utilization

本公司嚴格遵守《節約能源法》，組織開展能源評審，分析評價能源消耗和能源利用狀況，識別主要能源使用及能源績效參數，制定并實施相關措施計劃。完善能源管理相關制度，進一步規範數據監測、統計等基礎工作。組織開展能源節約與生態環境保護新報表體系宣貫培訓，完善統計報表，建立能源節約與生態環境保護信息化報表系統。加強能源巡查巡檢及非生產性能耗管控，積極從工藝改進、技術改造、節能產品推廣及生產管控等多方面開展節能工作，進一步提升能源利用效率。

The Company has strictly followed the Energy Conservation Law, organized and carried out energy review, analyzed and evaluated energy consumption and utilization, identified main energy utilization and energy performance parameters, and formulated and implemented relevant measures and plans; improved relevant energy management systems, and further standardized basic work such as data monitoring and statistics; carried out the publicity and training of the new energy conservation and ecological environmental protection reporting system, improved statistical reports, and established an energy conservation and ecological environmental protection information reporting system; stepped up the patrol inspection of energy sources and the control of non-productive energy consumption, advanced energy conservation in several aspects, including process improvement, technological transformation, energy-saving product promotion and production control, and further raised energy efficiency.



資源使用 Resource utilization

東方電氣2019年能耗情況 Energy Consumption by DEC in 2019

名稱 Name	單位 Unit	2019年數量 Qty. in 2019	2018年數量 Qty. in 2018
綜合能耗 Comprehensive energy consumption	噸標煤 TCE	102153	98200
萬元營業收入綜合能耗 Comprehensive energy consumption per ten thousand Yuan of operating income	噸標煤/萬元 TCE	0.0349	0.0346
電力 Electricity	萬千瓦時 10,000 KWH	35826.5	28362
天然氣 Natural gas	萬立方米 10,000 m ³	3856.1	4173
耗水量 Water	萬噸 10,000 tons	389.6	426.7
萬元營業收入耗水量 Water consumption per ten thousand Yuan of operating income	噸/萬元 Ton	1.1863	1.3896

東方電氣2019年包裝材料使用情況 Packaging Materials Used by DEC in 2019

項目 Item	包裝材料類型 Type	單位 Unit	2019年數量 Qty. in 2019	2018年數量 Qty. in 2018
包裝材料 Packaging materials	木箱 Wooden case	噸 Ton	4616	5449
	紙箱 Carton	噸 Ton	125	122
	塑料 Plastics	噸 Ton	332	283
	槽鋼 Steel channel	噸 Ton	3732	3627
	其他材料 Other materials	噸 Ton	56	53
總計 Total	—	噸 Ton	8861	9534
密度 (重量/營業收入) Density (weight/operating income)	—	噸/萬元 Ton per ten thousand Yuan	0.0027	0.0031

環境及天然資源 Environment and natural resources

本公司嚴格遵守《環境保護法》《節約能源法》等法律法規，認真落實能源節約與生態環境保護企業責任，完善各級能源節約與生態環境保護組織管理體系，強化分級管理及目標指標考核，將能源節約與生態環境保護目標指標納入經營業績考核，目標考核結果作為子公司領導人員綜合考核評價的重要內容。

本公司按照環境管理體系、能源管理體系要求，識別重要環境因素和主要能源使用因素，完善環境風險控制措施，定期開展環境污染風險排查整治，嚴格執行建設項目環境影響評價制度，落實污染防治設施“三同時”要求。建立環境自行監測方案，實施監測並及時公布監測結果，加強環保設備設施的維護管理，有效運行環保設備設施，各類污染物達標排放。組織開展能源評審，分析評價能源消耗、能源利用狀況及能源績效參數，制定並實施相關措施計劃，不斷提升能源利用效率。

本公司積極利用節能宣傳周和全國低碳日活動，以“綠色發展，節能先行”及“踐行低碳和節能是第一能源理念，推進企業綠色發展”為活動主題，開展了形式多樣的主題宣傳教育活動，從多角度普及節能環保、綠色發展相關理念和知識，營造了崇尚節約、綠色發展的良好企業氛圍。

In strict accordance with the Environmental Protection Law, the Energy Conservation Law and other applicable laws and regulations, the Company has earnestly fulfilled its corporate responsibility for energy conservation and ecological environmental protection, perfected the organization and management systems for energy conservation and ecological environmental protection at all levels, strengthened hierarchical management and objective and target assessment, integrated energy conservation and ecological environmental protection into the business performance assessment, and taken the objective and target assessment results as an important part of the comprehensive performance evaluation for the leaders of subsidiaries.

As per the requirements of the environmental management system and energy management system, the Company has identified important environmental factors and major energy use factors, improved environmental risk control measures, regularly carried out environmental pollution risk investigation and management, strictly implemented the environmental impact assessment system for construction projects, and put the “three simultaneities” requirements for pollution prevention and control facilities into action; developed an environmental self-monitoring plan, monitored the environment and published the monitoring results in timely manner, strengthened the maintenance and management of environmental protection equipment and facilities, maintained effective operation of environmental protection equipment and facilities, and discharged various pollutants according to relevant standards; organized and carried out energy review, analyzed and evaluated energy consumption, energy utilization and energy performance parameters, formulated and implemented relevant measures and plans, and continuously improved energy efficiency.

The Company has carried out various publicity and education activities on the themes of “green development starting from energy conservation” and “practicing the concept of low carbon and energy conservation and promoting the green development of enterprises” by taking full use of the activities of “Energy Efficiency Promotion Week” and “National Low-carbon Day” to popularize the concepts and knowledge related to energy conservation, environmental protection and green development in various aspects and create a good corporate atmosphere advocating energy conservation and green development.



社會 Social Reporting

- 僱傭
Employment
- 健康與安全
Health and safety
- 發展及培訓
Development and training
- 勞工準則
Labor rules
- 供應鏈管理
Supply chain management
- 產品責任
Product liability
- 反貪污
Anti-corruption
- 社區投資
Community investment



僱傭 Employment

本公司堅持“以人為本”理念，充分發揮員工潛力，助力員工成長，相關人力資源管理政策已發文發布，涵蓋招聘、培訓、晉升、薪酬、工時和休息休假等。在招聘和晉升過程中，以員工品德、學識、能力及崗位要求為標準，為員工提供平等機會，員工不會因種族、性別、年齡、國籍、宗教信仰等因素受到不平等對待，致力打造公平、全面、多元化及平等的企業文化。

本公司在制定相關政策時，嚴格遵守相關勞動法律法規，保證員工依法享有勞動權利和履行勞動義務，保持工作崗位相對穩定，積極促進充分就業，切實履行社會責任。避免在正常經營情況下批量辭退員工，增加社會負擔。2019年，本公司并未發現存在任何有關勞動用工的法律及法規的重大違規情況，在北京大學社會調查中心、《哈佛商業評論》、中國勞動經濟學會及智聯招聘聯合舉辦的“中國年度最佳雇主”頒獎典禮上，本公司榮獲2019年度“中國年度最具社會責任雇主”獎。



Adhering to the “people-oriented” concept, the Company has tapped the full potential of employees, helped employee growth and published relevant human resource management policies, covering recruitment, training, promotion, salary, working hour, rest & vacation, etc. In terms of employee recruitment and promotion, the Company has provided employees with equal opportunities based on their moral character, knowledge, ability and job requirements, and prevented unequal treatment on the excuse of race, gender, age, nationality, religious belief or any other factor, thus striving to build a fair, comprehensive, diversified and equal corporate culture.

The Company has formulated relevant policies in strict accordance with relevant labor laws and regulations, caused employees to enjoy labor rights and fulfill labor obligations according to law, maintained relatively stable work positions, actively promoted full employment, earnestly fulfilled social responsibilities, and avoided dismissing employees in batches under normal operation which may increase social burden. In 2019, the Company did not have any major violation of laws and regulations on labor and employment. At the “China’s Best Employer Annual Award Ceremony” jointly organized by the Institute of Social Science Survey of Peking University, Harvard Business Review, China Association of Labor Economics and Zhaopin.com, the Company won the “China’s Best Employer Award 2019”.

東方電氣員工性別比例及年齡組別情況 Gender Ratio and Age Group of DEC’s Employees

年齡組別 Age	2019年末在崗職工人數 Number of on-post employees at the end of 2019		其中： Including: 女性 female employees	2018年末在崗職工人數 Number of on-post employees at the end of 2018		其中： Including: 女性 female employees
	人數 Number	占在崗職工比例 Proportion in on-post employees		人數 Number	占在崗職工比例 Proportion in on-post employees	
35歲以下 Under 35	5970	34.39%	3145 (18.12%)	6367	36.16%	3225 (18.32%)
36–40歲 36–40	2764	15.92%		2634	14.96%	
41–45歲 41–45	3145	18.12%		3760	21.35%	
46–50歲 46–50	3690	21.26%		3377	19.18%	
51–55歲 51–55	1229	7.08%		1336	7.59%	
55歲以上 Above 55	562	3.24%		134	0.76%	
總計 Total	17360	100.00%		17608	100.00%	

健康與安全 Health and safety



本公司2019年度工亡人數0人，千人死亡率為0。未發生重傷及以上生產安全事故。工傷損失工作日190天，較上年減少6843天。工傷損失工作日參照《企業職工傷亡事故分類標準》（GB 6441）、《事故傷害損失工作日標準》（GB/T 15499）的標準進行統計。

本公司嚴格遵守《安全生產法》《消防法》等法律法規要求，認真落實企業安全生產主體責任，健全完善安全生產責任制及安全管理制度。各級安全生產委員會定期組織召開安全生產專題會議，研究、部署安全生產重點工作，對安全生產責任落實情況及重點工作任務的執行情況進行監督檢查。

本公司建立重要危險源風險評估及分級方法，科學評判較大安全風險，完善重要危險源辨識標準、辨識範圍，開展風險評估，發布重要危險源清單。積極開展隱患排查整治，並從基礎管理、作業環境、設備設施等方面進行持續改進，不斷提升本質安全。

本公司按照《職業病防治法》等要求，定期進行職業病危害因素監測和現狀評價，完善職業健康體檢項目，組織開展職業健康體檢，全年完成4692名接觸職業病危害因素作業人員的職業健康體檢，職業健康應體檢率100%。

本公司認真落實企業安全生產教育培訓主體責任，以崗位安全操作規程、職業健康防護、消防安全、輻射安全與防護等為培訓重點，全年共開展各類安全教育培訓27100餘人次。

本公司按照《生產安全事故應急條例》等要求，完善應急預案，儲備應急物資，加強應急預案培訓和演練，全年開展各類應急演練120餘次，進一步提升應急處置能力。

In 2019, the number of work-related deaths of the Company was 0, with a death rate per 1,000 people of 0. There was no major injury or above production safety accident. The lost workdays due to work-related injury were 190 days, 6843 days less than the previous year. The number of lost workdays due to work-related injury was calculated according to the standards of the Classification for Casualty Accidents of Enterprise Staff and Workers (GB 6441) and the Lost Workdays Standard for Injury Accident (GB/T 15499).

In strict accordance with the Work Safety Law, the Fire Control Law and other relevant laws and regulations, the Company has earnestly fulfilled the main responsibility for work safety and improved the work safety responsibility system and safety management system. The work safety committees at all levels have held regular special meetings on work safety to study and arrange the key work on work safety, and supervised and inspected the fulfillment of work safety responsibilities and key work tasks.

The Company has developed the risk assessment and classification methods for major hazards, evaluated great safety risks in a scientific manner, improved the identification standards and scope of major hazards, conducted risk assessment and issued a list of major hazards; actively carried out risk investigation and management, performed continuous improvement from the aspects of basic management, operating environment and facilities, and continuously improved the intrinsic safety.

As per the Law on the Prevention and Treatment of Occupational Diseases and other relevant laws and regulations, the Company has regularly monitored and evaluated the occupational hazard factors, improved the occupational health examination items, and carried out occupational health examination. In 2019, the Company completed the occupational health examination of 4,692 workers exposed to occupational hazard factors, with an occupational health examination rate of 100%.

The Company has earnestly fulfilled the main responsibility for work safety education and training, focusing on post safety operation regulations, occupation health protection, fire safety, radiation safety and protection, etc. In 2019, the Company carried out various safety education and training for more than 27,100 person-times.

In accordance with the Regulations on Emergency Responses to Work Safety Accidents and other relevant laws and regulations, the Company has improved the contingency plan, reserved sufficient emergency supplies and strengthened the training and drills of the contingency plan. In 2019, the Company totally carried out more than 120 emergency drills, further raising the emergency response capacity.

發展及培訓

Development and training

本公司根據發展需要以及員工職業生涯規劃，不斷提高員工素質和工作能力，完善內部規章制度，注重創造價值及滿足客戶、人才及社會需求的培訓策略。

本公司充分利用內外培訓資源為員工舉辦各類培訓，包括新員工入職培訓、上崗培訓、業務骨幹培訓、資格取證培訓、崗位技能提升培訓、專題培訓等。強化培訓計劃管理，以服務公司戰略、牽引業務發展為導向，首次系統編制面向公司重點人才群體的年度統一培訓計劃71項。2019年開展首期青年科技拔尖人才調訓班、首期青年管理骨幹人才調訓班、首期高技能人才提升培訓班、精益人才專項培訓、2019年入職高校畢業生統一培訓。

本公司不斷完善培訓管理機制，搭建培訓信息管理平臺，從線上線下兩方面持續推動員工培訓體系優化調整，完成在綫學習培訓平臺建設，實現從培訓計劃的發布、培訓項目課件下載以及培訓實施後的效果評估等全過程的培訓信息化管理。





Based on the development needs and staff career planning, the Company has continuously enhanced the quality and competence of employees, improved the internal rules and regulations, and focused on the training strategies that can create value and meet the needs of customers, talents and society.

The Company has organized various training activities for employees by making full use of internal and external training resource, including induction training, business backbone training, qualification certification training, job skills training, special training, etc. In 2019, the Company systematically developed 71 annual unified training plans for key talents for the first time, to strengthen the management of training plans, serve the strategies and drive business development. Specifically, the Company launched the first training course for top-notch young scientific and technological talents, the first training course for key young management talents, the first training course for high-skilled talents, the special training for lean talents and the unified training course for university graduates recruited in 2019.

The Company has continuously improved the training management mechanism, set up a training information management platform, promoted the optimization and adjustment of the employee training system through both online and offline channels, built an online learning and training platform, and realized the training information management of the whole process from the release of training plans and the downloading of training materials to the post-training effect evaluation.

東方電氣2019年各類員工培訓情況 DEC's Employee Training in 2019

人員類別 Employee type	2019年培訓人次 Person-times in 2019	其中：女性 Including: female employees	2018年培訓人次 Person-times in 2018	其中：女性 Including: female employees
經營管理人員 Management personnel	28121		28556	
科技人員 Scientific and technical personnel	32147	20951	22004	17139
技能操作人員 Skilled operators	56127		50259	
總計 Total	116395		100819	
年人均培訓次數 Training times per capita per year	6.70次	6.66次	5.75次	5.31次

勞工準則 Labor rules

本公司嚴禁使用童工和强迫勞動，未有歧視員工、强制勞工或使用童工等違法用工情况。嚴格貫徹實施《中華人民共和國勞動法》《中華人民共和國勞動合同法》《中華人民共和國殘疾人保障法》以及相關法律法規。2019年，新制定了《外籍員工管理辦法》《職能部門員工職業生涯管理辦法（試行）》《總部過渡房安置管理辦法》《總部新招錄應屆大學畢業生安家費管理辦法》等制度，努力為員工創造良好工作環境的同時，防範勞動用工風險。在員工招聘過程中，認真核實應聘人員情况及應聘資料并嚴格保密。本公司勞動用工制度健全，管理體系規範，堅持依靠員工辦企業，引導廣大員工參與民主管理，完善員工激勵關懷幫扶機制，不斷增強員工的獲得感、幸福感和安全感。

The Company has always been forbidden child labor and forced labor, prevented discrimination against employees, forced major, use of child labor and other illegal employment activities, and strictly implemented the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, the Law of the People's Republic of China on the Protection of Disabled Persons and other relevant laws and regulations. In 2019, the Company formulated new rules and regulations such as the Management Measures for Foreign Employees, Management Measures for the Career of Employees in Functional Departments (for Trial Implementation), Management Measures for Makeshift Shelters of the Headquarters, and Management Measures for Settling-in Allowances for Newly Recruited University Graduates in Headquarters to create a good working environment for employees and prevent labor and employment risks. In terms of employee recruitment, the Company carefully reviewed and kept in confidence the information and application materials of candidates. In addition, the Company built a sound labor and employment system and a standardized management system, relied on employees to run business, guided employees to participate in democratic management, improved the incentive, care and support mechanism for employees, and continuously enhanced employees' sense of gain, happiness and security.



供應鏈管理 Supply chain management

本公司嚴格執行《中華人民共和國招投標法》《中華人民共和國招投標法實施條例》等法律法規，制訂實施了《採購管理制度》《招標管理辦法》《供應商管理辦法》《採購監督管理辦法》等制度，建立了良好的供應鏈管理制度體系，規範招標及採購行為，保證供應鏈管理工作在公開、公平、公正的原則下依法合規進行。

本公司按照現代供應鏈管理理念和產品全生命周期管理要求，通過供應鏈管理系統平臺（SRM系統）對採購、招標和合格供應商准入及業績評價等活動實現全流程管理，對購買的原材料從投入使用、移交、質保進行全面管控，從供應鏈全流程切實提高產品質量和服務水平，努力為客戶和社會提供優質安全的產品和服務。

本公司高度重視與供應商的關係，致力於與廣大優質供應商建立長期良好戰略合作關係。目前，與本公司有合作關係的合格供應商近一萬家，其中，中國境內供應商九千餘家，中國境外供應商四百餘家。

本公司重視對供應商激勵機制建設，實施供應商動態業績評價，對評價結果優秀的供應商在同等條件下優先建立長期、穩定的合作夥伴關係，對有違規違紀行為和重大質量問題的供應商同時納入黑名單管理。本公司還推行雙贏模式，不定期開展供應商培訓活動，對長期合作的供應商在技術工藝和質量管控能力建設方面給予指導和支持。

In accordance with the Bidding Law of the People's Republic of China, the Regulations on the Implementation of the Bidding Law of the People's Republic of Law and other relevant laws and regulations, the Company has formulated and implemented such rules and regulations as the Procurement Management Rules, Bidding Management Measures, Supplier Management Measures and Procurement Supervision Management Measures, established a good supply chain management system, standardized bidding and procurement activities, and guaranteed supply chain management according to laws and regulations under the principles of openness, fairness and impartiality.

According to the modern concept of supply chain management and the requirements of full-lifecycle product management, the Company has performed full-process management for procurement, bidding, qualified supplier admittance, performance evaluation and other activities through the supply chain management system platform (SRM system), comprehensively controlled the use, handover and quality assurance of purchased raw materials, improved the product quality and service level through the entire supply chain, and strived to provide high-quality and safe products and services for customers and the society.

The Company has always been attaching great importance to the relationship with suppliers and committed to establishing long-term strategic cooperation with high-quality suppliers. At present, the Company has established successful cooperation with nearly 10,000 qualified suppliers, including more than 9,000 domestic suppliers and more than 400 overseas suppliers.

The Company has attached great importance to the building of a supplier incentive mechanism, carried out dynamic performance evaluation of suppliers, given priority to establishing long-term and stable partnership with excellent suppliers under the same conditions, and blacklisted suppliers with violations of rules and disciplines or major quality problems. In addition, the Company has promoted a win-win model and carried out irregular supplier training activities to give guidance and support to long-term cooperative suppliers in technical process and quality control capacity building.



產品責任 Product liability



本公司始終以客戶滿意為目標，不斷加強“誠信透明”質量文化的建設，踐行“遵章守規、一次做好、精益求精、客戶滿意”的質量方針，全面開展質量管理體系有效性提升工作。2019年重大質量事故和重大客戶投訴均為零，質量目標全面實現，運營質量明顯提升，發展動力明顯增強。風電產業市場占有率提升7個百分點，現代制造服務業營業收入同比增長13.9%。新產品新技術加快推出，東方電氣首批300Mvar調相機、全球最高參數再熱垃圾發電汽輪機、首臺出口百萬煤電鍋爐等新產品實現順利投運、東方電氣iPACOM成為國內首個獲得權威機構技術評估認證的風電智慧系統。

本公司為客戶提供產品全生命周期服務，堅持“24小時服務精神”，牢固樹立市場服務意識，尊重客戶，理解客戶，及時滿足客戶需求，多措并舉，持續提升客戶滿意度。積極推動電站服務與互聯網技術深度融合，“東方E購”平臺獲選中央企業電子商務聯盟2018年度“電商十大新銳產品”。開創了電站服務產業“互聯網+服務”新模式。2019年，東方電氣與華電集團聯合召開“火電機組安全、經濟、綠色、靈活運行研討會”，構建起雙方技術管理人員全面交流的溝通平臺，提升溝通效率。通過在役機組技術升級改造，全面提升客戶經濟效益，得到客戶廣泛好評。特別在水電改造市場捷報頻傳，先後中標多個水電機組改造合同。

本公司從設計研發、原材料採購、生產制造、安裝、調試、運行維護到售後服務，在產品全生命周期建立了一整套質量管理制度，針對不同產品設置針對性的質量檢驗方法及質量檢驗流程，禁止制造、傳遞、接受不合格產品，在產品實現全過程嚴格遵守產品合同，保持與客戶的良好溝通，竭力滿足客戶明示的以及隱含的產品質量需求。本公司及附屬公司針對產品質量問題制定了相應處理流程，保證

在規定時間內解決產品問題，有效應對客戶投訴，在每一個環節實現對“客戶滿意”的追求。

本公司全面實施客戶財產管理，對顧客或供應商的實物財產和信息資產進行建賬管理，若發生丟失、損壞、變質或其他異常情況，立刻記錄并向顧客或供應商報告。對顧客或供應商的知識產權、信息資產嚴格按照顧客或供應商的要求（如保密要求）進行保護，防止誤用、濫用、超許可範圍使用或泄露給第三方。

本公司在全球投放的廣告、宣傳品及產品標識均嚴守當地法律法規要求及本公司的相關規定，始終以客戶利益至上，向客戶及社會傳遞正面信息，嚴禁發布暴力、色情、仇恨、迷信等負面信息。





With the goal of customer satisfaction, the Company has continuously strengthened the development of the quality culture of “honesty and transparency”, practiced the quality policy of “striving for compliance with laws, one-and-done, constant improvement and customer satisfaction”, and comprehensively improved the effectiveness of the quality management system. In 2019, the Company realized zero major quality accident and zero major customer complaint, fully achieved the quality objectives, significantly improved the operation quality and greatly enhanced the driving force for development; increased the market share in the wind power industry by 7% and achieved a year-on-year growth of 13.9% respectively in the operating income of the modern manufacturing service industry; accelerated the introduction of new products and new technologies. For example, the first batch of 300Mvar phase modifiers, the world-class reheat waste power generation turbines and the first exported 1000MW coal-fired boiler have been successfully put into operation, and DEC iPACOM has become the first intelligent wind power system in China obtaining the technical evaluation and certification from an authoritative organization.

The Company has provided customers with full-lifecycle services of products, adhered to the spirit of “24h service”, firmly established the awareness of market service, respected and understood customers, met customer needs in time, taken multiple measures to continuously improve customer satisfaction, and actively promoted the in-depth integration of power station services and Internet technologies. DFEGSC.COM was selected as the “Top Ten New E-commerce Products” by China Central Enterprise E-commerce Alliance in 2018. The Company has also created a new model of “Internet plus service” for the power station service industry. In 2019, DEC and China Huadian Corporation Ltd. jointly held a “Seminar on Safe, Economical, Green and Flexible Operation of Thermal Power Units” to build an integrated communication platform for their technical and management personnel and improve communication efficiency. Meanwhile, DEC significantly improved the economic benefits of customers by technical upgrading and transformation of in-service units, which has been widely appraised by customers. Especially in the hydropower renovation market, DEC made a lot of achievements. Several hydropower unit renovation contracts have been awarded.

The Company has established a set of quality management system covering the whole product life cycle from design, R&D, raw material procurement,

production and manufacturing, installation, debugging, operation and maintenance to after-sales service. It has developed targeted quality inspection methods and processes for different products, prohibited the manufacture, delivery and acceptance of nonconforming products, strictly abided by product contracts throughout the process realization process, maintained good communication with customers, and made every endeavor to meet the express and implied product quality requirements of customers. Besides, the Company and its affiliates have worked out effective procedures for product quality problems to solve product problems within the specified time limit, effectively deal with customer complaints and realize the pursuit of “customer satisfaction” in every link.

The Company has performed overall management of customer property, and set up accounts for the physical property and information assets of customers and suppliers. All and any losses, damages, deteriorations and other abnormalities have been immediately recorded and reported to relevant customers or suppliers. In addition, the Company has well protected the intellectual property rights and information assets of customers and suppliers as per their requirements (if any) to prevent misuse, abuse, out-of-scope use and disclosure to third parties.

All advertisements, propaganda materials and product logos placed by the Company all over the world comply with local laws and regulations and the Company’s rules. The Company has always put the interests of customers first, delivered positive information to customers and the society, and prohibited negative information involving violence, pornography, hatred, superstition, etc.



反貪污 Anti-corruption

本公司對任何貪污、賄賂、欺詐及洗錢等違反法律、違背職業道德的行為零容忍。嚴格遵守《中華人民共和國刑法》和其他國家有關反貪腐、欺詐、洗錢等方面的法律規定，積極構建內控、合規管理體系，加強反腐倡廉制度建設，促進誠信合規經營。

目前本公司制定了一系列管理制度，以規範管理人員及職工廉潔從業：

- 《關於防止領導人員、關鍵崗位管理人員及親屬經商辦企業與集團公司利益衝突的管理辦法（試行）》
- 《關於對領導人員插手幹預重大事項進行記錄的規定（試行）》
- 《領導人員廉政檔案管理辦法》
- 《廉潔自律、廉潔從業教育培訓制度》

同時，本公司遵照《證券法》、上海證券交易所及香港聯合交易所上市規則制定嚴格企業管治機制，禁止任何資本市場上的欺詐行為。2019年度，本公司未發現任何因違反賄賂、勒索、欺詐及洗黑錢方面的法律法規而對本公司造成嚴重影響的情況。

Maintaining zero-tolerance for corruption, bribery, fraud, money laundering and other acts that violate laws or professional ethics, the Company has actively established an internal control and compliance management system, improved the anti-corruption system and promoted good-faith and compliant operation, in strict accordance with the Criminal Law of the People's Republic of China and other national laws and regulations on anti-corruption, fraud and money laundering.

At present, the Company has formulated a series of management rules to guarantee the honest practice of managers and employees:

- Management Measures for Preventing the Conflict of Interests between Enterprises Run by Leaders, Key Managers or their Families and Dongfeng Electric Corporation (for Trial Implementation)
- Provisions on Recording Leaders' Intervention in Major Issues (for Trial Implementation)
- Measures for the Management of Integrity Archives of Leaders
- Rules for Education and Training of Incorruptibility, Self-discipline and Professional Integrity

Meanwhile, the Company has formulated a strict corporate governance mechanism in accordance with the Securities Law and the listing rules of Shanghai Stock Exchange and the Stock Exchange of Hong Kong to prohibit all frauds in the capital market. In 2019, the Company found no violation of laws and regulations on bribery, extortion, fraud and money laundering that causes serious impact.

反貪污

ANTI-CORRUPTION

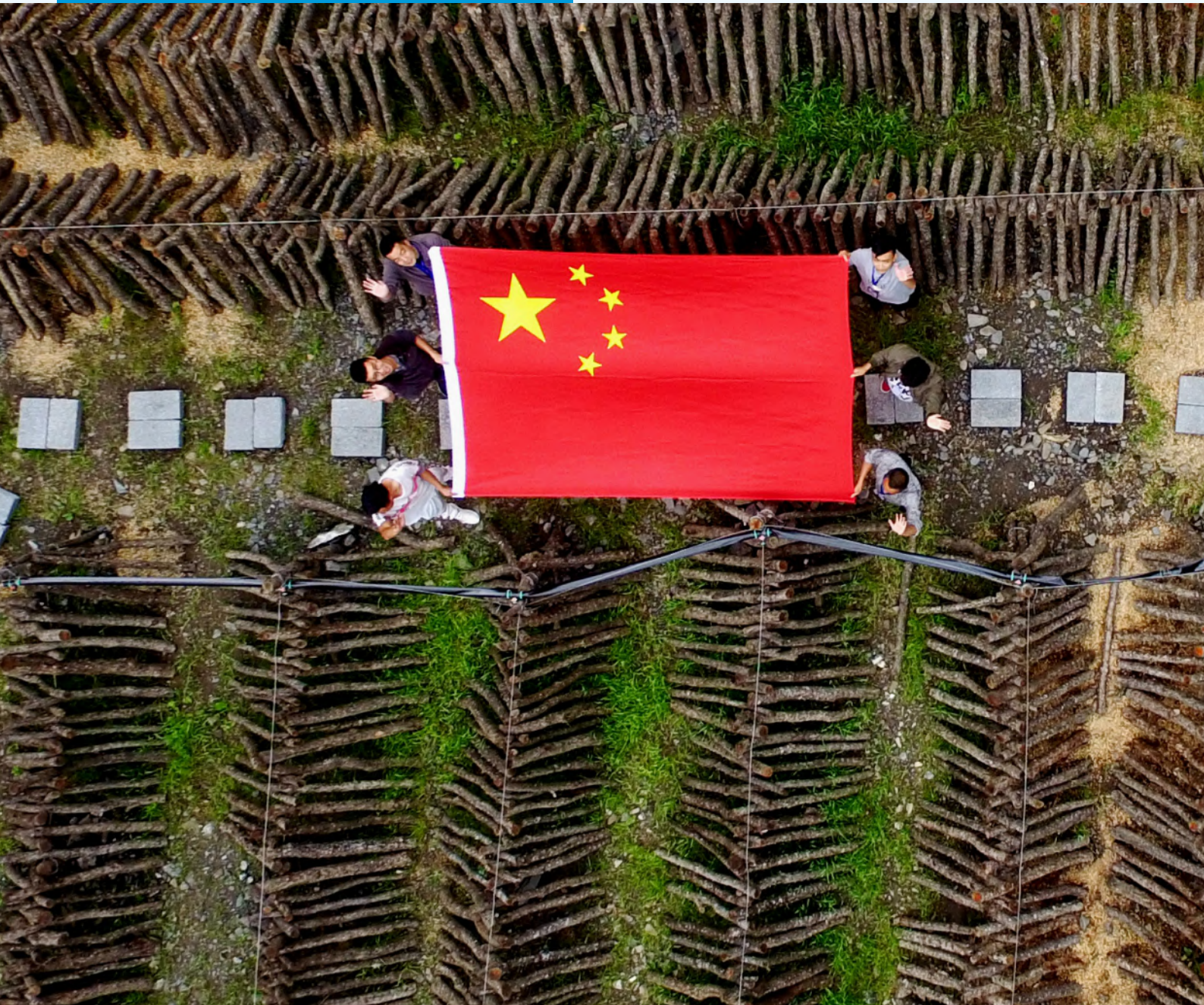
社區投資 Community investment

本公司積極履行社會責任，對山西省吉縣、四川省昭覺縣和四川省壤塘縣等地開展定點扶貧工作，扎實推進實施產業扶貧、教育扶貧、民生扶貧、就業扶貧、黨建扶貧，幫扶成效顯著。

2019年，本公司共派駐扶貧幹部16人，完成幫扶項目76個，直接投入幫扶資金2577萬元，以購代捐1091.6萬元，幫助銷售農產品1788.9萬元，為當地引進幫扶資金120萬元，幫助貧困縣培訓基層幹部125人、技術人員625人，幫助實現就業110人，子公司招聘9人。2019年，本公司通過扎實開展各項幫扶舉措，助力各定點幫扶縣共4943戶、22349人實現脫貧。

本公司自2009年開始啓動“開放日”活動，推進履責實踐、做好責任傳播、打造責任品牌。十年來，“開放日”活動經過不斷創新實踐與發展，兼收并蓄、博采衆長，探索出了獨具特色的“開放日”品牌。2019年策劃組織了11場主題“開放日”活動，近2000名企業職工、家屬和社會公眾參加了活動。

2019年，本公司面向國內重點高校以“樹動力報國志 做追夢東方人”為主題，開展暑期實踐活動。清華大學、上海交通大學、浙江大學、華中科技大學、西安交通大學、大連理工大學、重慶大學等多所國內著名高校共計超過160名師生相繼到本公司參觀實踐、訪問交流。





The Company has actively fulfilled its social responsibility and carried out targeted poverty alleviation in Jixian County in Shanxi Province, Zhaojue County in Sichuan Province and Rangtang County in Sichuan Province. It has achieved remarkable success in poverty alleviation by supporting industrial development, education, people's livelihood, employment and CPC party building.

In 2019, the Company totally dispatched 16 cadres for poverty alleviation, completed 76 support projects, directly invested RMB 25.77 million as support funds, purchased supplies worth RMB 10.916 million in lieu of donation, helped sell agricultural products worth RMB 17.889 million, attracted RMB 1.2 million support funds for local governments, assisted poor counties in training 125 grass-roots cadres and 625 technicians, and created 110 jobs (including 9 in subsidiaries). Throughout the year, the Company lifted 22,349 persons from 4,943 households in the targeted counties out of poverty by taking various supporting measures.



The Company has started the "Open Day" activity since 2009 to promote the fulfillment and spreading of responsibilities and create a responsible brand. Over the past ten years, the "Open Day" activity has explored a unique "Open Day" brand through continuous innovation, practice and development. In 2019, the Company carried out 11 themed "Open Day" activities, involving nearly 2,000 employees, employees' families and social people.

In 2019, the Company carried out a summer practice activity for key universities in China with the theme of "building up the motivation to serve the country as an oriental dream-seeker". More than 160 teachers and students from famous universities in China such as Tsinghua University, Shanghai Jiaotong University, Zhejiang University, Huazhong University of Science and Technology, Xi'an Jiaotong University, Dalian University of Technology and Chongqing University successively visited our Company for practice and exchange.



企業管治

Corporate governance

本公司嚴格按照《中華人民共和國公司法》、《中華人民共和國證券法》等有關規定，積極完善公司法人治理結構，規範公司運作。本公司董事會致力繼續提高企業管治的水平，並堅信良好的企業管治是公司業務長遠成功及可持續發展的關鍵之點。

報告期內，本公司全面遵守《香港聯合交易所上市規則》附錄十四《企業管治守則》及《企業管治報告》的規定，並在適當的情況下採納其中所載的建議最佳常規。為保障公司及股東利益及提升公司價值，本公司一直以來奉行良好的企業管治架構實務及程序。

董事會是本公司的最高管理機構，現由五名執行董事及三名獨立非執行董事組成。董事會堅守良好的企業管治原則並有明確分工，董事長負責管理及領導董事會，確保本公司維持強而有效的企業管治實務及程序。總裁負責本公司業務之日常管理運作，在董事會其他成員及其他高級管理層之協助下，緊密監控本公司之營運及財務業績，找出經營中不足之處，並作出所有必需及適當行動改善該等不足，其亦負責訂立本公司未來業務計劃及策略，待董事會批准。

董事會下設戰略發展委員會、風險管理委員會、薪酬與考核委員會、提名委員會、審計與審核委員會，為充分發揮委員會在公司治理方面職能奠定基礎。各委員會根據其所屬職權範圍，定期評估及審查其工作的有效性。

報告期內，本公司董事會嚴格遵守法律及監管規定方面的政策及常規，並以此制定及修訂公司規章制度，不斷完善企業管治政策及常規，持續關注董事及高級管理人員的培訓及持續專業發展，積極開展內部審查整改工作，以提高公司管治水平。

本公司會適時檢視管治守則，強化內部監控、完善風險防範與管理，確保符合最新的監管要求。有關本公司更詳盡的企業管治政策和程序及其他數據，請參閱本公司2019年年報內所載之企業管治報告。



In strict accordance with the Company Law of the People's Republic of China, the Securities Law of the People's Republic of China and other relevant laws and regulations, the Company has actively improved its corporate governance structure and standardized its operation. The Board of Directors has been committed to continuously improving the level of corporate governance and firmly believed that good corporate governance is the key to the long-term success and sustainable development of the Company's business.

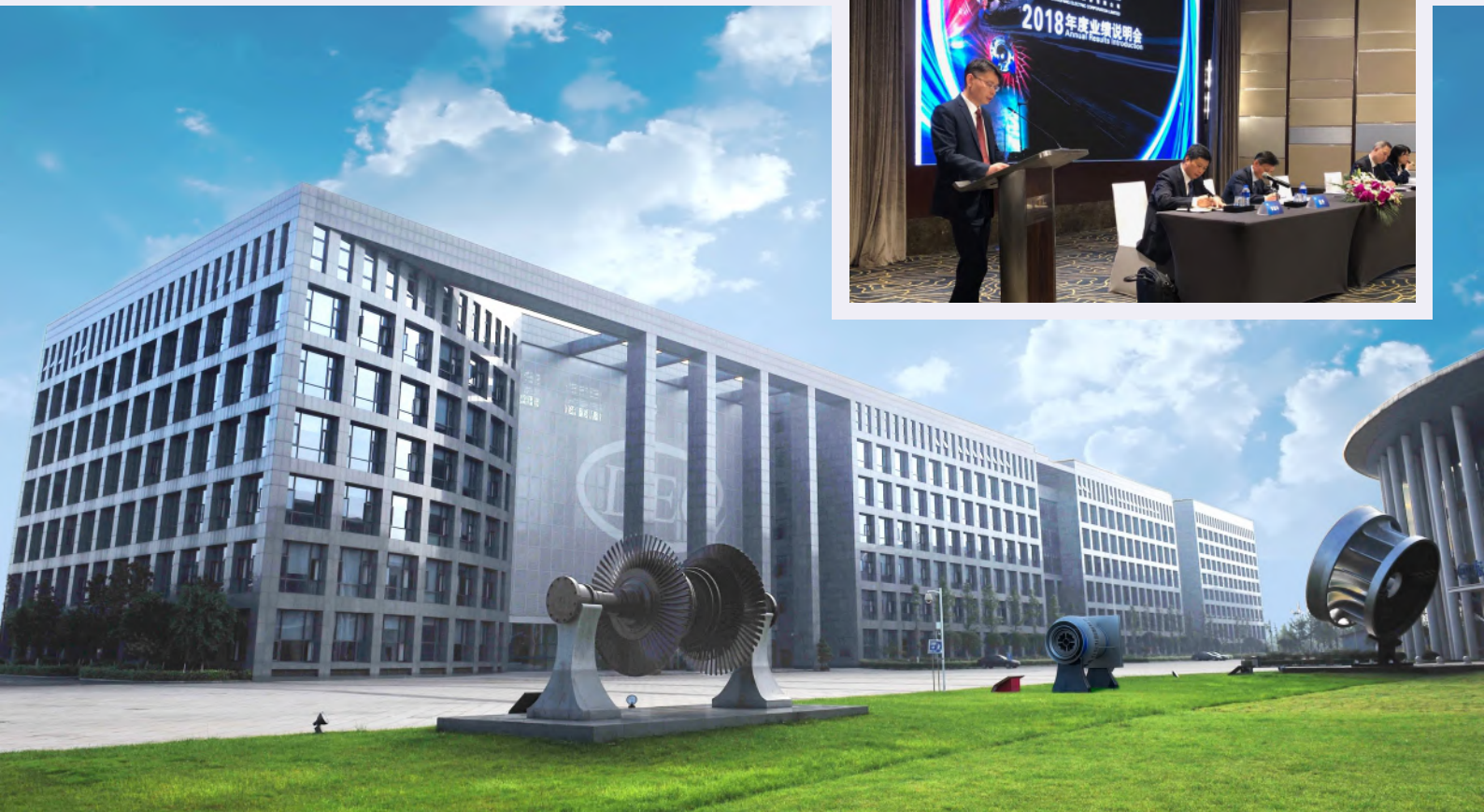
During the reporting period, the Company fully complied with the provisions of Appendix 14 "Corporate Governance Code" and "Corporate Governance Reporting" to the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited, and adopted the recommended best practices contained therein under right circumstances. In order to protect the interests of the Company and its shareholders and improve its value, the Company has always followed good corporate governance practices and procedures.

As the supreme power of the Company, the Board of Directors ("the Board") currently consists of five executive directors and three independent non-executive directors. The Board adheres to good corporate governance principles and has a clear division of labor. The chairman is responsible for managing and leading the Board to ensure strong and effective corporate governance practices and procedures of the Company. The president is responsible for the day-to-day management and operation of the Company. He should closely monitor the Company's operation and financial performance, find out the shortcomings in the operation and take all necessary and appropriate actions to overcome the shortcomings with the assistance of other board members and other senior executives, and formulate the Company's future business plans and strategies, which are subject to the approval of the Board.

The Board has set up a Strategic Development Committee, a Risk Management Committee, a Remuneration and Appraisal Committee, a Nomination Committee and an Audit and Review Committee to lay the foundation for giving full play to the functions of the committees in corporate governance. The committees regularly evaluate and review the effects of their respective work according to their terms of reference.

During the reporting period, the Board strictly abided by relevant policies and practices in laws and regulatory requirements and accordingly formulated and revised the Company's rules and regulations, continuously improved the Company's corporate governance policies and practices, paid sustained attention to the training and continuous professional development of directors and senior executives, and actively advanced internal review and rectification to improve the Company's corporate governance.

During the reporting period, the Company also reviewed the governance rules from time to time, strengthened internal control, improved risk prevention and management, and ensured compliance with the latest regulatory requirements. For more detailed corporate governance policies and procedures and other data, please refer to the corporate governance report contained in the 2019 Annual Report of the Company.





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