



HUAWEI DIGITAL POWER 2022 SUSTAINABILITY REPORT



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About Huawei Digital Power

Huawei Digital Power Technology Co., Ltd, is a world's leading provider of digital power products and solutions. We are committed to integrating digital and power electronics technologies, developing clean power, and enable energy digitalization to drive energy revolution for a better, greener future. At present, we have about 6,000 employees, conducting business in more than 170 countries and regions worldwide, serving over 3 billion global population.

Clean Power Generation

We give full play to the advantages of digital and power electronics technologies, and took the lead in integrating more than 30 years of expertise in digital information technology with the photovoltaic, energy storage, cloud computing and AI. Focusing on power generation, power transmission and distribution, centering on three major scenarios such as large-scale ground utility, industry & commerce, and household use, we launch FusionSolar PV and storage solution. We are committed to building the clean energy generation system driven mainly by PV & ES solution, and developing a new-type power system with emphasis on new energy, in order to combine "Source-Grid-Load-Storage" with multi-energy complementation in a real sense. That will make the new energy development transform from power generation with increment as the core to power generation with grid stock as the core, and in turn boost the transition from fossil energy to clean energy.



Mobility Electrification

Smart EV

As a power domain solution provider, Huawei Smart EV has capitalized on its innovative technologies to assist the industry in creating the DriveONE power domain all-scenario products and solutions featuring "Convergence and Simplicity, Safety & Reliability, Excellent Experience, and Cloud-based AI", which will help carmakers make good cars and improve the user experience, in addition to expediting the electrification of the automotive industry.

Smart Charging Network

As a charging network solution provider, Huawei Smart Charging Network, with its full liquid cooling ultra-fast charging solution "One Second for One Kilometer", vows to build high-quality and sustainable smart charging network, guide the new-type electric travel, and do its bit for a better and greener travel.



Green ICT Power Infrastructure

Data Center Facility

In the area of data center power, Huawei ICT Power Infrastructure, based on its creative notion GSSR (Simple, Green, Smart, Reliable), is devoted to figuring out low-carbon solutions tailored to large, medium, and small data centers and industrial critical power, in order to ensure the digital economy's steady running.

Site Power

Under the guidance of the *Site Power Low Carbon Target Network White Paper*, Huawei Site Power begins with green network construction, green power supply, and green operation to assist the operators in building an all-scenario green low-carbon network through life cycle.



Digital Energy Management Platform

Centering on “Source-Grid-Load-Storage”, Huawei Digital Power builds the energy digitalization enabling platform, opens Huawei native applications and partner SaaS application in the form of service through professional energy PaaS platform, and adopts “Platform+Ecology” mode to continuously build the “Black Land” for energy management service. By deploying equipment of million level in multiple clusters, Huawei Digital Power effectively unifies the management over energy flow and information flow in multiple scenarios including low-carbon home, low-carbon park, low-carbon ICT, low-carbon county, and low-carbon city.



About This Report

Time Range

The Report is the second sustainability annual report issued by Huawei Digital Power Technologies Co., Ltd., with reporting period ranging from January 1, 2022 to December 31, 2022, and partial contents in this report go beyond the forgoing time range.

Scope of Report

For the scope of preparation, the Report covers all entities that have control over or major influence on the Huawei Digital Power's financial and operation policies.

Description of Appellations

To facilitate the expression and reading, "the Company", "We", "Huawei Digital Power", and "Huawei Digital Power Company" mentioned in the Report refer to Huawei Digital Power Technologies Co., Ltd.. "Huawei" and "Group" are used in this report to refer to Huawei Investment & Holding Co., Ltd. and its directly or indirectly controlled subsidiary as a whole.

Principle of Reporting

Preparation of the Report is based on a reference to the Global Reporting Initiative (GRI)'s *GRI Sustainability Reporting Standards* (or GRI Standards). Indexes of GRI Standards are listed in the appendix of the Report for your reference.

Huawei Digital Power Technologies Co., Ltd., with its practical actions, supports and promotes the fulfillment of the UN's sustainable development goals (SDGs), not least including SDG 3, 5, 7, 8, 9, 10, 11, 12, and 13. In their opening paragraphs, relevant chapters showcase the correlations between our actions and these SDGs with the icons.

Data sources and reliability statement

Data and cases in the Report all originate from Huawei Digital Power's statistical reports, relevant documents, and public materials. The Company hereby promises that the Report does not contain any untrue statements or misleading representations, and is responsible for the authenticity, correctness, and completeness of its contents. Unless otherwise stipulated, amounts in the Report are denominated in RMB.

Access to the Report

The Report will be published in both simplified Chinese and English on October 14, 2023 for your reference. In case of any minor discrepancy in the content, the Chinese version shall prevail. To browse the report on line or download it, you are advised to access: <https://digitalpower.huawei.com/en/sustainability.html>.

If you have any suggestion or opinion about the Report, please contact Huawei Digital Power by scanning the QR code below:



Digital Technology Enabling Green Development, Working in Concerted Efforts for Lofty Goal and Low-carbon Future

Sustainable development, as a global consensus, is of profound influence on and extraordinary significance to mankind's survival and development. Under the influence of multiple factors in today's world such as climate and environmental changes and transformation of the economic development pattern, the global sustainability process is faced with tardiness and stagnancy risks. Since the road ahead is unprecedentedly fraught with uncertainties, we should strengthen the determination to actively make explorations, and to discover a concrete path and method for sustainable development through continuous innovations in technologies and business models.

Taking advantage of and catering for the trend. We firmly believe that digital technology is an effective means to enable green development and sustainable development. Huawei Digital Power will keep enlarging its investment in R&D, integrate innovations in digital and power electronics technologies, quicken the pace to build new-type digital and energy infrastructure, promote the green transition of energy, and unleash the driving force of digital technology in green development.

Forging ahead against all odds on the road ahead. Huawei Digital Power will actively embrace the intelligent and low-carbon development trend, and work with customers and partners to develop clean energy and energy digitalization with a more inclusive mindset, pragmatic spirit, and innovative ability, with a view to helping all walks of life improve quality and efficiency, bring customers and stakeholders values, and promote human society's green development.



Mr. Hu Houkun

Chairman of Huawei
Digital Power

Stride into the “Digital Energy” Era, Jointly Create a Greener and Better Future

“Carbon Neutrality” has become the most definitive strategy in the 21st century, and source power of the energy industry has transformed from original “Natural resources” including coal and petroleum etc. to “Technological innovations” such as wind, PV, energy storage, power electronics, and digitalization. It’s urgent for major countries in the world to seek energy independence. Amid the development trend “Low carbon, electrification, digitalization, and intelligence”, the energy circle and the digital circle will be further integrated, and the energy industry has stepped into the “Digital energy” era!

With commitment to “Integrating digital and power electronics technologies, developing clean power, and enabling energy digitization to drive energy revolution for a better, greener future”, Huawei Digital Power will focus on the integration of digital technology (Bit), power electronics technology (Watt), thermal management technology (Heat), and energy storage management technology (Battery) to integrate energy flow with information flow. Centering on clean power generation, energy digitalization, electrified transportation, green ICT energy infrastructure, and integrated smart energy, we will build new-type power system energy infrastructure, new-type digital industry energy infrastructure, and new-type electric travel energy infrastructure. By the end of 2022, Huawei Digital Power supported customers in producing a total of green electricity of 695.1 billion kWh, saving the electricity consumption by 19.5 billion kWh, and bringing down the carbon dioxide emissions by 340 million tons, equivalent to planting 470 million trees.

Digital energy industry is an ecological industry of enormous size. Huawei Digital Energy will keep making innovations in technologies and products, and unswervingly work with industrial and ecological partners to jointly build the digital energy industrial ecology. To chase the dream for “Starry sky and vast ocean”, only after we have joined hands, can we create the future together, and only after we walk side by side, can we instill the green development notion into the people’s mind. In 2023, we will continue working with customers, business and service partners, industrial chain partners, industrial organizations, and higher learning institutions to boost the industry’s high-quality development and create a greener and better future together!



Mr. Hou Jinlong
President of Huawei
Digital Power

"ZERO": Steadfastly Take the Road of Sustainability

"Carbon Neutrality" has become a consensus and mission for major economies across the globe, and it is also an extensive and profound social and economic revolution, in which "Low carbon and digitalization" is the bedrock for sustainable development. Huawei Digital Power attaches much importance to sustainable development work. In 2022, Huawei Digital Power actively fulfilled its "ZERO" sustainable development strategy in the four dimensions such as Zero-carbon Enablement, Empower with Digitalization, Responsible Operation, and One-mind Growth. We have set up the corporate sustainable development(CSD) committee and working group to support the effective implementation of the Company's CSD strategy, and promote the Company to take a firm step toward higher quality, more benefits, and more sustainable development.

Zero-carbon Enablement

To promote the implementation of low-carbon governance work plan and key goals, Huawei Digital Power has established low-carbon capacity center, and built its low-carbon governance system, in order to systematically push ahead with the whole-value-chain zero carbon campaign from three layers including product, supply chain, and operation. For product layer, we will fulfill the low carbon and environmental protection notion through the product life cycle, with commitment to explore cleaner and more energy-saving innovation products and solutions, and support customers in achieving zero-carbon transition. For supply chain layer, we implement low carbon and environmental protection notion in the Company's overall supply chain management strategy, and cooperate with main suppliers in low-carbon management, in order to accelerate the decarbonization of the supply chain. For operation, we take concrete actions to reduce energy consumption in manufacturing and operation, and increase the ratio of renewable energy in energy consumption.

Empower with Digitalization

Huawei Digital Power keeps innovating in technologies and products, continues integrating digital and power electronics technologies, and supports the sustainable development of all industries through high-efficiency, intelligent, safe, and available energy products and solutions. Huawei Smart PV has rolled out All-scenario Smart PV & Energy Storage (ES) Solution centering on three major scenarios such as large-scale ground utility, industry & commerce, and household use. Huawei Smart EV keeps innovating in key technical factors such as charging, driving range, powertrain, and safety. Huawei Data Center Energy, by integrating and innovating "Power supply, temperature control, management, and architecture", leads the industry to evolve into a green, simplified, intelligent, and safe low-carbon smart data center. Huawei Site Power tailors low-carbon site, low-carbon equipment room, green power supply, and more solutions for the operator customers' planning, construction, operation, and maintenance, in an effort to accelerate the all-around development of the operator network in the fields of lithium battery and intelligence.



Mr. Zhao Yue
Huawei Digital Power
CSD Committee
Director

Responsible Operation

As a responsible transnational enterprise, Huawei Digital Power is committed to providing customers with steady, high-quality, safe, and trustworthy products. We strictly abide by business ethics, discipline ourselves strictly, and keep implementing compliance management through business activities and processes from end to end. We focus on customer demands to keep improving customer service process standardization and customer satisfaction. We integrate honest operation and sustainable development with the management process including suppliers, and make contributions to social progress and sustainable economic growth.

One-mind Growth

Huawei Digital Power upholds the "Cooperative, Open, Honest, and Win-win" management philosophy, and always values expectations and appeals from stakeholders including government, customers, employees, suppliers, and cooperative partners. By adhering to the guideline "Safety First, Care for Employees", we attach much importance to employees' health and safety, and provide employees with an equitable and inclusive workplace in which employees respect and help one another. We stress talent cultivation, provide an unimpeded career development and promotion channel for employees, and encourage them to keep forging ahead and striving for excellence. We keep strengthening partner empowerment, and actively work with cooperative partners, industry associations, higher learning institutions and more to promote product & technology innovation, reach industry consensus, and institute and implement standards and norms. We are in an effort to benefit society with technological achievements, promote local economic development, and do our bit in improving the people's wellness and well-being.

Shoring up the foundation for high-quality development, cultivating the land for sustainable development. In 2023, we will keep perfecting the Company's CSD governance structure and related policies and improving the Company's CSD performance, follow up with the interests of all stakeholders, and embed the CSD notion in all aspects of the Company. Huawei Digital Power will seize the sustainable development opportunities, give play to its technical advantages, and work with all walks of life to create a greener, better future.

Sustainable Development Management

Huawei Digital Power is fully aware that sustainable development is a key factor for energizing corporate innovation and achieving long-term development. We integrate digital and power electronics technologies, develop clean energy, enable energy digitalization, and act on green management with sustainable development notion, in an effort to bring values for stakeholders. Amid the complicated and ever-changing market, we are in an effort to achieve sustainable development and build competitive edge, and work with all walks of life for a greener and better future.



Key Awards and Honors

In March 2022

Huawei Fusion Power Module was conferred the award “Innovative Product of the Year” at Data Centre World (DCW), the largest professional exhibition for the data centers across the world.”



In May 2022

Huawei Digital Power was conferred upon the DCS award “Data Centre Facilities Vendor of the Year”



In July 2022

Huawei Fusion Power Module was conferred “Innovation Pioneer Award” at China Computational Power Conference



In July 2022

Huawei Digital Power won the award “2022 China Influential Roof PV & ES Inverter Brands” at the 4th China Distributed Photovoltaic Conference & Distributed Energy High-quality Development Forum.



In July 2022

Huawei Digital Power won the award “China Top 10 Influential Distributed PV Inverter Brands” at the 5th China Distributed Photovoltaic Conference.



In July 2022

Huawei iSitePower SuperBlade Power Product was conferred "Best of Show Award" at Interop Tokyo



In July 2022

Huawei iSitePower was conferred "2021 Global Site Power Technology Leadership Award" by Frost & Sullivan



In July 2022

Huawei Digital Power DriveONE power drive system was conferred the award "2021 Enterprises for Technological Innovations and Breakthroughs in Automotive NVH and Acoustic System Industry" at the 8th International Automotive NVH Technology and Acoustic System Industry Summit.



In September 2022

Huawei Digital Power was conferred the award "2022 Best Innovative Enterprise in China Energy Storage Industry" at the 12th China International Energy Storage Industry Conference.



In September 2022

"SSE Golden Bridge Data Center HVAC System AI Energy Conservation Optimization Project", which was built jointly by Shanghai Stock Data Service Co., Ltd. and Huawei Digital Power, was conferred "2022 Cloud Computing Center Outstanding Technology Award" at the 12th China Data Center Annual Summit. By introducing Huawei iCooling technology, the project made remarkable achievements in energy efficiency optimization, energy conservation, and consumption reduction, and played an important exemplary role in the green upgrading and low-carbon operation of stock data centers.



In September 2022

Huawei's new-generation edge data center solution FusionModule500 was conferred the award "Mission Critical Tech Innovation" at Data Center Dynamics, a grand annual event for data centers that took place in Cancun, Mexico.



In September 2022

Huawei Smart Charging Network was conferred "2022 Outstanding Module Brand in China Charging Facility Industry" award and "Top 10 Influential Brands of 2022 in China Charging Facility Industry" award at the State Grid EV Expo.



In September 2022

Huawei Smart Charging Network was conferred "Top 10 Core Module Brand 2022 in China Charging and Battery Swapping Industry" award at the 8th China International EV Charging & Battery Swapping Industry Conference (Global Brick Battery Swapping Forum)



In October 2022

Huawei Dongguan Cloud Data Center T1 Project, was successfully included in the Typical Cases of National Energy Conservation Center concerning the Application of Key Energy-saving Technologies (2021)



In November 2022

Huawei Data Center Hyper Convergence Smart Power Supply & Distribution Technology and Data Center UPS Super ECO Technology were conferred "Data Center Technological Achievement" award at the 10th Data Center Standard Summit.



In November 2022

Huawei Digital Power was conferred the award "China Top 10 Distributed Photovoltaic Inverter Brands" at the 14th International New Energy Conference and Exhibition.



In November 2022

Huawei Power Module 3.0 passed TÜV equipment testing, and it's the first time for the industry to get through power module 2.5MW equipment testing.



In December 2022

Huawei Digital Power Henan Xiangcheng Low-carbon County Project was included in Cases of 2022 for Innovation in Rural Revitalization by people.com.cn.



In December 2022

Huawei's eight innovative energy-saving technologies and high-efficiency energy-saving technologies including Modular UPS, SmartLi, and Indirect Evaporation Cooling etc. were successfully included in the Catalogue of Recommended Energy-saving Technologies and Equipment in the Field of Industry and Information Technology (2022)



Sustainable Development Strategy

Since being officially established in June 2021, Huawei Digital Power has been pursuing the vision of "integrate digital and power electronics technologies, develop clean power, and enable energy digitization to drive energy revolution for a better, greener future". We believe that the value of technology is to make people's lives better. In response to Huawei's sustainable development (CSD) strategy (digital inclusiveness, security and credibility, environmentally-friendly and harmonious ecology) we have rolled out Huawei Digital Power CSD strategy-"ZERO", which consists of the four key areas of Zero-carbon Enablement, Empower with Digitalization, Responsible Operation, and One-mind Growth. Under the guidance of its CSD committee, Huawei Digital Power will continue making efforts, in order to do its bit in achieving the United Nations' sustainable development goals (UN SDGs).

Zero-carbon Enablement

Huawei Digital Power is committed to becoming an "enabler" in global action to address climate change, promoting the utilization of clean energy across the globe with its leading products and solutions, and guiding all parties to build a zero-carbon ecosystem.

- Green operation
- Energy conservation & emission reduction/coping with climate change
- Green supply chain
- Low-carbon products



Responsible Operation

Huawei Digital Power has deep rooted corporate business ethics in its development genes, with city, responsibility, and compliance as its cornerstones. Huawei Digital Power strengthens sustainable development governance, creates responsible supply chains, and provides customers with reliable products and high-quality services.

- Business continuity
- Cyber security and privacy protection
- Customer service
- Responsible procurement
- Business ethics
- Sustainable development governance
- Communication with stakeholders

Empower with Digitalization

Huawei Digital Power will use its digital power products and solutions to enable all industries with efficient, intelligent, safe and accessible energy.

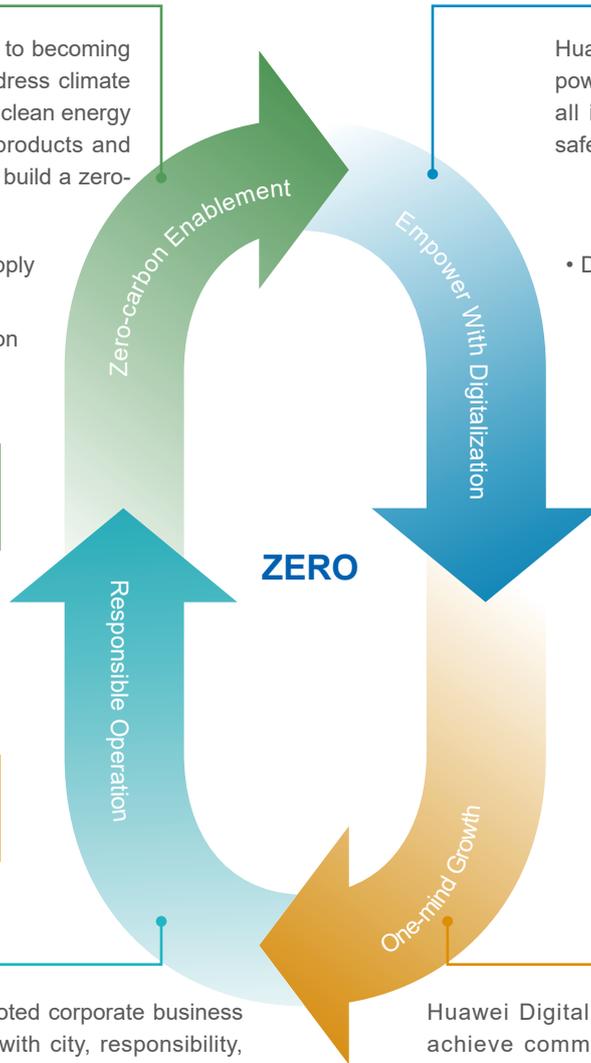
- Digital technology



One-mind Growth

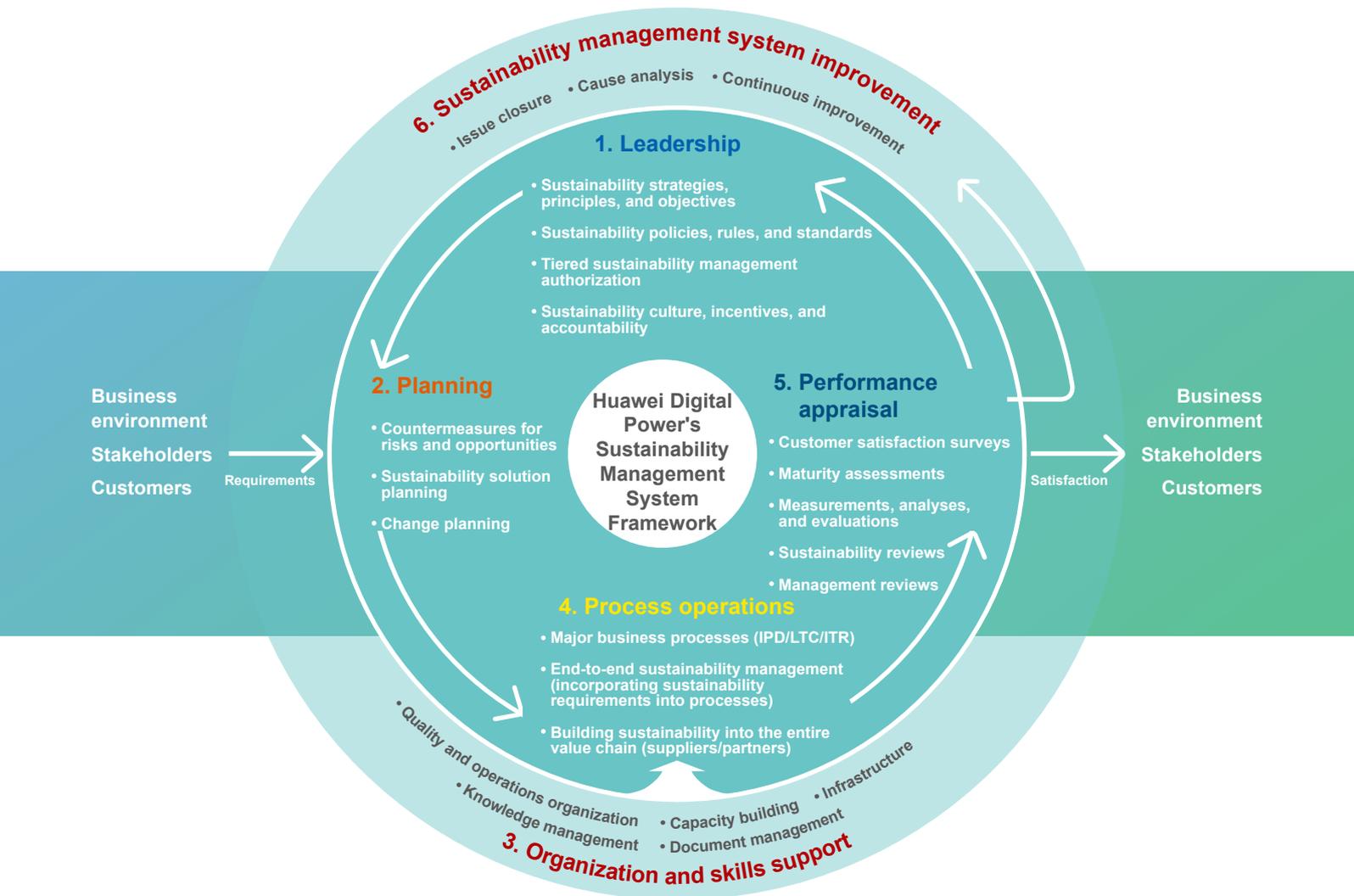
Huawei Digital Power works with its partners to achieve common development, encourages the realization of employees' self-worth, works with all parties of the industrial chain to create a business ecology of common prosperity, and makes continuous contribution to social development.

- Employee rights and development
- Occupational health and safety
- Building of business ecology
- Social contribution



Sustainable Development Management System

Based on the Company’s internal and external environments, Huawei Digital Power has established the corporate sustainable development (CSD) management system by referring to ISO 26000 international standard and responsible business alliance (RBA) code of conduct etc. and according to the PDCA (Plan-Do-Check-Act) cycle. By doing so, we will keep realizing the closed-loop management over sustainable development strategy and objectives in six respects such as leadership, planning organization and capability support, flow operation, and performance assessment and improvement. Besides that, we will reinforce digital operation and keep improving stakeholders’ degree of satisfaction.



Huawei Digital Power's Sustainability Management System Framework

At the corporate level, we have set up Huawei Digital Power CSD Committee, which is responsible for guiding the Company’s business organizations of all levels to formulate sustainable development objectives centering on the four strategies of CSD, in addition to promoting implementation of objectives step by step. Huawei Digital Power CSD Committee serves as the top-level decision-making organ for the Company’s CSD -related matters, and Head of the Quality Operation and Process IT Department sits as director on the CSD Committee, with committee members including 10-something senior executives from the corporate departments including H. R. R &D, procurement, manufacturing, supply, legal affairs, sales service, financial and economic management, and strategy etc. CSD Committee shall convene member meeting on a quarterly basis, and organize special meeting according to demands, in order to collectively discuss and decide on topics relating to sustainable development. CSD Committee shall act under the supervision and guidance of the Company’s president, and make report to the president at irregular intervals depending on the topic.

Subordinate to CSD Committee there is CSD Work Group, which is responsible for supporting CSD Committee’s operation, implementing strategic objectives, and preparing and releasing CSD annual report, etc. CSD Work Group shall convene member meeting on a monthly basis, and deliberate the work progress in all areas.

Job level	Management responsibilities
 <p data-bbox="172 1090 403 1142">Huawei Digital Power CSD Committee</p>	<ul style="list-style-type: none"> • Take charge of formulating the company-level CSD strategies, objectives, guidelines, policies, and rules, clarifying the direction, and supervising the implementation. • Coordinate CSD management system’s establishment, implementation, and continuous improvement, decide on relevant topics, and ensure CSD management complies with relevant laws & regulations, international standards, and customer requirements. • For CSD -related matters, guide and conduct effective communication with key stakeholders such as customers, regulatory organs, and industry organizations. • Ensure CSD -related objectives and work priorities in current field are fulfilled, and make efforts to promote cross-field/cross-flow CSD business coordination and troubleshooting, and realize end-to-end operation and coordination of CSD business. • Guide the construction, operation, and improvement of the Company’s EHS management system, and take charge of handling major environment, occupational health and safety (EHS) issues.
 <p data-bbox="172 1701 403 1752">Huawei Digital Power CSD Work Group</p>	<ul style="list-style-type: none"> • Carry out CSD Committee’s resolutions, promote the implementation and completion of CSD -related objectives in all fields, and report the progress of the department’s CSD work priorities. • Support the Company in preparing and releasing CSD annual report. • Pursuant to international standards, take part in CSD management system’s establishment, implementation, maintenance, and continuous improvement, and ensure CSD management complies with relevant laws & regulations, international standards, and customer requirements. • Timely reply to and disposal of CSD concerns from internal and external stakeholders.

Communication with Stakeholders

Huawei Digital Power attaches great importance to the two-way communication with stakeholders. To promote the close communication with stakeholders, we have established and keep improving a variety of communication and dialogue mechanisms, act under the supervision of stakeholders, proactively learn about and respond to relevant appeals, and continuously beef up self-management and practices, and work with stakeholders to create a more sustainable future.

Stakeholders refer to those individuals or groups whose interests are subject to or might be subject to the influence of the corporate activities. Huawei Digital Power’s main stakeholders cover: customers, employees, suppliers & partners, governments, non-governmental organizations (NGOs), industry organizations, professional agencies, and communities and the general public, etc.

In 2022, for Huawei Digital Power’ main stakeholders, the channels of communication and major issues of concern are as follows:

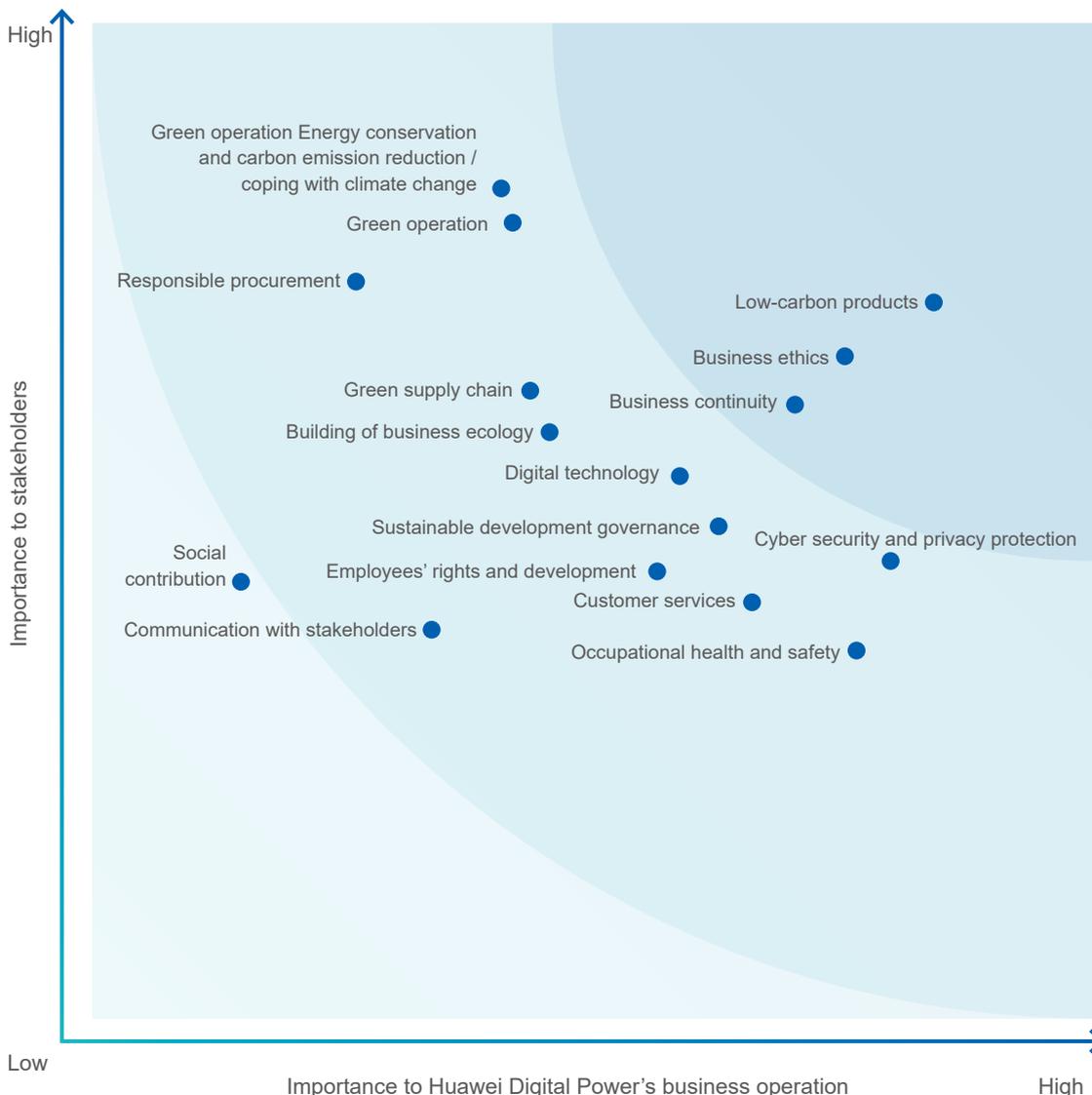
Stakeholders	Channels of communication	Major issues of concern
 Customers	<ul style="list-style-type: none"> • Pre-sales communication • After-sales services • Regular communication (e.g, customer visit) • Satisfaction survey • Marketing exhibition 	<ul style="list-style-type: none"> • Premium products and services • Cyber security and privacy protection • Coping with climate change/carbon emission reduction • Circular economy
 Employees	<ul style="list-style-type: none"> • Online communication platform • Department communication and work meetings • Employee representative communication meetings • Employee survey, e.g., organization atmosphere survey • Employee activities 	<ul style="list-style-type: none"> • Workplace health and safety • Protection of the employees’ legal rights • Diversified employee training • Career development platform for employees
 Suppliers & partners	<ul style="list-style-type: none"> • Scene review and communication • Supplier conference • Supplier training 	<ul style="list-style-type: none"> • Fair competition • Cooperation and win-win • Training empowerment • Establishment of sustainable cooperative relationship
 Governments	<ul style="list-style-type: none"> • Government policy communication meetings • Public counseling on policies • Regular report and everyday communication • Government sustainable development projects 	<ul style="list-style-type: none"> • Lawful and compliance operation • Safe and clean production • Leading technological innovation • Driving social employment and economic growth
 NGOs/industry organizations / professional agencies	<ul style="list-style-type: none"> • Industry meetings, forums and work panels • Standard seminars • Sustainable development cooperation projects • Academic research activities 	<ul style="list-style-type: none"> • Favorable cooperative relationship • Open and transparent information exchanges and sharing • Common development of the industry
 Communities and the general public	<ul style="list-style-type: none"> • Participation in community projects • Community public welfare and charity activities • Corporate websites and interaction with social media 	<ul style="list-style-type: none"> • Environment protection • Social public welfare • Community construction and development

Substantial Topics

Substantial topics are viewed as the important inputs that guide Huawei Digital Power to clarify CSD improvement direction and assess the fields for centralized input of resources. After analyzing international and domestic sustainable development/social responsibility standards, national and local government’s policy requirements, and customer inquiries and audit requirements, we will refer to the industry leading enterprises in sustainable development, and take into account Huawei Digital Power’s development strategy and plan. Through the corporate management team’s deliberation and the experts’ assessment, we will identify and sift out the substantial topics that arouse concerns from both stakeholders and Huawei Digital Power.

Based on two dimensions “Importance to stakeholders” and “Importance to Huawei Digital Power’s business operation”, we will comprehensively analyze and prioritize the substantial topics to create the substantial topic matrix. For important topics that have been identified, we carry out work relating to management improvement, and disclose information in different chapters of this report, in order to respond to concerns raised by stakeholders, and keep improving the Company’s sustainable development performance.

Via comprehensive analysis and prioritization, we have worked out the substantial topic matrix of 2022, which, relative to that of 2021, brings in “communication with stakeholders” topic, changes “Operation of carbon emission reduction” into “Energy conservation and emission reduction/coping with climate change”, and adds “Green operation”, and also adds “Occupational health and safety” based on “Employee interests and development”. In addition, “Products and services” is segmented into three topics including business continuity, cyber security and privacy protection, and customer services, which is aimed at mirroring these topics’ great significance more precisely.



Zero-carbon Enablement

Amid the backdrop that the global consensus has been reached to actively cope with climate change and work together toward a zero-carbon future, Huawei Digital Power keeps making improvement and quickens its pace to promote zero-carbon campaign through the value chain from three dimensions such as operation, supply chain, and products. We practice what we advocate and take concrete actions to reduce energy consumption in manufacturing and operation, increase the proportion of renewable energy in energy consumption, and act on low-carbon operation. We fully implement the carbon emission reduction notion in our overall supply chain management strategy, and work with suppliers to accelerate the decarbonization of the supply chain. We explore cleaner and more energy-saving innovative products and solutions, and work with customers and cooperative partners to do our bit in promoting zero-carbon transition of the whole society.

UN SDGs under the support of Huawei Digital Power:



Act on Green Operation

In strict accordance with all laws, regulations, and policies applicable to environmental protection, Huawei Digital Power has improved its environmental management systems, formulated and implemented the *Norms for the Management of Environmental Protection*, advocated “Green Office”, acted on clean production, strengthened the management over “Three Wastes” (waste gas, waste water, and waste residue). Huawei Digital Power works hard to build resource-conserving and environment-friendly green park, raise energy efficiency via technology and management-based energy conservation, in order to ensure the environmental protection compliance, and live up to the parks’ highly efficient, high-quality, and low-carbon operation. So far, Huawei Digital Power has passed ISO 14001 environmental management system certification.

Within the reporting period, Huawei Digital Power has not yet been punished for its violation of laws and regulations relating to environmental protection.

Greenhouse Gas (GHG) Emission Management

Coping with climate change has become a global consensus. To promote its own operation and achieve the industrial chain’s carbon emission reduction goals ASAP, Huawei Digital Power has established the low-carbon capacity center and its low-carbon governance system, in order to push ahead with the implementation of low-carbon governance work plan and key goals. In 2022, Huawei Digital Power organized the GHG inspection to its self-owned park for the first time, with a view to getting a clear picture of GHG emission’s status quo, and providing data support for effectively working out road map for carbon

emission reduction and coping with climate-related risks. Within the reporting period, the GHG emissions of Huawei Digital Power’s self-owned park within the operation scope (Scope 1 & Scope 2) totaled 7,718 tCO₂e.²

For the operation, Huawei Digital Power advocates low-carbon notion, actively builds green low-carbon park, and puts in place energy-saving technical transformation, in order to keep improving its energy efficiency, raise the proportion of renewable energy in consumption, and manage carbon emissions in its own operation.

7,718 tCO₂e

Within the reporting period, the GHG emissions of Huawei Digital Power’s self-owned park within the operation scope (Scope 1 & Scope 2) totaled 7,718 tCO₂e.²



¹ Self-owned park mentioned in the Report refers to “Antuoshan Headquarters Park”, and quantitative data on the park for other industries of the Group will be disclosed as a whole in the Group’s report.

² Huawei Digital Power surveys the GHG emission source within the organizational boundary according to scope, category, and calculation method provided in *ISO14064-1:2018 Standard, GHG Protocol, and IPCC Guidelines for National Greenhouse Gas Inventory*, and based on the Law for Running Control.

Huawei Digital Power Antuoshan “PV, ES and Charging Integration” Near-zero Carbon Park

As one of the high energy-consuming fields, the construction industry has reached a consensus to act on green building notion and achieve green, low-carbon, and intelligent development of the industry. In response to the state’s “Carbon Peaking, Carbon Neutrality” policy, Huawei Digital Power Antuoshan Park is built as per near-zero carbon park standard and embarked on the exploration for “PV, ES and Charging Integration” technology, in order to promote the industrial chain’s development. With a total floor space of 18,000 square meters, Antuoshan Park, one of Shenzhen City’s first key near-zero carbon demonstration projects and also one of the city’s 9 demonstration bases intended for urban green low-carbon scenarios, was put into use in 2022, and it consists of multiple functional zones such as office, training, laboratory, exhibition hall, business trip accommodation, and canteen.

Antuoshan Near-zero Carbon Park adopts advanced design notion and innovative technical schemes such as PV & building integration, scenario-based energy-saving design, and advanced energy storage system etc. to set a benchmark for “PV, ES, DC, and Flexibility” near-zero carbon parks, and achieve the integration of source, grid, load, and storage, AI-based coordinated scheduling, and digital management.

- **Building Integrated PV(BIPV) curtain wall adopts PV optimizer for networking**

PV optimizer is used to integrate dozens of inverter types into few types, as a way to reduce the configuration and construction cost. Moreover, it has such intelligent functions as fault location, DC arc monitoring, and component-level remote operation.

- **Refined management over energy storage system**

refined management model “Precise Optimization and Management” helps precisely and steadily control the battery reaction process, and realize discharging at higher efficiency, better investment, simplified operation maintenance, and high safety and reliability in the life cycle of energy storage system.

- **Charging infrastructure with new-generation full liquid cooling ultra-fast charging mode**

Adopt full modular architecture, and integrate “PV, ES and Ultra-fast Charging Integration” design, making the equipment’s service life range between 15 years and 20 years. Through intelligent management, realize “Car, Pile, Grid” integration development, and build the charging infrastructure for ultimate experience, extremely high quality, and superb return.

- **AI scheduling algorithm for energy control**

Based on electricity price curve, refer to AI-based power generation forecast & load forecast to realize “PV, ES, Charging, Cloud” comprehensive scheduling, and minimize the electricity consumption.

After Antuoshan Near-zero Carbon Park was put into running, simulation analysis results show that through full use of the building surface for PV development, the park can produce green electricity of 1.5 million kWh per year, equivalent to reduction of carbon dioxide emissions by about 871.5t. In addition, through high-efficiency energy consumption and carbon emission monitoring, management, maintenance, and optimization based on a single network, the annual electricity consumption decreases by more than 50%, with comprehensive energy saving ratio exceeding 60%.

Antuoshan Near-zero Carbon Park is hailed as a benchmark for low-carbon parks across the globe. By virtue of its leading technologies and ultra-low energy consumption indexes, the park was conferred Carbon Neutrality Pioneer Award, the only topmost prize at 2022 International Competition of Carbon-neutral Future Life Innovation Design that was sponsored by World Urban Planning Education Network (WUPEN) and International Green Building Alliance and selected by multiple academicians.



1.5 million

the park can produce green electricity of 1.5 million kWh per year

871.5 t³

equivalent to reduction of carbon dioxide emissions by about 871.5t

50%

the annual electricity consumption decreases by more than 50%

60%

with comprehensive energy saving rate exceeding 60%

³ Estimated as per State Grid’s GHG emission factor.

Energy Management

Energy management is a major component of the Green Environmental Protection Strategy in our CSD system. Huawei Digital Power has formulated and implemented the management rules such as the *Energy Management Manual*, the *Procedure for the Control of Energy Review*, and the *Procedure for the Control of Energy Running*, established energy management architecture. With a view to integrating digital and power electronics technologies, developing clean power, and enabling energy digitalization to drive energy revolution for a better, greener future, the Company has established and implemented scientific, standardized, and IT-based energy management system and kept making improvements, in order to promote the fulfillment of energy performance objectives, raise energy utilization efficiency, and increase the proportion of renewable energy. Huawei Digital Power has passed ISO 50001 energy management system certification.

The Company takes electricity as its main energy. In the production and operation, Huawei Digital Power keeps improving the equipment's energy efficiency, and optimizes the electricity consumption policies, for example, it adopted energy-saving lamps and smart lighting system, arranged use of large-power equipment off peak time, turned off idle equipment, and reasonably set laboratories' AC running parameters etc. During the period from 2022 when it was put into running to the end of 2022, Huawei Digital Power's self-owned park in China saved electricity by 100,000kWh through adoption of smart lighting system. Huawei Digital Power is committed to continuously increasing the proportion of clean energy in its own operation.

In 2022, Huawei Digital Power Company's self-owned park⁴ in China consumed total energy of 4.76 million kWh.

4.76 million kWh

In 2022, Huawei Digital Power Company's self-owned park⁴ in China consumed total energy of 4.76 million kWh

Water Resources and Sewage Management

Huawei Digital Power's water consumption is supplied by the municipal tap water system, and used mainly for everyday life, office, afforestation, catering service, and fire emergency. The Company has set up special team in charge of its water supply & drainage system management, maintenance, and running. Also, it invites qualified third-party suppliers to test the quality of everyday drinking water, living water tank, and domestic sewage each day.

During its operation, Huawei Digital Power is committed to raising the water use efficiency, promoting the use of energy-saving appliances, posting reminders in the toilets, and advocating water saving. In 2022, water consumption of Huawei Digital Power's self-owned park⁵ in China totaled 8.75 megaliter.

8.75 megaliter

water consumption of Huawei Digital Power's self-owned park⁵ in China totaled 8.75 megaliter



⁴ Self-owned park mentioned in the Report refers to "Antuoshan Headquarters Park", and quantitative data on the park for other industries of the Group will be disclosed as a whole in the Group's report. 2022 self-owned park's energy consumption is all electric power.

⁵ Self-owned park mentioned in the Report refers to "Antuoshan Headquarters Park", and quantitative data on the park for other industries of the Group will be disclosed as a whole in the Group's report.

Waste Gas Management

Huawei Digital Power’s waste gas pollutants mainly refer to volatile organic compounds generated in the manufacturing process and canteen cooking smoke produced in the operation. The Company’s industrial waste gases are collected into the roof waste gas processing facility for centralized processing and discharging as per standards. For canteen cooking smoke, standard lampblack purification unit was adopted, and the smoke will not be discharged until it

has been processed as per requirements. The Company entrusts qualified third-party environmental testing agency to perform testing at the exhaust gas port, in order to avoid excess emission.

In 2022, waste gas pollutants produced in Huawei Digital Power China Park’s manufacturing⁶ mainly referred to volatile organic compounds, with output 382kg.

382 KG

In 2022, waste gas pollutants produced in Huawei Digital Power China Park’s manufacturing⁶ mainly referred to volatile organic compounds, with output 382kg

Solid Waste Management

Huawei Digital Power’s solid wastes mainly refer to household waste, kitchen waste, and hazardous waste generated in manufacturing process and laboratories. The Company cooperates with qualified professional agencies to classify and process wastes as per regulations. Besides that, the Company stresses the management over daily wastes in the park, actively put in place recycling of packaging materials, and minimize the negative impact on environment.

Category	Example	Processing method
Non-recyclable waste	Domestic waste	Designated suppliers regularly sort and remove waste. Healthcare waste, such as masks, is transported to designated incineration areas for harmless disposal.
Canteen waste	Leftovers and waste cooking oil and fats	Designated certified suppliers dispose of the waste in a harmless way
Recyclable waste	Packaging boxes and metal parts	Designated suppliers regularly sort and remove waste. The scrapping process applies for scrapped equipment and parts.
Hazardous waste	Chemical containers	Centrally stored in a designated area and then processed by certified companies
Construction waste (generated by construction companies)	Waste from refurbishments	Construction companies stack construction waste in a designated area, and later transport it to the municipal solid waste landfill.

See the table below for solid waste volume of Huawei Digital Power China Park⁷ in 2022:

57 t
Hazardous waste

2,468 t
Non-hazardous waste

⁶ Here refers to manufacturing business related to digital power in Huawei Southern Factory.

⁷ “Antuoshan Headquarters Park”, manufacturing business related to digital power in Huawei Southern Factory, and Huawei Digital Power China R & D Laboratory are included.

Packaging Material Management

Huawei Digital Power actively carries out recyclable packaging material introduction, new process/material introduction, and technological renovation, etc., in order to minimize the consumption of packaging materials. This year, we have newly introduced packaging solutions such as recyclable packaging material, which will help further reduce the consumption of plastics, and alleviate the negative impact on environment.

No use of a variety of packaging materials to reduce consumption of resources

Remarks for improvement	Before	After
<ul style="list-style-type: none">• No use of foam box <p>Replace “Foam box + carton” package with pulp die-casting box packed in full paper and made of degradable materials, as a way to decrease “White Pollution”.</p>		
<ul style="list-style-type: none">• Paper-free label <p>Spray the cable label onto the heat shrink tube, living up to paper-free labeling, which will help reduce consumption of paper-free labels by 80 million pieces per year.</p>		

Biodiversity

Huawei Digital Power arranges its production and operation the industrial park, and does not exert major negative impact on regional biological environment and biodiversity. During the site selection, design, and construction of its renewable energy generation station and green ICT power infrastructure, the Company takes fully into account its influence on local ecological environment, and strictly observes relevant laws and regulations, in order to support its customers’ green and low-carbon development while protecting local ecological environment.

Building Green Supply Chain

Huawei Digital Power is fully aware that as a cosmopolitan enterprise, it assumes the responsibilities in supply chain carbon management, so it should be always committed to cooperating actively with suppliers across the globe, in order to jointly create a greener and better future, and keep reducing the indirect carbon intensity through the value chain.

Huawei Digital Power has integrated low-carbon environmental protection requirements fully with its overall purchase strategy and business flows. In supplier authentication, selection, auditing, performance management, and material selection, etc., the Company attaches importance to the suppliers' performance in low-carbon environmental protection, actively cooperates with the suppliers, assists them in calculating and assessing the status quo of carbon emission, and urges them to set carbon emission reduction goals and take actions. By the end of 2022, we have urged the Top 40 suppliers (by purchasing amount, contributing 82.59% of the total purchase amount) to sum up carbon emissions, formulate carbon emission plans, and implement the carbon emission projects.

We know well that carbon emission data is the hard nut and key in supply chain's low-carbon management. Following the analysis of the value chain's carbon emission features, we have set out to conduct carbon footprint assessment on purchased materials and products, and plan to keep pushing ahead with key supplier accounting and report the carbon emission information, in order to improve the accuracy of carbon emission data in Huawei Digital Power's value chain.

In an active response to the Group's campaigns, Huawei Digital Power has participated in the Green Choice initiative, which was launched by the Institute of Public and Environmental Affairs (IPE). We continue to use the IPE's Blue Map environmental data search during supplier audits and supplier self-checks, encourage suppliers to better manage themselves, and require suppliers to rectify all discovered problems within a required period, so as to ensure that suppliers maintain environmental compliance. In 2022, Huawei Digital Power (along with the Group) retrieved 65 key suppliers' environmental protection performances at regular intervals, and found no suppliers with environmental protection problems awaiting rectification.



Innovative Low-carbon Products

Huawei Digital Power keeps investing in R&D, and earmarks over 10% of its sales revenue for R&D investment each year. We boast a globalized R&D team and technology platform, and have set up 12 R&D centers in China, Europe, and the Asia-pacific Region etc. across the globe, which support the Company’s businesses throughout more than 170 countries and regions, and assist in the global sustainable development transition. By the end of 2022, Huawei Digital Power had registered more than 1,700 patents.

Huawei Digital Power carries out the “Green, Low-carbon, and Sustainable” notion through the product life cycle, promotes carbon footprint assessment on main products, and endeavors to reduce product footprints. By virtue of decades of experience in low-carbon energy product development and technical accumulation in solutions, the Company will join hands with customers and cooperative partners to support the world in achieving the Carbon Neutrality goal at an accelerated pace.

1,700

 patents

By the end of 2022, Huawei Digital Power had registered more than 1,700 patents

Huawei Smart PV Granted the World’s First Inverter Product Carbon Footprint Verification Statement by BSI.

In June 2022, Huawei Smart PV was granted “Product Carbon Footprint Verification Statement” by the British Standards Institutions(BSI), which was the world’s first inverter product carbon footprint statement conferred by BSI.

We deeply know that PV power generation is an important approach by which mankind achieves the “Carbon Neutrality” goal, but the PV product’s carbon footprint is also spotlighted. This carbon footprint verification statement, is a de facto

recognition of Huawei Digital Power’s competency in the assessment of carbon footprint through product life cycle, and is also of important reference meaning to the establishment and development of the carbon footprint management system in the PV industry. We will continue managing carbon footprints of PV system components in the production and manufacturing process, and support customers in developing low-carbon and high-quality PV products.



Huawei Digital Power's businesses are born with green DNA. We focus on such fields as clean power generation, electrified transportation, and green ICT power infrastructure to provide green and smart differentiated products and solutions. For clean power generation, we have promoted the construction of the new-type power system centering on new energy. For electrified transportation, we have redefined EV driving experience and safety, and accelerated the popularization of green travel. For green ICT power infrastructure, we have assisted in the construction of green, low-carbon, and smart data center and communication network. Through continuous technical innovations, Huawei Digital Power will work with global partners to broaden the cooperation, and assist in achieving the Carbon Neutrality goal ASAP. By the end of 2022, Huawei Digital Power supported customers in producing a total of green electricity of 695.1 billion kWh, saving electricity by 19.5 billion kWh, bringing down carbon dioxide emissions by 340 million tons,⁸ equivalent to planting 470 million trees.⁹

695.1 billion kWh

Huawei Digital Power supported customers in producing a total of green electricity of 695.1 billion kWh

340 million tons

bringing down carbon dioxide emissions by 340 million tons

19.5 billion kWh

saving electricity by 19.5 billion kWh

470 million trees

equivalent to planting 470 million trees

Huawei Intelligent PV Supports Saudi Arabia in Building a Green Low-carbon City in Desert

Located by the Red Sea in the southwest of Tabuk Province, Saudi Arabia, the Red Sea New City Project (hereinafter referred to as the Project), with a floor space of 28,000 square kilometers, is a key project listed in "Saudi Arabia Vision 2030", and has been hailed as the "New-generation City". It's estimated that the Project will be completed by 2030 and will be built into the world's first green low-carbon city that is totally powered via PV energy storage and supply.

In early October 2022, the first batch of goods for Saudi Arabia Red Sea 1.3GWh Off-grid Energy Storage Project (the

world's largest off-grid energy storage project) were shipped, and the project will be completed and put into running in the second half of 2023. By providing intelligent PV energy storage generator solution and taking advantage of its core technologies such as GW-level Black Start and off-grid continuous fault ride through (FRT), Huawei has achieved one hundred percent of PV energy storage grid forming and provided clean and steady electricity supply in the Middle East's Red Sea. Since it makes possible 100% power supply with new energy in the future, the project is of milestone significance in both social value and industrial value.



⁸ Estimated as per the reference value of electricity-carbon emission conversion coefficient provided by International Energy Agency.

⁹ Estimated as per North Carolina State University's equivalent tree-planting value.

Huawei Power Module 3.0 Helps Uplift Full Link Efficiency to 97.8%

With the establishment of highly intensive and large-scale data centers, the power supply system, as the “heart” of data center, sees increasingly high technical requirements and system complexity. For traditional power supply system, devices for configuration are numerous and assorted, and the power supply link is long, so the power supply efficiency is usually not greater than 94.5%. Usually, traditional power supply system’s energy loss accounts for about 10% of the data center’s total energy consumption. In addition, the traditional power supply system is complicated for installation and commissioning and occupies a large floor area.

To reduce the power supply system’s own energy loss, Huawei Digital Power has adopted innovative fusion architecture, as well as ultra high-efficiency and high-density UPS with efficiency of up to 99.1% in intelligent online model. By developing simplified and high-efficiency power module, the Company has streamlined the power supply link, making the full link efficiency reach 97.8%. Moreover, the Company optimized the power supply

system’s spatial layout and adopted factory prefabrication method to greatly reduce the power supply system’s floor area and shorten the installation time. China Mobile Hubei Branch, Hubei Mobile for short, has adopted Power Module 3.0, which in turn helped Hubei Mobile save the floor area by 40%, shorten the delivery time by 75%, and raise the full link efficiency by at least 2%. It’s estimated that Power Module 3.0 will save electricity by 30 million kWh in 10 years, equivalent to a reduction of carbon emission by about 1700t.¹⁰ As a result, Hubei Mobile successfully built an environment-friendly and low-carbon IDC park.

In September 2022, Huawei Power Module 3.0 passed TÜV equipment testing, and it’s the first time for the industry to get through power module 2.5MW equipment testing,¹¹ which exemplifies Huawei Digital Power’s strong technical strength in the field of power supply and distribution, and provides important reference for the industry to perform standardized testing to power module.

30

 million kWh

It’s estimated that Power Module 3.0 will save electricity by 30 million kWh in 10 years

1700

 t

equivalent to a reduction of carbon emission by about 1700t¹⁰



TÜV 2.5MW equipment testing report, presented to Power Module

¹⁰ Estimated as per State Grid’s GHG emission factor.

¹¹ Equipment testing was completed as per the group standard “Technical specification for data center power module prefabrication” issued by China Electronic Energy Saving Technology Association (CEEETA).

Huawei Site Power Supports Turkey Turkcell in Building Green Site

Against the backdrop that energy prices across the globe rise, and Carbon Neutrality has become a widespread global consensus and campaign, Turkey's telecommunication operator Turkcell has set a specific sustainable development goal: by 2030, 100% clean energy is used in the entire network; by 2050, corporate carbon neutrality is achieved. To achieve its carbon neutrality goal, Turkcell has worked with Huawei Digital Power to build green site.

- Move power supply system facilities such as power source and battery out of the room through replacement of room with cabinet, and take advantage of precise cooling in the cabinet in place of air conditioner cooling, as a way to bring down energy consumption.

- Based on iSolar site overlay solution, deploy the PV power generation system, make the entire system give play to its optimal power generating effect, and improve generating capacity by virtue of intelligent characteristics such as iPV optimizer and PV-storage optimization.

Huawei Digital Power assisted Turkey Turkcell in building green base station through replacement of room with cabinet and simplified overlay. For single station, electricity of 19,000kWh will be saved and carbon emission of about 7 tons¹² will be reduced per year.

19,000 kWh

For single station, electricity of 19,000kWh will be saved

7 tons¹²

carbon emission of about 7 tons¹² will be reduced per year



¹² Estimated as per the reference value of electricity-carbon emission conversion coefficient provided by International Energy Agency.

Huawei DriveONE Assists Carmakers in Solving Charging, Driving Range, and Safety Problems, and Improving User Experience

In the area of Smart EV, Huawei Digital Power has rolled out DriveONE power domain all-scenario solution, with a commitment to redefine electric vehicle (EV)'s driving experience in charging, driving range, and safety.

• For charging

Huawei Digital Power keeps stepping up efforts in development of the HV platform. After it launched onto the market the industry's first 750V power domain HV platform solution in 2021, Huawei Digital Power further raised its HV platform's capacity. Specifically, the HV platform provides a voltage of up to 900V, and lives up to "driving range of 250km after 7.5 minutes of charging", which greatly improves the users' charging experience.

• For driving range

DriveONE, relying on a portfolio of technologies such as high-efficiency module, motor simulation system optimization, all-condition

algorithm dynamic optimization, and smart oil cooling 2.0, helps uplift the electric drive condition's comprehensive efficiency to 92%, implying a rise of 1.5%, which will assist the vehicle in increasing the driving range.

• For safety

intelligently recognize thermal runaway's high sensitivity feature from the perspective of AI, and send alarm on battery's thermal runaway 24 hours in advance, in order to ensure the users' driving safety.

Up until now, Huawei Smart EV has deepened its cooperation with multiple carmakers, in order to promote the vehicle electrification at an accelerated pace, and do its bit in reducing carbon emissions in the field of transportation. By the end of 2022, DriveONE had been installed on more than 500,000 units of NEVs, equivalent to reducing carbon dioxide emissions by more than 2 million tons.¹³

500,000

units of NEVs

By the end of 2022, DriveONE had been installed on more than 500,000 units of NEVs

2 million tons

equivalent to reducing carbon dioxide emissions by more than 2 million tons



¹³ Estimated as per CATARC's frequent industry factors such as EV carbon emission in life cycle.

Empower with Digitalization

The digital technology typified by Cloud and AI is driving the social development into a high-speed smart development era. Huawei Digital Power has sensed the opportunity that renewable energy including PV will become the mainstream force in the world energy increment market, hence it holds true to the original aspiration “Bits Manage Watts”, and highly integrates digital technology with energy technology, in order to build the “Twin System” for the digital circle and the energy circle, and to empower all walks of life through highly efficient, smart, safe, and available energy products and solutions. In 2022, we issued the White Paper on Top 10 Site Power Trends, providing references for the transition of all industries.

UN SDGs under the support of Huawei Digital Power:



Promote Efficiency Improvement

Digital technology plays a key role in energy generation, transmission, distribution and use. We use digital technologies such as big data, cloud and AI to enable energy production, transmission, trading and consumption, realize the digitalization of energy and resources, and improve the efficiency of energy production and use.

Raise Charging Efficiency

Electrified transportation is a key path leading to the global carbon neutrality. Today, the automotive industry is evolving from traditional fuel vehicle to new-energy vehicle (NEV) at a fast rate, and charging inconvenience, driving range anxiety, and so-so cost performance are the three key issues of concern that dissuade prospective NEV customers. Herein, charging infrastructure has such problems as short life cycle, poor user experience, and no support to evolution. With a keen insight to the industry's headaches, Huawei Digital Power focuses on core technologies to raise charging terminal facilities' efficiency, improve customer experience, and expedite the electrification of the transportation industry.

Huawei Full Liquid Cooling Ultra-fast Charging Solution for "One Second for One Kilometer" High-quality Charging Infrastructure

Clean energy for the global transportation industry and electrification for the automotive industry have become an important step to expedite the low-carbon development and also a key node for advancing the energy and transportation integration. As a main scenario for utilization and production of new energy, expressways need to further build high-quality charging infrastructure. In November 2022, Guangdong Communications Group Co., Ltd. brought in Huawei full-liquid cooling super charging solution for its Shantou-Zhanjiang Expressway Waxi Service Area, and took the lead in building domestic first full liquid cooling ultra-fast charging demonstration station. The full liquid-cooling ultra fast charging terminal provides power of up to 600kw and output current of up to 600A, and achieves the energy supply efficiency "One Second for One Kilometer" at the soonest, bringing users ultimate charging experience "Setting out with full charge after drinking up a cup of coffee". Power pooling and smart scheduling technologies help effectively improve the battery resource utilization efficiency and ensure instant vehicle charging, which improve the Waxi Service Area's station service capacity.

Full liquid cooling ultra-fast charging solution with service life of 15-20 years supports flexible evolution, effectively reduces repetitive investment in equipment, brings down operating cost in life cycle, gives full play to the equipment's high quality, and achieves the station's sustainable development.

By January 10, 2023, Waxi Demonstration Station Huawei Full Liquid Cooling Ultra-fast Charging Equipment had provided a total charging capacity of 118,100 kWh and served 4,670 cars. Meanwhile, there was no fault, exemplifying the equipment's excellent stability. Relative to traditional air-cooled pile equipment, this equipment's average daily charging capacity per pile increases 23%. Particularly during the New Year's Day holidays, average daily charging capacity per gun increased 49%. Not only did the equipment support the station in raising its service capacity, but also helped charging infrastructure achieve high-quality and sustainable development, living up to Huawei Digital Power's promise to create a green and better future for travel.





Raise the Energy Efficiency

ICT, regarded as the technical foundation for electrified consumption, also evolves toward green and low-carbon development, and keeps promoting the site simplification. Huawei Digital Power provides all-scenario simplified site solution, assisting the operators (or carriers) in raising efficiency and cutting costs.

Blade Power Leads Site Simplification, Assisting in Fast Network Deployment

For traditional communication site power system, the extensive overlay construction mode is usually adopted, leading to high implicit cost and high energy consumption in engineering infrastructure, etc., and high difficulty in follow-up maintenance and evolution. To address these issues, Huawei Site Energy has simplified the site in the network construction through such solutions as “One Cabinet for One Site” and “One Blade for One Site”, making the site energy efficiency rise from traditional equipment room’s 60% to cabinet station’s 90% and then to pole station’s 97%.

The Company’s Blade Power is a product form typifying simplified site powers. Huawei Blade Power adopts natural cooling, and its energy efficiency is up to 97%. With small size and light weight, Huawei Blade Power is available for pole-mounted or wall-mounted deployment, living up to “Zero”

floor area and quick network deployment. Huawei Blade Power has been applied in multiple countries and regions across the globe. In 2022, Huawei Blade Power, relative to cabinet station power, helped customers save electricity of 1.37 billion kWh all told, equivalent to reducing carbon dioxide emissions by 650,000tons¹⁴ and planting 890,000 trees.¹⁵

In Zhejiang Province’s Jinhua City, China Mobile adopted blade power for the reconstruction of equipment room power source, as a way to save its air conditions’ energy consumption. Moreover, Huawei Digital Power iSolar PV system was deployed on the roof of original equipment room. The foregoing measures helped the sites under China Mobile save consumption of utility power by 24%, equivalent to annual reduction of carbon emissions by 6 tons¹⁶ per site.

1.37 billion kWh

In 2022, Huawei Blade Power, relative to cabinet station power, helped customers save electricity of 1.37 billion kWh all told

¹⁴ Estimated as per the reference value of electricity-carbon emission conversion coefficient provided by International Energy Agency.

¹⁵ Estimated as per North Carolina State University’s equivalent tree-planting value.

¹⁶ Estimated as per the reference value of electricity-carbon emission conversion coefficient provided by International Energy Agency.

Support Intelligent Innovation

Convergence of ICT power infrastructure and digital technology not only helps resolve enormous repeated and complicated calculation work in place of the manpower, but leads to improvement of the power infrastructure's prevention and prediction capability based on massive data. Huawei Digital Power has adopted technologies including Big Data and AI to creatively roll out digital solutions, and promote digital construction and automated and intelligent operation maintenance of all business scenarios.

Innovate in Smart PV

Huawei Smart PV, relying on its technical and experience accumulation and keen insight and comprehension to scenarios, has built large-scale clean energy base solution notion panorama.

Support Yalong River Company in Building the World's Largest Hydropower-Photovoltaic Power Plant with the Highest Altitude

In Ganzi Prefecture of Sichuan, Huawei Digital Power supported Yalong River Company in building the Yalong River Kela Phase I PV Power Plant, a hydropower-photovoltaic power station with the largest installed capacity and the highest altitude (4,000~4,600m) in the world. This power plant was connected to grid for power generation in June 2023, of which, the PV

installed capacity hits 1GW, with average annual generating capacity of 2 billion kWh. The power plant adopted a series of measures including "PV +Characteristic Industry", "PV + Infrastructure Improvement", and "PV+ Employment" to drive the development of local industries such as agriculture, animal husbandry, tourism, and transportation, and set a benchmark for "PV +N".

2 billion kWh

with average annual generating capacity of 2 billion kWh



“Smart” Energy Conservation

For electricity configuration and consumption, irregular changes of end user scenarios will directly affect the electricity utilization efficiency. With an accurate judgement to the users’ headaches, Huawei Digital Power has developed smart energy efficiency optimization system, which analyzes the data center running environment through AI technology, precisely adjusts the temperature control system’s running parameters, greatly improves the data center energy efficiency.

iCooling@AI Energy Efficiency Optimization, Enabling the Data Center’s Shift from Artificial Cooling to Smart Cooling

For the data center’s overall energy consumption, the cooling system’s power consumption is second only to the power consumption in business. In view of this, reduction of the cooling system’s energy consumption is the key for the data center’s energy conservation and emission reduction. Previous cooling system depends mainly on manual adjustment, but the data center’s cooling water system is complicated, and there are a lot of mutually-correlated devices and parameters for adjustment, so it’s difficult to deal with frequent changes of the data center loading and external environment in case of high dependence on artificial experience.

Hence Huawei Digital Power has launched iCooling@AI energy efficiency solution, which collects and analyzes massive data, and adopts AI algorithm to endow the data

center with “Smart Brain” and precisely fit the data center’s running status. That helps effectively reduce the data center PUE by 8%-15% or so.

SSE Golden Bridge Data Center has deployed Huawei Digital Power iCooling@AI energy efficiency optimization solution, and then rolled out the optimal cooling policy for implementation on the basis of ensuring equipment and system reliability. Such a project, as the first application case of iCooling in the financial data center field, helps cut average annual PUE by 13%, and save electricity by 2.40 million kWh per year, equivalent to reducing carbon emissions by about 1,400 tons.¹⁷ This project was accordingly conferred “National Cloud Computing Center Science and Technology Award”.

13%

as the first application case of iCooling in the financial data center field, helps cut average annual PUE by 13%

2.40 million kWh

save electricity by 2.40 million kWh per year

1,400 tons

equivalent to reducing carbon emissions by about 1,400 tons¹⁷



¹⁷ Estimated as per State Grid’s GHG emission factor.

Ensure Safety and Reliability

With the development of digitalization and intelligence, strong self-learning and analysis ability of the digital technology including Big Data, Cloud Computing, and AI algorithm promotes the energy system's intelligent evolution little by little and greatly uplifts the energy system's safety performance. Huawei Digital Power integrates the digital technology with energy products, promotes the energy network's coordination and stability, improves the equipment's active safety and reliability performance, and achieves active risk intervention.

PV & ES safety is cornerstone for the development of the PV industry. For PV & ES safety, we should make comprehensive analysis from the all-scenario and full-link perspective, in addition to fully integrating power electronics technology, electrochemical technology, thermal management technology, and digital technology, in order to reshape the system's extreme safety. By summing up and analyzing a variety of safety risks, Huawei Digital Power locates deficiencies and blind spots in safety prevention and control, and actively explores the applications of intelligent DV protection technology and other technologies to ensure the safety.

Huawei Intelligent String Energy Storage System for Safe Green Factory

Intelligent String Energy Storage System leverages the controllability of power electronics to solve the inconsistency and uncertainty of lithium batteries, leading to refined management and maximization of the battery charging and discharging capacity. It also supports mixed use of old and new battery packs, and simplifies the maintenance and replacement in the life cycle. For system safety protection, Intelligent String Energy Storage boasts quadruple safety protection including cell-level AI internal short circuit testing, battery pack-level active safety cut-off, battery cluster-level over-current protection and fault isolation, and system-level fire intelligent linkage protection, living up to energy storage system's active alarm and active safety.

In March 2022, one 8MWh energy storage station, which was newly developed by Centuray Technology Co., Ltd. (hereinafter referred to as Centuray), was put into grid-connected test running. It adopted Huawei intelligent string energy storage system, making the enterprise's annual production electricity cost decrease by 14%, and saving total cost by about RMB 2 million per year. Such an energy storage power station, which was built jointly by Huawei Digital Power and Centuray, will be used in satisfying the enterprise's production and daily operation needs. Against the backdrop that both total energy consumption and energy intensity are under control and Jiangsu puts in place market-oriented electricity price reform, the construction of this energy storage power station provides the fast-growing Centuray with steady, reliable, and economical electricity supports.



Huawei SmartLi UPS, Safeguarding “Underground Artery” of Singapore

Singapore’s metro network covers the entire island, and it’s estimated that the metro network scale will be doubled by 2030, so that 80% of residents in Singapore can arrive at the metro station by walk within 10 minutes. In 2014, Singapore Land Transport Authority (LTA) set out to build Thomson-East Coast Line entirely under the ground. After being completed, the Line will serve 500,000 to 1 million passengers every day, making it one of the most important metro lines in Singapore.

In Singapore, power supply equipment usually run in a high-temperature and high-humidity coastal environment, and are subject to component fault and system failure etc. That has adverse influence on the metro operation, and might bring about the urban rail transit’s disruption and even endanger the passenger safety. For this reason, Singapore’s metro needs to adopt power supply system with high reliability and simple operation maintenance to ensure the metro operation’s continuity.

Following its survey to multiple power supply solutions, Singapore LTA chose to adopt Huawei SmartLi UPS solution, in order to provide the key metro business operating systems (e.g., communication, signaling, auto fare collection (AFC)

system, comprehensive management system, and emerging lighting) with reliable power supply to ensure the metro’s safety and reliability. In Huawei SmartLi UPS solution, all functional modules support hot swap. In case of fault, it takes ordinary engineers only 5 minutes to complete the maintenance, in order to ensure continuous power supply. Huawei SmartLi UPS system also has iPower feature for full-link visualization management and quick and precise troubleshooting. In addition, the system is available for real-time detection to key components’ running status for sending early failure alarm, reducing fault risks such as fire disaster, and ensuring reliable and safe running. In addition, the system’s efficiency is up to 97%, a rise of 2% from the industrial average, leading to sharp decline of the electricity consumption.

The Thomson-East Coast Line Phase III, which adopts Huawei power supply system, has been put into service, and its overall running keeps stable. In the future, Huawei will continue assisting Singapore in refining the metro network via innovative technologies, and provide passengers with more convenient, highly efficient, and safe travel experience.



Promote the Accessibility of Clean Energy

In the future, clean and green renewable energy centering on wind power and PV will become the mainstream force in the area of energy transition, and play a vital role in the electricity popularization for their renewable attribute. Against this backdrop, Huawei Digital Power, as a global leading digital power product and solution provider, is committed to improving the accessibility of clean and affordable energy in off-grid regions, and exploring the clean energy system for symbiosis of technology and nature.

Popularize Clean Energy

As one of the renewable energy, PV is of great significance for resolving power supply difficulty in regions suffering from electricity shortage. Huawei Digital Power is committed to taking advantage of its products including Smart PV and Site Power to make the clean energy benefit more regions, and promote the construction of power infrastructure in regions in shortage of electricity.

1GW+500MWh: Meinergy and Huawei Digital Power Join Hands to Support the Green Development of Ghana

To meet its ever-growing demands for electricity and promote the diversification of energy and the fast-rate development of economy, the Government of Ghana has set the strategic goal for renewable energy: by 2030, increase the proportion of renewable energy in the energy structure to 10%, strongly push ahead with the application of green energy, and achieve the electrification throughout the country.

In March 2022, Huawei Digital Power Technology Co., Ltd. (hereinafter referred to as Huawei Digital Power) and West Africa's leading PV developer Meinergy Science and Technology Ltd. (hereinafter referred to as "Meinergy") signed a strategic cooperation agreement, according to which, Huawei Digital Power will provide a whole package of smart PV & storage solutions for the 1GW large ground PV power station and 500MWh energy storage project that was developed by Meinergy in Ghana. So far, both 50MW ground PV power station and 5MW reservoir floating power station in Phase I of the project have been successfully put into use and steady running, with annual generating capacity totaling 78GWh. It's worth saying that the newly-built 10MWh energy

storage power station in the project will be connected with the power grid by the end of 2023, and it is the first hydro-photovoltaic(PV) complementary power station in West Africa.

Such an unprecedented project will become a significant milestone for the popularization of electricity in Ghana. It will provide North Ghana with steady power supply, and help resolve local power shortage and power cut problems. All in all, it is a critical measure for Africa's energy transition, according to Dr. Matthew Opoku Prempeh, energy minister of Ghana.

Both sides have carried out in-depth cooperation and made remarkable achievements in varied scenarios of Ghana, such as large-scale ground power station, hydro-photovoltaic (PV) complementary power station, energy storage, and household application. They look forward to further cooperation in the areas of PV & ES (energy storage) power station development, data center, eLTE, and public cloud, in order to make contribution to the building of a greener and better Africa.



Green Sites on Uninhabited Islands Facilitate Island-Island Connection

Amid the Zhoushan Islands there are more than 1,300 islands of different sizes, thus Zhoushan is hailed as the City of Thousand Islands. In 2022, the “Hello, Islets” campaign connected nearly 500 local islands with 5G signal, providing better communication connection for all islands and sea routes. For some sea routes, their distances to surrounding base stations are relatively long, so that the signal coverage is weak, which compromises the travel and offshore working experience. To address this problem, new base station should be deployed on uninhabited islands nearby the sea routes.

Based on the calculation of the uninhabited island site’s demands for electricity and PV generating capacity, Zhoushan Mobile and China Mobile Group Design Institute, together with Huawei Site Power, creatively designed site overlap solution, providing communication base station on uninhabited island with steady power supply. It’s noteworthy that this green site adopts outdoor corrosion-proof integrated design, and its MIMO power source supports multi-energy access and smart scheduling of solar energy, utility power, and oil etc.

Particularly, the green site may realize zero-second seamless switch and mutual supplementation of PV and oil. For working principle, green electricity generated in the daytime is stored in smart lithium battery, and electricity discharged from energy storage system will be used to power the base station at night or when the weather is harsh. In extreme weather conditions such as continuous rainy weather, the green site is capable of supplying power for 20 consecutive days. It’s estimated that a green site can generate electricity of more than 50,000 kWh, equivalent to reducing carbon emissions by 7.2 tons/site¹⁸ per year.

Green sites on uninhabited islands not only safeguard communication connection of ships that shuttle along nearby sea routes, but provide more possibilities for the digital future of Zhoushan, a coastal city. Convergence of traditional and modern elements and integration of technology and human culture will help Zhoushan, the City of Thousand Islands, realize island-island connection.



¹⁸ Estimated as per the reference value of electricity-carbon emission conversion coefficient provided by International Energy Agency.

Support Ecological Remediation

Influence of human activities on natural environment aggravates the natural ecological system's oscillation. With the general public's increasing attention to natural ecological environment, environmental protection and ecological remediation are also spotlighted by the people. Huawei Digital Power actively explores solutions for the symbiosis of technology and nature, and combines the construction of PV station with ecological environment research, to achieve the win-win between clean energy supply and ecological remediation.

Huawei Smart PV Assists in Inner Mongolia's Ecological Remediation

In the Hobq Desert, Inner Mongolia, State Power Investment Group Inner Mongolia Energy Co., Ltd. adopted Huawei Digital Power smart PV solution to establish one 300MW PV station in Dalad Banner, a hinterland of the desert. Herein, nearly 196,000 pieces of PV panels, together with surrounding low vegetative covers and yellow sand, present a "Galloping Horse" pattern, which is called "Galloping Horse" (Junma) Power Station.

By the end of 2022, the project had produced a total of green electricity of 2.566 billion kWh and governed a total of desert of 16,000 mu. Through the "Complementary Reforestation and PV" mode in which electricity is generated

over the PV panel, sand-burying shrubs are planted under the PV panel, and economic forests such as river locusts and Astragalus mongholicus are planted between PV panels, the project lives up to wind resistance and sand fixation, and protects the ground amid PV arrays from being eroded by wind and sand, in addition to improving the survival environment for plants under the panels. Today, PV sand-governing mode typified by Junma Power Station is being popularized in more western desert areas, showing Huawei Smart PV revitalizes the desert with the power of technology.

2.566 billion kWh

By the end of 2022, the project had produced a total of green electricity of 2.566 billion kWh

16,000 mu

governed a total of desert of 16,000 mu



Responsible Operation

With increasing integration of the physical circle and the digital circle, technologies such as cloud computing, AI, and Big Data bring opportunities and challenges for the corporate transformation. As a responsible transnational enterprise, Huawei Digital Power persists in providing safe and trustworthy products and solutions, and devotes itself to creating more values for customers and setting up better platforms for cooperative partners. We strictly abide by business ethics and keep improving our compliance and service level. We also keep aligning ourselves to the industry's best practices, and integrate honest operation and sustainable development with management process including the supplier management, in order to make contributions to social progress and economic sustainable growth.

UN SDGs under the support of Huawei Digital Power:



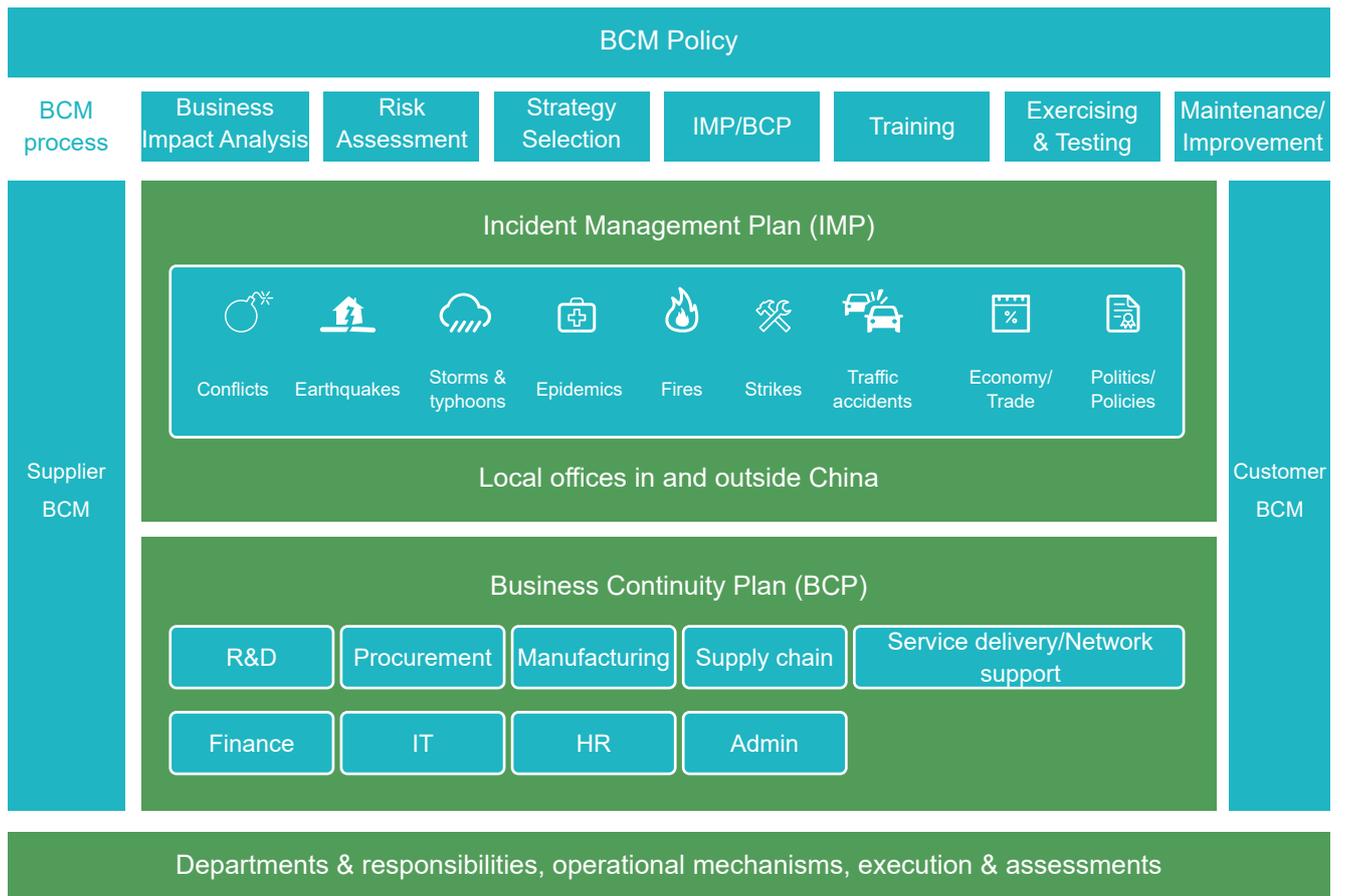
Provide Excellent Services

With high-speed development of the digital economy, the stable and high-quality products, cyber security, and privacy protection are issues of concern for enterprises. Huawei Digital Power focuses on business continuity, keeps improving products, solutions, and service quality, and builds an all-round defense system, in order to safeguard the network security, protect the user privacy, bring customers secure and trustworthy service experience, and assist the customers in strengthening the network resilience.

Business Continuity

Amid the high-level internationalization of social division of labor, Huawei Digital Power cooperates extensively with the third-party vendors, professional agencies, and cooperative partners in order to keep improving its capacity in business continuity. In the fields of R&D, purchase, manufacturing, logistics, and global technical services, we have established the end-to-end business continuity management (BCM) system from suppliers to Huawei Digital Power and then to customers. By establishing management organizations, processes, and IT platforms, we have embedded BCM key factors into product design, formulated BCM plan and emergency response plan, and organized employees' BCM training and drill, in order to improve all organizations' abilities in managing BCM and addressing emergencies, and to ensure effective management over everyday business risks. So far, Huawei Digital Power has passed ISO 22301 Business Continuity Management System Certification.

Huawei Digital Power Business Continuity Management System





Key measures in the fields of R&D and supplier

Diversified schemes

Huawei Digital Power insists on the “Globalization” and “Diversification” supply strategy. At the stage of new product design, we support diversified supply schemes at the raw material level, the single panel level, and the product level, actively expand the supplier resources, and ensure diversified supply of raw materials, in order to avoid exclusive supply or single-region supply risks, and ensure the continuity of supply.

Storage by scenario

At the stage of mass production, to meet customer demands and cope with uncertainties resulting from global pandemic, extreme natural disasters, trade conflict, demand fluctuation, and supply market, identify and prevent risks in advance and organize to create reasonable safe inventories from raw materials and semi-finished products to finished products.

Visible supply and demand capacity

Collaborate deeply with suppliers, make demand forecast, purchasing order, and supplier inventory visible through the IT system, and assure quick transmission of demands and quick response to the supply capacity.

Key BCM Initiatives in Manufacturing, Logistics, and Spare Parts Supply

Manufacturing and supply resource backups

Huawei Digital Power considers in-house manufacturing and outsourcing capabilities to be of equal importance. We have established long-term strategic partnerships with multiple electronics manufacturing service (EMS) suppliers. Board manufacturing and supply capabilities are shared between Huawei Digital Power and EMS suppliers, and between multiple EMS suppliers, to ensure we always have a backup. We have also established supply centers in Shenzhen, Europe, Latin America, and Dubai, which serve as integrated equipment backups for each other.



Logistics network resilience

We work with logistics partners to develop and verify independent and manageable logistics solutions, and use deterministic solutions to address uncertainties in supply chain security and availability, making global logistics networks more resilient.



Spare part reserves to support full-lifecycle operations

Huawei Digital Power reserves spare parts according to market demand and historical usage before a product reaches its end of life (EOL). After a product reaches its EOL, we reserve enough spare parts to cover the full lifecycle of all remaining products. This prevents any impact on the operational continuity of live customer networks.



In recent years, we have weathered many crises, from natural disasters to political, economic, trade, and armed conflicts. Despite these crises, Huawei Digital Power has continued to ensure supply continuity and timely delivery to our customers. This shows that Huawei's BCM system – as part of our overall management system – is functioning as intended. As a transnational enterprise covering a wide range of fields such as clean power generation, electrified transportation, green ICT power infrastructure, and digital energy management platform, we have cooperated extensively with our suppliers and partners, jointly established a long-term cooperative relationship, and achieved win-win.

As a staunch advocate of globalization, we will continue to pursue supply chain diversity. We aim to develop sustainable and stable supply capabilities to prevent dependency on any single supplier, country, or region. Based on the principles of collaboration for shared success and mutual development, we are confident in its ability to work with partners around the world to forge a secure, reliable, competitive, and healthy value chain. We will continue to deliver quality products, solutions, and services to our customers worldwide.

Quality Management

Huawei Digital Power sets great store by quality management, persists in “Winning by Quality”, and devotes itself to turning the quality into the Company’s core competitiveness. Huawei Digital Power has formulated and implemented the *Quality Guideline of Huawei Digital Power Company*, established and kept perfecting the quality management system, and actively put in place all standards provided in the quality management system. The Company has set up quality competence improvement work team, which is responsible for promoting the implementation of the Company’s quality competence improvement activities, and fulfilling the “Safety First, Quality Upmost, Winning by Quality” motto. For different objects, Huawei Digital Power provides differentiated empowerment training, for example, it provided service partners and internal employees with training about ISO 9000 system, cyber security and privacy protection, and core quality management philosophies etc., with a view to improving quality awareness; it provided internal employees with training on Failure Mode and Effects Analysis (FMEA), Theory of Inventive Problem Solving, 6sigma and Quality Control Circle (QCC), in order to improve all employees’ quality ability and business ability, and in turn serve customers better and improve customer satisfaction.

Huawei Digital Power’s Management System Certifications



Product Safety

At the inception phase of product design, Huawei Digital Power includes product quality and design in its design scheme, and defines “Five Nos and Three-friendly” (namely, No Hurt, No Explosion, No Fire, No Diffusion, No Failure, Grid-friendly, Environment-Friendly, and Load-friendly) as product design baseline. Pursuant to FMEA, the Company improves recognition and avoidance to prospective quality and safety risks at the beginning of the design, and strictly controls the quality of incoming materials, living up to quality control from the source. For products before the shipment, the Company strictly controls the product quality. For example, every inverter shall be subjected to a series of tests (including drop test, dust-proof test, wind-blowing and raining test, icing test, noise test, EMC, and lightning test etc.) at the testing laboratories, and proven to meet IP66 protection level before the shipment. All of the Company’s products are in conformity with product standards required by laws and regulations of target countries, and accompanied by *Regulatory Compliance Statement*, *Safety Manual*, *Installation Guide*, nameplate, certification log, and *Emergency Response Guide* etc., which further assure the product operation safety.

Huawei Digital Power keeps summing up and analyzing prospective safety risks of the products, continuously makes innovation and explorations, and further improves the product safety performance. The Company’s strict requirements for product safety receive recognition from home and abroad:

Huawei Digital Power SSLD was conferred the world’s first conformity declaration CB certificate and the world’s first circuit breaker specification conformity SSLD certificate by Intertek and DEKRA. According to the two agencies’ certification results Huawei Digital Power SSLD complies with IEC 60947-2 international standard.

In August 2022, Germany TÜV officially issued ISO 26262 Functional Safety ASIL Grade D Certificate to Huawei Smart EV’s MCU (Motor Control Unit), making the product become China’s first MCU that has completely passed ASIL Grade D (the topmost safety grade) certification, and implying Huawei Smart EV’s MCU complies with ISO 26262 Automotive Safety Integration Topmost Level’s functional safety requirements in life cycle.



Cyber Security and Privacy Protection

By upholding the cyber security value “Right-minded, Trustworthy, Capable, Responsible, Open, and Transparent”, observing local laws & regulations, and international standards, and referring to supervisory agency and customers’ requirements and ICT industrial standards, Huawei Digital Power continuously builds up effective, sustainable, and trustworthy cyber security and privacy protection management system, and establishes and implements end-to-end cyber security and privacy protection system from various respects such as policies, flows, tools, technologies and norms. Huawei Digital Power stresses the third-party cyber security and data protection. It has formulated supply chain security management rules and established emergency response mechanism, in order to respond to and dispose of the suppliers’ vulnerabilities and further protect the data security. Within the reporting period, Huawei Digital Power did not receive complaints about the infringement upon customer privacy and the customer data loss that have been substantiated.



Set up “Chief cyber security and privacy protection officer” to report to the Company’s executive management team (EMT) at regular intervals. Chief cyber security and privacy protection officer shall lead the Company in working out security strategy, unifying the plan and management, and supervising the security organization architecture and business of relevant departments in charge R&D and supply chain etc., in order to ensure the cyber security implementation quality in all departments.



Huawei Digital Power has integrated cyber security factors with its business flows such as standardized development and operation maintenance. For the design, we bring in integrated product development (IPD) flow, and make sure all products comply with cyber security baseline, and strictly observe different countries and industrial standards’ design specifications. We take advantage of enterprise security competence framework (IPDRR) to build resilient network for full identification, protection, detection, response, and recovery to any threat that might occur at the cloud end, transmission, and near end.



For all employees, we routinely organize cyber security and privacy protection awareness training education and exam, provide special training for managers and high-risk groups, making employees fully aware of cyber security and privacy protection’s importance.

Huawei Digital Power Passes Multiple Domestic and Overseas Authoritative Systems’ Security Certifications

- Huawei Digital Power’s Security Development Flow, iMaster NetEco (SmartPVMS), UPS5000H, and SCC800 etc. have passed IEC 62443 Industrial Automation Control Systems Security Standard Certification.
- EC800 and SUN2000HA were conferred the first international cyber security universal standard certificate “Common Criteria: IT Product and System Security Evaluation Standard Certificate”.
- Data Center’s full-series products passed “Cyber Security Standard Certification for Intelligent Networking Devices” organized by the Third Research Institute of the Ministry of Public Security.
- Smart EV products passed ISO 26262 Functional Safety Management Flow Certification, ASPICE L2 Automotive Electronics Embedded Software System Process Competence Certification and ASIL-D Automotive Safety Integrity Level Certification.

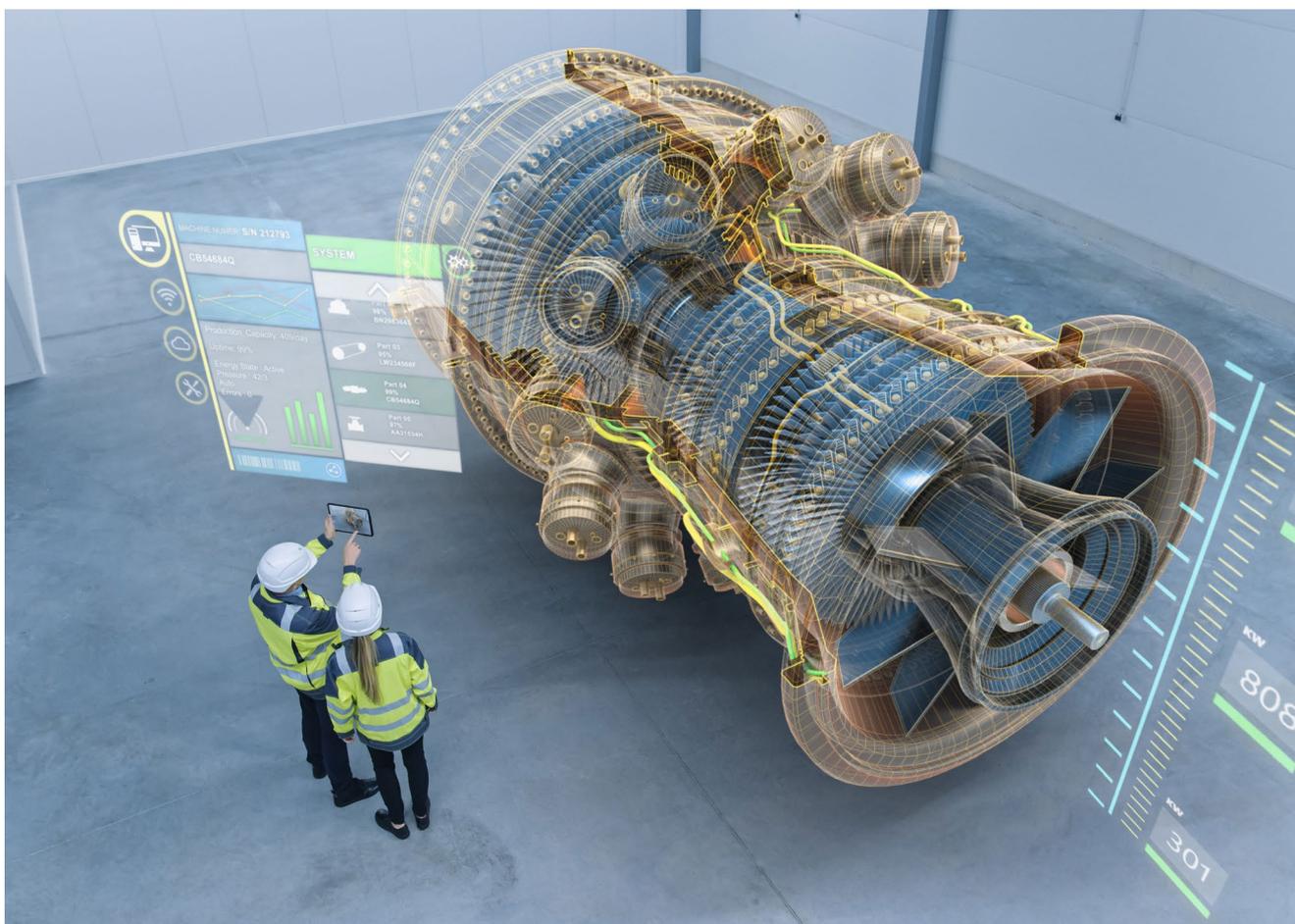
Customer Service Quality

Centering on the customer demands, Huawei Digital Power is in an effort to ensure high quality and high efficiency of products, solutions, and services, and to keep uplifting its service level. We keep improving service flow standardization level, and seek to respond quickly to customer demands. While improving the customer satisfaction, we analyze the primary cause of the complaint, and formulate and implement corresponding improvement measures, in order to make improvements in services, and prevent the problem from occurring again.

Service and Technical Support

Huawei Digital Power is committed to improving the user experience, and continuously uplifting the service flow standardization level. For technical teams and cooperative partners' special services and technical supports, we bright forth system-based, standardized, and professionalized demands. By improving the training system, we provide targeted training for relevant personnel who take part in R&D, IT, sales, and service from product development to product marketing, for example, product service and quality training, and language training etc.

Huawei Digital Power serves a population of more than 3 billion in over 170 countries and regions. To respond quickly to demands from customers of all walks of life, we have set up service organizations and platforms in a more focused and specific manner. In addition, we arrange technicians to resolve after-sales problems in a timely and efficient manner, and require them to make quick response to different products and customer groups, and to timely meet customer demands.



Customer Satisfaction

Huawei Digital Power always insists on the “Customer-centered” core value, and has established the customer satisfaction management and complaint handling mechanism according to the *Provisions for the Administration of Digital Power Customers and Partners Satisfaction*. Besides that, we have set up BSRT (Business Satisfaction Representative Team) to manage everyday customer and partner satisfaction.

To further learn about customers’ demands for services and product quality, Huawei Digital Power routinely entrusts the third-party agency to assist the Company in carrying out customer satisfaction survey through multiple methods including online questionnaire, telephone visit, and interview etc., in order to have more knowledge about customers’ evaluations on product quality and performance, partnership, after-sales service support, and service satisfaction etc., and provide valuable references for improvement of the Company’s product and service quality. In 2022, we organized satisfaction survey among more than 1,700 customers and partners from eight regions such as China, Europe, and Latin America, with feedback rate reaching 92%.

We have set up “400 Return Visit Hotline” and established the customer return visit mechanism for problem tracing and timely closed-loop treatment. In 2022, we handled 400,000 inquiries, complaints, and issues brought forth by customers and partners through closed-loop treatment.

In 2022, Huawei Digital Power focused on value customers to launch “Warm Sunshine” special campaign, and convened a total of 114 special meetings, routine meetings, and workshops etc. for exchange of ideas with customers. In the future, we will continue convening the opinion-soliciting meeting with value customers in the industry, align the work to business schedule, learn about customer appeals, and improve the customer satisfaction.

Disposal of Customer Complaints

Huawei Digital Power keeps a close eye on voices from customers, and persists in carrying out timely and effective closed-loop treatment to customer complaints. We have established multiple business flows for technical demands, supply demands, problem-to-solution, non-technical problems, major complaints, and customer & partner voice management etc., in addition to setting up relevant business teams for typesetting, auditing, studying & determining, and settling relevant issues, and the subsequent return visit.

We have established an efficient communication channel, and collected customers’ feedback and suggestions through diverse channels such as official website, 400 Service Hotline, email, direct selling team, and partnership system etc., in order to keep summing up experience and improving the management model targeted at different customer groups and dealers. We keep perfecting the customer complaint handling process, and assure timely and high-efficiency response and treatment to customer complaints.

1,700

customers and partners

In 2022, we organized satisfaction survey among more than 1,700 customers and partners from eight regions such as China, Europe, and Latin America

92%

with feedback rate reaching 92%

Implement Responsible Sourcing

Huawei Digital Power endorses the United Nations' Guiding Principles on Business and Human Rights and is serious about the societal and environmental impact of our global procurement and supply chains. We have teamed up with customers and suppliers to further the sustainable development of our global supply chains. In addition to incorporating CSR into activities across all of our value chains, we are constantly seeking new and innovative CSR practices. This helps us build our differentiated competitiveness and cost leadership. We strictly observe the Group's supply chain management requirements, and have also built CSR into our global procurement process, from material and supplier qualification, selection, and appraisal to performance management and procurement fulfillment.

Sourcing CSR Management System

Huawei Digital Power has established its procurement CSR management system based on the OECD's Due Diligence Guidance for Responsible Business Conduct and the IPC-1401 Corporate Social Responsibility Management System Standard, and incorporated CSR requirements into our procurement strategy and business processes. We require all of our suppliers to comply with all applicable laws and regulations, and encourage them to promote diversity and improve their own CSR management by adopting globally recognized industry standards. The Company's Supplier CSR Agreement is prepared according to the Responsible Business Alliance (RBA) Code of Conduct and the Joint Audit Cooperation (JAC) Supply Chain Sustainability Guidelines. This agreement covers labor standards, health and safety, environmental protection, business ethics, and management systems. Huawei Digital Power requires that all suppliers abide by the Supplier CSR Agreement and convey the same requirements to their own suppliers. We see the use of child labor or forced labor as red-line issues, and we have zero tolerance for violations of CSR red lines.

To support the strategic goal of sustainable procurement, we regularly deliver CSR training to all procurement staff. This training covers supplier CSR agreements, red lines, processes, and audit practices related to CSR in procurement. CSR requirements are incorporated into the performance indicators of all teams in our procurement department. In 2022, Huawei Digital Power had no violations of supplier CSR red lines and no accidents on subcontractor EHS deadly responsibility.

0

In 2022, Huawei Digital Power had no violations of supplier CSR red lines

0

no accidents on subcontractor EHS deadly responsibility



Huawei Digital Power's Red lines in Sourcing CSR include:

- Use of child labor.
- Use of prison labor (including using prisons as suppliers or subcontractors) or forced labor (including restricting personal freedom or detaining personal identity documents.)
- Violence, physical punishment, sexual harassment, illegal body searches, cross-gender body searches, and other similar behaviors.
- Salary payments below the local minimum wage.
- Negligence that leads to major fires or explosions.
- Working conditions that seriously endanger personal health and safety or lead to fatal incidents at the working site.
- Illegal emissions of any hazardous or toxic wastes, including wastewater, gas, and residue.
- Negligence that leads to media crises or serious mass disturbances, such as unnatural deaths, collective labor disputes, mass brawls, mass poisoning, or other incidents causing mass casualties.
- Unsafe and unhealthy working environments that lack effective measures to prevent potential health and safety accidents, or diseases that may be caused due to exposure in the workplace (e.g., collective infections)
- Corruption or dishonest acts that violate the requirements of "no bribery, no gifts, no conflicts of interest, no falsification, no cutting corners, no fraud, and keeping promises".

We also attach great importance to the benefits of localized procurement for the local economy, society and business operation, and implement the strategy of promoting localized procurement. We set up functional departments in countries and regions where our business is located, conduct localized purchasing according to local laws and policies.

Supplier Risk Rating and Auditing

Huawei Digital Power 's approach to supply chain management is defined by risk-based due diligence. We work with suppliers to identify and clarify CSR opportunities, and take actions to prevent and mitigate CSR risks. Every year, we assess all major suppliers, which represent 90% or more of our procurement spending. We assign each supplier one of three risk ratings (high, medium, or low) after a comprehensive assessment of indicators such as procurement amount, material category, supplier location, CSR performance score, and previous audit records. We develop an annual sustainability audit plan to deal with suppliers that are assessed as posing medium or high risk. In addition, we perform onsite assessments on all potential suppliers to examine their sustainability systems. No company that fails the assessment is eligible for consideration to become a Huawei Digital Power supplier.

In 2022, we assigned CSR risk ratings to more than 138 self-managed suppliers as well as those under the unified management of the Group, and conducted onsite audits on 6 suppliers, with audited objects including new suppliers, suppliers assessed as posing medium or high risk, EHS risk suppliers etc.

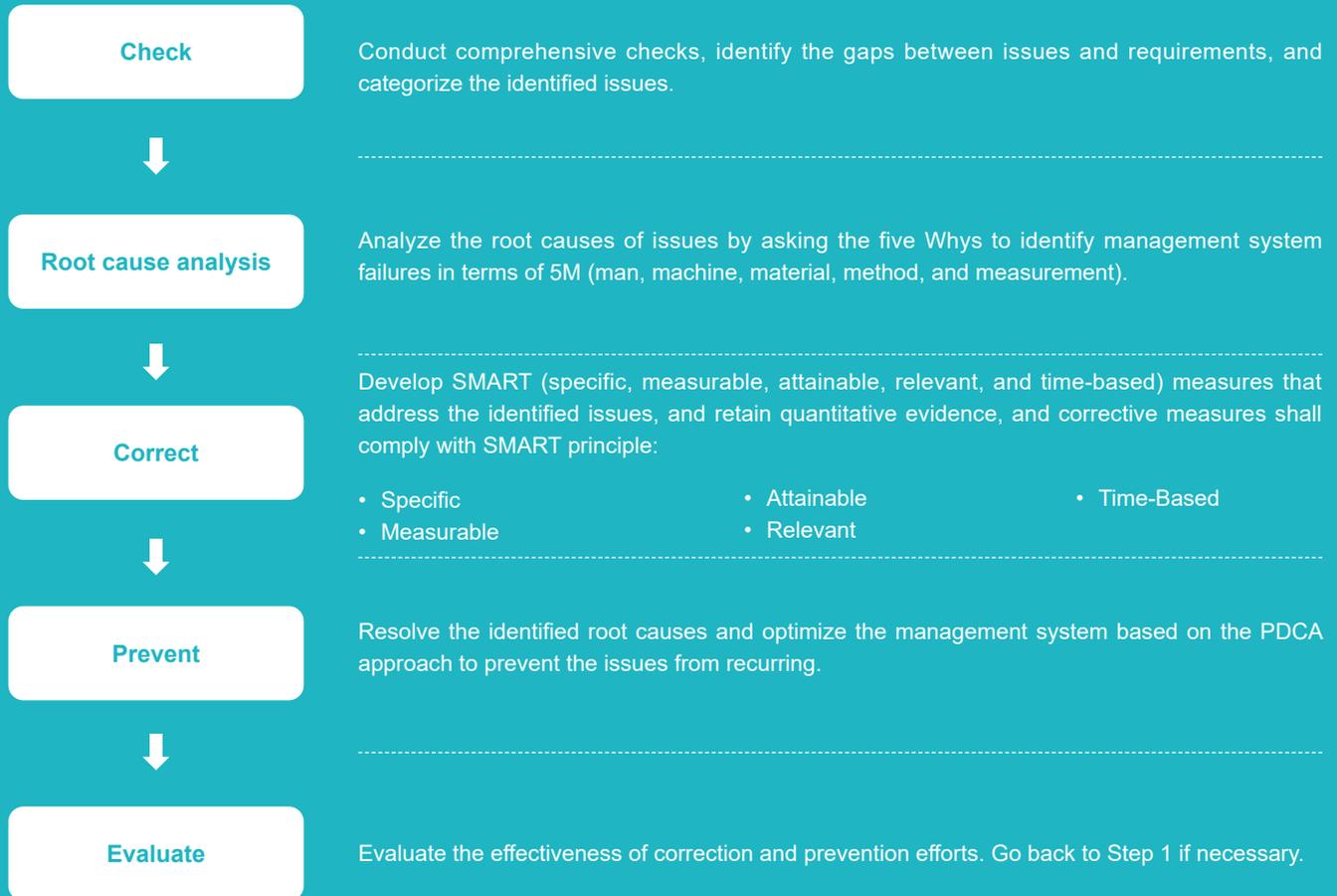
If we find an issue during an onsite audit, we help the supplier resolve the issue through the CRCPE methodology (check, root cause analysis, correct, prevent, and evaluate). This methodology helps suppliers identify common problems and develop targeted solutions.

90% or more

we assess all major suppliers, which represent 90% or more of our procurement spending

138 suppliers

we assigned CSR risk ratings to more than 138 self-managed suppliers



Supplier Performance Management

Every year, Huawei Digital Power appraises suppliers' sustainability performance as part of their overall performance appraisals. During this process, we also consider how they manage the sustainability of their own suppliers. Suppliers are classified into four grades (A, B, C, or D) based on their sustainability performance. In 2022, we conducted sustainability performance appraisals to more than 130 self-managed suppliers as well as those under the unified management of the Group.

The amount of business we carry out with each supplier depends partly on their sustainability performance, which is also a factor considered in our tendering, supplier selection, portfolio management, and other processes. For suppliers with good performance, priority should be given to increasing the purchase share or business opportunities under the same conditions; for any supplier with poor performance, it is required to make rectification within a time limit, reduce purchase share, restrict business cooperation or cancel the cooperative relationship.

Supplier CSR Training

We attach great importance to cultivating suppliers' corporate social responsibility, and require them to adopt industry best practices, incorporate sustainable development requirements into their business strategies, reduce business risks and improve corporate governance. We regularly offer training for all suppliers, including training on social and environmental issues such as human rights protection, compliance and integrity, energy conservation and emission reduction and fire prevention, in order to develop the training scheme with emphasis on both contents and features.

- Popularization of new supplier training: providing basic training including auditing standards, procedures and methods for newly warehoused suppliers, and popularize basic business and compliance information.
- Special training: provide routine special training including fire safety, energy conservation and emission reduction, human rights protection, and building a sustainable supply chain.
- Correction and improvement training: providing correction and improvement training for suppliers who fail the assessment, and support them to keep making improvements and uplifting sustainability management.

After years of exploration, we have devised an efficient "peer-benchmarking" learning model. Through CSR topic collection, industry benchmarking identification and analysis, supplier experience sharing, as well as template and checklist import, we have further improved the CSR training system for suppliers and improved supplier's risk response capability.





Stakeholder Engagement and Cooperation

Building a sustainable industrial chain requires the participation of all stakeholders. We attach great importance to our partnership with customers, suppliers, industry associations and other stakeholders. We have incorporated corporate social responsibility requirements into the management policies of partners, requiring suppliers to learn and sign the Integrity Agreement, hold supplier conferences, hold CSR seminars with customers and suppliers, nominate suppliers to participate in joint audits, carry out supplier capacity improvement projects, participate in industry exchanges and industry standards formulation, etc., so as to improve the sustainable development governance capability of partners.

We actively listen to customer requirements and expectations regarding supply chain sustainability, and seek to understand new global trends in CSR, responsible business conduct (RBC), and environmental, social, and governance (ESG) trends, and the progress of supply chain due diligence legislation in European countries. We also conduct self-assessments based on the OECD's Due Diligence Guidance for Responsible Business Conduct and share the assessment results with customers. Within the reporting period, we communicated with customer specifically on CSR requirements and measures such as supply chain traceability, forced labor, and responsible management.

In 2022, we also recommended two suppliers for joint audits organized by the Joint Audit Cooperation (JAC), an association of telecom carriers. The JAC assigned experts from independent third-party audit organizations to assess these suppliers onsite. Their average audit score was 89.7, and the audit results were shared with the JAC.

2 suppliers

we also recommended two suppliers for joint audits organized by the Joint Audit Cooperation (JAC)

89.7

Their average audit score was 89.7, and the audit results were shared with the JAC

Responsible Management of Minerals

Huawei Digital Power is committed to responsible procurement of mineral raw materials used in our products, including tin, tantalum, tungsten, gold (3TG), and cobalt. Responsible management of minerals is an integral part of our procurement CSR management system, including supplier qualification, supervision, and auditing processes. As a downstream company in the mineral supply chain, Huawei Digital Power does not directly purchase any minerals, and there are at least seven tiers between Huawei Digital Power and mining companies. Huawei Digital Power requires that our suppliers do not purchase conflict minerals to ensure that their products never directly or indirectly fund armed conflicts or any other inhumane act. Huawei Digital Power also actively works with global industry peers through industry initiatives like the Responsible Minerals Initiative (RMI) and the Responsible Cobalt Initiative (RCI). Together with partners both up and down the supply chain, we conduct supply chain surveys, create a complete list of all related smelters, and push these smelters to apply for or maintain the Responsible Minerals Assurance Process (RMAP) certification.

Huawei Digital Power has established a risk-based system for the responsible management of minerals in accordance with the OECD's Due Diligence Guidance for Responsible Supply Chains of Minerals. Each year, through this system, we identify suppliers of five conflict minerals: tin, tantalum, tungsten, gold, and cobalt. Using the Conflict Minerals Reporting Template (CMRT) and the Cobalt Reporting Template (CRT), we urge suppliers to identify and investigate all smelters within their supply chain. We also require that all identified smelters do not purchase minerals from conflict-affected and high-risk areas (CAHRAs), and urge smelters that have not obtained the RMAP certification to get the certification within a specified timeframe when necessary.



Business Ethics

Huawei Digital Power Technologies Co., Ltd (hereinafter referred to as “Huawei Digital Power”) works hard to conduct its business with integrity and conform to business ethics standards and all applicable laws and regulations. This key principle is upheld by our highest levels of management. We have worked for years to build a compliance management system that aligns with industry best practices and embed compliance management into every aspect of our business activities and processes, and these efforts continue to this day. Huawei Digital Power emphasizes a culture of integrity and invests heavily to make it a reality. Our Business Conduct Guidelines (BCGs) set out the legal and ethical requirements that every employee must follow while conducting business activities. The BCGs require every employee to not only comply with all applicable laws and regulations, but act in a socially responsible manner. In 2022, 100% of Huawei Digital Power employees signed the BCGs. Anyone who violates the BCGs is subject to disciplinary action, which can range from termination of employment to legal liability.

- Huawei Digital Power Company’s compliance officer is fully responsible for Huawei Digital Power’s compliance management and a regular reporting to Huawei Digital Power’s Board of Directors, president, and the Group’s chief compliance officer; Every one of our company’s business departments and subsidiaries has also established its own compliance team, taking responsibility for the management of its own operational compliance.
- We identify and assess risk according to applicable laws and regulations and business scenarios. In addition, we have formulated control measures that have been incorporated into our business activities and processes. We also continuously optimize our management system through root cause analysis and targeted corrective action.
- We attach great importance to and continuously enhance the compliance awareness of our managers and employees. Through publicity, training, exams, disciplinary action, and other related actions, we push all our employees to fully understand their own obligations as well as the company’s.
- With an open mind, we proactively engage and work with customers, partners, regulators, and other stakeholders on compliance, to constantly enhance mutual understanding and trust.

Huawei Digital Power is dedicated to ensuring better compliance across multiple domains, including but not limited to trade compliance, financial compliance, anti-bribery compliance, intellectual property (IP) and trade secret protection, cyber security and privacy protection, and fair competition. These compliance requirements are embedded into our policies, systems, and business processes.

Huawei Digital Power has established differentiated compliance empowerment mechanism for different objects. Within the reporting period, Huawei Digital Power’s compliance training results are as follows:

Manager/Director:

• **200** person-times

Manager intention training covers 200 person-times

• **300** persons

Role perception training covers more than 300 persons

Key Staff and Employees:

• **40** sessions

Organize more than 40 sessions of special training on key risks

• **20** sessions

Organize more than 200 sessions of training for key staff and employees at positions with different risks

• **100%**

Organize 10 sessions of compliance training at new employee intensive training camps, covering 100% of new employees

- Launch the *Compliance Management Fundamentals* course targeted at all employees

Anti-Corruption and Anti-Bribery Compliance

Huawei Digital Power has a zero-tolerance policy towards corruption and bribery. In every country where we operate, we conduct all business under a legal framework that supports fair competition and opposes bribery and corruption. We place our obligation to fight bribery and corruption above our own commercial interests, and we are working to ensure that our business is conducted in a fair and transparent manner.

- Our anti-bribery compliance (ABC) management is designed specifically for our diversified business portfolio, and we continuously develop the ABC management system and capabilities. We constantly identify and monitor risks, drive the optimization of relevant business rules and processes, and monitor their implementation.
- Huawei Digital Power works hard to create a culture of integrity and enhance its compliance capabilities. Internally, we embed compliance requirements into business processes, ensure all employee conduct is above board, and raise employees' compliance awareness by requiring them to study and comply with Huawei Digital Power's BCGs and anti-corruption policies. On top of this, we provide general training for all employees and targeted training for staff in key process positions, and run campaigns that help the compliance team hone their expertise. The training content is distributed in many ways to facilitate policy understanding, from videos and forums to dedicated online training channels. Externally, we carefully manage our relationships with third parties

to ensure compliance. We continuously communicate with stakeholders (e.g., industry peers, consultants, partners, and NGOs) about compliance to clarify our position and views on anti-bribery and anticorruption. Such communication ensures stakeholders understand our compliance management policies. All partners of Huawei Digital Power – whether they are directly providing services and fulfilling their contractual obligations to Huawei Digital Power, or providing services and fulfilling their contractual obligations to Huawei Digital Power customers or other third parties on behalf of Huawei Digital Power – are required to comply with all applicable laws and regulations, industry ethical standards, and Huawei Digital Power's Anti-corruption Policy for Partners, Supplier Social Responsibility Code of Conduct, Code of Conduct for Partners, and Honesty and Integrity Commitment. The combination of these efforts allows us to control ABC risks across the company.

- We have established complaint channels through which employees and other parties can report violations. When we receive a complaint, we launch an investigation and protect the person lodging the complaint from any form of threat or retaliation by keeping their identity secret.

We comply with Huawei's statements and policies on anti-corruption and anti-bribery, please visit the "Policies" section at:

<https://www.huawei.com/en/sustainability/sustainability-report>



Intellectual Property Rights and Trade Secret Protection

Huawei Digital Power is dedicated to its long-term investments into R&D and continuously enriching its intellectual property (IP) portfolio. The Company believes that respecting and protecting IP is the bedrock of innovation. As a follower, practitioner, and contributor of IP rules, as well as an innovator, Huawei Digital Power works tirelessly to improve the environment for protecting innovation and IP in the industry and across countries and regions.

Huawei Digital Power is committed to protecting its own IP and trade secrets, while respecting those of others. We explicitly prohibit our employees from improperly acquiring, disclosing, using, or disposing of the trade secrets of others. The key measures Huawei Digital Power has taken to protect the trade secrets of others include:

- Issuing the *Regulations on Respecting and Protecting Third Party Trade Secrets V1.0*, which set out clear rules that employees must follow to respect and protect the trade secrets of others during business activities, ensuring that employees carry out business activities legally and in accordance with the Company's contracts.
- Embedding trade secret protection requirements into business processes such as R&D, sales, procurement, and HR, conducting regular reviews, and continuously improving management mechanisms by taking away lessons and case studies from day-to-day operations.
- Organizing publicity, training, and exams on trade secret protection for all employees, so that they are fully aware of their obligations and responsibilities regarding trade secret protection compliance.
- Conducting supervision, including checks and audits, to examine efforts aimed at protecting the trade secrets of others and thus ensure effective implementation of our policies, rules, and processes.
- Establishing an accountability system based on official corporate policies, such as the Accountability Protocol for Infringements of Other Parties' Trade Secrets and the Accountability Rating Criteria for Information Security Violations, to hold violators accountable for any trade secret violations.



Trade Compliance

Huawei Digital Power has always endeavored to comply with applicable laws and regulations of the countries and regions in which it operates. These include the applicable export control and sanction laws and regulations of the UN, China, the US, and the EU. We are committed to fulfilling our responsibilities and obligations related to export controls. Based on the Group's years of continuous investment and construction, Huawei Digital Power has established a mature and sustainable internal system for trade compliance that aligns with industry standard practices, and worked tirelessly to constantly improve this system.

By actively aligning with the industry's best practices, the Company has established an integrated trade compliance management organization within the company. This organization manages trade compliance across both group functions and field offices. In addition, we have established specialist teams in our global offices that monitor changes to local laws and regulations; embed trade compliance requirements in the corporate rules and processes; and manage and oversee trade compliance in each link of our

business operations, ranging from procurement, R&D, and sales, to supply and services.

Huawei Digital Power continuously pushes employees to further their own trade compliance awareness. Employees must sign Huawei's BCGs each year, which include commitments to observing applicable export control laws and regulations. Huawei Digital Power provides various training sessions on trade compliance to managers and employees across the company. These efforts, combined with targeted training for specific business scenarios, ensure employees fully understand their own responsibilities and obligations, as well as those of the company, regarding export controls.

We comply with *Huawei's Statement of Compliance with Export Control Regulations*. For details please visit the "Policies" section at:

<https://www.huawei.com/cn/sustainability/sustainability-report>



Fair Competition and Trade

We have long placed fair trade as a priority for operational compliance, and have established organizations, processes, regulations, and rules to ensure competition compliance.

- We have established dedicated compliance organizations, appointed compliance officers in each region where we operate, and put in place a range of supporting regulations and rules, including guidelines and implementation rules on compliance with competition laws, manager and employee statements on compliance, partner letters of commitment to compliance, and related training materials.
- We have embedded competition compliance rules and regulations into management systems and business processes. We customize policies for each country based on local competition laws. We update compliance objectives every year and oversee the achievement of these objectives. We also provide dedicated training

for compliance officers to ensure that related rules and guidelines are fully implemented.

- We optimize its business processes and establishes long-term mechanisms to ensure competition compliance comprehensively. These processes and mechanisms include independent sales consultant management, due diligence on third-party suppliers, and the optimization of competition law compliance baselines for sales contracts.

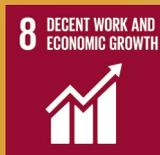
Huawei Digital Power is actively contributing to a fair market environment by raising employee awareness and fully adhering to the fair competition principle in our business operations. Within the reporting period, not a single instance of legal action against the Company as a party concerned for anti-competitive behavior and monopoly practices was found at Huawei Digital Power.



One-mind Growth

Employees increase the vitality of enterprises and our partners are our closest friends on our way towards making the society more harmonious. We attach great importance to employee growth, and are committed to building an equal and inclusive workplace, providing various promotion paths and training systems for their personal development, so as to realize the common growth of enterprise and employee. As an international enterprise, we work with partners to build a low-carbon and digital society, promote local economic development, improve people's health and well-being, and create sustainable industrial chains.

UN SDGs under the support of Huawei Digital Power:



Employee Growth

Employees continuously inject vitality into enterprises and are valuable assets for enterprise development. We are dedicated to creating a diversified workplace of equality, tolerance, respect and mutual assistance. Adhering to the principle of "Safety first and caring for employees", we have constantly improved the construction of the occupational health and safety management system. In addition, we broaden the channels for employees' development and promotion, encourage them to continue forging ahead and pursue excellence, create opportunities for employees to realize their own value, and strive to build the Company into a business platform that attracts all kinds of outstanding talents to work together and share value.

Build a Harmonious Team

Huawei Digital Power is committed to complying with the Universal Declaration of Human Rights, and observes the Group's Caring for Employees Policy that lays out the principles and requirements we believe that a good employer must meet to ensure employee care. These principles and requirements cover child labor, forced or involuntary labor, health and safety, diversity, discrimination, humane treatment, working hours, compensation and benefits, freedom of association, privacy protection, and learning and development. We have put in place processes, systems, and baselines to ensure our employee care policies are effectively implemented. When it comes to recruitment, promotion, and compensation, we do not discriminate against anyone based on race, religion, gender, sexual orientation, nationality, age, pregnancy, or disability. We prohibit the use of child labor and forced labor (including bonded or indentured labor), and have effective measures in place to prevent the recruitment, use, and dismissal of such labor. Not a single instance of child or forced labor has been found at Huawei Digital Power and we hold all our suppliers to this same standard, regularly conducting audits to ensure their compliance.

Huawei Digital Power has also established effective mechanisms for employee communication, and gathered its employees' opinions and suggestions through its Manager Feedback Program (MFP), the organizational climate survey, the manager open day program, and more, ensuring that its employees' voices are heard and the Company responds actively to their inquiries. Employees can also report violations, file complaints, and seek assistance through multiple channels such as the dedicated complaint mailbox of the Committee of Ethics and Compliance (CEC) and internal service hotline. Huawei Digital Power keeps all reporters' information strictly confidential and prohibits any attempts to threaten or retaliate against reporters.

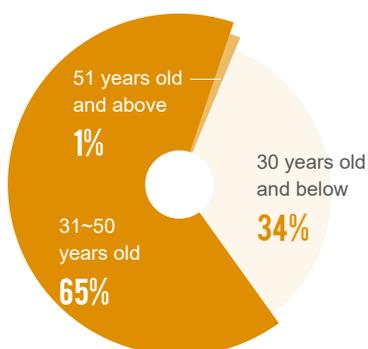
As an internationalized company, Huawei Digital Power makes its greater efforts to create an impartial and inclusive workplace that encourages mutual respect and diversity. By the end of 2022, Huawei Digital Power's employee size across the globe totaled about 6,000 persons, who came from 70-something countries and regions throughout the world. We set store by localization construction, and have employed more than 500 local employees from abroad.

6,000 persons

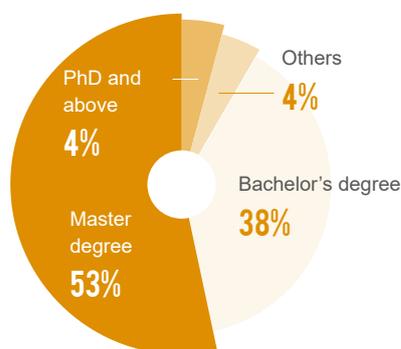
By the end of 2022, Huawei Digital Power's employee size across the globe totaled about 6,000 persons

500 persons

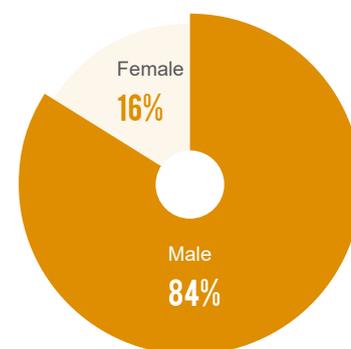
We set store by localization construction, and have employed more than 500 local employees from abroad



Structure of employee age in 2022¹⁹



Employee education level in 2022²⁰



Employee gender in 2022

¹⁹ Some employees' age information is unavailable for different countries and regions' policies and regulations.

²⁰ Some employees' education information is unavailable for different countries and regions' policies and regulations.

Huawei Digital Power respects the diversity of cultural backgrounds and beliefs and the lifestyle of employees, and encourages employees from different regions and departments to communicate with each other to create an open, inclusive, respectful and diverse employment environment. Huawei Digital Power has built facilities (e.g., refectory, coffee bar, fitness center, library, nursery room, and prayer room) in its park, providing employees with diverse options, people-oriented services, and convenience conditions suiting their local customs, beliefs, and living habits. We organize a variety of team activities, including Family Day and Engineers' Culture Day, etc., to promote mutual understanding and trust among employees of different cultural backgrounds, and foster a favorable organizational atmosphere. We encourage employees with common hobbies to spontaneously establish various types of cultural & sports associations and fan circles such as dancer association, basketball association, running association, badminton association, and photographer association, in order to enrich the spare time.



Family Day



1024 Engineers' Culture Day



Basketball Association Event



Dancer Association Event

Huawei Digital Power's employees come from all around the world. To help employees cater for cross-cultural differences, we have elaborately developed a series of courses and case collections such as *Cross-cultural Team Management*, *Cross-cultural Adaptation*, and *Cross-cultural Phonograph*. Focusing on work scenarios, we provide training for local grassroots supervisors, key staff, and overseas Chinese managers, assist supervisors and employees of different levels in improving their cultural competence, and cultivate good soil for building of a diversified team of mutual trust.

Protect Employee Health and Safety

We attach great importance to employees' health and safety, actively care for employees, and keep improving the occupational health and safety system. We implement management methods that meet or exceed requirements of relevant laws and regulations, take fully into account the Company's internal and external environments, local laws and regulations, and demands from stakeholders (government, customer, and employee, etc.), and determine the scope of EHS management system according to internal actual businesses. We have established the EHS management system environment according to PDCA cycle (Plan, Do, Check, Action), passed ISO 45001 occupational health safety management system certification, and implemented employee occupational health monitoring management work. Through safety culture, emergency drill, first-aid knowledge, and physical & mental health training and guidance, we put in place employee health protection, and go all out to assure the health and safety of stakeholders such as employees and cooperative partners. Besides, we conduct monthly health and safety training among employees and organize all personnel of the R&D laboratory to take part in level-3 safety training, with contents including basic laws & regulations, general safety, post safety, and occupational health and safety etc. Each month, chief of operations provides the list of new employees of the laboratory, and the laboratory administrator will organize relevant training for these new employees on time.

We continue to invest heavily into practical measures that safeguard employee health. In addition to comprehensive social insurance, we also offer competitive commercial insurance plans, including accident insurance, life insurance, critical illness insurance, overseas business travel insurance, and family insurance. We are also working to make insurance claims easier and give a human touch to insurance services.

To guide employees to continuously care for their personal physical and mental health, Huawei Digital Power brings in the third-party health resources that provide employees with services such as health lecture, health activity, health counseling, psychological counseling, and psychological assessment. We also push psychological health lecture and knowledge to employees, evoke their health awareness, and cultivate positive organization atmosphere.



First-aid training



Expert counseling

In 2022, Huawei Digital Power organized employees to actively take part in medical check-ups, and more than 91.2% of the employees received medical check-ups. We organized monthly first-aid training in which a lot of employees became the first-aid volunteers. To continuously shore up the employee first-aid emergency response mechanism, we have cultivated a lot of first-aid teams, set up the emergency call centers, and organized first-aid drill each year to open up the life first aid chain.

91.2%

more than 91.2% of the employees received medical check-ups

Promote Career Development

We provide employees with a broad career development channel by offering two distinct career paths for employees: the manager path and the expert path. Employees can advance while switching between the two paths. All employees receive regular performance and career development reviews, and are given plenty of training and mobility opportunities during career development. We have implemented a mechanism for department-initiated talent transfers and an internal talent market for free mobility. Both are intended to drive employee mobility and help our employees become more versatile in multiple disciplines. Talented people are not confined to one domain and are instead given the opportunity to work in a variety of different professions and domains. This helps them reskill and upskill, giving more room for growth. At Huawei Digital Power, we offer employees a global platform, exposing them to many new experiences and new insights that will help them grow quickly.

To align with the career development channel, Huawei Digital Power has built diversified, all-around, and systematic learning resources and platforms, and empowered the employees in an all-around manner for their growth at different stages. For example, we provide new employee induction training and professional job training to assist new employees in learning about the Company and mastering skills; we have established the tutorial system to assist excellent young employees in converting their roles and fitting into growth; we have also rolled out professionalism improvement programs demanded for different stages of the career development, in addition to the manager development programs that support the improvement of the management skills.

We believe in learning through practice and practicing what we learn. Huawei Digital Power has built skills conversion learning bases, hardware installation and debugging training bases and intelligent photovoltaic training bases in Dongguan, Guizhou and Qinghai to drive its training and practice sessions to enable individual growth.

Convene Innovation Competition and Stimulate the Innovation Potential of Internal Talents

In 2022, Huawei Digital Power held the Innovation Gold Idea Event & the 4th Innovation Competition themed on “Exploring Carbon Tech, Creating the Future”, set different prizes, and provided prize winners with generous bonuses. In addition to encouraging internal talents to make innovations, Huawei Digital Power hoped to take this chance to

resolve key technical problems in digital power, set up a development and innovation platform, diversify the innovation methods, and promote the landing of innovation. This Competition received a total of 1,984 creative ideas and 5,713 person-times of viewership, implying a rise of 60% and 36% respectively from the previous session.

1,984 creative ideas

This Competition received a total of 1,984 creative ideas

5,713 person-times

5,713 person-times of viewership

36%

36% respectively from the previous session

60%

implying a rise of 60%



Promote Win-Win Cooperation

We adhere to the concept of open cooperation and win-win symbiosis, and actively cooperate with customers, partners, industry associations, higher learning institutions, and more to leverage the advantages of all parties, keep innovating, and assist in the industry's ecological prosperity and development.

Active Involvement in drafting and formulation of industrial standards

Huawei Digital Power was heavily involved in the standardization work of dozens of domestic and overseas important energy standardization organizations, including China Electricity Council Standardization Management Center, China Communications Standards Association, China Electronics Standardization Institute, National Technical Committee of Auto Standardization, Electric Energy Storage of Standardization Administration, and Open Data Center Committee etc.

Each year, Huawei Digital Power invests much in planning, preparation, and revision of more than 100 important industrial standards, and hosts or organizes multiple important industrial standard meetings in the fields of smart PV, energy storage, smart EV, charging network, data center energy, and site power etc., making active contributions to the industry's healthy development.

In 2022, Huawei Digital Power participated in formulation of the following standards (partial):

National standards

- Presided over the preparation of the national standard Communication Technical Requirements for Electrochemical Energy Storage Battery Management
- Participated in the preparation of *GB/T 42288-2022 Safety Code of Electrochemical Energy Storage Station*
- Participated in the preparation of the national standard *Lithium Ion Battery for Electrical Energy Storage*
- Participated in the preparation of *GB/T 42726-2023 Specification of Supervision and Control System for Electrochemical Energy Storage Station*

Group standards

- Presided over the preparation of the group standard Technical Specification for DC Busbar Type Charging Device of EV
- Participated in the preparation of the national standard *GB/T 18487 Electric Vehicle Conductive Charging System*
- Participated in the preparation of the national standard *Connection Set of Conductive Charging for Electric Vehicles --Part 4: High-power DC Charging Coupler*
- Participated in the preparation of *GB/T 29307-2022 The Reliability Test Methods of Drive Motor System for Electric Vehicles*
- Participated in the preparation of the group standard *Technical Standard of Lithium-ion Battery Equipment for Data Centers and Code for Prefabricated Power Module of Data Centers*
- Participated in the preparation of the group standard *Safety Technical Specification for LiFeP04 Battery System for Telecommunications*

Found the College Student Innovation Competition, and Encourage the Youths to Innovate Bravely

On August 2022, the 2nd Huawei College Student Power Electronics Innovation Competition Final successfully concluded in Dongguan-Huawei European Town. Themed on “Ultra Speedy Power- LV High Current Power Supply Module Design”, this event lasted for seven months and eventually singled out 17 “King teams” for onsite final and ultimate confrontation.

Huawei Digital Power organizes this annual event for integrated innovation of digital technology and power electronics technology among college students, and we sincerely invite elites from higher learning institutions across the globe to jointly explore the integrated innovation of digital technology and power electronics technology, and create a greener and better future.



Launch Green Data Center, Green Building, and Green Park Solutions

In May 2022, China Institute of Building Standard Design & Institute Co., Ltd. (hereinafter referred to as “Standard Design & Institute”) and Huawei Digital Power signed a framework cooperation agreement in Beijing. Upholding the principle “Serving Society, Common Development”, both sides will further discuss the future development path, strive to promote resource sharing and complementary advantages, jointly construct green data center, green and low-carbon building, and green parks etc., accelerate the green and low-carbon urban transition, and work together to create a green, low-carbon, and intelligent society.

Through this signing, both sides will actively respond to the country’s “dual carbon” initiative, and adopt low-carbon, green, and digital measures to boost the industrial upgrading of the data centers, buildings, parks, and cities. Both sides will carry out cooperation in multiple fields such as joint scheme innovation, joint standard declaration, joint business development, and joint capability improvement etc., with a view to promoting sustainable development and achieving the country’s “dual carbon” targets ASAP.



Social Contributions

While developing its own businesses, Huawei Digital Power endeavors to benefit society with its technical achievements, promote sustainable development of the region where it operates and bring into full play its own resources and professionalism to assist in rural revitalization. As a responsible corporate citizen, Huawei Digital Power keeps its eyes on the status quo of local sustainability, and harnesses technological innovation and operation activities to promote the development of local digital economy, support local government’s sustainable economic growth and environmental protection, and benefit local people.

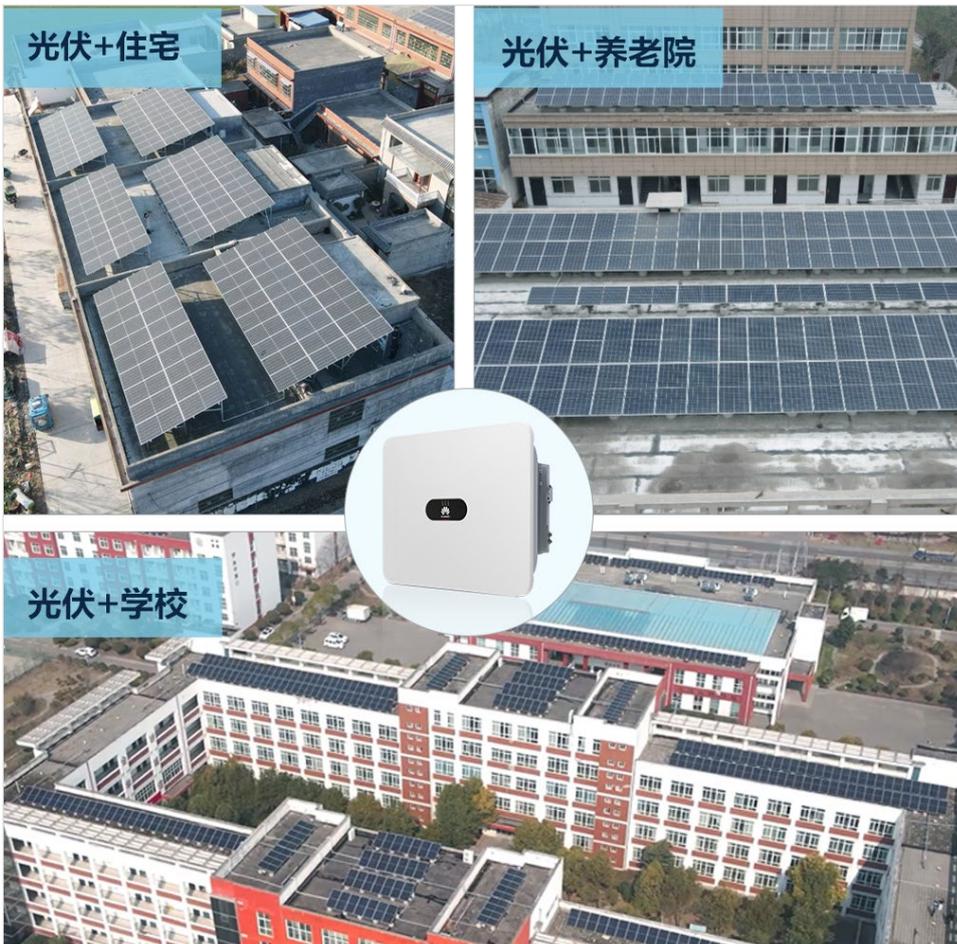
Huawei Smart PV Assists in Henan Xiangcheng Low-carbon County Project

Henan Xiangcheng County Roof Distributed PV Construction is an important step to achieve the national “dual carbon” targets and promote rural revitalization. Henan Province strongly pushes ahead with the roof PV construction, and Xiangcheng County, as a pilot county, took the leading in responding to Henan Province’s initiative and made full use of local resources such as party and government organ roofs, school roofs, commercial roofs, and residential roofs. It’s estimated that the development scale totals 300MW, leading to reduction of carbon emissions by about 3.90 million tons.

Huawei Smart PV supported Xiangcheng County in building the roof PV to align with the rural revitalization strategy. Under the support of Huawei Smart PV, Xiangcheng County has integrated a variety of resources for intensive development, impelled the development of local industries, and carved out the path for transition from agricultural production villages to green, low-carbon, and smart county area. This project was included in “2022 Rural Revitalization Innovation Case of the Year” by People.cn.

300_{MW}
It’s estimated that the development scale totals 300MW

3.90 million tons
leading to reduction of carbon emissions by about 3.90 million tons



Provide Kenya's Time-honored School with Steady and Clean Power Source

Jubaili Bros Solar PV and Huawei Digital Power donated one SUN2000-10KTL inverter to Strathmore University, a PV training school in Kenya. By doing so, both sides not only provided the school with clean energy, but brought teachers and students a platform for close-distance touch and research

to the PV system. "We can see that strong technologies like Huawei inverter are looming, and it's also easy to install Huawei inverter and debugging system. Kenya is a prospective market, and there will be a lot of families with PV in the near future," said Eric Otieno, a PV trainer with Strathmore University.



Yunyang with Huawei, Building a Highland for the Green Data Processing Industry

To boost traditional industry's transition and upgrading, Yunyang County of Chongqing City follows the trend of the times to prioritize the development of the Big Data industry, hence a Big Data Center was established jointly by Yunyang County and Huawei Digital Power. Yunyang Big Data Center adopts Huawei Digital Power's complete set of intelligent micro-module data center solution: for the power supply and distribution system, modular UPS5000 series is adopted to ensure continued power supply in a short time when fault occurs, and the maintenance will be completed within 5 minutes; for the temperature control system, FusionCol is adopted for smart temperature control, living up to energy conservation by over 10%; for the operation maintenance system, NetEco is adopted for all-around management over the data center in monitoring, energy efficiency, operation maintenance, and operation.

Relying on the noodle industry, Yunyang people ever became better off through diligent work. However, due to confined noodle industry information channel and various regional preferences for fresh noodles, it's difficult to expand the scale of Yunyang fresh noodle

industry. Benefiting from the high-efficiency data center in steady running, the noodle industry platform based on Yunyang Data Center has hosted 5,000 online shop tenants and achieved output value of RMB 100 million. In addition, data platforms for beekeeping, hog raising, chrysanthemum and traditional Chinese medicinal material planting have mushroomed and come into service in Yunyang.

Besides promoting settlement of online shop tenants, the Data Center also supported Yunyang's Smart County Services in developing at a fast rate. In Yunyang, 28 offices and bureaus under the county committee and 60 self-built systems have been all connected onto the cloud; smart medical service covers 44 health centers, benefiting a population of 1 million; Smart Education covers 124 schools, benefiting 125,000 students; immigrant smart community is connected to Line 1088 card interface, benefiting 150,000 residents. Yunyang County worked with Huawei Digital Power to innovate and expand the data center business forms, embrace the digital economic era with new vision, new ideas, and new measure, and improve the people's livelihood and well-being.

5,000 tenants
the noodle industry platform based on Yunyang Data Center has hosted 5,000 online shop tenants



Appendix 1: GRI Content Index

Statement of usage

Huawei Digital Power Technologies Co., Ltd. has reported the information cited in this GRI content index for the period from January 1, 2022 to December 31, 2022 with reference to the GRI Standards.

GRI 1 used

GRI 1: Basic 2021

GRI Standard	Disclosure	Page(s)
GRI 2: General disclosure 2021	2-1 Organizational details	1
	2-2 Entities included in the organization's sustainability reporting	3
	2-3 Reporting period, frequency and contact person	3
	2-4 Restatements of information	/
	2-5 External assurance	/
	2-6 Activities, value chain and other business relationships	1
	2-7 Employees	60-63
	2-8 Workers who are not employees	/
	2-9 Governance structure and composition	13-14
	2-10 Nomination and selection of the highest governance body	13-14
	2-11 Chair of the highest governance body	13-14
	2-12 Role of the highest governance body in overseeing the management of impacts	13-14
	2-13 Delegation of responsibility for managing impacts	13-14
	2-14 Role of the highest governance body in sustainability reporting	13-14
	2-15 Conflicts of interest	/
	2-16 Communication of critical concerns	15-16
	2-17 Collective knowledge of the highest governance body	13-14
	2-18 Evaluation of the performance of the highest governance body	13-14
	2-19 Remuneration policies	60
	2-20 Process to determine remuneration	60
	2-21 Annual total compensation ratio	/
	2-22 Statement on sustainable development strategy	12
	2-23 Policy commitments	48, 60
	2-24 Embedding policy commitments	13-14

GRI Standard	Disclosure	Page(s)
GRI 2: General disclosure 2021	2-25 Processes to remediate negative impacts	14
	2-26 Mechanisms for seeking advice and raising concerns	14
	2-27 Compliance with laws and regulations	54-58
	2-28 Membership associations	/
	2-29 Approach to stakeholder engagement	15
GRI 3: Material topics 2021	2-30 Collective bargaining agreements	60
	3-1 Process to determine material topics	16
	3-2 List of material topics	16
GRI 201: Economic performance 2016	3-3 Management of material topics	16
	201-1 Direct economic value generated and distributed	/
	201-2 Financial implications and other risks and opportunities due to climate change	4-6, 18-38
	201-3 Defined benefit plan obligations and other retirement plans	/
GRI 202: Market presence 2016	201-4 Financial assistance received from government	/
	202-1 Ratios of standard entry level wage by gender compared to local minimum wage	/
GRI 203: Market presence 2016	202-2 Proportion of senior management hired from the local community	/
	203-1 Infrastructure investments and services supported	67-69
GRI 204: Procurement practices 2016	203-2 Significant indirect economic impacts	67-69
	204-1 Proportion of spending on local suppliers	/
GRI 205: Anti-corruption 2016	205-1: Operations assessed for risks related to corruption	54-55
	205-2: Communication and training about anti-corruption policies and procedures	54-55
	205-3: Confirmed incidents of corruption and actions taken	/
GRI 206: Anti-competitive Behavior 2016	206-1: Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	58
GRI 207: Tax 2019	207-1 Approach to tax	40
	207-2 Tax governance, control, and risk management	40
	207-3 Stakeholder engagement and management of concerns related to tax	15
	207-4 Country-by-country reporting	3
GRI 301: Materials 2016	301-1 Materials used by weight or volume	/
	301-2 Recycled input materials used	22
	301-3 Reclaimed products and their packaging materials	22
GRI 302: Energy 2016	302-1 Energy consumption within the organization	20
	302-2 Energy consumption outside of the organization	20
	302-3 Energy intensity	/

GRI Standard	Disclosure	Page(s)
GRI 302: Energy 2016	302-4 Reduction of energy consumption	19
	302-5 Reductions in energy requirements of products and services	18-38
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	20
	303-2 Management of water discharge-related impacts	20
	303-3 Water withdrawal	/
	303-4 Water discharge	/
	303-5 Water consumption	20
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	22
	304-2 Significant impacts of activities, products, and services on biodiversity	22
	304-3 Habitats protected or restored	/
	304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	/
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	18
	305-2 Energy indirect (Scope 2) GHG emissions	18
	305-3 Other indirect (Scope 3) GHG emissions	/
	305-4 GHG emissions intensity	/
	305-5 Reduction of GHG emissions	19
	305-6 Emissions of ozone-depleting substances (ODS)	/
	305-7 Nitrogen oxides (NO _x), sulfur oxides (SO _x), and other significant air emissions	21
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	21
	306-2 Management of significant waste-related impacts	21
	306-3 Waste generated	21
	306-4 Waste diverted from disposal	21
	306-5 Waste diverted to disposal	21
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	48-51
	308-2 Negative environmental impacts in the supply chain and actions taken	48-51
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	/
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	60-63
	401-3 Parental leave	/
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	/
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	60-62
	403-2 Hazard identification, risk assessment, and incident investigation	60-62

GRI Standard	Disclosure	Page(s)	
GRI 403: Occupational Health and Safety 2018	403-3 Occupational health services	60-62	
	403-4 Worker participation, consultation, and communication on occupational health and safety	60-62	
	403-5 Worker training on occupational health and safety	60-62	
	403-6 Promotion of worker health	60-62	
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	60-62	
	403-8 Workers covered by an occupational health and safety management system	60-62	
	403-9 Work-related injuries	/	
	403-10 Work-related ill health	/	
	GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	54
		404-2 Programs for upgrading employee skills and transition assistance programs	63
404-3 Percentage of employees receiving regular performance and career development reviews		63	
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	60	
	405-2 Ratio of basic salary and remuneration of women to men	/	
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	60	
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	/	
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	48-49, 60	
GRI 409: Forced or Compulsory Labor 2016	409-2 Operations and suppliers at significant risk for incidents of forced or compulsory labor	48-49, 60	
GRI 410: Security Practices 2016	410-1 Security personnel trained in human rights policies or procedures	48-49	
GRI 411: Rights of Indigenous Peoples 2016	411-1 Incidents of violations involving rights of indigenous peoples	/	
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	36-37, 67-68	
	413-2 Operations with significant actual and potential negative impacts on local communities	/	
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	23, 48-53	
	414-2 Negative social impacts in the supply chain and actions taken	23, 48-53	
GRI 415: Public Policy 2016	415-1 Political contributions	/	
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	43-45	
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	/	
GRI 417: Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling	44	
	417-2 Incidents of non-compliance concerning product and service information and labeling	/	
	417-3 Incidents of non-compliance concerning marketing communications	/	
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	45	

Appendix 2: Table of Abbreviations

Acronym/ Abbreviation	Full Name in English	Full Name in Chinese
3TG	Tin, Tantalum, Tungsten, Gold	锡、钽、钨、金
5G	The 5th Generation Mobile Communication Technology	第五代移动通信技术
AI	Artificial Intelligence	人工智能
ASIL	Automotive Safety Integrity Level	汽车安全完整性等级
ASPICE	Automotive Software Process Improvement and Capacity Determination	汽车电子嵌入式软件系统过程能力认证
BCG	Business Conduct Guidelines	商业行为准则
BCM	Business Continuity Management	业务连续性管理
BIPV	Building Integrated PV	光伏建筑一体化
BSI	British Standards Institution	英国标准协会
BSRT	Business Satisfaction Representative Team	业务满意度代表团队
CAHRA	Conflict-affected and High-risk Areas	冲突影响和高风险地区
CB	Certification Bodies' Scheme	CB 认证
CEC	Committee of Ethics and Compliance	道德遵从委员会
CMRT	Conflict Minerals Reporting Template	冲突矿产报告模板
CRCPE	Check, Root cause analysis, Correct, Prevent and Evaluate	检查、根因分析、改进、预防和评估五步法
CRT	Cobalt Reporting Template	钴报告模板
CSD	Corporate Sustainable Development	企业可持续发展
CSR	Corporate Social Responsibility	企业社会责任
DCIM	Data Center Infrastructure Management	数据中心基础设施管理
DEKRA	Deutscher Kraftfahrzeug überwachungsverein	德国机动车监督协会
EHS	Environment, Health and Safety	环境、职业健康和安全

Acronym/ Abbreviation	Full Name in English	Full Name in Chinese
EMC	Electromagnetic Compatibility	电磁兼容性
EMS	Electronics Manufacturing Service	电子制造服务商
EMT	Executive Management Team	经营管理团队
ESG	Environmental, Social and Governance	环境、社会及治理
FMEA	Failure Mode and Effects Analysis	失效模式及后果分析
GRI	Global Reporting Initiative	全球报告倡议组织
GSSR	Green, Simple, Smart, Reliable	绿色、极简、智能、安全
ICT	Information and Communications Technology	信息通讯技术
IDC	Internet Data Center	互联网数据中心
IEC	International Electrotechnical Commission	国际电工委员会
IP66	Ingress Protection 66	IP66 防护等级
IPD	Integrated Product Development	集成产品开发
IPDRR	Identify, Protect, Detect, Response, Recovery	企业安全能力框架
IPE	Institute of Public and Environmental Affairs	公众环境研究中心
ISO	International Organization for Standardization	国际标准化组织
IT	Information Technology	信息技术
ITR	Issue To Resolution	问题到解决
JAC	Joint Audit Cooperation	全球电信企业社会责任联盟
LTA	Land Transport Authority	新加坡陆路交通管理局
LTC	Lead To Cash	线索到回款
MCU	Motor Control Unit	电机控制器
MFP	Manager Feedback Program	经理人反馈计划
MIMO	Multiple-Input Multiple-Output	多输入多输出技术
NGO	Non-Governmental Organization	非政府组织
NVH	Noise Vibration and Harshness	噪声、振动与声振粗糙度

Acronym/ Abbreviation	Full Name in English	Full Name in Chinese
OECD	Organization for Economic Co-operation and Development	经济合作与发展组织
PaaS	Platform as a Service	平台即服务
PUE	Power Usage Effectiveness	能源利用效率
PVMS	Photovoltaic Management System	光伏管理系统
QCC	Quality Control Circle	质量控制圈
RBA	Responsible Business Alliance	责任商业联盟
RBC	Responsible Business Conduct	责任商业行为
RCI	Responsible Cobalt Initiative	责任钴倡议
RMAP	Responsible Minerals Assurance Process	责任矿产保证流程
RMI	Responsible Minerals Initiative	责任矿产倡议
SaaS	Software-as-a-Service	软件即服务
SSLD	Smart String-Level Disconnection	智能组串分断
TRIZ	Theory of Inventive Problem Solving	创新性问题解决理论
UNGP	United Nations Guiding Principles on Business and Human Rights	联合国工商企业与人权指导原则
UPS	Uninterruptible Power Supply	不间断电源

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