

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)

Corporate Social Responsibility Report 企業社會責任報告 2021

Contents 目錄

			Page 頁次
1.	About This Report	關於本報告	2
2.	Environmental, Social and Governance Management Statement from the Board	董事會的環境、社會及 管治管理聲明	3
3.	Corporate Social Responsibility Management	企業社會責任管理	6
4.	Products and Services	產品及服務	10
5.	Employees	員工	20
6.	Compliance Operation	合規營運	27
7.	Environment	環境	31
8.	Community Investment	社區投資	38

企業社會責任報告

1. ABOUT THIS REPORT

This report is the Corporate Social Responsibility Report issued by China Electronics Huada Technology Company Limited (the "Company"). It addresses the actions taken and the achievements of the Company and its subsidiaries (the "Group") in respect of sustainable development regarding economic, environment, and social issues. This report has been prepared with reference to the Environmental, Social and Governance Reporting Guide issued by 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: from 1 January 2021 to 31 December 2021.

1.2 Data

Data disclosed in this report were extracted from the Group's original records in day-to-day 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 environmental, social and governance ("ESG") issues affecting the Group's sustainable development through an online survey of key stakeholders and data analysis. The process and results of the materiality analysis are detailed on pages 7 to 10 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 19, 22, 25, 26, 29, 35 and 38.

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」)發佈的企業社會責任報告,披露本公司及其附屬公司(「本集團」)在經濟、環境及社會的可持續發展方面採取的行動及達到的成效。本報告以香港聯合交易所有限公司刊發的《環境、社會及管治報告指引》為參考依據編製。

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:2021年1月1日至2021年12月31日。

1.2 數據

本報告中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。本報告通過重要利益相關方線上調查、資料分析等工作,識別出影響本集團可持續發展的重要環境、社會及管治(「ESG」)議題並回應。重要性分析過程及結果詳見本報告第7頁至第10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19頁、第22 頁、第25頁、第26頁、第29頁、第35頁及 第38頁。

- 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.
- Principle of balance. This report reflects objective facts and discloses both positive and negative indicators.
- 2. ENVIRONMENTAL, SOCIAL AND GOVERNANCE MANAGEMENT STATEMENT FROM THE BOARD

2.1 Governance structure for environmental, social and governance

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

• The Board

The duties of the Board include:

- a) assessing and determining the risks and opportunities associated with the ESG issues of the Group;
- b) ensuring that appropriate and effective ESG risk management and internal control systems are in place;
- c) formulating the Group's ESG management approach, strategies, priorities and targets;
- d) reviewing the Group's performance against ESG targets on a regular basis; and
- e) approving the Corporate Social Responsibility Report of the Group.

- 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 行解釋説明,以反映關鍵績效的變化趨勢。
- 平衡性原則。本報告內容反映客觀事實,同時披露正面和負面指標。

2. 董事會的環境、社會及管治管理聲 明

2.1 環境、社會及管治的管治架構

本集團建立了自上而下的ESG議題管治架構,由董事會對本集團的ESG策略及匯報承擔全部責任,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:

- a) 評估及釐定本集團的ESG議題的風險及機遇;
- b) 確保設有適當和有效的ESG風險管理及內部 控制系統;
- c) 制定本集團的ESG管理方針、策略、優次及目標;
- d) 就ESG目標定期檢討本集團的表現;及
- e) 審批本集團的企業社會責任報告。

企業社會責任報告

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:

- a) directing and reviewing the formulation of ESG management approach and strategies;
- b) monitoring the formulation and implementation of ESG targets and reviewing the progress of their achievement:
- directing and reviewing the identification and priorities of key ESG issues;
- d) preparing the annual Corporate Social Responsibility Report for the Board's review and approval;
- e) identifying ESG risks relevant to the Group annually and assessing the impact of such risks on the Group and making recommendations to the Board on the risk-countering strategies; and
- f) other duties as delegated by the Board.

2.2 Progress of ESG work

In 2021, 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 security smart card chips and expanded the market share. We continued to participate in the formulation of national standards, industry standards and association standards, helped promote the standardisation of industry technology and passed the third batch of professional, refined, specialised and innovative "Little giant" enterprise accreditation organised by the Ministry of Industry and Information Technology of the People's Republic of China.

• ESG工作小組

ESG工作小組負責將ESG任務落實到各相關部門。 ESG工作小組責任包括:

- a) 指導和檢討ESG管理方針及策略的制定;
- b) 監察ESG目標的制定和實施及檢討該等目標 實現的進展;
- c) 指導和檢討重要ESG議題的識別和排序;
- d) 編製年度企業社會責任報告,並提交董事會 審批;
- e) 每年識別與本集團有關的ESG風險,評估此 類風險對本集團的影響,並就風險應對策略 向董事會提供建議;及
- f) 董事會授予的其他責任。

2.2 ESG工作進展

2021年,本集團秉持「創新賦能綠色、美好未來」的ESG願景,在充分考慮本集團業務及各重要利益相關方訴求的基礎上,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,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;通過中華人民共和國工業和信息化部組織的第三批專精特新「小巨人」企業認定。

Employees

We conducted survey and research studies on the competitiveness of the Group's remuneration, comprehensively considered factors such as annual labour cost budget, annual staffing requirements, job position values, etc., and reasonably adjusted the salary levels of employees. We completed the revision of the management system in accordance with the new revision of the Production Safety Law of the People's Republic of China, and conducted training on the popularisation of the law, and implemented a production safety responsibility system for all employees. We published the 2021 Edition of the COVID-19 Pandemic Prevention and Control Measures, and promptly organised vaccination of employees against COVID-19.

• Compliance operation

We conducted publicity activities on corruption-free practice and business ethics for directors, senior and middle management and employees, and continuously promoted the building of business ethics culture through various channels. We continuously promoted the environmental and social risks management of the supply chain to ensure the supplier's compliance operation, guaranteeing the quality of the Group's products and services.

Environment

Through means such as improving the management system, raising awareness publicity and implementing daily management, we are actively responding to China's "Peak carbon dioxide emissions and carbon neutrality targets" and doing our best to reduce energy consumption during operations, following the principle of "Reduce, recycle, harmless" enshrined in the new Prevention and Control of Environmental Pollution Caused by Solid Waste Law of the People's Republic of China to optimise the disposal method of waste and reduce environmental pollution through recycling.

Community investment

We continued to participate in poverty alleviation work, make social welfare donations, and support disadvantaged groups, in response to the social development trend of "Common prosperity" in China.

員工

開展本集團的薪酬競爭力調研,綜合考慮年度人工成本預算、年度人員編制需求、崗位價值等因素,合理調整員工薪酬水平;依據新版《中華人民共和國安全生產法》完成管理制度修訂,並組織開展普法培訓,落實安全生產全員責任制度;印發《2021版新型冠狀病毒疫情防控辦法》,並及時組織員工接種新冠疫苗。

• 合規營運

向董事、中高層管理人員及員工開展廉潔執業及 商業道德宣傳工作,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,確保供應商的合規營運,並保障本集 團產品及服務的質量。

• 環境

通過完善管理制度、強化意識宣傳及落實日常管理等手段,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;遵循新《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式,通過循環使用減少環境污染。

• 社區投資

持續參與扶貧工作及社會公益捐助,資助弱勢群體,回應中國「共同富裕」的社會發展趨勢。

企業社會責任報告

3. CORPORATE SOCIAL RESPONSIBILITY MANAGEMENT

3.1 Corporate social responsibility philosophy

The Group is principally engaged in the business of design and sale of integrated circuit chips. The integrated circuit chips design operation comprises the design of security smart card chips and the development of application system.

The Group has all along been insisting on developing the information industry and safeguarding of information safety 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 the comprehensive benefits of economy, environment and society, and strives to realise the ESG vision of "Innovation empowers green practices, for a bright future".

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 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited for the year ended 31 December 2021. Details of the corporate governance practices of the Company are set out in the Company's 2021 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 enterprises. The Group operates principally in the People's Republic of China (the "PRC"). The key stakeholders of the Group are 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 sustain the industrial and social development.

3. 企業社會責任管理

3.1 企業社會責任理念

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, 追求經濟、環境、社會綜合效益最大化,致力實 現「創新賦能綠色、美好未來」的ESG願景。

於截至2021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27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2021年年報。

3.2 利益相關方參與及重要ESG議題的分析

與利益相關方的溝通及其參與是企業可持續發展的重要組成部分。本集團主要經營地點在中華內民共和國(「中國」)。本集團的重要利益相關方包括其股東、顧客、員工、政府及監管機構、社區及公眾和生態環境。通過與利益相關方的溝通,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。

In 2021, the Board analysed the materiality of various ESG issues with reference to peer practice and expert opinions, in light of the Group's actual operating circumstances, issues that are highly concerned by key stakeholders and have material impact on the Group's business, identified and determined the Group's key ESG issues, and gave a salient response to these key issues in this report.

2021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,重要利益相關方高度關注且對本集團業務有重要影響的議題,分析各項ESG議題的重要性,識別及釐定本集團的重要ESG議題,並在本報告中對該等重要議題進行重點回應。

ESG issues ESG議題		Materiality analysis 重要性分析	Corresponding section 對應章節		
Climate change and use of resources 氣候變化及資源使用	Climate change and use of energy 氣候變化及能源使用	The Group's integrated circuits design operation does not involve manufacturing, and its four business operations 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. However, in response to China's "Peak carbon dioxide emissions and carbon neutrality targets", the Group is also doing its best to promote the efficient use of resources and to reduce energy consumption during operations. 本集團的集成電路設計業務不涉及製造環節,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,因此氣候變化對本集團的營運影響甚微。但是,為了響應中國「碳達峰、碳中和目標」,本集團亦盡己所能倡導資源的高效使用,竭力減少營運過程中的能源消耗。	7.1 7.1	Green operations 綠色營運	
	Use of water resource 水資源使用 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	The Group consumes both water resource and packaging materials used in finished products during operations. Managing the use of resources can help to reduce the Group's operating costs as well as the Group's impact on the environment. 本集團營運過程中同時消耗水資源以及製成品所用包裝材料。管理資源的使用有助於降低本集團的營運成本,同時也有助於減少本集團對環境的影響。	7.1	Green operations 綠色營運 Green operations 綠色營運	

企業社會責任報告

ESG is		Materiality analysis 重要性分析	Corresponding sectio 對應章節	
Emissions 排放物	Exhaust and greenhouse gas emissions 廢氣及溫室氣體排放	The Group is principally engaged in the business of design of security smart card chips and its operation does not involve manufacturing. Apart from greenhouse	7.1 7.1	Green operations 綠色營運
	Cause water and land pollutions 向水及土地排污	in offices (such as waste paper), and a small number of waste toner cartridges, the Group does not produce significant exhaust emission, cause water and land pollutions and generate hazardous wastes during operations.	7.1	Green operations 綠色營運
	Hazardous and non-hazardous waste generation 有害及無害廢棄物 產生		7.1 7.1	Green operations 綠色營運
Environment and na環境及天然資源	atural resources	In the process of smart card chips manufacturing, suppliers who work with the Group will exert impacts on the environment and natural resources. 在智能卡芯片製造過程中與本集團合作的供應商會對環境及天然資源產生影響。		Green products 綠色產品
Employment and labour practices 僱傭及勞工常規	Employment 僱傭	Employees are an asset to the Group and a driving force for the Group to innovate continuously. Therefore, the rights and	5.1 5.1	Employment and employee benefits 僱傭及員工福利
	Health and safety 健康及安全	benefits, health and safety, training and development of employees are all key areas of work of the Group regarding	5.3	Occupational health and safety 職業健康及安全
	Training and development 培訓及發展	corporate social responsibility. 員工被視為本集團的資產,同時為本集團 提供不斷創新的原動力。因此,員工的權 益及福利、健康及安全、培訓及發展均為 本集團於企業社會責任方面的重要工作。	5.25.2	Training and development 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 place where the Group operates. 禁止使用童工以及強制勞工為本集團各營運地法律法規的要求。	5.1 5.1	Employment and employee benefits 僱傭及員工福利

企業社會責任報告

	issues	Materiality analysis	Cori	responding section
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	重要性分析 Effective supply chain management not only can help the Group to avoid environmental and social risks, but is also crucial to the Group's product quality. 有效的供應鏈的管理不僅能幫助本集團規 避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。	6.1	對應章節 Supply chain management 供應鍵管理
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 safety, and thus the importance of development of security chips to the Group's business continues to grow. 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 4.1	Information safety 信息安全
	Quality of products and services 產品及服務的質量	Effective product and service quality management are the foundation for achieving sustainable development of the Group. 有效的產品及服務質量管理為本集團實現可持續發展的基礎。	4.2 4.2 4.4 4.4	Quality management 質量管理 Customer service 顧客服務
	Intellectual property management 知識產權管理	The operation of the Group involves the use of intellectual properties owned by customers, suppliers or the Group. Therefore, to protect the intellectual properties of the Group and business partners, and to avoid infringement of others' intellectual properties are all key areas of work of the Group regarding corporate social responsibility. 本集團的營運會涉及到使用顧客、供應商或本集團自身擁有的知識產權。因此,保護自身及業務夥伴的知識產權,同時防止侵犯他人的知識產權為本集團於企業社會責任方面的重要工作。	4.3	Research and development innovation, and intellectual property protection 研發創新與知識產權保護
	Customers' information safety and privacy protection 顧客信息安全及私隱保護	The operation of the Group involves confidential information of some of its customers and business partners. 本集團的營運會涉及到部分顧客及業務夥伴的機密信息。		Customer service 顧客服務
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. 反貪污是本集團業務健康及可持續發展的重要保障。		Anti-corruption 反貪污

企業社會責任報告

ESG is		Materiality analysis		Corresponding section	
ESGÌ		重要性分析		對應章節	
Community investment 社區投資	Community welfare 社區公益	The Group mainly operates in the PRC. The local government and society expect enterprises to fulfill their social responsibilities through poverty alleviation and social welfare projects. 本集團主要營運地點在中國,當地政府及社會期待企業通過扶貧和社會公益項目履行社會責任。	8.	Community investment 社區投資	

3.3 ESG working group

The Group has established an ESG working group as the ESG manager and coordinator, which is headed by the managing director of the Company and deputy headed by the general manager of Huada Electronics. The ESG working group is mainly 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 "Environmental, Social and Governance Management Statement from the Board" of this report.

4. PRODUCTS AND SERVICES

The Group regularly reviews 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 with reference to 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, the Advertising Law of the People's Republic of China and the industrial policies, and continues to improve the corresponding information safety management system, product quality management system, intellectual property management system and customer service system. In 2021, there was no litigation against the Group and no violation of laws and regulations by the Group in relation to the safety, advertisement, labelling and privacy of its products and services.

3.3 ESG工作小組

本集團成立了ESG工作小組作為ESG管理者與協調者,由本公司董事總經理擔任組長,並由華大電子總經理擔任副組長。ESG工作小組主要負責將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「董事會的環境、社會及管治管理聲明」一節內。

4. 產品及服務

本集團秉承「知變圖新、誠達天下」的經營理念,參考《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》、《中華人民共和國廣告法》及行業政策,對本集團產品及服務的安全、廣告、標籤及私隱等方面的管理制度定期進行檢討,並持續完善相應信息安全管理體系、產品質量管理體系、知識產權管理體系及顧客服務體系。本集團於2021年在產品及服務的安全、廣告、標籤及私隱方面並沒有訴訟及違法違規事件。

4.1 Information safety

As the practitioner and promoter of the smart card chips design industry in the PRC, the Group regards maintenance of information safety as its own responsibility, maintains awareness of the laws and regulations regarding information safety management such as the Electronic Information Industry Production Safety Management Requirements, 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 Commercial Cryptographic Management Regulations, etc. The Group focuses on autonomous research and development of security smart card chips while building a safe operating environment, and provides the foundation for China's information technology modernisation and information safety.

The Group established an information safety management system by adhering to the Group's information safety approach of "Catering for demand for safety through system protection; seeking for continuous development through the involvement of all staff", with reference to the requirements of standards such as the Information Technology – Security Technology – Information Safety Management System – Requirements (ISO/IEC 27001), the Information Technology – Security Technology – Information Safety Management Practical Rules (ISO/IEC 27002), etc. The Group has also set up an information safety management team to coordinate information safety management work and ensure stable operation of the information safety management system.

In order to further consolidate and raise information safety performance and maintain the effective operation of the information safety management system, Huada Electronics established the information safety targets and the ancillary management requirements to assist external suppliers to improve information safety management. In 2021, an information safety awareness campaign for all employees was conducted to raise their awareness of information safety.

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,關注《電子信息 產業安全生產管理規定》、《中華人民共和國計 機信息系統安全保護條例》、《中華人民共和國國 機信息系統安全保護條例》、《中華人民共和國國 絡安全法》、《商用密碼管理條例》等信息安全 理相關的法律法規,研發自主可控的智能卡及 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,參考ISO/IEC 27001《信息技術-安全技術-信息安全管理體系-要求》、ISO/IEC 27002《信息技術-安全技術-信息安全管理實用規則》等標準要求,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。

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,華大電子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工作。於2021年對全體員工進行了信息安全意識宣貫,提升員工信息安全意識。

企業社會責任報告

Development of security chips

The Group strives to promote the continuous development of domestic security chips technology, products and applications. With globally advanced and domestic leading security attack and defense technology, covering the protection technology at levels such as the system level, algorithm level, circuit level, layout level, etc., with technologies such as side channel attack, malfunction-injection attack, physical attack technologies, etc., a well-established product safety management system was formed. A number of high-end security chips were accredited with security qualification certification such as the domestic EAL4+ Certificate, international CCEAL6+ Certificate, EMVCo Certificate, etc. 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, etc.

In 2021, the Group continued to enhance its products' comprehensive competitiveness in the application of smart card industry, expanded the application of EMV (ease of movement value) in the sector of financial payment, made breakthroughs in markets outside the PRC such as South Africa, and participated in the preparation of the Financial IC Card Operating System industry standard. The Group continued to lead the domestic 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 intelligent connected vehicle applications. Related products had also been gradually applied on a large scale in the information safety sector such as Internet of Things, Internet of Vehicles, 5G communication, and payment.

• 安全芯片開發

本集團致力於推進國產安全芯片的技術、產品及應用的持續發展。憑藉世界先進、國內領先的安全攻防技術,覆蓋系統級、算法級、電路級入版圖級等防護技術,具備側信道攻擊、故障注入全擊、物理攻擊等技術,形成了完整的產品之全管理體系;多款高端安全芯片獲得中國EAL4+、國際CCEAL6+及EMVCo等安全資質認證;安全芯片居民健康、公共交通、電信、網絡認證、身份識別、物聯網等領域。

2021年,本集團在智能卡行業應用方面持續提升產品綜合競爭能力,在金融支付領域拓展EMV(ease of movement value)應用,在南非等中國以外市場形成突破,並參與編製《金融IC卡操作系統》行業標準。本集團繼續引領國內安全芯片技術、緊隨國際水平,展現中國「芯」實力。本集團推出多款智能網聯車應用的車規級安全芯片為關推出多款智能網聯車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、5G通信、支付等信息安全領域逐步形成規模應用。

Safe operating environment

While focusing on the development of smart card chips with high security and high reliability, the Group also pays attention to the safety of physical environment, that is, protecting computer network equipment and facilities from being destroyed by accidents such as earthquakes, floods, etc., as well as human acts. The Group formulated a series of physical safety management system, such as the Physical Safety Control Procedures, the Security Facilities Management Measures, the Central Control Room Control Specifications, the Security Officer Management Measures, etc., for protecting the design and development of security smart card chips.

In 2021, the Group revised the Physical Safety Control Procedures, which involved adjustments to control methods such as control method for external visitors, etc. In addition, the Group conducted information safety audits on 37 suppliers, and requested the suppliers to improve on the issues identified during the audits and complete the improvements as scheduled.

• 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》等一系列物理安全管理制度,為智能卡及安全芯片設計及開發提供保障。

2021年,本集團對《物理安全控制程序》進行修訂,涉及對外來訪客的控制方法等內容的調整。此外,本集團對37家供應商開展信息安全審核,對審核發現的問題要求供應商進行改善並按期完成。

企業社會責任報告

4.2 Quality management

• Quality management system

The integrated circuits design operation of the Group comprises the design of security smart card chips and the development of application system. The Group is not involved in aspects such as manufacturing, assembling, transportation, etc., albeit adhering to the tenet of "Zero defect" in provision of products and services to customers as well as the quality approach of "Catering for customers' demand through continuous innovation; seeking for customers' satisfaction through the involvement of all staffs". The Group promotes comprehensive quality management with the involvement of all staffs, striving to control and continuously improve the entire process of production of products.

The Group established corresponding management measures for aspects such as product design and development, risk control, outsourcing of production control, and performance evaluation, in accordance with the requirements of ISO 9001 Quality Management System, so as to meet customers' demand for diversification, personalisation and refinement through systematic management.

In 2021, based on the foundation of conducting continuous ISO 9001 Quality Management System audits and follow-up works, the Group established a development process for the automotive project and initiated the revision of all quality management systems' documentation according to the requirements of IATF16949 Quality Management System.

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,但秉承著向顧客提供「零缺陷」產品及服務的宗旨,「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。本集團倡導全員參與的全面質量管理,致力於對產品的生產實現全過程控制及持續改進。

本集團按照 ISO 9001質量管理體系要求,在產品設計及開發、風險控制、生產外包控制、績效評價各環節建立了相應的管理辦法,通過體系化管理滿足顧客多樣化、個性化、精細化等訴求。

2021年,在持續開展ISO 9001質量管理體系審核及跟進工作的基礎上,本集團依據IATF16949質量管理體系要求,建立車規項目開發流程,並啟動了各質量管理體系文件的修訂工作。

企業社會責任報告

Quality management system 質量管理體系

Product design and development

產品設計及開發

Smart Card Chip Products Development Process, the Embedded Software documents for different types of products. 按照產品類型的不同制定了 《HED智能卡芯片產品開發 流程》、《嵌入式軟件產品開 發程序》和支持性文件。

Risk control 風險控制

research and development in accordance to the Management System Risk Management Control

Procedures. 按照《質量管理體系風險管 理控制程序》的要求在生 產、研發等方面對質量風險 進行識別、評估和應對。

Outsourcing of production control

生產外包控制

生產外包控制
Selection, evaluation and subsequent evaluation of suppliers in accordance to the requirements of the Supplier Management Control Procedures. 按照《供方管理控制程序》的要求,進行對供應商的選擇、評價及再評價。

Procurement and
Outsourcing Control
Procedures and established
inspection practice
guidelines for different
types of products to control of production. 制定《採購與外包控制程序》 及建立了不同類型產品的檢 測作業指導書,以管控生產 外包的質量。

Performance evaluation 績效評價

management system audits to ensure the effectiveness

system. 定期組織管理體系審核,確 保質量管理體系有效性。

Targets and Project Team Quality Targets, and achievement of the targets. 發布《部門質量目標》和《項 目組質量目標》,並定期監 察目標的完成情況。



企業社會責任報告

For substandard products found during operations, the Group will deal with the substandard products 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 rectification and precautionary measures, and be responsible to follow up on their implementation and the effectiveness of these measures. In 2021, there was no recall of the Group's products sold or delivered due to safety and health concerns.

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、糾正及預防措施制定,以及負責跟進該等措施的實施情況及成效。本集團於2021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。

For the management of labelling of product, the Group formulated labelling requirements for information such as product model number, product lot number, product quantity, time of processing, origin, etc. with respect to the packaging specifications for products such as IC card, smart card, etc.

在產品標籤的管理方面,本集團制定了針對IC 卡、智能卡等產品包裝規範,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。

Quality inspection procedures

The Group conducted quality inspection on products such as wafers, modules, cards, circuits, etc., 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, the professional high-precision instruments used for quality inspection are calibrated regularly to ensure the accuracy of the inspection result.

• 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、模組、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。

• Quality culture

The Group held quarterly quality meetings in 2021 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 treatments, so as to guide and enhance the staff's awareness of product and service quality, and create a quality culture of full participation.

• 質量文化

本集團於2021年召開季度質量會,通過定期編滙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。

企業社會責任報告

In addition, the Group required employees to complete online quality knowledge quizzes during the "Quality month" in 2021 and invited external professional lecturer to provide training on "Advance product quality planning", "Design failure mode and effects analysis" and "VDA6.3 process audit" for research and development personnels, so as to promote the integration of IATF16949 Quality Management System with the existing quality management system.

此外,本集團於2021年「質量月」活動中要求員工完成線上質量知識答題,並聘請外部專業講師向研發人員進行「先期產品質量策劃」、「設計階段的潛在失效模式分析」、「VDA6.3過程審核」培訓,推進IATF16949質量管理體系與現有質量管理體系的整合。

4.3 Research and development innovation, and intellectual property protection

The Group attaches importance to original innovation and collective innovative capabilities, scientific discovery and technology invention, and through incentive measures encourage employees to actively apply for intellectual properties and publish academic papers, etc. Huada Electronics has established awards such as the Technology Contribution Award and the Technology Innovation Award, etc. to commend employees for their significant research and development innovation achievements. In 2021, 15 and 6 employees received the Technical Contribution Award and Technical Innovation Award, respectively. In addition, Huada Electronics has conducted training on "Smart card chip products development process", aiming to cultivate research and development personnel's innovation awareness. As at 31 December 2021, the Group owned 438 patents.

The Group conducts patent retrieval and infringement analysis at all stages of research and development, and maintains awareness of the patent information of other parties to reduce the risk of infringing others' intellectual properties. Moreover, the Group conducts intellectual property training for employees every year. In 2021, Huada Electronics conducted training activities such as training on "Fundamental of intellectual property", training on "IEEE (Institute of Electrical and Electronics Engineers) literature database", etc., to constantly raising employees' awareness on intellectual property protection.

The Group respects intellectual properties and regulates the usage of intellectual properties from customers and third parties. It also keeps all its business partners' product's technical information strictly confidential. Moreover, the Group concerns about the protection of its own intellectual properties, and issued the Intellectual Property Management Measures for the first time in 2003 and continues to improve and amend it.

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,科學發現及技術發明,亦通過獎勵措施鼓勵員工積極進行知識產權申請、論文發表等。華大電子設立了《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,2021年分別有15名及6名員工獲得《技術貢獻獎》及《技術創新獎》。此外,華大電子開展「智能卡芯片產品開發流程」培訓,旨在培養研發人員創新意識。截至2021年12月31日止,本集團擁有專利438項。

本集團於研發各環節開展專利檢索與侵權分析,並保持對他人的專利信息的關注,減少侵犯他人知識產權的風險。此外,本集團每年向員工開展知識產權培訓。華大電子於2021年開展「知識產權基礎」培訓、「IEEE(電氣與電子工程師協會)文獻數據庫使用」培訓等培訓活動,持續提升員工知識產權保護意識。

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。此外,本集團關注對自身知識產權的保護,於2003年首次發佈《知識產權管理辦法》,並持續完善修訂。

企業社會責任報告

The Intellectual Property Management Measures explicitly defines the responsibilities and working procedures for all departments and personnel, and states the detailed requirements regarding the assessment, searching, retrieval and analysis of relevant intellectual properties during the technology research and development process, contract filing management, intellectual properties ownership, protection and application of intellectual properties, trainings and awards. The Intellectual Property Management Measures facilitates the formation of innovation mechanism, and creates a regulated sound environment with rules and precedents to follow for obtaining and protecting intellectual properties.

《知識產權管理辦法》明確了各部門及人員的職責及工作程序,對包括技術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、知識產權的申請、培訓及獎勵等都做了詳細的規定,《知識產權管理辦法》促進了創新機制的形成,營造了獲取和保護知識產權工作有法可依、有章可循的良好環境。

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.

Customer Complaint Procedures are formulated by the Group to assist customers to solve any issues encountered after products are sold and during usage, and feedback from customers will be used for continuous raising of products and services quality. In addition, depending 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 analyse and 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.

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。

本集團制定《顧客抱怨處理程序》,幫助解決在產品銷售後、顧客使用中遇到的任何問題,並同過顧客的反饋持續提升產品及服務的質量,本集團根據顧客提出的問題,組織等量的問題,本集團隊、銷售服務團隊、生產加工項目內方,對於中相關的專業人員,共同完成整個問題和正作,挖掘問題發生的根本原因,制定與強不使,並跟進顧客的後續使用情況,以確保該等措施的成效。

企業社會責任報告

As for customers' information safety 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 information confidentiality for both sides during business interaction between the Group and customers.

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 questionnaires to customers each year to understand customer's satisfaction, opinions and suggestions on aspects such as products' or projects' design quality, service quality, and pace and capability in handling issues arose, and the Customer Satisfaction Surveillances and Measurements Evaluation Report will be prepared summarising feedbacks from customers and passed to the respective departments for continuous raising of products and services quality.

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程度,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。

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

Indicators	指標	2021 2021年度	2020 2020年度
Number of customer complaints received	顧客投訴事件次數	112	101
Percentage of customer complaints dealt with (%)	顧客投訴處理率(%)	100.00	100.00
Customer satisfaction (%)	顧客滿意度(%)	96.25	95.40

企業社會責任報告

5. EMPLOYEES

The Group regularly reviews and improves the management systems regarding aspects such as employees' rights, remuneration and benefits, recruitment and promotion, training and development, working environment and occupational health, child labour, forced labour, etc. by adhering to the "Responsibility orientated, attaches importance to competent and rewards linked with performance" talent philosophy, and with reference to operational location's laws and regulations relevant to employment 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 Regulations on Paid Annual Leave for Employees, etc. and the industrial policies. In 2021, there was no litigation against the Group and no violation of laws and regulations by the Group in relation to employment, occupational health and safety, child labour and forced labour.

5.1 Employment and employee benefits

• Employment and employees' rights

The Group attaches importance to attracting and fostering of talents, protecting employees' equal rights in areas such as terms of employment, training, promotion, remuneration, etc. and ensuring no discrimination against any person on grounds such as gender, marital status, disability, age, race, family conditions, nationality, religion, etc. to take place. In addition, the Group resolutely prohibits child labour and all forced labour, so as to comply with the relevant laws and regulations.

The Group formulated the Administrative Management System, which clearly sets out the management of the recruitment and dismissal of employees. The Group also formulated the Employee Codes, which covers area such as standards of daily behaviour, attendance management, sick leave and other leave management, performance management, remuneration and benefits, trainings of employees.

5. 員工

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》等與僱傭相關的營運地法律法規及行業政策,本集團對員工權益、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2021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違規事件。

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、晉陞、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,以確保符合相關法律法規。

本集團制定了《行政管理制度》,其中明確規定了在員工招聘及解僱方面的管理工作。本集團亦制定了《員工守則》,涵蓋員工的日常行為準則,考勤管理,病、事假管理,績效管理、薪酬及福利、培訓等內容。

企業社會責任報告

The Group encourages employees to introduce talents with competitiveness. Through regularly announcing talent needs and employees recommending talents based on such needs, the Group identifies talents who will benefit its development, enhances the capability of the Group and enlarges its talent pool.

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,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。

In addition, the Group established an e-HR human resources information system covering all employees, featuring online management of employee's promotion, training and remuneration, etc.

此外,本集團建立了覆蓋全體員工的e-HR人力資源信息系統,涵蓋員工晉升、培訓、薪酬等的在線管理。

In 2021, the intense competition for talents in the integrated circuits design industry has led to the loss of certain employees of the Group. The Group, through internal and external salary comparisons and comprehensive consideration of factors such as annual labour cost budget, annual staffing requirements, job position values, etc., has completed a reasonable adjustment of the salary levels of employees in August 2021.

2021年,集成電路設計行業的人才競爭激烈,導致本集團若干員工的流失。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、崗位價值等因素,於2021年8月完成員工薪酬水平的合理調整。

Overvi	Overview of employment and employee's rights 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 on the basis of merit". ✓ 招聘:按照「公開、平等、競爭、擇優」的原則招聘錄用新員工。 	✓ 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法規的要求。	 ✓ Remuneration: The remuneration of each position is determined with reference to market level and with reasonable adjustments after considering job position values and contributions. ✓ 薪酬: 參考市場水平定義崗位薪酬,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 Codes 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,並符合營運地法律法規的要求。	✓ 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 pursuant to 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法規提供。	✓ Benefits: Employees are provided with various benefits such as annual body checks, supplementary medical insurance, etc. 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。					

企業社會責任報告

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

Indicators		指標		2021 2021年度	2020 2020年度
Number of employees		員工人數		407	378
By gender:	Male	按性別:	男性	255	239
	Female		女性	152	139
By type of employment:	Permanent	按僱傭類型:	勞動合同制	395	364
	Secondment		勞務派遣制	12	14
	Part-time		兼職	0	0
By age group:	> 50	按年齡組別:	50歲以上	16	17
	30 to 50		30歲至50歲	334	315
	< 30		30歲以下	57	46
By geographical region:	China	按地區:	中國	407	378
	Overseas ¹		海外1	0	0
Employee turnover rate (%)		員工流失率(%)		15	10
By gender:	Male	按性別:	男性	18	10
	Female		女性	9	10
By age group:	> 50 ²	按年齡組別:	50歲以上 ²	19	0
	30 to 50		30歲至50歲	14	10
	< 30		30歲以下	18	15
By geographical region:	China	按地區:	中國	15	10
	Overseas ¹		海外1	0	0

Notes:

附註:

- 1. Excluding Hong Kong, Macau and Taiwan.
- The turnover rate of the Group's employees at the age group of over 50 for 2021 increased significantly when comparing with 2020, mainly due to the fact that more employees reached the mandatory retirement age and retired in 2021.
- Employees communication and caring

Effective communication with employees is crucial to the formulation of decision-making and enterprise 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.

- 1. 不含香港、澳門及台灣。
- 2. 2021年度本集團50歲以上組別員工流失率較2020年度 有較明顯上升,主因為2021年度有較多員工達強制退休 年齡並退休。

• 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,營造坦誠開放的溝通氛圍。

The Group cares and supports every employee who is in need. Through proactively conducting multi-level and multi-channel employee caring activities, the Group visits employees suffering from injuries and sickness, attends employees' wedding ceremony and funeral ceremony and helps employees who are in difficulties. The Group also conducts consolatory activities on public holidays strictly in accordance with the relevant requirements of the China Federation of Trade Unions. Huada Electronics formulated the Trade Union Expenditure Management Measures, stating the detailed requirements on expenditure for condolences to staff and support for employees who are in difficulties. As for caring for female employees, Huada Electronics has set up nursing rooms, and subsidised vaccination for female employees.

本集團關心及支持每一位需要幫助的員工。本集 團通過積極開展多層次、多渠道的員工關愛 動,做到傷病必訪、婚喪必訪、幫助困難員工 同時嚴格按照中國總工會的有關規定,開展法 節假日慰問活動。華大電子制定了《工會經費 理辦法》,對員工慰問、困難員工幫扶等的經 實 出做了詳細規定。在女員工關愛方面,華大電 設置了母嬰室,並為女員工接種疫苗提供補助

Overview of caring activities for employees in 2021

- "Sending coolness" consolatory activity in summer, providing employees with cooling consolatory products to prevent summer heat.
- "Sending warmth" consolatory activity in winter, providing employees with consolatory gifts for keeping warm.

Overview of employee activities in 2021

- → "Happy new year" activity.
- "Magnificant March glamour blossoms" Women's Day activity, providing female employees with holiday consolatory gifts.
- → "Be healthier to enjoy life" running activity.
- ♦ Chess tournament and table tennis tournament.

2021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。

2021年度員工活動概覽

- ◆ 「開心過大年」活動。
- ◆ 「絢麗三月 魅力綻放」三八女神節活動,向 女員工發放節日慰問品。
- ◆ 「越健康 享生活」健步跑活動。
- ◆ 棋類大賽及乒乓球比賽。

企業社會責任報告

5.2 Training and development

Employees training

Facilitating employees' growth provides impetus for corporate development. The Group's employee training is divided into three levels: corporate level, departmental level and individual level. Corporate level training focus mainly on cross-departmental and internal all-purpose trainings, such as new employee trainings and quality and safety requirements trainings, etc. Departmental level training focus 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.

Every employee of Huada Electronics is entitled to an individual training allowance of up to RMB3,000 per person per year starting from the 13th month onwards. Such allowance can be used for trainings as designated by the Group, or can be used in relation to employee's job-related trainings at his/her own choice subject to prior approval by the Group.

Huada Electronics formulated the Training System, which covers area such as types of training and effectiveness assessment, training implementation, internal training instructors, etc., as well as formulated the four major categories, namely system, rules and regulations, experience exchanges, knowledge and skills, and cultural awareness, to be covered in the annual training programme.

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、內部通用性培訓,如新員工培訓和質量及安全要求培訓等,部門級培訓側重於知識技能提升培訓,在部門專業方向上實施,個人培訓作為前兩者的有益補充。

華大電子員工自入職第13個月起享有個人培訓津貼,每年每人最高限額人民幣3,000元,可以由本集團指定的培訓時使用,或由員工自主選擇與本職位相關的培訓,在經過申請同意後參加使用。

華大電子制定了《培訓制度》,包含培訓類型以及效果評估、培訓實施、內部培訓講師等內容,並制定了涵蓋體系及規章制度、經驗交流、知識和技能及文化意識四大類的年度培訓計劃。

Overview of employee training activities in 2021 2021年度員工培訓活動概覽					
Training project 培訓項目	Objectives 目的				
New employees training新員工培訓	 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。 				
Fresh graduates training應屆畢業生培訓	Broaden fresh graduates' knowledge of integrated circuits.擴展應屆畢業生的集成電路知識。				
 Strategic planning training for senior management 高層管理人員戰略規劃培訓 	 Assist senior management in anchoring the company's development priorities. 協助高層管理人員錨定公司發展重點。 				

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

Indicators		指標		2021 2021年度	2020 2020年度
Percentage received t	(%) of employees who training	員工接受均	音訓百分比(%)	94	92
By gender:	Male	按性別:	男性	63	63
	Female		女性	37	37
By grade:	Senior management	按級別:	高級管理層	2	2
	Middle management		中級管理層	9	11
	Grass-roots employees		基層員工	89	87
Average nui	mber of hours of	員工每年人	人均接受培訓		
training re	eceived per employee per year	的小時數	女	27	32
By gender:	Male	按性別:	男性	24	31
	Female		女性	30	34
By grade:	Senior management	按級別:	高級管理層	114	63
	Middle management		中級管理層	61	58
	Grass-roots employees		基層員工	21	29

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 headcount. The technicians are divided into six 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.

• 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60%以上的技術類員工實行雙通道發展 路徑,技術類分為六級,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。

企業社會責任報告

5.3 Occupational health and safety

Production safety management

In 2021, the new revision of the Production Safety Law of the People's Republic of China was officially implemented. The Group revised the Production Safety Management Requirements in a timely manner, improved the expression of working approach and principle, revised the management structure and functions, introduced a production safety reporting system, introduced punitive measures for violation of safety guides and safety hazards, and conducted the relevant trainings.

In order to ensure safe operation throughout the year, Huada Electronics conducted safety thematic trainings, fire evacuation drills, etc. for employees in 2021.

5.3 職業健康及安全

• 安全生產管理

2021年,新版《中華人民共和國安全生產法》正式實施,本集團及時修訂了《安全生產管理規定》,完善了工作方針及原則的表述,修訂了管理架構與管理職能,新增了安全生產工作報告制度,新增了對違反安全指引及安全隱患的懲罰措施;並組織開展相關培訓。

為確保全年安全營運,華大電子於2021年組織員工開展安全專題培訓、消防疏散演練等活動。

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	2021 2021年度	2020 2020年度
Number of work-related fatalities	因工作關係而死亡的人數	0	0
Number of work-related injuries	工傷事故發生次數	1	0
Number of lost work days due to	因工傷事故損失的工作日數		
work-related injuries		2	0

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 is committed 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 set out 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 traffic safety insurance for employees (such as insurance for employee travelling on planes, cars, etc.) to provide coverage for safe travel.

• Anti-pandemic actions

In 2021, in order to prevent and control the prolonged COVID-19 pandemic, the Group has prepared and published the 2021 Edition of the COVID-19 Pandemic Prevention and Control Measures, promptly disseminated the requirements and precautions for the prevention and control of the pandemic to all employees through various channels, and set up disinfection zone within the office area.

• 優質工作環境

• 抗疫行動

2021年,為做好新型冠狀病毒疫情常態化防控工作,本集團編製並印發《2021版新型冠狀病毒疫情防控辦法》,通過多種渠道及時向全體員工發佈疫情防控要求及注意事項,並在辦公區設置消毒區。

企業社會責任報告

At the same time, the Group promptly organised vaccination of employees against COVID-19 to ensure the health and safety of employees. During the year, over 80% of the Group's employees were vaccinated with the first and the second dose of COVID-19 vaccine.

同時,本集團及時組織員工接種新冠疫苗,切實保障員工的健康及安全。年內本集團逾80%員工已接種第一劑及第二劑新冠疫苗。

6. COMPLIANCE OPERATION

The Group considers the compliance with laws and regulations as the cornerstone of an enterprise. The Group regularly reviews and improves the management systems regarding aspects such as supply chain management and anti-corruption with reference to operational location's laws and regulations relevant to the compliance operation such as the Company Law of the People's Republic of China, the Contract Law of the People's Republic of China, the Anti-Unfair Competition Law of the People's Republic of China, etc. and the industrial policies. In 2021, there was no confirmed corruption incident related to and no litigation in relation to confirmed corruption incident against the Group or its employees. The Group has complied with all laws and regulations in relation to bribery, extortion, fraud and money laundering.

In 2021, the Group sent the Integrity Reminder Letter to directors, middle and senior level staff, explained the disciplinary requirements for expense reimbursement in the light of the business nature and job characteristics of different departments, organised employees to watch business ethics education publicity videos 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, the Group's major suppliers are integrated circuit chips manufacturers. The effective management of suppliers during the course of the Group's development can help the Group to reduce costs and cooperation risk, raise the quality of products and services, and build up a quality brand. To this end, the Group has formulated a sound supplier management system, involving aspects such as supplier introduction and risk assessment, annual audits, and win-win cooperation.

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》、《中華人民共和國合同法》、《中華人民共和國反不正當競爭法》等與合規營運相關的營運地法律法規及行業政策,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2021年並沒有與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法規。

2021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,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在發展過程中降低成本、降低合作風險,提高產品及服務質量,建立良好品牌。為此,本集團制定了完善的供應商管理體系,涉及供應商引入及風險評估、年度審核、合作共贏等方面。

企業社會責任報告

Supplier management system 供應商管理體系

Supplier introduction and risk assessment

供應商引入及風險評估

Select approved suppliers through procedure such as basic information assessment and on-site audit, etc. of potential suppliers.

通過對潛在供應商進行基本信息評估 現場案核等程序,選出合格供應商。

The Group also requires suppliers to provide environmental management system certification, RoHS (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Directive) report, etc. according to customers' requirements. 本集團同時根據顧客要求,要求供應商提供環境管理體系認證證書、RoHS (《關於限制在電子電器設備中使用某些有害成分的指令》)報告等。

Annual audits

年度審核

Annual evaluation of approved suppliers is organised, mainly comprehensive evaluation on aspects such as quality and information safety, etc. and the cooperation with suppliers who do not meet the requirements will be canceled. 組織對合格供應商進行年度評價,主要從質量、信息安全等方面進行綜合評價,對於不符合要求的供應商將取消與其合作。

Win-win cooperation 合作共贏

Information safety related trainings and communications conducted with integrated circuit chips manufacturers and testing centres on a regular basis. 定期與集成電路芯片製造廠商、測試中心開展與信息安全相關的培訓與交流。

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

In addition, the Group formulated the Procurement and Outsourcing Control Procedures, setting out 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 approval, procurement implementation, quality control, acceptance settlement, etc., so as to ensure the materials and products procured and outsourced comply with the requirements.

Periodic appraisal of suppliers

The Group chooses to cooperate with suppliers which comply with the requirements of the PRC laws and regulations in aspects such as 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 safety management system and quality management system.

本集團制定了《供方管理控制程序》,規定了對生產類供應商的選擇、評價及管理的要求,其中詳細規定了供應商的選擇、審批、日常管理以及再評價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。

此外,本集團制定有《採購與外包控制程序》,規定了生產類採購及外包管理程序及規則。該程序對需求計劃,訂單形成及審批,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 方面均符合中國法律法規的要求,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。

企業社會責任報告

The Group carries out regular annual appraisal of its approved suppliers. The appraisal of the approved suppliers is based on criteria such as the availability of the supply of goods in the previous year, the requirement planning for the coming year, etc. Based on the results of the appraisal, the Group will adjust the eligibility and grading of suppliers accordingly and compile a revised list of approved suppliers for the next year, while ad hoc two-party audits will also be conducted on suppliers as part of daily management. In the event that an approved supplier has no business dealing with the Group for the past 3 consecutive years, the qualification of such supplier will be canceled. In 2021, the Group conducted appraisal on 61 suppliers and all of them qualified in all aspects.

本集團每年定期對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,形成新一年度的合格供應商名單,日常管理中還會對供應商進行不定期的二方審核。如果合格供應商資網等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2021年對61家供應商進行評審,各供應商各項資質均合格。

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

Indicators	指標	2021 2021年度	2020 2020年度
Total number of suppliers By geographical region	供應商總數(間) 按地區	61	61
• China	中國	53	53
• Overseas¹	● 海外1	8	8

Note:

1. Excluding Hong Kong, Macau and Taiwan.

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".

附註:

1. 不含香港、澳門及台灣。

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。

企業社會責任報告

In order to regulate the gift accepting arrangement during business interactions on behalf of the Group, eradicate the possibility of violating laws and disciplines, and strengthen self-restraint and awareness of preventing corruption, the Group formulated the Handing Over of Gifts Collected Requirements (Provisional), the "Significant issue, key official appointment and removal, significant project investment and large value fund utilisation" Decision-making System Implementation Measures and stepped up conducting anti-corruption education for employees.

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違紀事件,增強員工的自我約束,防止腐敗的意識,本集團制定了《禮品上繳規定(試行)》、《「三重一大」決策制度實施辦法》,並加强對員工開展反貪污教育。

Complaint and whistleblowing management

In order to regulate the management of complaints and whistleblowing reporting, the Group formulated the Complaints and Whistleblowing Management Measures. Employees of the Group and outsiders can report, in anonymity, corporates' or individuals' suspected misconduct relating to corruption, including bribery, extortion, fraud and money laundering, malpractice or irregularity during operations to either the internal audit department or the audit committee of the Company through letter, telephone, internet, facsimile, etc.

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.

• 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》。本集團內部員工、外部人員均可匿名通過信件、電話、互聯網、傳真等渠道向內部審核部門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。

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。

企業社會責任報告

A special meeting will be convened Staff will be designated to consider the whistleblowing case or a project team and investigation results and to come up will be established to investigate with a recommendation. and obtain evidence on the whistleblowing case. 召開專題會議,審議舉報 安排專人或成立專項小 個案及調查結果, 組了解舉報個案,調查取證。 得出處理方案。 A feedback is made The investigation and collection of evidence Whistleblowing cases are registered should be completed within the prescribed to the informer. and filed once received. 反饋舉報人。 對收到舉報個案, time limit and reported to the management 立即登記在案。 after reaching a preliminary conclusion. 在規定期限內完成調查 取證工作,得出初步結論 並向管理層滙報。

7. ENVIRONMENT

The Group is committed to reducing the possible adverse impact of its operations on the environment. The Group regularly reviews the environmental protection management measures with reference to operational location's laws and regulations relevant to environment such as the Environmental Protection Law of the People's Republic of China and the industrial policies, encourages employees to take responsible actions on the environment and regularly provides employees with relevant training. In 2021, there was no environmental pollution incident, and no litigation against the Group and no violation of laws and regulations by the Group in relation to environmental protection.

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》等與環境相關的營運地法律法規及行業政策,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2021年並沒有環境污染事件,及在環保方面並沒有訴訟及違法違規事件。

企業社會責任報告

7.1 Green operations

The environmental impacts of the Group's operations mainly include the use of energy and water resources, 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.

7.1 綠色營運

本集團營運過程中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 室氣體排放方面。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.	Climate change and use of resources 氣候變化及資源使用	 Strengthening low-carbon publicity and education to promote energy conservation philosophy. Water conservation and energy conservation measures, and recycling of packaging materials used in finished products during operations. 加強低碳宣傳和教育,倡導節能理念。營運過程中的節水及節能措施、對製成品所用包裝材料進行循環使用。 			
2. 2.	Emissions 排放物	 Measures to reduce greenhouse gas emission and office waste generated during operations. 對營運過程中產生的溫室氣體排放及辦公廢棄物的減量化措施。 			
3.	Incorporating environmental protection awareness 環保意識融入	 Conducting environmental protection educational activities to help employees gain awareness of environmental protection and natural resources conservation. 開展環保教育活動,幫助員工樹立環保與節約自然資源意識。 			

• Climate change and use of energy

The Group's integrated circuits design operation does not involve manufacturing, and its four business operations 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. However, in response to China's "Peak carbon dioxide emissions and carbon neutrality targets" and to reduce the Group's operating costs, the Group is also doing its best to promote the efficient use of resources and to reduce energy consumption (including electricity consumption and fuel consumption of vehicles for office use) during operations.

With regards to management system, 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. In 2021, the Group revised the Use of Company Vehicles Management Requirements, requiring the timely recording of the mileage and fuel consumption of company vehicles after use to reduce gasoline consumption through standardised management.

With regards to awareness publicity, the Group organised the "2021 energy conservation publicity week and low-carbon day" activity, and extensively conducted low-carbon publicity and education through activities such as low-carbon and energy conservation knowledge publicity exhibition, view collection on low-carbon and energy conservation and seminars on carbon neutralisation knowledge, promoting the energy conservation philosophy of "Low-carbon life, green building the future".

With regards to use of energy, Huada Electronics arranged for the cleaning 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.

• 氣候變化及能源使用

本集團的集成電路設計業務不涉及製造環節,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,因此氣候變化對本集團的營運影響甚微。但是,為了響應中國「碳達峰、碳中和目標」,本集團亦盡己所能倡導資源的高效使用,竭力減少營運過程中的能源消耗(包括耗電及辦公用車的耗油),降低本集團的運營成本。

在管理制度方面,本集團將員工節水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。2021年,本集團修訂了《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,本集團組織了「2021年節能宣傳周和低碳日」活動,通過低碳節能知識宣傳展出、低碳節能意見徵集及碳中和知識講座等活動,廣泛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。

在能源使用方面,華大電子對辦公大樓內的VRV (變製冷劑流量多聯式)空調進行清洗,保溫管排查等,加強其工作效率,降低能耗。

企業社會責任報告

Use of water resource

As the Group's consumption of water resource mainly arises from operation of its offices, and currently the Group's water source is municipal water supply, it is not facing any problem and risk in accessing sufficient water source. The Group took the initiative to promote the basic philosophy of water conservation to its employees by 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.

The Group also established an office automation ("OA") system to implement paperless office. Aspects such as the receiving and sending of official documents, circulation of documents, sharing of departmental documents, etc. within members of the Group are all carried out through the OA system, so as to achieve paperless operation of office process. On the premise of protecting printing privacy, the Group implements double-sided printing, 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.

Emissions

Apart from greenhouse gases and non-hazardous wastes produced in offices (such as waste paper), the Group does not produce significant exhaust emission, cause water and land pollutions, generate hazardous wastes and other environmental impacts during operations. The Group reduces greenhouse gas emission through electricity conservation. Non-hazardous wastes are dealt with by property management companies. The Group is unable to quantify its production. The Group also reduced the use of paper and waste paper produced through implementation of paperless processes. For old computers generated from office use, the Group shall pass them to a third party organisation for disposal in accordance with the Equipment Management and Control Procedures. In 2021, in order to implement the new Prevention and Control of Environmental Pollution Caused by Solid Waste Law of the People's Republic of China, the Group improved the disposal method of waste toner cartridges by recycling them from the newly hired printer supplier to reduce environmental pollution.

• 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 水源方面的問題及風險。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。

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;推行雙面打印紙張,在保障打印私隱的前提下重複利用廢棄紙張。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。

排放物

除溫室氣體及辦公環節產生的無害廢棄物(如廢紙等)外,本集團於營運過程中並無產生顯著及類類,本集團於營運過程中並無產生顯著及其放、向水及土地排污、產生有害廢棄物以與排煙。 環境影響。本集團通過節理經濟,本人與一個人。 無害廢棄物均交生量。 無害廢棄物的廢棄電腦,本集團亦通過對對之, 於一個人民共和國固體廢物污染環境防治法》的 於由第三方機構進行處置。 2021年,為分別, 於自第三方機構進行處置。 2021年,為分別, 於自第三方機構進行處置。 2021年,為分別, 於一種人民共和國固體廢物污染環境防治法》, 新本 集團改進了廢棄碳粉匣的處置, 所為治 , 新本 打機供應商進行回收, 通過循環使用減少環境污 染。

企業社會責任報告

Statistics on environment key performance indicators

環境關鍵績效指標統計

Indicators	指標	Units 單位	2021 2021年度	2020 2020年度	2024 target 2024年度目標
Total greenhouse gas emission ¹	總溫室氣體排放量1	ton of CO ₂ equivalent 噸 CO ₂ 當量	1,132	1,166	
 Scope 1 greenhouse gas emission² 	● 範圍1溫室氣體排放量²	ton of CO ₂ equivalent 噸 CO ₂ 當量	23	25	
 Scope 2 greenhouse gas emission³ 	• 範圍2溫室氣體排放量 ³	ton of CO ₂ equivalent 噸 CO ₂ 當量	1,109	1,141	
Greenhouse gas emission per square meter of floor area	每平方米樓面面積的溫室 氣體排放量	ton of CO ₂ equivalent/m ² 噸 CO ₂ 當量/平方米	0.09	0.07	0.09
Waste toner cartridges produced	廢棄碳粉匣產生量	number 個	66	94	109
Total electricity consumption	總耗電量	MWh 兆瓦時	1,899	1,870	
Electricity consumption per square meter of floor area4	每平方米樓面面積 的耗電量⁴	kWh/m² 千瓦時/平方米	144.59	107.27	95.51
Total water consumption	總耗水量	m³ 立方米	9,884	10,563	
Water consumption per square meter of floor area	每平方米樓面面積 的耗水量	m³/m² 立方米/平方米	0.75	0.61	
Total fuel consumption	總耗油量	litre 升	8,700	9,375	
Fuel consumption per capita	人均耗油量	litre/capita 升/人	21.38	24.80	26.04
Volume of paper used in offices	辦公用紙量	ton 噸	1	2	
Volume of packaging materials used in finished products	製成品所用包裝材料量	ton 噸	6	6	

附註:

Notes:

- The total greenhouse gas emission is the sum of Scope 1 and Scope 2 greenhouse gas emission.
- 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.
- 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。
- 2. 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。

企業社會責任報告

- Scope 2 greenhouse gas emission is calculated based on electricity consumption data and grid-based 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. According to the Reporting Guidance on Environmental KPIs issued in May 2021, the national grid-based emission factors for China is 0.6101 kg CO₃/kWh (the Ministry of Ecology and Environment of the People's Republic of China (2019)), and Scope 2 greenhouse gas emission for 2020 has been restated using such emission factors. In December 2021, the Ministry of Ecology and Environment of the People's Republic of China issued the Guidelines on Enterprises Greenhouse Gas Emission Accounting and Reporting for Power Generation Facilities (2021 Revision) (Consultation paper), adjusting the national grid-based emission factors for China to 0.5839 kg CO₂/kWh, and Scope 2 greenhouse gas emission for 2021 is calculated using the gridbased emission factors of 0.5839 kg CO₂/kWh.
- 4. Although the Group's total electricity consumption for 2021 remained almost the same as 2020, the reduction in office space due to the relocation of one of the Group's subsidiaries to a new office site in 2021 has resulted in electricity consumption per square meter of floor area for 2021 increased significantly when comparing with 2020. The Group will continue to monitor the changes in such indicator and assess the need to revise the previously set 2024 target in a timely manner.
- 3. 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,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。 根據2021年5月發佈的《環境關鍵績效指標匯報指引》, 中國國家電網排放系數為0.6101 kg CO₂/kWh(中華人民 共和國生態環境局(2019)),2020年度的範圍2溫室氣體 排放量已採用該排放系數重列。2021年12月,中華人 民共和國生態環境局發佈《企業溫室氣體排放核算方法 與報告指南發電設施(2021年修訂版)》(徵求意見稿), 將中國國家電網排放系數調整為0.5839 kg CO₂/kWh, 2021年度的範圍2溫室氣體排放量已採用電網排放系數 0.5839 kg CO₂/kWh進行計算。
- 4. 儘管本集團2021年度的總耗電量與2020年度基本持平,但由於本集團的一家附屬公司於2021年搬遷至新的辦公場地,辦公面積有所縮減,導致2021年度的每平方米樓面面積的耗電量較2020年度有較明顯上升。本集團將持續監察該指標的變化情況,並適時評估是否需要修訂早前訂立的2024年度目標。

企業社會責任報告

7.2 Green products

The Group is principally engaged in the business of design of security smart card chips. Overall, despite smart card chips only accounting for a relatively small portion of the technological product, smart card chips are the core to drive the operation of the products, and good design can effectively reduce the impacts on the environment throughout the entire life cycle of the product.

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。 智能卡芯片在科技產品整體來説佔比較小,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。

Design phase 設計階段

During the design phase of smart card chips, the Group's impacts on the environment include greenhouse gas emission, and use of energy and water resources, etc. The Group implements a green office, which reduces greenhouse gas emission and resources consumption. 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。

Production phase 生產階段

The impacts on the environment 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. 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, modules, circuits and cards. All products meet the requirements of RoHS. In particular, the smart card chips, modules and circuits also meet the requirements of REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals).

本集團產品形態包括智能卡芯片、模塊、電路及卡片。所有產品均滿足RoHS要求,其中智能卡芯片、模塊及電路同時滿足REACH(《化學品的註冊、評估、授權和限制》)要求。

企業社會責任報告

8. COMMUNITY INVESTMENT

The Group strives to be an outstanding corporate citizen by focusing on community building, actively practicing corporate social responsibility, and continuously influencing employees and key stakeholders in this way.

The Group invested RMB300,000 in 2021 to a Village Revitalisation Special Fund organised by China Electronics Corporation Limited, and solved the lack of equipment for online learning and working from home of about 300 people with disabilities during the pandemic through computer equipment donations.

8. 社區投資

本集團關注社區建設,積極踐行企業社會責任,並以此不斷影響員工和重要利益相關方,致力於成為卓越的企業公民。

本集團於2021年投入人民幣30.0萬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; 另於疫情期間通過捐贈電腦設備解決了約300名 殘障人士線上學習和在家工作的硬件困難。

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

Indicator	指標	Units 單位	2021 2021年度	2020 2020年度
Investment in community welfare ¹	社區公益投資1	RMB'000 人民幣千元	300	300

Note:

 Excluding computer equipment donated by the Group to people with disabilities. 附註:

1. 不含本集團向殘障人士捐贈的電腦設備。

