



China Electronics

Huada Technology Company Limited

中國電子華大科技有限公司

(Incorporated in the Cayman Islands and continued in Bermuda with limited liability)

(於開曼群島註冊成立及於百慕達繼續經營之有限公司)

(Stock Code 股份代號: 00085)

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2024
環境、社會及管治報告

Contents 目錄

Page
頁次

1.	About This Report	關於本報告	2
2.	ESG Management Statement from the Board	董事會的ESG管理聲明	3
3.	ESG Management	ESG管理	5
4.	Products and Services	產品及服務	12
5.	Employees	員工	22
6.	Compliance Operation	合規營運	31
7.	Environment	環境	35
8.	Community Investment	社區投資	42

1. ABOUT THIS REPORT

This report is the Environmental, Social and Governance Report issued by China Electronics Huada Technology Company Limited (the “Company”). It addresses the actions taken by and the achievements of the Company and its subsidiaries (the “Group”) in the aspects of environmental, social and governance (the “ESG”) issues. This report has been prepared with reference to the Environmental, Social and Governance Reporting Guide as set out in Appendix C2 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited.

1.1 Scope of the report

Organisational scope: the companies covered under this report included the Company, and its subsidiaries, CEC Huada Electronic Design Co., Ltd (“Huada Electronics”), Shanghai Huahong Integrated Circuit Co., Ltd and China Electronics Huada Technology (Shenzhen) Company Limited.

Reporting period: 1 January 2024 to 31 December 2024.

1.2 Data

Data disclosed in this report were extracted from the original records of the Group’s daily operation or financial reports.

1.3 Reliability assurance

The board of director of the Company (the “Board”) guarantees the contents of this report do not contain any false information, misleading statement or material omission.

1.4 Reporting principles

- Principle of materiality. This report identifies and responds to material ESG issues affecting the Group through an online survey of key stakeholders and data analysis. The process and results of the materiality analysis are detailed on pages 7 to 11 of this report.
- Principle of quantitative. The Group’s ESG quantitative key performance indicators have been disclosed in this report and are detailed on page 22, 25, 28, 30, 34, 40 and 42 of this report.
- Principle of consistency. The indicators used in this report are as consistent as possible from one reporting period to the next, and changes in the indicators are explained to reflect the changing trends in key performance.

1. 關於本報告

本報告是中國電子華大科技有限公司（「本公司」）發佈的環境、社會及管治報告，披露本公司及其附屬公司（「本集團」）在環境、社會及管治（「ESG」）事宜方面採取的行動及達到的成效。本報告參考香港聯合交易所有限公司上市規則附錄C2所載的《環境、社會及管治報告指引》編製。

1.1 報告範圍

組織範圍：本報告涵蓋的公司包括本公司，以及其附屬公司北京中電華大電子設計有限責任公司（「華大電子」）、上海華虹集成電路有限責任公司和中電華大科技（深圳）有限公司。

報告期間：2024年1月1日至2024年12月31日。

1.2 數據

本報告披露的數據來自本集團日常營運的原始記錄或財務報告。

1.3 可靠性保證

本公司董事會（「董事會」）對本報告的內容進行保證，不存在任何虛假資料、誤導性陳述或重大遺漏。

1.4 匯報原則

- 重要性原則。本報告通過重要持份者線上調查及數據分析，識別出影響本集團的重要ESG事宜並回應。重要性分析過程及結果詳見本報告第7頁至第11頁。
- 量化原則。本報告已經披露本集團的ESG量化關鍵績效指標，詳見本報告第22頁、第25頁、第28頁、第30頁、第34頁、第40頁及第42頁。
- 一致性原則。本報告對不同報告期間所使用的指標盡量保持一致，對發生變化的指標進行解釋說明，以反映關鍵績效的變化趨勢。

- Principle of balance. This report reflects objective facts and discloses both positive and negative indicators.

2. ESG MANAGEMENT STATEMENT FROM THE BOARD

2.1 Governance structure for ESG issues

The Group has established a top-down governance structure for ESG issues with the Board assuming overall responsibility for ESG strategy and management of the Group, and established an ESG working group as the manager and coordinator of ESG work.

• *The Board*

The duties of the Board include:

- assessing and determining the risks and opportunities associated with the ESG issues of the Group;
- ensuring that appropriate and effective ESG risk management and internal control systems are in place;
- directing and reviewing the formulation of ESG management approach and strategies, and the priorities of key ESG issues;
- reviewing the Group's performance against ESG targets on a regular basis; and
- reviewing and approving the Environmental, Social and Governance Report of the Group.

• *ESG working group*

The ESG working group is responsible for the implementation of ESG tasks to all relevant departments. The duties of the ESG working group include:

- identifying ESG risks and opportunities relevant to the Group annually, assessing the present and expected impact of such risks and opportunities on the Group, and making recommendations to the Board on strategies to respond to such risks and opportunities;

- 平衡性原則。本報告反映客觀事實，同時披露正面和負面指標。

2. 董事會的ESG管理聲明

2.1 ESG事宜的管治架構

本集團建立了自上而下的ESG事宜管治架構，由董事會對本集團的ESG策略及管理承擔全部責任，並成立ESG工作小組作為ESG工作的管理者與協調者。

• 董事會

董事會的責任包括：

- 評估和釐定與本集團的ESG事宜相關的風險及機遇；
- 確保設有適當和有效的ESG風險管理及內部控制系統；
- 指導和檢討ESG管理方針、策略的制定及重要ESG事宜的優次排序；
- 就ESG目標定期檢討本集團的表現；及
- 審查及批准本集團的環境、社會及管治報告。

• *ESG工作小組*

ESG工作小組負責將ESG任務落實到各有關部門。ESG工作小組的責任包括：

- 每年識別與本集團有關的ESG風險及機遇，評估此類風險及機遇對本集團的當前及預期影響，並就此類風險及機遇的應對策略向董事會提供建議；

- b) formulating the Group's ESG management approach and strategies, identifying and determining the priorities of key ESG issues;
- c) formulating ESG targets and promoting specific implementation measures;
- d) preparing the annual Environmental, Social and Governance Report for the Board's review and approval; and
- e) other duties as delegated by the Board.

2.2 Progress of ESG work

In 2024, the Group upheld the ESG vision of "Innovation empowers green practices, for a bright future" and continued to promote ESG management practices at all levels with due consideration of the Group's businesses and the demands of various key stakeholders, with specific progress as follows:

- *Products and services*

We insisted on research and development and innovation, continuously enhanced the Group's competitive advantage in the sector of smart cards and secure element chips and expanded the market share. We continued to participate in the formulation of national standards, industry standards and association standards, assisted in promoting the standardisation of industry technology and were awarded the ISO 27001 Standard (Information security management systems) certification and the ISO 26262 Standard (Road vehicles – functional safety) certification.

- *Employees*

Comprehensively considering factors such as annual staff cost budget and annual staffing requirements, reasonably adjusted the remuneration levels of employees. Added quarterly bonuses arrangement to the employee remuneration structure to optimise the existing employee remuneration structure, organised training on production safety for employees to ensure their safety, advocated the combination of work and leisure, and conducted activities such as gala nights and family activity days to enrich the working life of employees.

- b) 制定本集團的ESG管理方針及策略，識別和確定重要ESG事宜的優次排序；
- c) 制定ESG目標並推進具體實施措施；
- d) 編製年度環境、社會及管治報告，並提交董事會審查及批准；及
- e) 董事會授予的其他責任。

2.2 ESG工作進展

2024年，本集團秉持「創新賦能綠色、美好未來」的ESG願景，在充份考慮本集團業務及各重要持份者訴求的基礎上，持續推進各層面的ESG管理實踐，具體進展如下：

- *產品及服務*

堅持研發創新，不斷提升本集團在智能卡及安全芯片領域的競爭優勢及擴大市場佔有率；繼續參與國家標準、行業標準及團體標準的制定，協助推動行業技術的標準化；獲得ISO 27001標準（信息安全管理體系）認證及ISO 26262標準（道路車輛—功能安全）認證。

- *員工*

綜合考慮年度人工成本預算、年度人員編制需求等因素，合理調整員工薪酬水平，在員工薪酬架構中新增季度獎金安排，優化現有員工薪酬架構；組織員工參與安全生產培訓，保障員工安全；倡導勞逸結合，開展聯歡晚會、家庭活動日等活動，豐富員工工作生活。

- *Compliance operation*

We conducted anti-corruption training and discipline learning education for directors and employees, and through various channels continuously promoted the building of business ethics culture, continuously promoted the environmental and social risks management of the supply chain, conducted risk assessments and regular appraisals on, and improved the supply chain management system.

- *Environment*

Through means such as regulating the climate change risk reporting mechanism and contingency plans, we are actively responding to China's "Peak carbon dioxide emissions and carbon neutrality" targets and make every effort to minimise the energy consumption in the course of operations, complying with the principle of "Reduce, recycle, harmless" enshrined in the Prevention and Control of Environmental Pollution by Solid Waste Law of the People's Republic of China to optimise the disposal method of waste, donate reusable resources such as old computers and reduce environmental pollution through recycling.

- *Community investment*

We continued to participate in public welfare activities, support disadvantaged groups and assist village revitalisation.

3. ESG MANAGEMENT

3.1 ESG philosophy

The Group is principally engaged in the business of design and sale of integrated circuit chips. The integrated circuit chips design business comprises the design of smart cards and secure element chips and the development of application system.

The Group has always been insisting on developing the information industry and maintaining information security as its own responsibility. By adhering to the "Be innovative in electronics of China, lead the information in the future" responsibility philosophy, and incorporating it into the Group's strategic and operational practice. The Group seeks to maximise ESG comprehensive benefits and strives to realise the ESG vision of "Innovation empowers green practices, for a bright future".

- *合規營運*

向董事及員工開展反貪污培訓和紀律學習教育，通過多種渠道不斷推動商業道德文化建設，持續推進對供應鏈的環境及社會風險管理，開展風險評估、定期評審，及完善供應鏈管理體系。

- *環境*

通過規範氣候變化風險上報機制及應急預案等手段，積極響應中國「碳達峰、碳中和」目標，竭力減少營運過程中的能源消耗；遵守《中華人民共和國固體廢物污染環境防治法》的「減量化、資源化、無害化」原則，優化廢棄物的處置方法，捐贈舊電腦等可再利用資源，通過循環使用減少環境污染。

- *社區投資*

持續參與公益活動，援助弱勢群體及助力鄉村振興。

3. ESG管理

3.1 ESG理念

本集團的主要業務為從事集成電路芯片的設計及銷售。集成電路芯片設計業務涵蓋智能卡及安全芯片的設計及應用系統開發。

本集團始終堅持以發展信息產業及維護信息安全為己任，秉承「創新中國電子，引領信息未來」的責任理念，並將其融入本集團戰略及營運實踐。本集團追求ESG綜合效益最大化，致力實現「創新賦能綠色、美好未來」的ESG願景。

The Company has complied with the “Comply or explain” provisions set out in the Environmental, Social and Governance Reporting Guide as set out in Appendix C2 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited for the year ended 31 December 2024. Details of the corporate governance practices of the Company are set out in the Company’s 2024 Annual Report.

3.2 Participation of stakeholders and analysis of key ESG issues

The communication with and the participation of stakeholders are important components of the sustainable development of a corporation. The Group’s principal place of operation is in Mainland China. The key stakeholders of the Group includes its shareholders, customers, employees, government and regulatory authorities, business partners, communities and the public as well as the ecological environment. Through communication with its stakeholders, the Group understands their expectations and advices, so as to provide guidelines for the Group’s operational decision-making and make more positive contributions to the sustainable development of the industry and society.

In 2024, the Board has adopted a combination of peer benchmarking and expert opinions approach, in the light of the actual operating circumstances of the Group and issues of great concern to key stakeholders and having a material impact on the Group’s business, to analyse the importance of various ESG issues, identify and determine the Group’s key ESG issues, and gave a salient response to these key issues in this report.

於截至2024年12月31日止年度本公司已遵守香港聯合交易所有限公司證券上市規則附錄C2所載環境、社會及管治報告指引所載的「不遵守就解釋」條文。有關本公司的企業管治常規詳見本公司的2024年年報。

3.2 持份者參與及重要ESG事宜的分析

與持份者的溝通及參與是企業可持續發展的重要組成部份。本集團主要營運地點在中國內地。本集團的重要持份者包括其股東、顧客、員工、政府及監管機構、業務夥伴、社區及公眾和生態環境。通過與其持份者的溝通，本集團了解各方期望及建議，為本集團營運決策提供指引，為行業及社會可持續發展做出更積極的貢獻。

2024年，董事會採取同業對標及專家意見相結合的方式，結合本集團實際營運的情況及重要持份者高度關注且對本集團業務有重要影響的事宜，分析各項ESG事宜的重要性，識別及釐定本集團的重要ESG事宜，並在本報告中對該等重要事宜進行重點回應。

ESG issues ESG事宜		Materiality analysis 重要性分析	Corresponding section 對應章節
Emissions 排放物	Exhaust emissions 廢氣排放	The Group is principally engaged in the business of design of smart cards and secure element chips and its business does not involve manufacturing process. Apart from non-hazardous wastes produced from operation of offices (such as waste paper) and consumption of a small number of toner cartridges, the Group does not produce significant exhaust emission, discharge into water and land and generate hazardous wastes in the course of operations. 本集團的主要業務為從事智能卡及安全芯片的設計，其業務不涉及製造環節。除辦公營運產生的無害廢棄物（如廢紙）以及消耗少量碳粉匣外，本集團於營運過程中並無產生顯著廢氣排放、向水及土地排污以及產生有害廢棄物。	7.1 Green operations 7.1 綠色營運
	Discharge into water and land 向水及土地排污		7.1 Green operations 7.1 綠色營運
	Hazardous and non-hazardous waste generation 有害及無害廢棄物產生		7.1 Green operations 7.1 綠色營運
Use of resources 資源使用	Use of energy 能源使用	The Group consumes gasoline, electricity, water resource and packaging materials used in finished products in the course of operations. Through strengthening the management of resource usage, the Group strives to minimise the environmental impact of its operations. 本集團營運過程中消耗汽油、電力、水資源以及製成品所用包裝材料。通過加強資源使用管理，本集團致力於降低營運對環境造成的影響。	7.1 Green operations 7.1 綠色營運
	Use of water resource 水資源使用		7.1 Green operations 7.1 綠色營運
	Packaging materials used in finished products and paper used in office 製成品所用包裝材料及辦公用紙		7.1 Green operations 7.1 綠色營運
Environment and natural resources 環境及天然資源		The manufacturing process of the suppliers with which the Group cooperates involve resource consumption, waste generation, etc., which have certain impacts on the environment and natural resources. The Group attaches great importance to the sustainability of supply chain and advocates partners to adopt environmentally friendly measures to optimise the efficiency of resource utilisation and to jointly reduce the environmental impact of the manufacturing process. 與本集團合作的供應商在製造環節涉及資源消耗、廢棄物產生等，對環境和天然資源帶來一定的影響。本集團高度重視供應鏈的可持續性，倡導合作夥伴採取環保措施，優化資源使用效率，共同降低製造環節對環境造成的影響。	7.2 Green products 7.2 綠色產品

ESG issues ESG事宜	Materiality analysis 重要性分析	Corresponding section 對應章節
Climate change 氣候變化	The Group's integrated circuits design business does not involve manufacturing process, and its four business operational locations are located in industrial parks or business centers of first-tier cities with well-developed infrastructure and facilities. Although operations are less directly affected by climate change, the Group has always attached great importance to the risks and opportunities that climate change may bring. In order to actively respond to climate change, the Group strives to promote the efficient use of resources, actively conduct greenhouse gas emission accounting, adopt various measures to reduce energy consumption and reduce greenhouse gas emissions generated in the course of operations, and actively respond to China's "Peak carbon dioxide emissions and carbon neutrality" targets. 本集團的集成電路設計業務不涉及製造環節，而其四個業務營運點均分佈在一線城市基建及配套完善的工業園區或商業中心。儘管營運受氣候變化的直接影響較小，但本集團始終高度重視氣候變化可能帶來的風險和機遇。為積極應對氣候變化，本集團致力於推動資源的高效使用，積極開展溫室氣體排放核算，採取多項措施降低能源消耗，並減少營運過程中產生的溫室氣體排放，積極響應中國「碳達峰、碳中和」目標。	7.1 Green operations 7.1 綠色營運

ESG issues ESG事宜		Materiality analysis 重要性分析	Corresponding section 對應章節
Employment 僱傭	Employment 僱傭	Employees are the key cornerstone of the Group's sustainable development and provide the driving force for the continuous innovation of the Group. Therefore, the Group attaches great importance to the rights and interests and benefits, health and safety, and training and development of employees, and strives to create a favourable working environment to support the career growth and all-round development of employees. 員工是本集團可持續發展的重要基石，同時為本集團提供不斷創新的原動力。因此，本集團高度重視員工的權益及福利、健康及安全、培訓及發展，致力於營造良好的工作環境，支持員工的職業成長與全面發展。	5.1 Employment and employee benefits 5.1 僱傭及員工福利
	Health and safety 健康及安全		5.3 Occupational health and safety 5.3 職業健康及安全
	Training and development 培訓及發展		5.2 Training and development 5.2 培訓及發展
	Labour standards 勞工準則	Child labour and forced labour are prohibited by the laws and regulations of the location where the Group operates. The Group strives to provide a fair, free and safe working environment for all employees. 本集團營運所在地法律及法規禁止使用童工以及強制勞工。本集團致力於為所有員工提供公正、自由及安全的工作環境。	5.1 Employment and employee benefits 5.1 僱傭及員工福利
Supply chain management 供應鏈管理	Management of environmental and social risks of the supply chain 供應鏈的環境及社會風險管理	Effective supply chain management not only helps the Group to respond to the aspects of environmental and social risks, but is also crucial to the Group's product quality. Through working closely with suppliers to ensure that they comply with high standards in the aspects of ESG, the Group is able to enhance the reliability and market competitiveness of its products. 有效的供應鏈管理不僅能幫助本集團應對在環境及社會方面的風險，也對本集團的產品質量至關重要。通過與供應商密切合作，確保其在環境、社會及管治方面遵循高標準，本集團能夠提升其產品的可靠性與市場競爭力。	6.1 Supply chain management 6.1 供應鏈管理

ESG issues ESG事宜		Materiality analysis 重要性分析	Corresponding section 對應章節
Product responsibility 產品責任	Development of security chips 安全芯片開發	The rapid development of 5G and the Internet of Things continues to raise the market demand for information security, and thus the importance of the development in security chips to the Group's business is also increasing. 5G和物聯網的高速發展不斷提升市場對信息安全的需求，因此安全芯片開發對於本集團業務的重要性也在不斷增加。	4.1 Information security 4.1 信息安全
	Quality of products and services 產品及服務的質量	Through strict quality control and continuous improvement, the Group is able to ensure that its products and services meet high standards, satisfy customers' needs and enhance market competitiveness. 通過嚴格的質量控制和持續改進，本集團能夠確保產品和服務符合高標準，滿足客戶需求，提升市場競爭力。	4.2 Quality management 4.2 質量管理 4.4 Customer service 4.4 顧客服務
	Intellectual property management 知識產權管理	The operations of the Group involve the use of intellectual properties owned by customers, suppliers or the Group. Therefore, protecting the intellectual properties of the Group and business partners, and avoiding infringement of others' intellectual properties are not only helpful for maintaining fair competition and market order, but also encouraging innovators to continue to drive for new innovations, so that the society as a whole can benefit from the fruits of these innovations. 本集團的營運涉及使用顧客、供應商或本集團擁有的知識產權。因此，保護本集團及業務夥伴的知識產權，同時防止侵犯他人的知識產權，不僅有助於維護公平競爭和市場秩序，也激勵著創新者不斷推陳出新，使得社會受益於這些創新成果。	4.3 Research and development innovation, and intellectual property protection 4.3 研發創新與知識產權保護
	Customers' information security and privacy protection 顧客信息安全及私隱保護	The operations of the Group involve confidential information of some customers and business partners. Proper management and protection of such information is crucial as failure to protect such confidential information effectively may not only result in damage to the co-operative relationship, but also expose the Group to negative impacts such as legal risks, reputational damage and reduction in market competitiveness. 本集團的營運涉及一些顧客及業務夥伴的機密信息。妥善管理和保護這些信息至關重要，若未能有效保護這些機密信息，不僅可能導致合作關係受損，還可能面臨法律風險、聲譽損害和市場競爭力下降等負面影響。	4.4 Customer service 4.4 顧客服務

ESG issues ESG事宜		Materiality analysis 重要性分析	Corresponding section 對應章節
Anti-corruption 反貪污	Anti-corruption practices 反貪污常規	Anti-corruption is a key safeguard for the healthy and sustainable development of the Group's business. The establishment of a sound anti-corruption policy and compliance mechanism will help to prevent the risk of corruption and safeguard the Group's interests. 反貪污是本集團的業務健康及可持續發展的重要保障。建立健全的反貪污政策和合規機制，有助於防範貪污風險，維護本集團的權益。	6.2 Anti-corruption 6.2 反貪污
Community investment 社區投資		The Group mainly operates in Mainland China. The local government and society expect corporation to fulfill its social responsibilities through supporting disadvantaged groups and public welfare projects. This not only helps to facilitate social harmony, but also enhances the Group's social image and influence. 本集團主要營運地點在中國內地，當地政府及社會期待企業通過援助弱勢群體和公益項目履行其社會責任。這不僅有助於促進社會和諧，也有助於提升本集團的社會形象和影響力。	8. Community investment 8. 社區投資

3.3 ESG working group

The Group has established an ESG working group as the manager and coordinator of ESG work, which is headed by the managing director of the Company. The ESG working group is responsible for implementing ESG tasks to all relevant departments and reporting the progress of the ESG work to the Board on a regular basis.

The duties of the ESG working group are set out in the section headed "ESG Management Statement from the Board" of this report.

3.3 ESG工作小組

本集團成立了ESG工作小組作為ESG工作的管理者與協調者，由本公司董事總經理擔任組長。ESG工作小組負責將ESG任務落實到各相關部門，並定期向董事會匯報ESG工作進展。

ESG工作小組責任載於本報告標題為「董事會的ESG管理聲明」一節內。

4. PRODUCTS AND SERVICES

The Group regularly reviews and improves the management systems regarding aspects such as safety, advertisement, labelling and privacy of its products and services by adhering to the “Innovate through reform and cherish integrity towards the world” operational philosophy, and complying with the Standardisation Law of the People’s Republic of China, the Intellectual Property Law of the People’s Republic of China, the Product Quality Law of the People’s Republic of China and the Advertising Law of the People’s Republic of China. In 2024, there was no litigation against the Group and no violation of laws and regulations by the Group in the aspects of safety, advertisement, labelling and privacy of its products and services.

4.1 Information security

As the practitioner and promoter of the smart card chips design industry in China, the Group regards maintenance of information security as its own responsibility, complies with the laws and regulations and the relevant requirements regarding information security management such as the Computer Information System Safety Protection Regulation of the People’s Republic of China, the Network Security Law of the People’s Republic of China, the Electronic Information Industry Production Safety Management Requirements and the Commercial Cryptographic Management Regulations. The Group focuses on autonomous research and development of smart cards and secure element chips while building a safe operating environment, and provides the foundation for China’s information technology modernisation and information security.

The Group established an information security management system by adhering to the information security approach of “Catering for demand for security through system protection; seeking for continuous development through the participation of all employees”. The Group has also set up an information security management team to be responsible for coordinating information security management work, ensuring stable operation of the information security management system, continuously improving the information security facilities and managing of the information assets. In 2024, the Group was awarded the ISO 27001 Standard (Information security management systems) certification (valid until August 2026).

4. 產品及服務

本集團秉承「知變圖新、誠達天下」的經營理念，遵守《中華人民共和國標準化法》、《中華人民共和國知識產權法》、《中華人民共和國產品質量法》及《中華人民共和國廣告法》，對其產品及服務的安全、廣告、標籤及私隱等方面的管理制度定期進行檢討及完善。本集團於2024年在其產品及服務的安全、廣告、標籤及私隱方面並沒有訴訟和違法及違規事件。

4.1 信息安全

本集團作為中國智能卡芯片設計行業的實踐者及推動者，以維護信息安全為己任，遵守《中華人民共和國計算機信息系統安全保護條例》、《中華人民共和國網絡安全法》、《電子信息產業安全生產管理規定》、《商用密碼管理條例》等與信息安全管理相關的法律及法規及有關規定，研發自主可控的智能卡及安全芯片，同時打造安全的營運環境，為中國信息技術現代化以及信息安全提供基石。

本集團秉承「系統防範，滿足安全需求；全員參與，追求持續發展」的信息安全方針，建立信息安全管理體系，並設立了信息安全管理小組，負責協調信息安全管理工作，確保信息安全管理體系的穩定運行，持續完善信息安全設施及管理信息資產。2024年，本集團獲得ISO 27001標準（信息安全管理體系）認證（有效期至2026年8月）。

The Group has formulated management systems such as the Information Security Strategy and the Information Security Employee Manual to protect customer privacy, data and information through methods such as setting information access permissions and data encryption, obfuscation or desensitisation. In 2024, the Group revised 19 management documents such as the Configuration Management Procedures and the User Access Control Management Procedures in accordance with the relevant requirements of the ISO 27001 Standard (Information security management systems) to improve and optimise the management of information security.

In the aspect of information security related risk management, the Group identifies, assesses and responds to various types of risks in accordance with the relevant requirements of the Risk Assessment Management Control Procedures. Through the use of tools such as risk analysis and evaluation forms and risk assessment reports, the Group systematically analyses the likelihood and impact of various types of information security related risks and takes corresponding measures to minimise to the greatest extent the risks that might pose a threat to the business. In addition, the Group timely analyses changes in information security related laws and regulations, and conducts compliance assessments based on the Group's operating circumstances to effectively avoid compliance risks.

In 2024, through internal and external information reviews, the Group has refined and improved the information security management system and implemented improvement measures based on the results of the internal and external information reviews. In addition, the Group conducted business continuity exercises on its infrastructure, network and application systems, the results of which indicated that the information systems were operating normally.

本集團制定《信息安全策略》及《信息安全員工手冊》等管理制度，通過設置信息訪問權限、加密、模糊或脫敏等方法，保護顧客隱私、數據與資料。2024年，本集團依據ISO 27001標準（信息安全管理体系）相關要求，修訂《配置管理程序》及《用戶訪問控制管理程序》等19項管理文件，改善及優化信息安全的管理工作。

在信息安全相關風險管理方面，本集團按照《風險評估管理控制程序》相關要求，識別、評估和應對各類風險。通過使用風險分析與評價表及風險評估報告等工具，本集團系統性分析各類信息安全相關風險的可能性及影響，並採取相應措施，最大程度地降低可能對業務構成威脅的風險。此外，本集團及時梳理與信息安全相關的法律及法規的變動情況，並根據本集團的營運情況進行合規性評估，有效避免合規風險。

2024年，本集團通過內外部信息審查，細化及完善信息安全管理體系，並根據內外部信息審查結果落實改善措施。此外，本集團針對其基礎設施、網絡和應用系統開展業務連續性演練，演練結果顯示信息系統運行正常。

In 2024, the Group participated in a total of three thematic meetings organised by the Commercial Cryptography Inspection Center for the revision of the Requirements for the Construction of Production and Assurance Capability of Commercial Cryptographic Products and the Implementation Guidelines for the Construction of Production and Assurance Capability of Commercial Cryptographic Products, and actively provided professional opinions to promote the development of industry standardisation; and conducted a "Cybersecurity publicity week" activity to publicise information security awareness to all employees by means of sending emails and setting up timed screen protection for computers. At the same time, the Group organised all employees to attend information security training and completed information security test questions twice to consolidate their information security awareness.

In order to further consolidate and raise information security performance and maintain the effective operation of the information security management system, the Group established the information security targets and the ancillary management requirements to assist external suppliers to improve information security management.

- *Development of security chips*

The Group strives to promote the continuous development of China's security chips technology, products and applications. With globally advanced and China's leading security attack and defense technology, covering the protection technology at levels such as the system level, algorithm level, circuit level and layout level along with technologies such as side channel attack, malfunction-injection attack and physical attack technologies, forming a complete product security management system. A number of high-end security chips were awarded with security qualification certification such as the China EAL4+ Certification and EAL5+ Certification, CCEAL6+ Certification and EMVCo Certification. Security chip series products are widely used in sectors such as financial payment, social security, resident health, public transportation, telecommunications, network authentication, identity authentication, Internet of Things and Internet of Vehicles.

2024年，本集團共參與3次商用密碼檢測中心組織的關於修改《商用密碼產品生產和保障能力建設要求》及《商用密碼產品生產和保障能力建設實施指南》專題會，積極反饋專業意見，推動行業標準化發展；開展「網絡安全宣傳周」活動，通過發送郵件及設置電腦定時屏幕保護的方式，對全體員工進行了信息安全意識宣傳。同時，本集團共組織2次全體員工參加信息安全培訓並完成信息安全測試題，鞏固員工信息安全意識。

為進一步鞏固、提高信息安全績效，保持信息安全管理體系運行的有效性，本集團建立信息安全目標及配套管理要求，協助外部供應商完善信息安全管理。

- *安全芯片開發*

本集團致力於推進中國安全芯片的技術、產品及應用的持續發展。憑藉世界先進、中國領先的安全攻防技術，涵蓋系統級、算法級、電路級、版圖級等防護技術，具備側信道攻擊、故障注入攻擊、物理攻擊等技術，形成了完整的產品安全管理體系；多款高端安全芯片獲得中國EAL4+認證及EAL5+認證、CCEAL6+認證及EMVCo認證等安全資質認證；安全芯片系列產品已廣泛應用於金融支付、社會保障、居民健康、公共交通、電信、網絡認證、身份識別、物聯網、車聯網等領域。

The Group continues to lead China's security chips technology, keep pace with international standards, and demonstrate China's "Smart card chips" capability. The Group has launched and achieved large scale application in a number of automotive grade security chip products for Internet of Vehicles applications. Related products had also been gradually applied on a large scale in the information security sector such as Internet of Things, Internet of Vehicles, 5G communication, and payment. The Group's product (CIU9872B_01_C14.0) was awarded the IT Product Information Security certification (China EAL5+ Certification) by the China Cybersecurity Review Technology and Certification Center and the UnionPay Card Chip Product Security certification. In 2024, the Group was awarded the ASIL-D Grade ISO 26262 Standard (Road vehicles – functional safety) certification for the first time.

In 2024, the Group actively participated in the formulation of a number of national standards, industry standards and association standards, such as the Given SIM Card's Digital Identity – Technical Requirements for Dedicated Security Chips for Identity Authentication Devices and the Information Security Technology – Security Technical Requirements for IC Card Chips with Central Processing Units. In addition, the Group participated in the formulation of association standards such as the Security Chips Specification Catering for Gas Internet of Things NB-IoT Smart Meters, which were officially released in 2024.

- *Safe operating environment*

While focusing on the development of smart card chips with high security and high reliability, the Group also attaches importance to the safety of physical environment, that is, protecting computer network equipment and facilities from being destroyed by accidents such as earthquakes and floods, as well as human behaviours. The Group formulated a series of physical safety management systems such as the Physical Safety Control Procedures, the Security Facilities Management Measures, the Central Control Room Control Specifications, the Security Officer Management Measures, the Office Facilities, Security Facilities and Working Environment Control Procedures, etc., which covers areas such as laboratory temperature and humidity management requirements, and office environment management, for protecting the design and development of smart cards and secure element chips.

本集團繼續引領中國安全芯片技術、緊隨國際水平，展現中國「芯」實力。本集團推出多款車聯網應用的車規級安全芯片產品並實現規模應用；同時相關產品也在物聯網、車聯網、5G通信、及支付等信息安全領域逐步形成規模應用。本集團產品(CIU9872B_01_C14.0)獲得中國網絡安全審查技術與認證中心的IT產品信息安全認證(中國EAL5+認證)及銀聯卡芯片產品安全認證。2024年，本集團首次獲得ASIL-D級ISO 26262標準(道路車輛—功能安全)認證。

2024年，本集團積極參與《基於SIM卡的數字身份—身份鑒別設備專用安全芯片技術要求》、《信息安全技術—具有中央處理器的IC卡芯片安全技術要求》等多項國家標準、行業標準及團體標準制定工作。此外，本集團參與制定的《面向燃氣物聯網NB-IoT智能表的安全芯片規範》等團體標準已於2024年正式發佈。

- *安全營運環境*

在專注於高安全性、高可靠性智能卡芯片開發的同時，本集團亦注重物理環境安全，即保護計算機網絡設備及設施免遭地震、水災等事故以及人為行為導致的破壞。本集團制定有《物理安全控制程序》、《安防設施管理辦法》、《中控室控制規範》、《保安員管理辦法》、《辦公設施、安防設施及工作環境控制程序》等一系列物理安全管理制度，涵蓋實驗室溫濕度的管理要求及辦公環境管理等內容，為智能卡及安全芯片設計及開發提供保障。

4.2 Quality management

- *Quality management system*

The Group's integrated circuits design business comprises the design of smart cards and secure element chips and the development of application system and does not involve processes such as manufacturing, assembling and transportation. The Group adheres to the "Zero defect" philosophy in provision of products and services to customers, the quality approach of "Catering for customers' demand through continuous innovation, seeking for customers' satisfaction through the participation of all employees" as well as complies with the laws and regulations and the relevant requirements such as the Product Quality Law of the People's Republic of China and the Standardisation Law of the People's Republic of China, advocates quality management with the participation of all employees, and strives to achieving whole-process control and continuous improvement of the quality of products. In 2024, there was no recall of the Group's products sold or delivered due to safety and health reasons.

In accordance with the relevant requirements of the ISO 9001 Standard (Quality management systems), the Group has formulated product quality management systems such as the Product Review Guidelines and the Substandard Products Control Procedures, covering various processes such as product design and development, risk control, outsourcing of production control and performance evaluation, so as to promote the systematic and standardised management of product quality, and to satisfy customers' demands for diversification, personalisation and refinement.

In 2024, the Group was awarded the ISO 26262 Standard (Road vehicles – functional safety) certification (valid until August 2025), and revised the management systems such as the Product Cycle Inspection Processes and the SE Circuit Product Inspection Practice Guidelines in accordance with the relevant requirements to raise the standards of product quality reviews; and improved the Substandard Products Control Procedures and added new requirements for the handling of substandard automotive grade chip products in accordance with the relevant requirements of the IATF 16949 Standard (Automotive quality management systems), which will help to provide customers with higher-quality products and services.

4.2 質量管理

- 質量管理體系

本集團的集成電路設計業務涵蓋智能卡及安全芯片之設計及應用系統開發，業務不涉及製造、封裝及運輸等環節。本集團秉承著向顧客提供「零缺陷」產品及服務的理念，「持續創新，滿足顧客需求，全員參與，追求顧客滿意」的質量方針，遵守《中華人民共和國產品質量法》及《中華人民共和國標準化法》等法律及法規及有關規定，倡導全員參與的質量管理，致力於對產品的質量實現全過程控制及持續改進。本集團於2024年並沒有因安全及健康理由而須對已售或已運送產品進行回收的事件。

本集團按照ISO 9001標準（質量管理體系）相關要求，制定《產品審核指導書》及《不合格品控制程序》等產品質量管理制度，涵蓋產品設計及開發、風險控制、生產外包控制、績效評價等環節，推動產品質量的系統化、規範化管理，滿足顧客多樣化、個性化、精細化訴求。

2024年，本集團獲得ISO 26262標準（道路車輛—功能安全）認證（有效期至2025年8月），並依據相關要求修訂《產品周期檢驗流程》及《SE電路產品檢驗作業指導書》等管理制度，提高產品質量審查標準；依據IATF 16949標準（汽車質量管理體系）相關要求，完善《不合格品控制程序》，新增對不合格車規級芯片產品的處理要求，有助於為顧客提供更高質量的產品及服務。

Based on the foundation of conducting continuous ISO 9001 Standard (Quality management systems) reviews and follow-up works, the Group will deal with the substandard products found during operations in accordance with the requirements of the Substandard Products Control Procedures, while arrangements will be made for the responsible departments to analyse the reason for the generation of substandard products, formulate corresponding rectification and precautionary measures, and follow up on the implementation and the effectiveness of these measures. In 2024, the Group set a target of return rate of 5% and below for integrated circuits product delivered, and the actual product return rate was 1%.

在持續開展ISO 9001標準(質量管理體系)審查及跟進工作的基礎上，針對在營運過程中發現的不合格品，本集團按照《不合格品控制程序》的要求進行處置，同時安排責任部門分析不合格品產生原因、制定相應糾正及預防措施，以及跟進該等措施的實施情況及成效。2024年，本集團設定集成電路產品交付合格率为95%及以上的目標，實際產品交付合格率为99%。

Quality management system 質量管理體系



In the aspect of management of labelling of product, the Group formulated packaging specifications for products such as integrated circuit cards and smart cards, which clearly states the labelling requirements for information such as product model number, product batch number, product quantity, time of processing and place of origin.

- *Quality inspection procedures*

The Group conducted quality inspection on products such as wafers, integrated circuit modules, integrated circuit cards and circuits that are researched and developed autonomously with procurement and processing outsourced in accordance with the operational requirements of the quality inspection procedures imposed by its quality management system. Quality inspections are performed by inspectors with professional skills, in accordance with the inspection specifications and practice guidelines, and inspections are performed by using professional inspection equipment, so as to prevent the acceptance of substandard products. In addition, inspectors regularly calibrate the professional high-precision instruments used for quality inspection to ensure the accuracy of the inspection results.

- *Quality culture*

The Group regularly holds quarterly quality meetings to provide attendees with a comprehensive understanding of the quality problems and the causes through regularly compiling and reporting on product and service quality problems and their handling, so as to guide and enhance the employees' awareness of product and service quality, and to create a quality culture of the participation of all employees. At the same time, the Group organised training on the knowledge of the quality management system for new employees to accelerate their understanding of the Group's quality management system and enhance their knowledge of quality management.

During the "Quality month" in 2024, the Group organised a "Comprehensive quality management quiz competition activities" for all employees. In addition, the Group actively conducted product quality training activities, covering topics such as "How to prepare and effectively verify preventive measures" and "Training on quality management system standards and requirements for certified quality manager".

在產品標籤管理方面，本集團制定了針對集成電路卡、智能卡等產品的包裝規範，明確規定對產品型號、產品批號、產品數量、加工時間、產地等信息的標籤要求。

- *質量檢測程序*

本集團按照其質量管理體系對質量檢測程序的操作要求，針對其自主研發並委外採購及加工的圓片、集成電路模組、集成電路卡片、電路等產品進行質量檢測。質量檢測由具備專業技能的檢測人員，依據檢測規範及作業指導書，使用專業的檢測設備進行檢測，防止接收不合格品。此外，檢測人員通過定期對用於質量檢測的專業高精密儀器進行校準，以保證檢測結果的準確性。

- *質量文化*

本集團定期召開季度質量會，通過定期編匯並報告產品及服務質量問題及處理情況，使參會者全面地認識質量問題及產生原因，從而引導與提升員工的產品及服務質量意識，營造全員參與的質量文化。同時，本集團組織新員工參與質量管理體系相關知識培訓，加速新員工了解本集團質量管理體系，提升其對質量管理的認識。

本集團於2024年「質量月」活動中組織全體員工進行「全面質量管理競賽答題活動」。此外，本集團積極開展產品質量培訓活動，涵蓋「如何寫好並有效驗證預防措施」及「質量管理體系標準及CQM要求培訓」等內容。

4.3 Research and development innovation, and intellectual property protection

The Group attaches importance to original innovation, integrated innovative capabilities, vigorously promotes scientific discovery and technology invention. In 2024, research and development primarily focused on the research and development of security SE chip products and security microcontroller unit chip products, the continuous enhancement of smart card products' performance, the enhancement of products' security certification level, the research of security chips for use in the Internet of Things and the Internet of Vehicles sector as well as the development of application systems and solutions. In 2024, the Group has obtained 19 new patents, registered 1 new software copyright and 3 new integrated circuits layout designs.

The Group formulated and continues to revise the Intellectual Property Management Measures to clearly state the responsibilities and working procedures for each of the departments and personnel, and state the detailed requirements regarding the assessment, searching, retrieval and analysis of relevant intellectual properties during the research and development process, contract filing management, intellectual properties ownership, protection and application of intellectual properties, trainings, awards, etc. The Group respects intellectual properties, regulates the usage of intellectual properties from customers and third parties. It also keeps all business partners' product's technical information strictly confidential. The Group conducts intellectual property risk assessment at project inception and iterative analysis on relevant intellectual properties at critical stages of projects, and based on the results of such assessments and through methods such as procuring external licenses and technology circumvention to reduce the risk of infringing on the intellectual properties of others.

4.3 研發創新與知識產權保護

本集團重視原始創新、集成創新能力，大力推動科學發現及技術發明。2024年，研究及開發主要側重於安全SE芯片產品和安全主控芯片產品的研究及開發、智能卡產品性能的持續提升、產品安全認證等級的提升、應用於物聯網及車聯網領域的安全芯片研究以及應用系統和解決方案的開發。2024年，本集團新增19項專利，新登記1項軟件著作及新註冊3項集成電路佈圖設計。

本集團制定並持續修訂《知識產權管理辦法》，明確各部門及人員的職責及工作程序，對包括研發過程中對相關的知識產權的評估、查新、檢索、分析、合同檔案管理、知識產權歸屬、知識產權的保護及申請、培訓及獎勵等都做了詳細的規定。本集團尊重知識產權，規範使用顧客及第三方的知識產權，亦對所有業務夥伴的產品技術信息進行嚴格保密。本集團於項目立項時進行知識產權風險評估，並在項目關鍵階段對相關知識產權進行迭代分析，根據該等評估結果通過對外採購許可、技術規避等方法，減少侵犯他人知識產權的風險。

In 2024, the Group participated in the formulation of a number of national standards, industry standards and association standards such as Technical Requirements and Test Methods for Automobile Security Chips which helped to enhance the high-quality development of the industry. The Group continuously through incentive measures encourages employees to actively apply for intellectual properties, publish thesis, etc. The Group has established awards such as the Technical contribution award and the Technical innovation award to commend employees for their significant research and development innovation achievements. In 2024, 17 and 9 employees were awarded the Technical contribution award and Technical innovation award respectively.

In 2024, the Group organised a total of two intellectual property training activities for employees, introducing basic knowledge about intellectual properties, writing and excavation of technical briefing documents, etc., in order to continuously enhance their awareness of intellectual property protection. In addition, the Group held an annual technology conference to share the latest scientific research and technology innovations achievements in aspects such as research and development processes, platform innovations and applications with employees, and to recognise and reward employees for their outstanding technical contributions and successfully applied for intellectual property.

4.4 Customer service

- *Customer service system*

The Group adheres to the “Users first and customers foremost” philosophy and builds a sound customer service system to provide more convenient and better quality service to customers. In addition, the Group has professional support team to provide immediate professional technical services to customers to solve their technical problems before, during and after a purchase.

2024年，本集團參與《汽車安全芯片技術要求及試驗方法》等多項國家標準、行業標準及團體標準制定工作，助力提升行業高質量發展。本集團持續通過獎勵措施鼓勵員工積極進行知識產權申請及論文發表等。本集團設立了「技術貢獻獎」及「技術創新獎」等獎勵，表揚有重大研發創新成果的員工，2024年分別有17名及9名員工獲得「技術貢獻獎」及「技術創新獎」。

2024年，本集團向員工共開展2次知識產權培訓活動，介紹知識產權基礎知識、技術交底書的撰寫及挖掘等，持續提升員工知識產權保護意識。此外，本集團舉辦科技年會，向員工分享研發流程、平台創新、應用程序等方面的最新科研及科技創新成果，表彰及獎勵有突出技術貢獻及成功申請知識產權的員工。

4.4 顧客服務

- *顧客服務體系*

本集團秉承「用戶第一、顧客至上」的理念，營造完善的顧客服務體系，為顧客提供更便捷、優質的服務。此外，本集團擁有專業支援團隊，為顧客即時提供售前、售中、售後的專業技術服務，解決技術難題。

The Group formulated the Customer Complaint Handling Procedures to assist to resolve any issues encountered by the customers when using the product, and feedback from customers will be used for continuous raising of products and services quality. In addition, based on the issue raised by the customer, the Group will organise respective professionals from the failure analysis team, product research and development and design team, production and processing professional technical team, sales service team, technical support team and project management team to work together to complete the analysis of the entire issue, identify the fundamental causes of the issue, formulate rectifying and precautionary measures, and follow up with the customer's subsequent usage to ensure the effectiveness of such measures.

In the aspects of customer information security and privacy protection, the Group formulated the Technology Confidentiality Agreement Management Measures and the Confidentiality Management Requirements, and employees are required to keep trade secrets of the Group and customers in strict confidence, so as to ensure confidentiality of information for both sides during business interaction between the Group and customers.

本集團制定《顧客抱怨處理程序》，幫助解決顧客在使用產品中遇到的任何問題，並同時通過顧客的反饋持續提升產品及服務的質量。此外，本集團根據顧客提出的問題，組織失效分析團隊、產品研發設計團隊、生產加工專業技術團隊、銷售服務團隊、技術支援團隊及項目管理團隊中相關的專業人員，共同完成整個問題的分析工作，挖掘問題的根本原因，制定糾正及預防措施，並跟進顧客的後續使用情況，以確保該等措施的成效。

在顧客信息安全及私隱保護方面，為確保本集團與顧客業務交往中雙方的信息保密，本集團制定了《技術保密協議管理辦法》以及《保密管理規定》，並要求員工需嚴格保守本集團及顧客的商業秘密。

- Customer satisfaction survey

The Group attaches importance to customer satisfaction survey and through the survey identifies key factors affecting the satisfaction of customers so as to raise the quality of its products and services. The Group sends out customer satisfaction survey forms to customers each year to understand customer's satisfaction, opinions and suggestions on aspects such as products' or projects' design quality, service quality, and speed and capability in handling issues, and the Customer Satisfaction Surveillances and Measurements Evaluation Report will be prepared and passed the results back to the respective departments for continuous improvement of products and services quality. In 2024, based on the review results of the certification body, the Group revised the Customer Satisfaction Control Procedure by adding a new requirement of tracking customer return visits, and conducted the customer satisfaction survey in accordance with the newly revised requirements.

- 顧客滿意度調查

本集團重視顧客滿意度調查，通過調查挖掘影響顧客滿意度的關鍵因素，從而提升其產品及服務的質量。本集團每年向顧客發送顧客滿意度調查表，以了解顧客對產品或項目的設計質量、服務質量、處理問題的速度及能力等方面的滿意度、意見及建議，並編製《顧客滿意度監視及測量評價報告》，將結果反饋給相關部門，持續提升產品及服務的質量。2024年，本集團根據認證機構的審查結果，修訂《顧客滿意度控制程序》，新增追蹤顧客回訪的要求，並根據新修訂要求開展顧客滿意度調查。

Statistics on products and services key performance indicators 產品及服務關鍵績效指標統計

Indicators	指標	2024 2024年度	2023 2023年度
Number of customer complaints	顧客投訴事件次數	237	180
Percentage of customer complaints dealt with (%)	顧客投訴處理百分比(%)	100.00	100.00
Customer satisfaction (%)	顧客滿意度(%)	95.42	96.00

5. EMPLOYEES

The Group regularly reviews and improves the management systems regarding aspects such as employees' rights and interests, remuneration and benefits, recruitment and promotion, training and development, working environment and occupational health, child labour and forced labour by adhering to the "Responsibility orientated, attaches importance to competent and rewards linked with performance" talent philosophy, and with reference to the laws and regulations and the relevant requirements such as the Labour Law of the People's Republic of China, the Production Safety Law of the People's Republic of China, the Women's Rights and Interests Protection Law of the People's Republic of China and the Paid Annual Leave for Employees Regulations. In 2024, there was no litigation against the Group and no violation of laws and regulations by the Group in the aspects of employment, occupational health and safety, child labour and forced labour.

5. 員工

本集團秉承「盡責是才、重能酬績」的人才理念，參考《中華人民共和國勞動法》、《中華人民共和國安全生產法》、《中華人民共和國婦女權益保障法》及《職工帶薪年休假條例》等法律及法規及有關規定，對員工權益、薪酬及福利、招聘及晉陞、培訓及發展、工作環境及職業健康、童工、強制勞工等方面的管理體系定期進行檢討及完善。本集團於2024年在僱傭、職業健康及安全、童工及強制勞工方面並沒有訴訟及違法及違規事件。

5.1 Employment and employee benefits

- *Employment and employees' rights and interests*

The Group attaches importance to attracting and fostering of talents, protecting employees' equal rights in aspects such as terms of employment, training, promotion and remuneration and ensuring no discrimination against any person on grounds such as gender, marital status, disability, age, race, family status, nationality and religion takes place. In addition, the Group resolutely eradicates child labour and all forced labour practices.

The Group formulated management systems such as the Recruitment and Induction Management Regulations, the Employee Code and the Remuneration and Benefits System with reference to the laws and regulations and the relevant requirements such as the Labour Contract Law of the People's Republic of China, which clearly states the management requirements in the aspects of recruitment and dismissal of employees and the remuneration and benefits of employees.

The Group attaches importance to the requirements for and the protection of candidates' information and requires background checks to be conducted on candidates for sales, purchasing, finance and IT positions in accordance with the laws and regulations and the relevant requirements; at the same time, headhunters are required to conduct background checks on personnel to be hired through legal channels to ensure personal information security and privacy is not infringed.

The Group encourages employees to introduce talents with competitiveness. Through regularly issuing demand for talents and encouraging employees to introduce talents based on such demand, so as to identify talents who will benefit the Group's development, enhance the Group's capability and enlarge its talent pool.

In addition, the Group has established an e-HR human resources information system for all employees with online management functions such as employee's promotion, training and remuneration.

5.1 僱傭及員工福利

- 僱傭及員工權益

本集團注重人才的引進及培養，保障員工在僱傭條件、培訓、晉升、薪酬等方面的平等權利，確保沒有因性別、婚姻狀況、殘疾、年齡、種族、家庭狀況、國籍、宗教等因素而遭受歧視。另外，本集團堅決杜絕僱用童工及一切強制勞工的行為。

本集團參考《中華人民共和國勞動合同法》等法律及法規及有關規定，制定《招聘及入職管理規定》、《員工守則》及《薪酬福利制度》等管理制度，明確在員工招聘及解僱和員工薪酬及福利方面的管理規定。

本集團注重對應聘人員信息的要求及保護，要求按照法律及法規及有關規定對銷售、採購、財務及IT崗位的應聘人員做背景調查；同時，要求獵頭公司通過合法途徑對將聘用人員進行背景調查，確保個人信息安全及私隱不受侵犯。

本集團鼓勵員工推薦有競爭力的人才，通過定期發佈人才需求，鼓勵員工根據需求推薦人才，從而為本集團尋找契合發展的人才，增強本集團實力、擴大人才隊伍。

此外，本集團建立了具備員工晉升、培訓、薪酬等的在線管理功能覆蓋全體員工的e-HR人力資源信息系統。

The Group, through internal and external remuneration comparisons and comprehensively considered factors such as annual staff cost budget and annual staffing requirements, adjusts the remuneration of employees to retain talent attraction and market competitiveness. In 2024, the Group revised the Remuneration and Benefits System by adding quarterly bonuses arrangement to the employee remuneration structure to facilitate the improvement and enhancement of the employee remuneration structure.

本集團通過內外部薪酬對比，綜合考慮年度人工成本預算、年度人員編制需求等因素，調整員工薪酬以保持人才吸引力及市場競爭力。2024年，本集團修訂《薪酬福利制度》，於員工薪酬架構中新增季度獎金安排，促進員工薪酬架構的完善及提升。

Overview of employment and employee's rights and interests system 僱傭及員工權益制度概覽		
Recruitment and dismissal 招聘及解僱	Work hours and leave 工時及休假	Remuneration and benefits 薪酬及福利
• Recruitment: New employees are recruited in accordance with the principle of "Openness, equality, competition and selection of the best". • 招聘：按照「公開、平等、競爭、擇優」的原則招聘新員工。	• Work hours: Work hours meets the requirements of operational location's laws and regulations. • 工時：工時符合營運地法律及法規的要求。	• Remuneration: The remuneration of each position is determined with reference to market practices and with reasonable adjustments after considering the values and the contributions of the position. • 薪酬：參考市場慣例定義崗位薪酬，同時考慮崗位價值及貢獻對薪酬進行合理的調整。
• Dismissal: Employees are dismissed in accordance with the related requirements of the Employee Code and in compliance with the requirements of operational location's laws and regulations. • 解僱：按照《員工守則》相關規定解僱員工，並符合營運地法律及法規的要求。	• Working overtime: Employees are entitled to pay or time-off in lieu for working overtime. Overtime compensation meets the requirements of operational location's laws and regulations. • 加班：員工加班享有加班費或加班調休權利，加班補償符合營運地法律及法規的要求。	• Social insurance: Various kinds of social insurances are purchased for all employees in accordance with the requirements of operational location's laws and regulations. • 社會保險：按照營運地法律及法規的要求為全體員工繳納各項社會保險。
	• Leave: Paid annual leave, marriage leave, bereavement leave, maternity leave, sick leave, etc., are provided in accordance with operational location's laws and regulations. • 休假：帶薪年休假、婚假、喪假、生育假、病假等按營運地法律及法規提供。	• Benefits: Employees are provided with various benefits such as annual body checks and supplementary medical insurance in accordance with the actual circumstances of the Group. • 福利：結合本集團實際情況為員工提供多項福利，如年度體檢及補充醫療保險等。

Statistics on employment key performance indicators 僱傭關鍵績效指標統計

Indicators		指標		2024 2024年度	2023 2023年度
Number of employees		員工人數		478	430
By gender:	Male	按性別：	男性	319	285
	Female		女性	159	145
By type of employment:	Permanent	按僱傭類型：	勞動合同制	466	418
	Secondment		勞務派遣制	12	12
By age group:	Over 50	按年齡組別：	50歲以上	18	17
	30 to 50		30歲至50歲	367	339
	Under 30		30歲以下	93	74
By geographical region:	Mainland China	按地區：	中國內地	477	428
	Hong Kong		香港	1	2
Employee turnover rate (%)		員工流失率(%)		8	12
By gender:	Male	按性別：	男性	9	13
	Female		女性	7	10
By age group:	Over 50	按年齡組別：	50歲以上	0	6
	30 to 50		30歲至50歲	8	12
	Under 30		30歲以下	13	3
By geographical region:	Mainland China	按地區：	中國內地	8	12
	Hong Kong		香港	50	0

• Employees communication and caring

Effective communication with employees is crucial to the formulation of decision-making and corporation development. The Group strives to build an open working culture, and strengthen the communication between employees and management. It has also sets up various communication channels to understand employees' opinions, so as to create a frank and an open communication atmosphere.

The Group cares and supports every employee who is in need. Through proactively conducting employee caring activities, the Group visits employees suffering from injuries and sickness, attends employees' wedding ceremonies and funeral ceremonies and helps employees who are in difficulties. The Group also conducts consolatory activities on public holidays in accordance with the relevant requirements of the China Federation of Trade Unions. The Group formulated the Trade Union Expenditure Management Measures, stating the detailed requirements on expenditure for condolences to employees, support for employees who are in difficulties, etc. In the aspect of caring for female employees, nursing rooms have been set up within the office area.

• 員工溝通及關懷

有效的員工溝通對決策制定、企業發展至關重要。本集團致力建設開放的工作文化，並加強員工與管理層的溝通，亦設立了多樣溝通渠道以了解員工的意見，營造坦誠及開放的溝通氛圍。

本集團關心及支持每一位需要幫助的員工。通過積極開展員工關愛活動，本集團做到傷病必訪、婚喪必訪、幫助困難員工，同時按照中國總工會的有關規定，開展法定節假日慰問活動。本集團制定了《工會經費管理辦法》，對員工慰問、困難員工幫扶等的經費支出做了詳細規定。在女員工關愛方面，辦公區內設置了母嬰室。

Overview of caring activities for employees in 2024

- ✧ “Sending coolness” consolatory activity in summer, providing employees with cooling consolatory products for preventing summer heat.
- ✧ “Sending warmth” consolatory activity in winter, providing employees with consolatory products for keeping warm.

Overview of employee activities in 2024

- ✧ “Gather everyone’s thoughts and energies, starting from the “Chips”” gala night.
- ✧ Family activity day.
- ✧ “Blooming beauty, infinite possibilities” March 8th women’s day event.
- ✧ “Concentrating on “Chips” and striving for development with “Chinese” style of promoting operation” CE Huada Tech and business partners’ football for cooperation activity.
- ✧ CE Huada Tech and business partners’ badminton friendship tournament activity.
- ✧ Establish an employee’s home and an activity space for yoga and dance.

2024年度員工關愛活動概覽

- ✧ 夏日「送清涼」慰問活動，向員工發放防暑降溫慰問品。
- ✧ 冬日「送溫暖」慰問活動，向員工發放御寒慰問品。

2024年度員工活動概覽

- ✧ 「凝心聚力 從芯出發」聯歡晚會。
- ✧ 家庭活動日。
- ✧ 「美麗綻放 無限可能」三八女神節活動。
- ✧ 「齊「芯」合力謀發展，「中華」風采促經營」中電華大科技與合作夥伴足球共建活動。
- ✧ 中電華大科技與合作夥伴羽毛球友誼賽活動。
- ✧ 創辦職工之家、瑜伽舞蹈活動空間。

5.2 Training and development

- Employee training

Facilitating employees' growth provides impetus for corporate development. The Group upholds the principle of "Reaching out, drawing in" and formulated the Training System, which covers area such as types of training and training effectiveness assessment, training implementation and training instructors, as well as formulated an annual training programme covering four major categories, namely system, rules and regulations, experience exchanges, knowledge and skills, and cultural awareness. The Group's employee training is divided into three levels: corporate level, departmental level and individual level. Corporate level training focuses mainly on cross-departmental and internal all-purpose trainings, such as new employee trainings, and quality and safety requirements trainings. Departmental level training focuses mainly on enhancing knowledge and skills in departmental professional areas. Trainings for individuals act as a useful supplement to the two types of training above. In 2024, the Group optimised the "Response assessment" and "Behavioural assessment" processes in the training section of the OA system, and optimised the assessment mode of training course organisation, training instructors and training effectiveness to comprehensive evaluation scoring and public evaluation, so as to implement a more efficient training assessment process.

Employees of the Group are entitled to an individual training allowance of up to RMB5,000 per person per year starting from the 13th month onwards after joining. Such allowance can be used for attending trainings as designated by the Group, or can be used in relation to employee's job-related trainings at his/her own choice after applying for consent.

In 2024, the Group increased its investment in internal training and external learning for employees, and conducted eight internal training courses in management, covering areas such as cadres' study workshops, organising reform leadership capability and a high performance team, and managerial role awareness, for a total of 140 participants with a total of 2,467 class hours. At the same time, the Group funded 29 participants to study external learning courses.

5.2 培訓及發展

- 員工培訓

促進員工的成長是企業發展的動力源泉。本集團秉持「走出去、引進來」的原則，制定《培訓制度》，包含培訓類型以及效果評估、培訓實施、培訓講師等內容，並制定涵蓋體系、規章及制度、經驗交流、知識及技能和文化意識四大類的年度培訓計劃。本集團的員工培訓分為公司級、部門級及個人三級。公司級培訓側重於跨部門及內部通用性培訓，如新員工培訓和質量及安全要求培訓，部門級培訓側重於知識及技能提升培訓，在部門專業方向上實施，個人培訓作為前兩者的有益補充。2024年，本集團優化OA系統培訓板塊中「反應評估」及「行為評估」流程，將培訓課程組織、培訓講師、培訓效果的評估模式優化為綜合評價打分及公開評價，以落實更高效的培訓評估流程。

本集團員工自入職後第13個月起享有個人培訓津貼，每年每人最高限額人民幣5,000元，可以在參加本集團指定的培訓時使用，或由員工自主選擇與其職位相關的培訓，在經過申請同意後使用。

2024年，本集團增加對員工內訓及外出學習的投入，開展8場管理類內訓，涵蓋幹部研學班、組織變革領導能力與高績效團隊、管理者角色認知等內容，共140人次參與，累積2,467學時；同時，支持29人次外出學習。

Overview of employee training activities in 2024 2024年度員工培訓活動概覽	
Training project 培訓項目	Objectives 目的
- New employee induction training - 新員工入職培訓	Help new employees to understand the company's profile, rules and regulations, etc., so that they can adapt to the working environment and integrate into the team more quickly. 幫助新員工了解公司概況、規章和制度等，使其更快適應工作環境以及融入團隊。
- Research and development fresh graduates skills appraisal - 研發應屆生技能考核	Assess the skill level, discover potential talents, and accelerate the growth of talents. 評估技能水平，發現潛力人才，加速人才成長。
- Capability enhancement training for middle-level cadres, new cadres and core cadres - 中層幹部、新晉幹部、核心骨幹能力提升培訓	Enhance the leadership, decision-making and execution capabilities of relevant personnel, and strengthen team management capabilities. 提升相關人員的領導能力、決策能力及執行能力，強化團隊管理能力。
- Senior management capability training - 高層管理人員能力培訓	Strengthen the strategic thinking, holistic decision-making capability and reform leadership capability of senior management. 強化高層管理人員的戰略思維、全局決策能力及變革領導能力。
- E-learning course training - E-learning課程培訓	Flexibly enhance employees' professional skills and all-round capabilities. 靈活提升員工專業技能與綜合能力。

Statistics on employee training key performance indicators
員工培訓關鍵績效指標統計

		2024	2023
Indicators	指標	2024年度	2023年度
Percentage (%) of employees who received training	員工接受培訓百分比(%)	92	97
By gender: Male	按性別： 男性	67	66
Female	女性	33	34
By grade: Senior management	按級別： 高級管理層	1	1
Middle management	中級管理層	11	11
Grass-roots employees	基層員工	88	88
Average number of hours of training received per employee per year	員工每年人均接受培訓的小時數	25	38
By gender: Male	按性別： 男性	26	38
Female	女性	24	37
By grade: Senior management	按級別： 高級管理層	97	70
Middle management	中級管理層	90	38
Grass-roots employees	基層員工	21	23

- *Occupational development*

The Group implements a qualification management system and establishes an occupational development channel to provide an important basis for employee's promotion and salary increment. The Group implements dual channel development path for the technicians that accounts over 60% of the Group's total employee headcount. The technicians are divided into five grades, those who have reached grade four can select either the management line or the technical line. In the technical line, they can become technical expert, system engineer, etc., and in the management line, they can enter into the administrative management or project management area.

Technicians applying for promotions below the expert level will undergo an appraisal by the defense appraisal committee organised by the respective department; technicians applying for promotions above the expert level will be centrally organised by the human resources department and appraised by the appointment qualification appraisal panel. The Office of the General Manager re-appraises all applications selected for promotion.

5.3 Occupational health and safety

- *Production safety management*

The Group formulated the Production Safety Management Requirements with reference to the Production Safety Law of the People's Republic of China, which clearly states the specific requirements for production safety work reporting system and penalty measures for non-compliance with the safety guidelines. The Group established a production safety structure, with the managing director of the Company serving as the director of the production safety committee and the first-tier department manager of the Group serving as member. The Group has signed the "Letter of Commitment on Production Safety" with the relevant employees each year to ensure production safety. In 2024, the Group has established a production safety standardisation system and passed the Beijing production safety standardisation (Level 3) review (valid until December 2026).

- *職業發展*

本集團實施任職資格管理制度，建立職業發展通道，為員工晉陞、提薪提供重要依據。對於佔本集團總員工人數60%以上的技術類員工實行雙通道發展路徑，技術類分為五級，到四級後可選擇管理線或技術線，技術線發展到技術專家、系統工程師等，管理線則可進入行政管理或項目管理範疇。

技術類人員申請專家級以下級別的晉升，由相關部門組織答辯評審會評審；技術類人員申請專家級以上職級的晉升由人力資源部統一組織，由任職資格評定小組負責評審。總經理辦公會複審所有獲選拔晉升的申請。

5.3 職業健康及安全

- *安全生產管理*

本集團參考《中華人民共和國安全生產法》，制定《安全生產管理規定》，明確了安全生產工作報告制度以及違反安全指引的懲罰措施等具體要求。本集團建立安全生產架構，由本公司董事總經理擔任安全生產委員會主任，本集團一級部門經理擔任委員。本集團每年與相關員工簽署《安全生產承諾書》，保障生產安全。2024年，本集團已建立安全生產標準化體系並通過北京市安全生產標準化(三級)審查(有效期至2026年12月)。

In 2024, in order to ensure safe operation throughout the year, the Group carried out activities such as “Production safety month”, “Fire safety publicity month” and “Production safety management training”, and through activities such as production safety quizzes, online safety education training and emergency evacuation drills, to raise employees’ awareness of production safety. In 2024, the Group organised production safety training activities for a total of 1,907 participants, organised safety emergency drills activities for a total of 564 participants, a total of 25 employees attending production safety management training and obtaining relevant certificates.

2024年，為確保全年安全營運，本集團開展「安全生產月」、「消防宣傳月」、「安全生產管理培訓」等活動，通過安全生產答題、安全教育線上培訓、應急疏散演練等活動，提高員工安全生產意識。2024年，本集團組織安全生產培訓活動，共1,907人次參與，組織安全應急演練活動，共564人次參與，共25名員工參加安全生產管理培訓並取得相關證書。

Statistics on employees’ occupational health and safety key performance indicators
員工職業健康及安全關鍵績效指標統計

Indicators	指標	2024 2024年度	2023 2023年度	2022 2022年度
Number of work-related fatalities	因工死亡人數	0	0	0
Number of work-related injuries	因工受傷次數	1	0	0
Number of lost work days due to work-related injuries	因工受傷損失工作日數	24	0	0

Note: In 2024, the Group sustained one work-related injury incident. An employee inadvertently fell over and was injured with a fracture while attending training. The Group subsequently conducted a safety education campaign in response to such incident to prevent the recurrence of similar incidents.

附註：2024年，本集團發生一項因工受傷事故。一名員工參加培訓時不慎摔倒受傷而造成骨折。本集團其後就該事故開展安全教育宣貫，避免類似事故再次發生。

• *Quality working environment*

Quality working environment has a direct impact on the physical and mental health and work efficiency of employees. Based on the “People-oriented” philosophy, the Group strives to provide and maintain a warm, comfortable, healthy and safe working environment for employees. Huada Electronics has set up a library and a recreation area within its office area, so as to create a quality office arena. The Group has equipped its offices with safety packs, clearly states the requirements for safe use of electrical appliances, installed ventilation system, etc. for new office in response to the air quality conditions in Beijing. In addition, the Group purchased travel traffic safety insurance for employees (such as insurance for employee travelling by air, and vehicles) to provide coverage for safe travel.

• *優質工作環境*

優質的工作環境對員工的身心健康及工作效率具有直接影響。本集團基於「以人為本」的理念，致力為員工提供及維持溫馨、舒適、健康而安全的工作環境。華大電子在其辦公區內設置了圖書室及休閒區，營造優質辦公空間。本集團在其辦公室配備安全包，明確規定安全使用電器的要求；並針對北京地區的空氣質量狀況，在新辦公室安裝通風系統等。此外，本集團為員工購買差旅交通安全保險（例如員工乘坐飛機、汽車等的保險），為安全差旅提供保障。

6. COMPLIANCE OPERATION

The Group considers the compliance with laws and regulations as the cornerstone of corporation. The Group regularly reviews and improves the management systems regarding aspects such as supply chain management and anti-corruption with reference to the laws and regulations and the relevant requirements such as the Company Law of the People's Republic of China, the Civil Code of the People's Republic of China, the Anti-Unfair Competition Law of the People's Republic of China and the Anti-Money Laundering Law of the People's Republic of China. There was no confirmed corruption incident and litigation relating to the Group or its employees in 2024. The Group has complied with all laws and regulations in relation to bribery, extortion, fraud and money laundering.

In 2024, the Group sent the Integrity Reminder Letter to directors, middle and senior level employee, explained the disciplinary requirements for expense reimbursement in the light of the business nature and position characteristics of different departments, organised employees to watch business ethics education publicity films and conducted typical case learning activities for employees, and continuously promoted the building of business ethics culture through various channels.

6.1 Supply chain management

- *Suppliers management procedures*

The Group is principally engaged in the business of design of integrated circuit chips, and its major suppliers are integrated circuit chips manufacturers. The effective management of suppliers can help the Group to reduce costs and cooperation risk, raise the quality of products and services, and build up a quality brand.

6. 合規營運

本集團認為遵守法律及法規乃企業之基石，參考《中華人民共和國公司法》、《中華人民共和國民法典》、《中華人民共和國反不正當競爭法》、《中華人民共和國反洗錢法》等法律及法規及有關規定，對本集團供應鏈管理及反貪污等方面的管理制度定期進行檢討及完善。本集團於2024年並沒有與其或其員工有關的已確認的貪污事件及訴訟。本集團已遵守所有與賄賂、勒索、欺詐及洗黑錢相關的法律及法規。

2024年，本集團向董事、中高層人員發送《廉潔提示函》，結合不同部門的業務性質和崗位特點講解費用報銷的紀律要求，組織員工觀看商業道德教育宣傳片及開展典型案例學習活動，通過多種渠道不斷推動商業道德文化建設。

6.1 供應鏈管理

- *供應商管理程序*

本集團以集成電路芯片設計為主營業務，而其主要供應商為集成電路芯片製造商。對供應商的有效管理可以幫助本集團降低成本及合作風險，提高產品及服務質量，建立良好品牌。

Supplier management system 供應商管理體系



The Group has formulated management systems such as Comprehensive Procurement Business Control Procedures, Supplier Management Control Procedures, the Production Supplier Management Control Procedures and External Cooperation Business Control Procedures to regulate the management system of suppliers, involving aspects such as supplier introduction and risk assessment, regular appraisal, and win-win cooperation. The Group has conducted supply chain risk assessment covering risks of loss of control in the procurement process, risks of loss of control in the management of suppliers, etc., assessed and classified such risks, clearly stated the handling methods and responsible departments, supervised the implementation of counter-measures and effectively managed the risks associated with the supply chain.

In accordance with the relevant requirements of the Production Supplier Management Control Procedures, the Group stipulates the requirements for the selection, appraisal and management for production suppliers. In particular, it sets out in detail the guiding principles for aspects such as selection, appraisal, daily management, and subsequent appraisal of suppliers, so as to ensure a long-term and stable provision of high quality and reliable products and services by the suppliers.

本集團制定《綜合採購業務控制程序》、《供方管理控制程序》、《生產類供方管理控制程序》及《對外合作業務控制程序》等管理制度，規範供應商管理體系，涉及供應商引入及風險評估、定期評審、合作共贏等方面。本集團開展供應鏈風險評估，涵蓋採購過程失控風險、供方管理失控風險等，對該等風險進行評估定性，並明確處理方法及責任部門，督促落實應對措施，有效管理供應鏈相關風險。

本集團依據《生產類供方管理控制程序》相關要求，規定對生產類供應商的選擇、評審及管理的要求，其中詳細規定了供應商的選擇、評審、日常管理以及再評審等方面工作的指導原則，以確保供應商能夠長期、穩定的提供高質素可靠的產品及服務。

In addition, in accordance with the relevant requirements of the Production Procurement and Outsourcing Processes Control Procedures, the Group stipulates the requirements for the procedures and rules for managing the production procurement and the outsourcing. These procedures provide the definitions and corresponding operational requirements for aspects such as requirement planning, order formation and review and approval, procurement implementation, quality control and inventory settlement, so as to ensure the materials and products procured and outsourced comply with the requirements.

- *Regular appraisal of suppliers*

The suppliers selected by the Group for cooperation are in compliance with the requirements of the laws and regulations in the People's Republic of China in the aspects of environmental and social risks appraisal. These suppliers also comply with the requirements of the Group's Key Factors of Inspection for the Assessment of Supplier Form regarding information security management system and quality management system.

The Group carries out annual appraisal of its critical qualified suppliers. The appraisal of the qualified suppliers is based on criteria such as the supply situation in last year and the requirement planning for the coming year. Based on the results of the appraisal, the qualifications and grading of suppliers are adjusted to form a list of qualified suppliers for the coming year, while ad hoc second-party reviews will also be conducted on suppliers as part of daily management. In the event that a qualified supplier has no business dealing with the Group for the past three consecutive years, the qualification of such supplier will be canceled. The Group conducted appraisal on four suppliers in 2024, mainly focusing on the assessment of suppliers' quality control system, information security management system, procedure control and corporate management system, covering identity authentication smart card chips testing, integrated circuit modules assembling testing, circuit initialisation, etc. In 2024, the Group conducted product quality related training for suppliers, which mainly covered areas such as the relevant standard requirements for CQM (Card quality management) certified products.

此外，本集團依據《生產類採購與外包過程控制程序》相關要求，規定生產類採購及外包管理程序及規則。該程序對需求計劃，訂單形成及審查及批准，採購實施，質量控制，以及入庫結算等方面做了定義及相應操作規定，以確保採購及外包的材料及產品符合要求。

- *供應商定期評審*

本集團選擇合作的供應商在環境及社會風險評審方面均符合中華人民共和國法律及法規的要求，並且符合本集團《供方評估檢查要素表》中的信息安全管理體系及質量管理體系的規定。

本集團每年對其重點合格供應商進行評審。本集團根據上一年度供貨情況、以及未來一年度需求計劃等準則，對合格供應商進行評審。根據評審結果，對供應商資格及等級進行調整，形成新一年的合格供應商名單，日常管理中還會對供應商進行不定期的二方審查。如果合格供應商連續3年與本集團沒有業務往來，其合格供應商資格將會被取消。本集團於2024年對4家供應商進行評審，主要針對供應商的質量控制體系、信息安全管理體系、程序控制及公司管理體系等進行評估，涵蓋身份識別智能卡芯片測試、集成電路模組封裝測試以及電路初始化等內容。2024年，本集團對供應商開展產品質量相關培訓，主要涵蓋CQM（卡片質量管理）認證產品相關標準要求等內容。

Statistics on supply chain management key performance indicators 供應鏈管理關鍵績效指標統計

Indicators	指標	2024 2024年度	2023 2023年度
Total number of suppliers	供應商總數(間)	43	45
By geographical region	按地區		
• Mainland China	• 中國內地	39	41
• Hong Kong, Macau, Taiwan and overseas	• 香港、澳門、台灣及海外	4	4

6.2 Anti-corruption

• Anti-corruption management system

The Group implements the building of corruption-free practice by adhering to the “Law abiding and establishing creditability, advocating integrity and nurturing people” integrity philosophy, insisting on the approach of “Treating both symptoms and root causes, applying punishment and prevention for impeachments and focusing on precaution”.

In order to regulate the gift accepting behaviour in the Group’s business dealings, eradicate the possibility of violating laws and disciplines incidents, strengthen employees’ self-restraint and awareness of preventing corruption, the Group formulated management systems such as the Integrity and Honesty in Business Management Requirements (Provisional), the Handing Over of Gifts Collected Requirements (Provisional), and the “Significant issue, key official appointment and removal, significant project investment and large value fund utilisation” Decision-making System Implementation Measures. The Group conducted an anti-corruption training on disciplinary education, organised the management to learn about warning cases, anti-corruption, etc. At the same time, the Group organised quarterly discipline learning education for a total of 782 participants to enhance employees’ awareness of integrity.

• Complaint and whistleblowing management

In order to regulate the management of complaints and whistleblowing, the Group formulated the Complaints and Whistleblowing Management Measures. Employees of the Group and outsiders can reflect, in anonymity, to either the audit department or the audit committee of the Company through channels such as letter, telephone, internet and facsimile, suspected misconduct relating to corruption, including bribery, extortion, fraud and money laundering, malpractice or irregularity in the course of corporation’s or individual’s operations.

6.2 反貪污

• 反貪污管理制度

本集團秉承「奉法立信、興廉樹人」的廉潔理念，堅持「標本兼治、懲防並舉、預防為主」的方針，落實廉政建設。

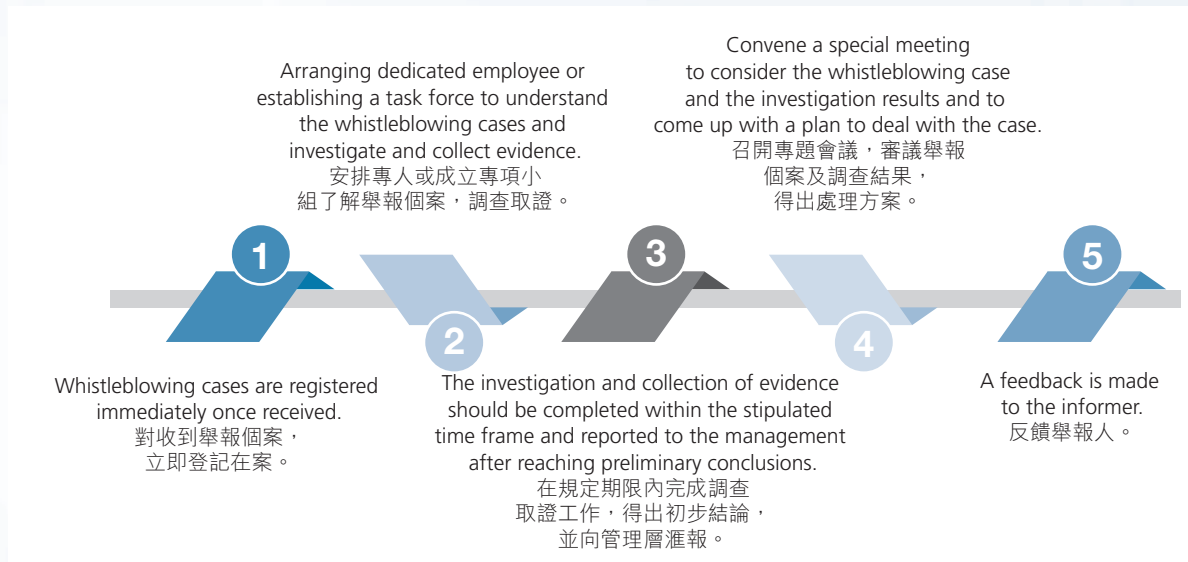
為了規範本集團業務交往中的饋贈行為，杜絕可能發生的違法及違紀事件，增強員工的自我約束及防止腐敗的意識，本集團制定《廉潔誠信從業管理規定(試行)》、《禮品上繳規定(試行)》及《「三重一大」決策制度實施辦法》等管理制度。本集團開展紀律教育專題的反貪污培訓，組織管理層學習警示案例、反貪污等內容。同時，本集團組織季度紀律學習教育，共782人次參與，提升員工廉潔意識。

• 投訴及舉報管理

為了規範投訴及舉報管理工作，本集團制定《投訴及舉報管理辦法》。本集團員工、外部人員均可匿名通過信件、電話、互聯網、傳真等渠道向審核部或本公司的審核委員會反映企業或個人營運過程中有關貪污，包括賄賂、勒索、欺詐及洗黑錢的懷疑不當事宜、舞弊或違規情況。

In addition, the Group keeps personal information of informers and whistleblowing cases strictly confidential in accordance with the confidentiality principle of the Complaints and Whistleblowing Management Measures.

此外，本集團按照《投訴及舉報管理辦法》的保密原則，對舉報人個人信息及舉報個案進行嚴格保密。



7. ENVIRONMENT

The Group strives to reducing the possible adverse impact of operations on the environment. The Group regularly reviews the environmental protection management measures with reference to the laws and regulations regarding environment such as the Environmental Protection Law of the People's Republic of China, encourages employees to take responsible actions on the environment and regularly provides employees with relevant training. In 2024, there was no environmental pollution incident, and no litigation against the Group and no violation of laws and regulations by the Group in the aspect of environmental protection.

7.1 Green operations

The environmental impacts of the Group's operations mainly include the use of energy and water resource, and packaging materials used in finished products, as well as greenhouse gas emission. In response to the identified environmental impacts, the Group has formulated corresponding management measures.

7. 環境

本集團致力減低營運可能對環境造成的不利影響，參考《中華人民共和國環境保護法》等與環境相關的法律及法規，對環保管理措施定期進行檢討，鼓勵員工對環境採取負責任的行為，定期向員工提供相關培訓。本集團於2024年並沒有環境污染事件，及在環保方面並沒有訴訟及違法及違規事件。

7.1 綠色營運

本集團營運造成的環境影響主要包括能源及水資源的使用和製成品所用包裝材料，以及溫室氣體排放。針對已識別的環境影響，本集團制定了相應的管理措施。

Aspects 層面	Green operation measures 綠色營運措施
1. Emissions 1. 排放物	Reduction and reuse of office waste generated in the course of operations. 對營運過程中產生的辦公廢棄物進行減量化和再利用。
2. Use of energy 2. 能源使用	Switch off power supply, reduce gasoline consumption on office vehicles, and conserve energy to reduce carbon emission. 隨手關閉電源、減少公車汽油消耗以及節能減碳。
3. Use of resources 3. 資源使用	Water conservation measures, and recycling of packaging materials used in finished products in the course of operations. 營運過程中的節水措施、對製成品所用包裝材料進行循環使用。
4. Climate change 4. 氣候變化	Improve the risk reporting mechanism and conduct activities such as emergency drills. 完善風險上報機制，開展應急演練等活動。

• *Emissions*

Apart from non-hazardous wastes produced from operation of offices (such as waste paper), the Group does not produce significant exhaust emission, discharge into water and land, generate hazardous wastes and other environmental impacts in the course of operations. Non-hazardous wastes are handled by property management companies. The Group also reduces the use of paper and waste paper produced through implementation of paperless workflow. For old computers generated from operation of offices, the Group passes them to a third party organisation for disposal in accordance with the Equipment Management and Control Procedures, or donates the old computers to educational institutions or charitable organisations in need so that they can be reused. The Group complies with the Prevention and Control of Environmental Pollution by Solid Waste Law of the People's Republic of China, improved the disposal method of toner cartridges by entrusting the printer suppliers to collect them centrally so as to reduce environmental pollution.

• *排放物*

除辦公營運產生的無害廢棄物（如廢紙等）外，本集團於營運過程中並無產生顯著廢氣排放、向水及土地排污、產生有害廢棄物以及其他環境影響。無害廢棄物均交由物業管理公司處理。本集團亦通過實施無紙化工作流程減少用紙以及廢紙產生。針對辦公營運產生的舊電腦，本集團按照《設備管理控制程序》，交由第三方機構進行處置，或將舊電腦捐贈給需要的教育機構或慈善組織，使其得到再利用。本集團遵守《中華人民共和國固體廢物污染環境防治法》，改善碳粉匣的處置方法，委託打印機供應商統一進行回收，以減少環境污染。

- *Use of energy*

In the aspect of use of energy, the Group incorporated the resources conservation behaviors such as water conservation and energy conservation by employees into the Employee Daily Conduct Specifications, requiring them to turn off the lights when leaving work, turn off the water tap after use, have the computer under standby mode temporarily when not in use, turn off the monitor after use, turn off the electric power supply when leaving the office, etc., and arranged for the cleaning of and insulation pipe inspection of the VRV (variable refrigerant volume) air conditioners in its office building, so as to strengthen their work efficiencies and reduce energy consumption. In addition, the Group formulated the Use of Office Vehicles Management Requirements, requiring the timely recording of the mileage and fuel consumption of office vehicles after use to reduce gasoline consumption through standardised management.

In the aspect of awareness publicity, the Group extensively conducted low-carbon publicity and education to its employees through activities such as low-carbon and energy conservation knowledge publicity, collection of views on low-carbon and energy conservation and seminars on carbon neutralisation knowledge, advocating the energy conservation philosophy of "Low-carbon life, green building the future".

- *Use of water resource*

As the Group's consumption of water resource mainly arises from operation of offices, and currently the Group obtains water source from municipal water supply, it is not facing problem and risk in obtaining suitable water sources. The Group advocates the basic philosophy of water conservation to all employees through posting gentle reminders. The water taps will be repaired in a timely manner if it is found damaged, so as to reduce water resource wastage.

- *Packaging materials used in finished products and paper used in office*

Packaging materials used in finished products of the Group consists of cartons, black boxes, iron rings, stainless steel racks, etc. The Group recycles these black boxes, iron rings and stainless steel racks to the extent that the hygiene of such item is ensured, so as to reduce resources wastage.

- *能源使用*

在能源使用方面，本集團將員工節水及節能等資源節約行為列入《員工日常行為規範》，要求員工做到人走燈滅，隨手關水龍頭，電腦暫時不用即進入待機狀態、隨手關閉顯示器、下班離開辦公室關閉電源等，亦對辦公大樓內的VRV（變製冷劑流量多聯式）空調進行清洗及保溫管排查等，加強其工作效率及降低能耗。此外，本集團制訂《公車使用管理規定》，要求使用車輛後及時記錄公車行使里程及油耗情況，通過規範化管理減少汽油消耗。

在意識宣傳方面，本集團通過低碳及節能知識宣傳、低碳及節能意見徵集及碳中和知識講座等活動，廣泛向其員工開展了低碳宣傳和教育，倡導「低碳生活，綠建未來」的節能理念。

- *水資源使用*

本集團對水資源的消耗主要來自於辦公營運，目前本集團取水來源為市政供水，不面臨求取適用水源的問題及風險。本集團通過張貼溫馨提示向全體員工倡導節約用水的基本理念，如發現水龍頭損壞及時修理，減少水資源浪費。

- *製成品所用包裝材料及辦公用紙*

本集團的製成品所用包裝材料主要包括紙箱、黑盒、鐵環及不銹鋼繃架等。其中，對於黑盒、鐵環及不銹鋼繃架，本集團在確保其清潔的情況下，進行循環使用，減少資源浪費。

The Group also established an office automation ("OA") system to implement paperless office practices. Aspects such as the receiving and sending of official documents, circulation of documents and sharing of departmental documents within members of the Group are all carried out through the OA system, so as to achieve paperless operation of office processes. On the premise of protecting printing privacy, the Group implements double-sided printing of paper, so as to reuse waste paper. In addition, the Group advocates bring-your-own-cup at internal meetings, so as to reduce the use of disposable paper cups.

- *Climate change*

In order to respond to China's "Peak carbon dioxide emissions and carbon neutrality" targets, and in accordance with the requirements of laws and regulations such as the Beijing Peak Carbon Dioxide Emissions Implementation Plan, the Group proactively identified the risks posed by climate change to its operations, advocated the efficient use of resources, and made every effort to minimise the energy consumption in the course of operations (including the consumption of electricity and gasoline by office vehicles), so as to lower carbon emissions generated in the course of operations.

The Group's integrated circuits design business does not involve manufacturing process, and its four business operational locations are located in industrial parks or business centers of first-tier cities with well-developed infrastructure and facilities, so climate change has minimum impact on the Group's operations. Although operations are less directly affected by climate change, the Group has always attached great importance to the risks and opportunities that climate change may bring.

In 2024, the Group improved the management system for responding to climate change with reference to the International Financial Reporting Standards S2 "Climate-related disclosures" issued by the International Sustainability Standards Board to enhance the ability and resilience to respond to climate change.

本集團亦建立辦公自動化(「OA」)系統推行無紙化辦公，本集團成員公司間對於公文收發、文件流轉、部門文件共享等方面均通過OA系統實現辦公流程無紙化操作。本集團推行雙面打印紙張，在保障打印私隱的前提下再利用廢紙。此外，本集團內部會議提倡自帶水杯，減少一次性紙杯的使用。

- *氣候變化*

為了響應中國「碳達峰、碳中和」目標，本集團按照《北京市碳達峰實施方案》等法律及法規的要求，積極識別氣候變化對營運的風險，倡導資源的高效使用及竭力減少營運過程中的能源消耗(包括耗電及公車的汽油消耗)，降低營運過程中產生的碳排放。

本集團的集成電路設計業務不涉及製造環節，而其四個業務營運點均分佈在一線城市基建及配套完善的工業園區或商業中心。儘管營運受氣候變化的直接影響較小，但本集團始終高度重視氣候變化可能帶來的風險及機遇。

2024年，本集團參考國際可持續發展準則理事會發佈的國際財務報告準則第S2號「氣候相關披露」完善應對氣候變化管理體系，提升應對氣候變化的能力及韌性。

Combating climate change management system 應對氣候變化管理體系	
• Governance • 管治	The Group has established a top-down governance structure to respond to climate change. The Board is responsible for assessing and determining the climate-related risks and opportunities relevant to the Group, directing and reviewing the formulation of management approach and strategies to respond to climate change, and reviewing the Group's performance against the climate change targets on a regular basis. The ESG working group is responsible for identifying the climate-related risks and opportunities relevant to the Group, formulating the Group's management approach and strategies to respond to climate change, formulating the climate change targets and putting forward specific implementation measures. 本集團建立由上至下的應對氣候變化管治架構。董事會負責評估和釐定與本集團相關的氣候相關風險及機遇，指導和檢討應對氣候變化管理方針、策略的制定，並就氣候變化目標定期檢討本集團的表現。ESG工作小組負責識別與本集團有關的氣候相關風險及機遇，制定本集團的應對氣候變化管理方針及策略，和制定氣候變化目標並推進具體實施措施。
• Strategies • 策略	Regularly identify, analyse and assess the current and expected impact of climate-related risks and opportunities relevant to the Group on the Group's business and operations, and make timely adjustments to the Group's management strategies and systems for mitigating and adapting to climate change. 定期識別、分析、評估與本集團相關的氣候相關風險及機遇對本集團業務及營運的當前及預期影響，適時調整本集團減緩和適應氣候變化的管理策略及機制。
• Risk management • 風險管理	• To formulate corresponding risk assessment and management procedures based on the probability of occurrence of climate-related risks and the degree of impact on the Group's business to enhance the ability to respond to these climate-related risks. • 基於氣候相關風險發生機率及對本集團業務影響程度，制定相應風險評估及管理程序，提升對該等氣候相關風險的應對能力。 • The Group has established a climate-related risk reporting mechanism to report on climate-related risks (e.g. rainstorms, typhoons, etc.) to the Office of the General Manager in a timely manner in order to ensure that the management can comprehensively assess the relevant risks and their potential impacts in a timely manner. • 本集團建立氣候相關風險上報機制，將氣候相關風險（如暴雨、颱風等）及時上報至總經理辦公會，確保管理層及時全面評估相關風險及其潛在影響。 • The Group has incorporated the management of climate-related risks into daily operations and raised the safety awareness and response capability of its employees through means such as designation of contingency plans, strengthening safety training and improvement of contingency measures, so as to minimise the impact of climate-related risks on the Group's operations and the employees' safety. • 本集團將氣候相關風險管理納入日常工作中，通過指定應急預案、加強安全培訓、完善應急措施等手段，提高員工的安全意識和應對能力，降低氣候相關風險對本集團的營運和員工安全的影響。
• Performance and targets • 指標及目標	To set appropriate climate management targets based on estimated future business development and to disclose relevant performance and progress of achieving the targets in the annual environmental, social and governance report. 基於預期未來業務發展，訂定合適的氣候管理目標，並在年度環境、社會及管治報告披露相關績效及目標進度。

Statistics on environment key performance indicators
環境關鍵績效指標統計

Indicators	指標	Units 單位	2024 2024年度	2023 2023年度	2030 target 2030年度目標
Gasoline consumption	汽油消耗量	litre 升	11,867	8,002	
Electricity consumption	耗電量	MWh 兆瓦時	2,885	2,655	
Consolidated energy consumption ¹	綜合能源消耗量 ¹	MWh 兆瓦時	2,990	2,726	
Consolidated energy consumption per square meter of floor area	每平方米樓面面積的綜合能源消耗量	MWh/m ² 兆瓦時／平方米	0.19	0.17	Increase of not more than 10% of the performance level in the base year 2023 增幅不多於基準年2023年的績效水平的10%
Total greenhouse gas emission ²	總溫室氣體排放量 ²	ton of CO ₂ equivalent 噸 CO ₂ 當量	1,574	1,532	
• Scope 1 greenhouse gas emission ³	• 範圍1溫室氣體排放量 ³	ton of CO ₂ equivalent 噸 CO ₂ 當量	26	18	
• Scope 2 greenhouse gas emission ⁴	• 範圍2溫室氣體排放量 ⁴	ton of CO ₂ equivalent 噸 CO ₂ 當量	1,548	1,514	
Total greenhouse gas emission per square meter of floor area	每平方米樓面面積的總溫室氣體排放量	ton of CO ₂ equivalent/m ² 噸 CO ₂ 當量／平方米	0.10	0.09	Increase of not more than 10% of the performance level in the base year 2023 增幅不多於基準年2023年的績效水平的10%
Toner cartridges consumption	碳粉匣消耗量	number 個	38	56	
		ton 噸	0.03	0.05	
Toner cartridges consumption per square meter of floor area ⁵	每平方米樓面面積的碳粉匣消耗量 ⁵	gramme/m ² 克／平方米	2	3	Increase of not more than 10% of the performance level in the base year 2023 增幅不多於基準年2023年的績效水平的10%
Water consumption	耗水量	m ³ 立方米	7,359	7,716	
Water consumption per square meter of floor area	每平方米樓面面積的耗水量	m ³ /m ² 立方米／平方米	0.46	0.48	
Amount of paper used in offices	辦公用紙量	ton 噸	2	1	
Amount of packaging materials used in finished products	製成品所用包裝材料量	ton 噸	4	4	

Notes:

1. Consolidated energy consumption includes purchased electricity consumption and gasoline consumption.
2. The total greenhouse gas emission is the sum of Scope 1 and Scope 2 greenhouse gas emission.
3. Scope 1 greenhouse gas emission is calculated based on vehicle fuel consumption data and related emission factors, and the calculation formula and emission factors are determined with reference to the Reporting Guidance on Environmental KPIs issued by The Stock Exchange of Hong Kong Limited. The Group is not involved in the use of diesel fuel, so Scope 1 greenhouse gas emission is generated from gasoline consumption.
4. Scope 2 greenhouse gas emission is calculated based on electricity consumption data and grid-based emission factors. The national average carbon dioxide emission factor for electricity of 0.5366 kg CO₂/kWh stated in the Announcement on the Publication of the Carbon Dioxide Emission Factors for Electricity for 2022 issued by the Ministry of Ecology and Environment of the People's Republic of China has been used for the calculation in 2024. The grid-based emission factors of 0.5703 kg CO₂/kWh stated in the Notice on Doing a Good Job on the Management of Greenhouse Gas Emission Reporting of Power Generation Industry Corporation for 2023-2025 issued by the Ministry of Ecology and Environment of the People's Republic of China has been used for the calculation in 2023.
5. The toner cartridges consumption is calculated by multiplying the weight of a single toner cartridge by the number of toner cartridges consumed during the reporting period.

7.2 Green products

The Group is principally engaged in the business of design of smart cards and secure element chips. Despite smart card chips account for a relatively small part of the overall technological product, smart card chips are the core to driving the operation of the products, and good design can effectively reduce the impacts on the environment throughout the entire life cycle of the product.

• Design phase

The environmental impacts of the Group's smart card chips design phase include greenhouse gas emission, and use of energy and water resources. The Group implements green office practices to reduce greenhouse gas emission and resources consumption.

• Production phase

The environmental impacts of the smart card chips production phase are mainly produced by suppliers who work with the Group. The Group requires suppliers to provide relevant qualification certifications according to customers' requirements to manage their impacts on the environment.

附註：

1. 綜合能源消耗量包括外購耗電量及汽油消耗量。
2. 總溫室氣體排放量為範圍1及範圍2溫室氣體排放量總和。
3. 範圍1溫室氣體排放量根據汽車耗油數據及相關排放系數進行計算，計算公式及排放系數經參考香港聯合交易所有限公司發佈的《環境關鍵績效指標匯報指引》而釐定。本集團不涉及柴油使用，故範圍1溫室氣體排放量為汽油消耗產生。
4. 範圍2溫室氣體排放量根據耗電量數據及電網排放系數進行計算，2024年度採用中華人民共和國生態環境部《關於發佈2022年電力二氧化碳排放因子的公告》發佈的全國電力平均二氧化碳排放因子0.5366 kg CO₂/kWh進行計算，2023年度採用中華人民共和國生態環境部《關於做好2023-2025年發電行業企業溫室氣體排放報告管理有關工作的通知》發佈的電網排放系數0.5703 kg CO₂/kWh進行計算。
5. 計算碳粉匣消耗量是將單個碳粉匣重量乘以報告期內碳粉匣消耗數量。

7.2 綠色產品

本集團的主營業務為智能卡及安全芯片之設計。儘管智能卡芯片在科技產品整體來說佔比較小，但智能卡芯片是驅動產品運作的核心，良好的設計有利於減少產品整個生命週期對環境的影響。

• 設計階段

本集團在智能卡芯片設計階段的環境影響包括溫室氣體排放，以及能源及水資源的使用。本集團推行綠色辦公，減少溫室氣體排放及資源消耗。

• 生產階段

智能卡芯片生產階段的環境影響主要為與本集團合作的供應商所產生的環境影響。本集團根據顧客要求，要求供應商提供相關資質證明，以此對供應商所產生的環境影響進行管理。

The Group's products include smart card chips, integrated circuit modules, integrated circuit cards and circuits. All products meet the requirements of RoHS. In particular, the smart card chips, integrated circuit modules and circuits also meet the requirements of REACH (The Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals).

The Group actively uses more environmentally friendly raw material to reduce the impact of operation, research and development, and production on the environment.

8. COMMUNITY INVESTMENT

The Group strives to be an outstanding corporate citizen by focusing on public welfare issues such as environmental protection, village revitalisation and community building, actively practicing corporate social responsibility, and continuously influencing employees and key stakeholders in this way.

In 2024, the Group conducted the public welfare activities of "Earth hour", "Green ride to send warmth, voluntary activities to protect the green mountains", "Central state-owned corporation's spending providing agri-support week", "Waterfront free run, environmental protection for everyone" and "Helping the disabled with public welfare actions". In addition, the Group invested RMB300,000 into the dedicated fund for village revitalisation launched by China Electronics Corporation Limited, donated winter clothes and electronic equipments such as old computers and servers to the Chicheng County Talent Development Centre for the Disabled.

本集團產品包括智能卡芯片、集成電路模組、集成電路卡片及電路。所有產品均滿足RoHS要求，其中智能卡芯片、集成電路模組及電路同時滿足REACH(《化學品的註冊、評價、授權和限制條例》)要求。

本集團積極採用更環保的原材料，降低營運、研發及生產對環境的影響。

8. 社區投資

本集團關注環境保護、鄉村振興及社區建設等公益事宜，積極踐行企業社會責任，並以此不斷影響員工和重要持份者，致力於成為卓越的企業公民。

本集團於2024年開展「地球一小時」、「綠色騎行送溫暖 志願活動護青山」、「央企消費幫扶興農周」、「濱水自由跑 環保你我他」及「助殘公益行動」公益活動。同時，本集團投入人民幣300,000元至中國電子信息產業集團有限公司籌辦的鄉村振興專項基金，向赤城縣殘疾人人才發展中心捐贈禦寒衣、舊電腦及服務器等電子設備。

Statistics on community investment key performance indicator
社區投資關鍵績效指標統計

Indicator	指標	Unit 單位	2024 2024年度	2023 2023年度
Investment in community's public welfare ¹	社區公益投資 ¹	RMB'000 人民幣千元	332	310

Note:

1. Investment in community's public welfare in 2024 and 2023 included the amount invested into the dedicated fund for village revitalisation launched by China Electronics Corporation Limited.

附註：

1. 2024年度及2023年度社區公益投資包括投入至中國電子信息產業集團有限公司籌辦的鄉村振興專項基金的款項。



Room 3403, 34th floor,
China Resources Building,
26 Harbour Road,
Wanchai, Hong Kong
香港灣仔港灣道26號
華潤大廈34樓3403室
Tel 電話: (852) 2598 9088
Fax 傳真: (852) 2598 9018

www.cecht.com.cn