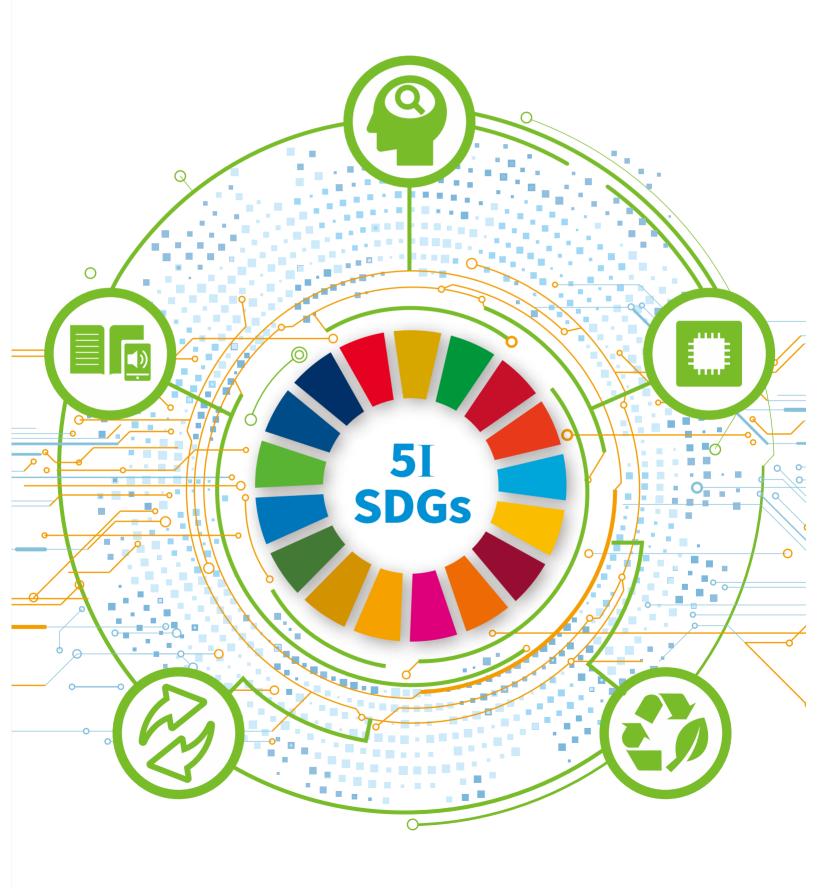
2020 ESG Report

Environmental Social and Governance



Editorial Policy

Welcome to Chunghwa Telecom's 14th Corporate Social Responsibility (CSR) Report. This report is published in both Chinese and English on a dedicated CSR website. We hope to integrate the advantages of both paperbased and Internet-based reports to let our stakeholders gain a better understanding of our CSR-related efforts and performances in 2020.

https://www.cht.com.tw/en/home/cht/sustainability/csr-report-download

Reporting Period

This report discloses the Company's CSR management policies, material issues, countermeasures, initiatives and results between January 1 and December 31, 2020. However, to ensure complete coverage, parts of the report include descriptions of initiatives and results from 2019 to 2021.

References

Issuing Organization	ltem		
The Global Reporting Initiative, GRI	GRI Standards: Core option		
The Global Reporting initiative, GRI	G3.1 Telecommunications Sector Supplement		
The International Integrated Reporting Council, IIRC	International <ir> Framework</ir>		
Sustainability Accounting Standards Board, SASB	Telecommunication Services Sustainability Accounting Standard, SASB		

How to Read the Report



Assurance

Content and data of this report have been reviewed and assured by SGS Taiwan Ltd. based on the "Core" option of GRI Standards for compliance with the Core elements of GRI Standards and AA1000 AS (2018) Type 2 High Assurance Standards and requirements of the Integrated Reporting <IR> Framework and Telecommunication Services Sustainability Accounting Standard, SASB.

Feedback

If you have any feedback to share, please do not hesitate to contact us through: Vivian Lin, Public Affairs Department, Chunghwa Telecom, Address : 21-3, Sec. 1, Xinyi Road, Taipei, Taiwan 100 Telephone :+886-2-23442780

E-mail : chtcsr@cht.com.tw



Unless otherwise specified, all currency units used in this report's financial data are by default New Taiwan Dollars (NT\$).

CONTENTS

Editorial Policy	01
Message from the Chairman	04
2020 ESG Milestones	06
2020 Material Issue – COVID-19 Prevention Measures	08



01 Corporate Overview	12
Corporate Governance	18
CSR Management	26



04 Sust Risk

Emerging Risks Emerging Oppo Climate Chang Cybersecurity F

02 Sustainability Value Strategy 28

Six Main Capitals - Create Sustainability Value
Five Major Forces - Drive the Sustainable Cycle
Creating Sustainable Value



05 The Creation of Sustainable Value

The Digital Economy Motivator The Creative Industry Pilot The Happiness Value Protector The Green Corporation Pioneer The Social Value Guide

06



03 Material Topics and Impact 34

2020 Material Topics and Impact	36
Stakeholders Engagement	40



Strategies and Goals for Material Topics	136
GRI Standard Index	138
Sustainability Accounting Standards Board, SASB Index	146
Assurance Statement	147

tainability <s and="" opportunities<="" th=""><th>44</th><th></th></s>	44	
S	48	
oortunities	48	
ge Risks and Opportunities	50	
Risks	55	



Public Policy Participation 132

Message from the Chairman

Welcome to the 2020 ESG Report of Chunghwa Telecom Co., Ltd.

The year 2020 marked a year of challenges worldwide. Under the threat of COVID-19, we managed to promote the transition strategy with "customers at the core" to continue explore markets in depth while develop various technological applications in telecommunication. Meanwhile, we set our eyes on corporate's sustainability strategy. Upholding the brand spirit of "Always Ahead", we established five pillars of sustainability, "The Digital Economy Motivator, The Creative Industry Pilot, The Happiness Value Protector, The Green Corporation Pioneer, and The Social Value Guide". Leveraging constantly our advantages in ICT industry and technology, we stipulated and implement various ESG action plans and targets. Together with enterprises in Taiwan, we created the industrial ecosphere to jointly realize the Sustainable Development Goals and create positive social impacts.

In 2020, we launched the 5G services on June 30 as the first among our peers to bridge ourselves to the world with our extraordinary technology. Upholding the dual-axis strategy "5G+Transformation", we connected extensively with industrial ecospheres at home and abroad, integrating and expanding vertically fields of application across industries. With the widest bandwidth and the best frequency bands, we are committed to the development of 5G+AIoT innovative applied technologies, "Showcasing the Splendor, Co-creating the Future" with our customers so as to accelerate the intelligent transition and upgrade for industries in Taiwan and lead the enterprises in Taiwan into a sustainable, innovative future.

> To better bridge our competency in digital economy, we continued to promote "Rise On, Together 2021" transformation plan. Putting the business philosophy "customers at the core" into action, we established the "datadriven" decision-making model to drive our core business performances, kick off new businesses, invest continually in technology R&D, recruit and cultivate brilliant minds and elites in order to set the keystone for our sustainable operation.

In 2020, we stipulated Preparedness and Contingency Plan in Response to "Severe Special Infectious Pneumonia" to tackle the impacts of COVID-19 pandemic. Apart from the establishment of the epidemic prevention and response group and exercises carried out internally, we also initiated off-site working and split working (remote working included), while ensure the business continuity with full epidemic prevention supplies and thorough execution of various control measures so as to safeguard the health and safety of all employees.

> In the meantime, we proactively utilized our ICT core competences to put "ICT epidemic prevention" to good use. Rapidly forming the "hi-tech epidemic prevention team", we developed the innovative "monitoring and control system for epidemic prevention". Tapping into our collective momentum, we swiftly responded to all kinds of needs for COVID-19 prevention, assisting the government in protecting Taiwan, containing the pandemic, and maintaining the health of citizenry and economic activities. Our results of hi-tech epidemic prevention effort were widely applauded.

In response to the global issue of sustainable development, we drew on our years of practical experiences in the ESG area on the basis of digital inclusion strategy. In 2018, we launched the "5I SDGs" (i.e. "I love SDGs") initiative to set up pillars of "I-Technology, I-Protecting, I-Helping, I-Learning, and I-Sharing". With an army of corporate volunteers full of passion as the seeds, we pushed for an array of ESG action plans, including the allround next-generation AI young talent empowerment efforts, care for the underprivileged in the rural areas with the state-of-the-art technology as well as participation in the national team for epidemic prevention, innovating and fostering place-making models in alliance with local industries and energies, and formation of low-carbon sustainable supply chains with partners to exercise diverse environmentally sustainable practices in depth, bridge to the UN SDGs from multiple facets, and demonstrate the specific contributions of Chunghwa Telecom in connection with the SDGs to the global community.

As a result, our commitment to the ESG sustainability has won hordes of accolades from the stakeholders concerning sustainability in 2020.

- 1. Included in the Dow Jones Sustainability Index (DJSI) for 9 consecutive years
- the 5th time
- 3. Included in the Taiwan Sustainability Index (TWSI)
- 4. Included in the FTSE4Good Emerging Index
- Enterprises"
- Sustainability Professionals Awards

To align ourselves with the global trend of net-zero and in light of institutional investors incorporating the ESG performances of enterprises into their investment metrics, we proactively entered the market of green energy to develop green renewable energies such as solar power and wind power, installing over 450 project sites nationwide that generate power over 270 MW in total. In addition, we fully implemented sustainable supply chain management, joined the CDP supply chain program, and set the inventories of carbon management in motion throughout the supply chain. Also, we practice the "Sustainable Partner Certification" system, construct the "low-carbon sustainable supply chain" to march towards a sustainable tomorrow of lower carbon emissions with our vast number of partners on the supply chain, while elevating the sustainability for the ICT supply chain and the society.

"Chunghwa Telecom can do more." Looking forward, we shall continue to take one step at a time, striding steadfastly towards the corporate sustainability and pushing for various ESG actions on the ground. Meanwhile, utilizing our core expertise in ICT, technologies, resources, competences, and features, we efficiently help resolve social issues, exercise our commitment as a corporate citizen, and create values for stakeholders across fields. As such, we aspire to fulfil our visions in corporate development – Leader in Smart Living and Agent of Digital Economy Empowerment – while expecting your continuous supports and encouragements to Chunghwa Telecom.

Chairman & CEO Chunghwa Telecom Co., Ltd. Sheib Chi-mau

2. Awarded Top 5% of the Corporate Governance Evaluation from the Taiwan Stock Exchange Corporation for

5. Excellence in Corporate Social Responsibility Award from CommonWealth Magazine Top 10 in "Large

6. SGS Taiwan_CSR Supply Chain Management Excellence Award & Personal Information Management Awards

7. Taiwan Corporate Sustainability Awards including the Corporate Sustainability Report Awards (Services), The Most Prestigious Sustainability Awards – Top Ten Domestic Corporates, and 6 Outstanding Corporate

2020 ESG Milestones



"Intelligent Community of the Year" from Intelligent Community Forum "Voice Assistance APP" for the Visually Impaired shortlisted in GSMA GLOMO Awards

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Awarded Top 5% of the Corporate Governance Evaluation from the Taiwan Stock Exchange Corporation

> Epidemic Prevention Medal from the Executive Yuan 2020 Smart City Outstanding Contribution Award -Smart Health from Taiwan Smart City Association



Smart Agricultural Service awarded with "2020 Smart City Innovative Application Award" from Taipei Computer Association Inclusion in the Emerging Market Index of DJSI



• Excellence in Corporate Social Responsibility Award from CommonWealth Magazine Top 10 in "Large Enterprises"



 SGS-Taiwan_CSR Supply Chain Management Excellence Award

SGS Taiwan_ Personal Information Management Awards National Communications Comissions_The first telecom service provider certified with NCC IS2051 and PLMN12 TAF

Nov

- Red Hat, Inc. APAC Innovation Awards 2020
- Silver Prize and Bronze Prize of the 2020 PwC's CSR Impact Awards



Climate Leadership Award



 2020 Frost & Sullivan Best Practices Awards "2020 Taiwan Cloud Infrastructure Service Provider of the Year", "2020 Taiwan Mobile Service Provider of the Year", and "2020 Taiwan Data Center Service Provider of the Year"



- S&P Ratings: rated "AA" in foreign long-term rating

Best Smart Customer Service System Application and Best Enterprise in Service Innovation from the 2020 Customer Service Excellence Awards (CSEA) of TCCDA

• 8 prizes of the Taiwan Corporate Sustainability Awards, including the Corporate Sustainability Report Award (Services), The Most Prestigious Sustainability Awards -Top Ten Domestic Corporates, and Outstanding Corporate Sustainability Professionals Awards: the Growth through Innovation Award, Information Security Award, Supply Chain Management Award, People Development Award, Social Inclusion Award, and

The first telecom operator in the world to pass "TCFD Conformity Check" by BSI



• Taiwan Ratings: rated twAAA / twA-1+ in domestic long-term/short-term Rating Sports Activist Awards of Sports Administration, Ministry of Education The Asset ESG Corporate Awards Platinum Award • "Brand of the Year" in the "2020-2021 World Branding Awards"

2020 Material Issue – COVID-19 Prevention Measures

During the Lunar New Year of 2020, the COVID-19 epidemic broke out worldwide. Either enterprises or individuals had suffered severe impact. As a local leading enterprise, under the stewardship of our Chairman, we "deployed preemptively" and "improved on a rolling basis" comprehensively. Hence, we urgently assembled the elite teams, return to work from holidays early, established the Command Center, joined the national team of epidemic prevention, and stipulated CHT Preparedness and Contingency Plan in Response to COVID-19 as the "overall solution" for epidemic prevention response.

The national team of epidemic prevention of CHT supported the disadvantaged and demonstrated its social care while put its ICT advantages to good use, applying various advanced ICT in the works of epidemic prevention. Through a systematic application, we facilitated the government to accomplish tasks in the most timely, accurate, thorough manner in epidemic prevention efforts. As such, CHT was further recognized as the "champion in technology for the national team of epidemic prevention" by President Tsai.

Employees

In response to the COVID-19 epidemic, with the internal epidemic prevention plan formulated, we promulgated "epidemic prevention measures for different levels of epidemic situations", issued "requirement for all personnel to have temperature checkup and sanitation with alcohol sanitizer before entering the facilities", conducted "random inspection of epidemic prevention measures", "tracking and caring for the personnel that are listed as identified contacts", "preparation of epidemic prevention promotion materials", and enacted Ten Epidemic Prevention Measures as follows.

CHT Ten Epidemic Prevention Measures 🔽

Caring Case – Diamond Princess

During the epidemic, Personnel A and their families went for a tour onboard Diamond Princess Cruise Ship and was subject to the quarantine measures on the seas demanded by the Japanese Government. Nevertheless, it was full of stress in the quarantine period. Therefore, CHT cared for the personnel in a proactive, friendly, and swift manner to ease the mind of the personnel.

- 2 / 5 The health authority of Japan demanded a 14-day quarantine on the sea for Diamond Princess.
- 2 / 7 The direct supervisor of Personnel A reported that Personnel A was onboard the cruise ship with their children and worried about the impact of quarantine to the work and the leave arrangement. CHT responded promptly on the same day that leave for statutory reasons was granted besides the original leave for the trip to ease the mind of Personnel A.
- 2/10 In response to the worsening development of the epidemic onboard the ship, the unit of Personnel A, the HR Department, and the Occupational Safety Department created a caring team on LINE to care for the personnel at all times.
- >2/21 Personnel finally took the chartered flight back to Taiwan upon receiving the certificate of negative test result from Japan.

Afterwards, CHT made sure that Personnel A arrived at Taiwan via the chartered plane safe and sound before going to the collective quarantine facility for another rigorous quarantine for 14 days. The support team continued to provide care in the duration. As a result, Personnel A returned to work smoothly upon the expiration of the quarantine period at the collective quarantine facility.

Eustomers

General Consumers

To reduce the risk of contact for customers over the counter, we provided the free customer service hotline 24/7, developed an Interactive Voice Response (IVR) System, as well as multiple self-service channels like online/SMS/Internet customer services and application, so that consumers could engage telecommunication businesses at home and at ease.

In addition, in light of the delayed school opening for epidemic prevention, "ibobby smart voice service" of Chunghwa Telecom offered services like storytelling and music and became a quality AI assistant to parents during the pandemic period. Aside from utilization of voice service to keep children company and receiving the latest information on epidemic prevention, it was linked with "Pick Me Up" service to learn about the ETA of parents to school accurately to reduce the risks of cross infection in student pick up.

Corporate Clients

Our featured corporate services of "meeting, working, and access to corporate networks at ease even away from the office" that offered services for Business, Amazon Chime, Amazon WorkSpaces solution, and SSL VPN remote secure access service, along with rigorous cybersecurity monitoring, assisted businesses to operate as usual while reducing the operating costs during the epidemic.



Society

We actively partook in the focused works of government's epidemic prevention effort, which could fall into the six categories as follows. None of them were in violation of laws pertaining to the personal information.

Quarantine Cellphone

- The guarantine cellphone is issued to specific individuals subject to home isolation/guarantine in line with the Quarantine and Tracking for Entry demanded by Taiwan CDC.
- A total of 3,360 cellphone for emergency purposes were assembled, including 2,400 quarantine cellphones, 200 cellphones for the police departments, and 760 cellphones for the civil administration and health department.

Development and maintenance of **Epidemic Monitor and Management System**

- We Self-developed "Epidemic Monitor and Management System", through the address of the dedicated cellphone or home guarantined persons' cellphone to determine if the guarantined individuals were staying at the designated locations.
- It integrated data of telecom operators for Taiwan CDC to learn about the whereabouts of individuals under home isolation/guarantine up to 160,000 persons.

Use of Big data analytics

- Quarantine route estimation: the technology of big data analytics was utilized to estimate the key loci of the confirmed cases/individuals at high risks as well as the list of potentially exposed individuals for Taiwan CDC to follow up and send warning text messages in order to effectively reduce the risk of virus spread.
- Crowding hotspot warning: the information of crowding attraction hotspots throughout the country was available for the public and the police department's reference.



Guaranty of telecommunication quality for epidemic prevention

- Pursuant to the policy of "name-based mask distribution system", the 6,245 circuits of the NHS pharmacies nationwide were incorporated for real-time monitoring.
- The signals and covered facilities nearby the designated isolation hospitals for communicable diseases were boosted to ensure a good quality of the mobile signals.
- Dedicated lines, MOD, Wi-Fi equipment, and mobile base stations were added to enhance the communication guality in the guarantine areas.

Discounts for telecom service fees

- disadvantaged students, free of charge.
- services were offered respectively.
- prevention promotion of the government with up to 8 million person-times reached.

Support to "CDC's Consultation Hotline 1922" and NIA's 0800 Foreigners Hotline

- Taiwan Hotline with up to over 425 individuals allocated in a day.
- in real-time.
- Hotline were 340,000.



• The telecom rates of the businesses and schools impacted by the epidemic were lowered moderately to reduce the burdens thereto, while 10,000 Prepaid SIM Cards were provided to especially economically-

In support of the "name-based mask distribution" policy, 5 million "free SMS messages" and "e-mail"

• The hotels with MOD services were exempted from 3 months of service fees in line with the epidemic

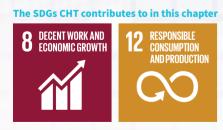
• 500 personnel were mobilized to support Taiwan CDC toll-free hotline 1922 and NIA's Foreigners In

• A home quarantine caring team was formed in support to the Ministry of Health and Welfare (MOHW) to provide accurate epidemic prevention knowledge and learn about the health condition of the public

• The number of calls to Taiwan CDC toll-free hotline 1922 in 2020 were up to 1.82 million. The average response rate is 86%, exceeding the goal of 80%. The number of calls served by NIA's Foreigners Material Topics

Sustainability Risks

Corporate Overview



Corporate Governance CSR Management

18 26

 \mathbf{O} The only telecom operator to have a labor director elected.

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Chunghwa Telecom established a CSR committee and six task forces csr responsible for the setting of sustainability policies.

Annual review of the Company's budget planning for carbon management strategies; execution of action plans; setting CO. performance targets.

Sustainability issues addressed by Chunghwa Telecom: social integration, digital inclusion, green ICT products & services, green brand management, and energy-saving & carbon reduction.







For 2020, Chunghwa Telecom's consolidated net income was NT\$ **207,600,000** thousand and its annual earnings per share was NT\$ **4.31**.

To link sustainability performance with compensation, Chunghwa Telecom implemented a soft incorporation of sustainable development strategies and targets into its review of compensation.

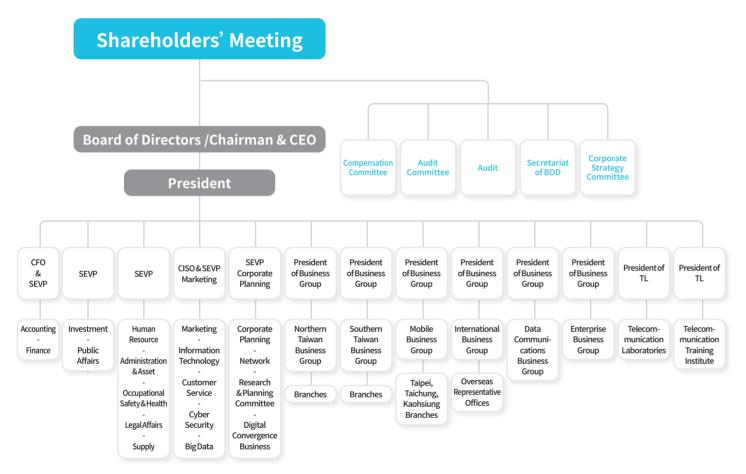
Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

Chunghwa Telecom (TAIEX:2412, NYSE: CHT) is the largest integrated telecom carrier in Taiwan. The head office is located at 21-3, Section 1, Xinyi Road, Taipei with more than 455 locations in 22 counties and cities in Taiwan. Our major business include fixed and mobile communications, broadband access and the Internet. We also provide corporate customers with information and communication services, including big data, information security, cloud and Internet Data Center. We also offer innovative technology services, such as the IoT (Internet of Things) and AI (Artificial Intelligence), to create an outstanding communication environment and extraordinarily convenient digital life. We also have important business partnerships with other international telecom carriers.

Chunghwa Telecom Organization Chart



We expect to start the organizational restructuring of our Enterprise Business in July 2021 and complete the customer-centric organizational structure in January 2022, strengthen the strategic functions of our headquarters, and restructure our eight business groups into three business groups and three technology groups.

We Strive to



Enhance the operational efficiency of corporations



Create a gateway to an enjoyable digital life for people



Facilitate industry scale to expand in a good way with our contribution

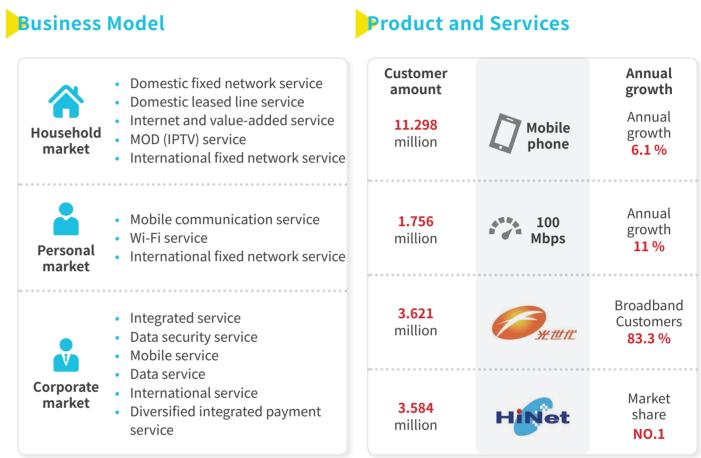


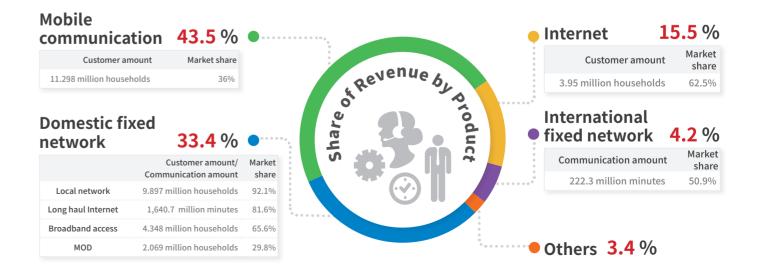
Allow investors to enjoy the business profit from a satisfied customer base

Since 2006, Chunghwa Telecom upholds the service philosophy of "bridge the digital divide, implement environmental sustainability, and care for the disadvantaged". Hence, the core technologies, resources, competencies, and features of the Company have been leveraged to implement the brand spirit of "Always Ahead" on the three fronts of Environmental, Social, and Governance. We demonstrate our determination in sustainable operation with our actions to fulfill our corporate social responsibility on all fronts. In recent years, our active efforts in ESG were constantly recognized by professional institutes at home and abroad.

Three Telecom Laws

Main businesses of branch offices and reinvestment companies: Please refer to P.15, 71 in the 2020 Annual Report.







Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

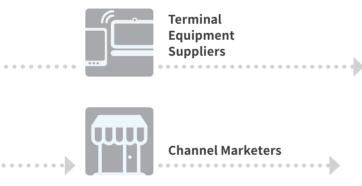
Industry Value Chain and Critical Sustainability Performance

Due to technological advancements, boundaries of specialized markets that we used to know of are starting to shift, thus allowing industry participants to compete outside of their dominant markets. International Data Corporation has even combined ICT, e-Commerce, Electronics and Entertainment into a new segment called eICT to recognize the increasingly common cross-industry collaboration.



The wave of digital convergence brings new values to the telecom industry and opportunities to meet users' needs by offering innovative eICT services, which makes content providers and integrators, application service providers, network equipment suppliers and terminal equipment suppliers the important value partners to a telecom carrier in the development of digital convergence services. Moving forward, Chunghwa Telecom shall continue to

better itself in services of fixed network, mobile, data, and eICT while strengthening the partnership with its suppliers throughout the supply chain to form a closer industrial ecosphere to introduce more quality services.





The **first** telecom operator in the world to pass "TCFD Conformity Check"

Society

Governance





Collective Agreement



"5I SDGs" first initiative connecting 5I to the UN SDGs and DIGI+ in Taiwan





The only telecom operator to have a labor director elected





First telecom carrier that has been certified with environmental standards "ISO 14046 Water footprint and ISO 14067 Carbon footprint"



Obtained SGS Certificate of Conformity for Code of Conduct (CoC)



Independent director percentage 38.5%

04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value 06 Public Policy Participation

Corporate Governance

Chunghwa Telecom Board of Directors is the highest governing body. The Board of Directors is responsible for appointing and nominating high-level managers, as well as formulating and reviewing corporate social responsibility, and sustainable development strategies. The 9th Board has 13 directors. To date, there are 1 female and 12 male directors, including 5 independent directors. Directors' tenure is three years (June 21, 2019 to June 20, 2022). All of the independent directors are included in the Audit Committee to ensure the independence of governance and the perspectives of the stakeholders.

To meet the needs of Chunghwa Telecom's business development, the Board of Directors of Chunghwa Telecom shall comprise experts and scholars in the industries as well as in the fields of finance and accounting, management, etc.; the members on the Board of Directors shall include one or more talent in the fields of innovation capacity, business experience, legal expertise, and ICT, respectively. In addition, gender equality in the composition of the Board of Directors is highlighted. A goal of 20% female seats on the Board of Directors in 5 years has been stipulated.

Chunghwa Telecom's outside directors (including independent directors) provide expertise based on their respective areas of practice and professionalism to assist the Board of Directors in making decisions as to benefit the Company and the shareholders. To prevent personal liability and financial losses due to third-party litigation, we have purchased indemnity insurance for Directors.

To ensure an effective operation of sustainable management, apart from the key performance indicators listed for the Company, departments, and individuals, we also incorporate items pertaining to the CSR development trends, including innovative development, risk management, code of conducts, information/cybersecurity, climate change, stakeholder engagement/inventory, and social participation, in Directions Governing Performances of Senior Managers of Chunghwa Telecom.



Chunghwa Telecom 2020 Annual Report 🔽

Experiences of the Directors: Please refer to the 2020 Annual Report on P.18-19
Continuing Education of the Board of Directors: Please refer to the 2020 Annual Report on P.72-74





Board Diversity Policy

Chunghwa Telecom implements diversity in the Board of Directors and recruits talents primarily based on skill sets. Selection of directors is not limited to any particular gender, age, nationality, culture or ethnicity. Directors are expected to have outstanding quality, industry experience and expertise to complement the Board.

Linking Compensation to Sustainability Performance

All Chunghwa Telecom directors are nominated by the Board of Directors and shareholders holding the legally required percentage of shares, they are then subsequently appointed by the Board of Directors. The Compensation Committee has implemented a soft incorporation of sustainable development strategies and targets into its review of director compensation in accordance with the Company's Articles of Incorporation so as to achieve the following: (1) evaluation of required core competencies in order to facilitate the connection between director performance and the Company's sustainability outlook and short, medium, and long-term strategies and targets, (2) strengthening accountability and linking performance with compensation, recruitment and retention to attract key talent on the Board of Directors. The implementation of this measure coupled with the substantial effect of the variable compensation plan is a win-win for the Company and its directors.

Director compensation: Please refer to P.30-33 of the Company's 2020 annual report.

Consists of all the independent directors, whose main duties are to hire or dismiss the CPA, determine the CPA compensation, review and discuss quarterly, semiannual, and annual financial reports, the adoption of or amendments to the internal control system and the assessment of the effectiveness of the internal control system.

Consists of 8 board members, who are responsible for mid to longterm development plans and other critical issues, as well as major investment and mergers and acquisitions, major reorganization of the Company, applications or returns of business licenses, annual operating plans and budget compilations and revisions, capital increases or decreases, and other major strategic decisions. The resolutions are submitted to the BoD for final approval.

Consists of three independent directors, who are responsible for the evaluation of the performance of directors and managers, and for determination of appropriate compensation policies, system standards and structures. Also, the compensations of directors and managers are evaluated and stipulated on a regular basis.

04 Sustainability Risks and Opportunities

06 Public Policy Participation

Avoidance of Conflict of Interest

Chunghwa Telecom's Chairman is concurrently the CEO. The election of directors comply with relevant laws and regulations, which suggests the directors are nominated by the Board and shareholders who meet the statutory shareholding requirements, and the announcement of director nomination and nomination process are conducted in accordance with the statutory procedures. In order to avoid conflicts of interest in the highest governance body, we conduct strict controls in accordance with the following procedures, including:

- All the new directors shall sign the Consent to act as a director, and to comply with Article 23 of the Company Act, to exercise the due care of a good administrator in conducting the business operation of the Company.
- All directors have to sign the Declaration stating that they are aware of the recusal of the exercise of voting rights under Article 206 of the Company Act and the legal effect of any violation.

Due to the directors' high ethical standards and self-discipline, and under the operation of the mechanism, no conflict of interest has occurred since the Board of Directors was established. Moreover, the Board has adopted a total of 50 articles of "Code of Corporate Governance for Chunghwa Telecom," while all departments are required to implement the Code of Conduct, and the Secretariat of the BoD also evaluates on a regular basis.

Protection of Shareholders' Interests

Chunghwa Telecom has made changes and revisions to several systems and measures based on a corporate governance mindset. These include e-voting, voting by poll and the disclosure of meeting resolutions made on the Company official website. These diverse voting channels allow shareholders to exercise their rights easily and this has made corporate governance more effectively.

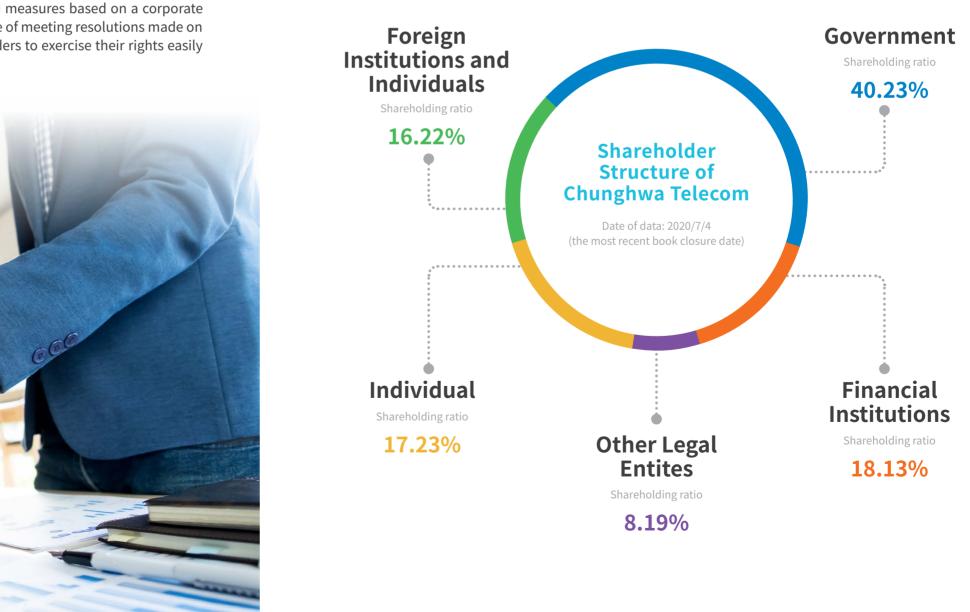
Performance Evaluation for the Board of Directors

To implement corporate governance and enhance the functions of the Board of Directors, performance objectives are set forth to improve the operation of the Board of Directors. In 2019, at the 2nd meeting of the 9th Board of Directors the Company adopted the Regulations Governing the Performance Evaluation of the Board of Directors of Chunghwa Telecom Co., Ltd. that details rigidly the cycle, period and scope of the performance evaluation of the Board of Directors as well as the evaluation procedures, evaluation indexes, scoring criteria, and other matters of compliance. The self-evaluation for the Directors on the Board as well as the self-evaluation on the performance of functional committees is conducted on an annual basis, while the performance evaluation by external, independent, professional institutions or external teams of experts and scholars is carried out once every 3 years.

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Regulations Governing the Performance Evaluation of the Board of Directors of Chunghwa Telecom 🔀 Results of the 2020 Performance Evaluation

Shareholder Structure of Chunghwa Telecom





21

Sustainability Risks nd Opportunities

Creating Value for Shareholders

Chunghwa Telecom business operations have been stable for years. Profitability and financial completeness have been uninterrupted. We pay our taxes honestly year after year, following the law, and make solid contributions to the country. Despite the existence of many challenges in the telecom operation environment, we maintain complete focus on our field and create value for the shareholders. Chunghwa Telecom generated consolidated revenues totaling NT\$207.6 billion in 2020.

Owing to the impact by replacement and competition from free messaging apps and VoIP technology, the revenue from voice service tumbled; ICT projects were completed as scheduled in line with the quality requirement, which benefited the revenues from tender projects. The overall revenue in 2020 was flat compared to that of 2019. Net income attributable to the parent company amounted to NT\$33.4 billion while EPS reached NT\$4.31 in 2020.



In 2020, Chunghwa Telecom income tax was the equivalent of an effective tax rate of 18.97%. The deviation from statutory 20% tax rate was mainly attributed to the provisions of Article 42 of Income Tax Act, in that net dividends or net earnings recognized from local invested businesses are exempt from income tax. In addition, the application can also be made for tax preference pursuant to Article 10 of the Statute for Industrial Innovation as well.

Economic Performances



Total number of employees in the **Company including** subsidiaries

32,318 persons

Paid-up capital	77,574
Revenues	207,609
Operating cost	137,029
Operating expenses	29,814
Employee salaries and benefits*	44,963
Dividends paid to shareholders	32,783
Income tax paid	7,852
Expenses of social investment/donations	1,077
Retained economic value*	131
	Unit: NT\$ Million

Climate Risk Management

Chunghwa Telecom builds a systematic and organized corporate governance structure to ensure that climate change related challenges are incorporated into the Company's annual strategy in real time and that relevant projects are implemented.

The Supervisory Responsibility of the Board of Directors

The chairperson and vice-chairperson of the CSR Committee are the Company's Chairman and President respectively, who both are also members of the Board of Directors of CHT. As the chairperson for Chunghwa Telecom s Risk Management Committee, the President can further manage the risks and opportunities related to climate change thanks to the overlapped responsibilities and familiarity thereof, so as to ensure that climate change-related issues are discussed and reviewed at the annual CSR Committee, while supervise and manage the routine operation via the existing internal control and risk management process and report to the Board of Directors.

Recognizing the importance of climate change issues, CHT started to promote the Directions Governing the Performance of Senior Managers in 2018, incorporating Corporate Social Responsibility and Climate Change flexibly in the indicators for performance evaluation of the Directors and senior managers that are hooked with the compensations respectively.

The Role of Management

The CSR committee conducts annual review of the Company s carbon management strategies, and appropriate budget implementation action plans, and sets related performance targets to ensure the incorporation of climate-related strategies in departments annual business operations. The related management mechanisms include:

- reduction.
- intensity reduction strategies and action plans.
- and the reduction of CO₂ emissions within the Company and the industry.

The Environmental Sustainability Task Force is established under the Chunghwa Telecom CSR Committee to evaluate climate-related risks and opportunities via the Company's risk management procedures, which is carried out in accordance with the long-term strategies set by the Board of Directors, the needs of international investors, rating agencies, and stakeholders, and to faithfully implement various solutions.



1. *Operating costs and expenses included

2. Retained economic value = revenues - operating costs - operating expenses - income tax paid

• Target Setting: Setting the targets for Chunghwa Telecom greenhouse gas management and carbon

Strategic Planning: Planning for energy efficiency enhancement projects and product/service of carbon

Solutions: Oversight and proposal of innovative solutions, including innovative ICT technologies & services

Sustainability Risks and Opportunities

06 Public Policy Participation

Highest Moral Standard

We have set up the Code of Ethics of Chunghwa Telecom Co., Ltd. Ethical Corporate Management Best Practice Principle, and Procedures for Ethical Management and Guidelines for Conduct. These are formulated as basic ethical guidelines to ensure that all employees engage in all activities with the highest standard. In addition to these codes being included in the training program for new hires, all employees are required to log into the web, review the material and take a test annually. All employees participated in the test in 2020 except for those who were not available for a legitimate reason at the time of the test. Meanwhile, to implement "Code of Conduct" in Chunghwa Telecom, we also passed the rigorous check procedures of SGS-Taiwan and obtained Certificate of Conformity for Code of Conduct (CoC) from the external third party.

nent of COC conformity Chunghwa Telecom Co., Ltd. 21-3, Sec. 1, Xinyi Rd., Zhongzheng Dist. com Co., Ltd. Code of Condu Do SGS Taiwan Ltd. Taipei Industrial Park, New Taipei City, Taikein t (02) 22593279 f (02122994453 www.ene com

Prevention of Corruption

Chunghwa Telecom has prepared the Employee Appraisal Guidelines and Employee Reward/Disciplinary Standards for the evaluation of performance. Rewards and sanctions are applied according to these rules whenever employees exhibit conduct deserving of them. Information such as a grievance hotline has been made available on the Chunghwa Telecom intranet/employee portal. A total of 43 internal complaint cases (disciplinary and leak investigations) were accepted in 2020, 43 of which are closed and 0 of which are still under investigation; 4 were associated with violation of the code of conduct. (Relevant cases were lower by 78% compared to those in the previous year.) All complaints were investigated and handled according to company internal policies and principles, and taught as case studies to strengthen employee esteem for the rules, discipline, corporate image, and shareholders' interests.

Chunghwa Telecom Anti-Corruption Policy

The Internal Audit System

The internal audit helps the Board and managers to check the effectiveness of the internal control systems and operations. It is located under the Board and conducts business audits in accordance with the regulations and policies. The annual audit plan is formulated based on the results of the risk assessment made at the end of every year. After the approval of the Board, the plan is sent to the competent authorities via the Internet information system for their reference.

Organization and functioning of Chunghwa Telecom's internal audit unit

Transparent Information Disclosure

The corporate governance of Chunghwa Telecom places great emphasis on integrity, accountability, and trustworthiness. We are committed to reducing information asymmetry between the management and external stakeholders, and utilize a variety of means such as the corporate website, a Market Observation Post System, Annual Reports, CSR Reports, press conferences and investor conferences to facilitate transparent communication with stakeholders. Furthermore, measures have been taken to ensure the timeliness, quality, balance, and credibility of the information disclosed. In the 6th Corporate Governance Evaluation, we were recognized as the top 5% for the fifth time as well as the top 10% in "The electronics industry with a market value of 10 billion TWD or more" of the TWSE- and TPEX-listed companies in the Evaluation!

Strengthen Business Management

To improve the quality of business marketing and consumers' trust, we have formulated the "Business Marketing Standards" to ensure the execution of business aligns with the requirements of the competent authority, while including compliance status into the evaluation of higher management's performance. Committed to compliance with relevant regulations, there was zero case fined by the Fair Trade Commission in 2020.

Supporting Global CSR Initiatives and Guidelines

We willingly comply with the principles of The UN Global Compact and respect and uphold all basic human rights recognized in the world. We refrain from any disregard or neglect of such rights. In terms of employment practice, we protect the right of workers to freedom of association, while recognizing and supporting their rights to also negotiate with the employer. We are dedicated to eliminating all forms of illegal labor and discrimination.

Chunghwa Telecom has publicly disclosed its human rights policy and emphasizes the importance of such issues. It has a system in place to address violations and will continue with human rights protection as part of corporate policy. The Company openly states a respect for human rights and reviews human rights issues on a yearly basis. The Company keeps detailed records of internal findings concerning human rights policy, including child labor, the rights of indigenous peoples, and supplier human rights assessment. Current practices are audited regularly and the findings are used for review and correction by relevant departments. Chunghwa Telecom Training Institute organizes human rights-related courses on a yearly basis and whenever there is a change in labor regulations and policies. 3 courses were held in 2020. The course hours were 63,609 in total with 21,203 person-times enrolled.

Chunghwa Telecom Human Rights Policy 📝







reduction."

Corporate

Mission

Innovation

Excellence

Sensation

Reliability

integration services.

CSR Management

03 Material Topics and Impact

Team

Culture

Trust

Responsibility

Sharing

Growth

opportunities.

4. Strengthen resource utilization and management

mechanism to improve the efficiency of resources.

5. Develop overseas ICT market to explore new

6. Sharpen the unique advantage of the subsidiaries

Infuse telecom expertise into corporate social responsibility issues to implement the Company's

to enhance the Company's competitiveness.

commitment to corporate citizenship.

We launched a CSR management system in 2006, and established the CSR Committee to stipulate sustainable policies. We also established six CSR working groups, using a top-down approach to achieve sustainable

action in environment, society and governance respectively, to implement "Always Ahead" brand inspirit. The Chunghwa Telecom sustainable development strategy utilizes the competence and unique resources of the

Company to implement sustainable action with the focus on such matters as "Create social harmony, Digital

inclusion, Green ICT products and services, Green brand management and Energy conservation and carbon

ChunghwaTelecom's CSR Vision

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Social

Contribution

Minimizing

the digital divide

Implement

environmental protection

Caring for the vulnerable

04 Sustainability Risks and Opportunities

.

Customer

Relations

Active caring

Always around

The CSR Committee

The "Chunghwa Telecom CSR Committee" was established for expanding sustainable benefits of our core competence and implementing CSR vision as a starting point to promote the sustainable development of the industry and society.

Item		
Representative	Chi-Mau Sheih, Chairman	
Mechanism	CSR Committee is responsible Board of Directors. It also peri to the Board. The Board is in cl	odically reports the
Execution	 The Public Affairs Departme The CSR Secretariat is reservational training, and m The six groups, branches ar The results of the quarterly 	ponsible for relative nanagement of follo nd affiliates are resp
Meeting Frequency	Every Half Year	
Report Approval	Reports are submitted to the C	Chairman for final ap
Execution Results in 2020	Policy, Organizational Struct Chunghwa Telecom was appr Directors to implement its CSF	oved and submitted
	Chairperson: Chair	man of the Boa
	0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • • • • • • • • • • • • • • • •
	Chunghwa Telecom Foundation CEO	Head C Executive
		0 0 0 0 0 0 0 0 0 0 0
• <u>.</u> •		

Corporate Social Responsibility Best-Practice Principles for Chunghwa Telecom Co., Ltd

Internalization and Communication of CSR

1. Facilitate positive business evolution through

2. Develop emerging service opportunities such

3. Continue to strengthen the applications of Internet

facilities and information technologies to support

partners to generate best strategies.

business transformation and growth.

as Cloud and IoT (Internet of Things); work with

mobile, broadband, value-added and ICT

To ensure that all employees understand the spirit of CSR, we have established diverse channels for communications and education of related topics.

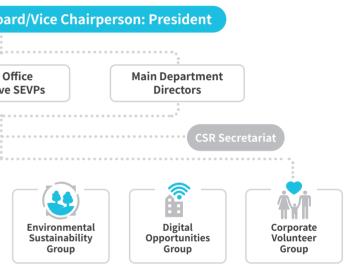
The initiative integrated with a performance evaluation that helps to translate the concept of sustainability into actions and is practiced in routine operations.

Channel	Item	Item	Channel	Item	Item
Communication within Senior Management	Senior management meeting	Material CSR issues are discussed in the senior management meeting annually, and the resolution indicates our improvement and direction.		Administrative sustainability performance	We set energy reduction targets and link the results with employees' performance bonuses.
Employee Forum	Chunghwa Telecom online forum	We have an intra-site for employees to share opinions with the Company and make suggestions. We will discuss the issues of concern with the employees and resolve them timely.	Annual Evaluation	Online test on CoC	All our employees are required to take the "Chunghwa Telecom Code of Business Conduct Test" each year.
	Environmental training	We provide at least 4 hours of training every year as well as educational ecological tours that instill a spirit of environmental sustainability.		Reporting mechanism	Once an employee is found to violate corporate regulations, it will affect his/her performance bonuses.
	CSR training	We provide CSR related education every year, and invite external consultants to run seminars and courses in accordance with international trends.		CSR Report workshop	Internal training on new ways of preparing reports is held from time to time.
Employee Training	New employee training	New employees undergo digital pre-service training that includes the personnel system, working guidelines, and labor relations. The Labor Standards Act is explained in detail with respect to labor-management coordination and the handling of disputes.	Others	Official website and social media	To coordinate with modern stakeholders' communication pattern, we established dedicated CSR multimedia webpages on the official website, YouTube channel and a Facebook fan page as ways of communicating with our
	e-Learning	We post relevant training courses and information on the e-Learning system that can be downloaded and studied freely by the employees.			stakeholders.

Description

ach plan and supervising the progress of the policies approved by the e relevant issues and the results of communicating with stakeholders erformance evaluation every year.

- s CSR Secretariat.
- ive policies and action planning. It is also in charge of budgeting, ow-ups and awards measures.
- ponsible for promotions and implementation of related projects.
- gement are incorporated into the materials for the Board.
- approval after the managements' (SEVP) review.
- ment Guidelines Governing the Corporate Social Responsibility of ed for adoption in the resolution of the 8th session of the 9th Board of



03 Material Topics and Impact

04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

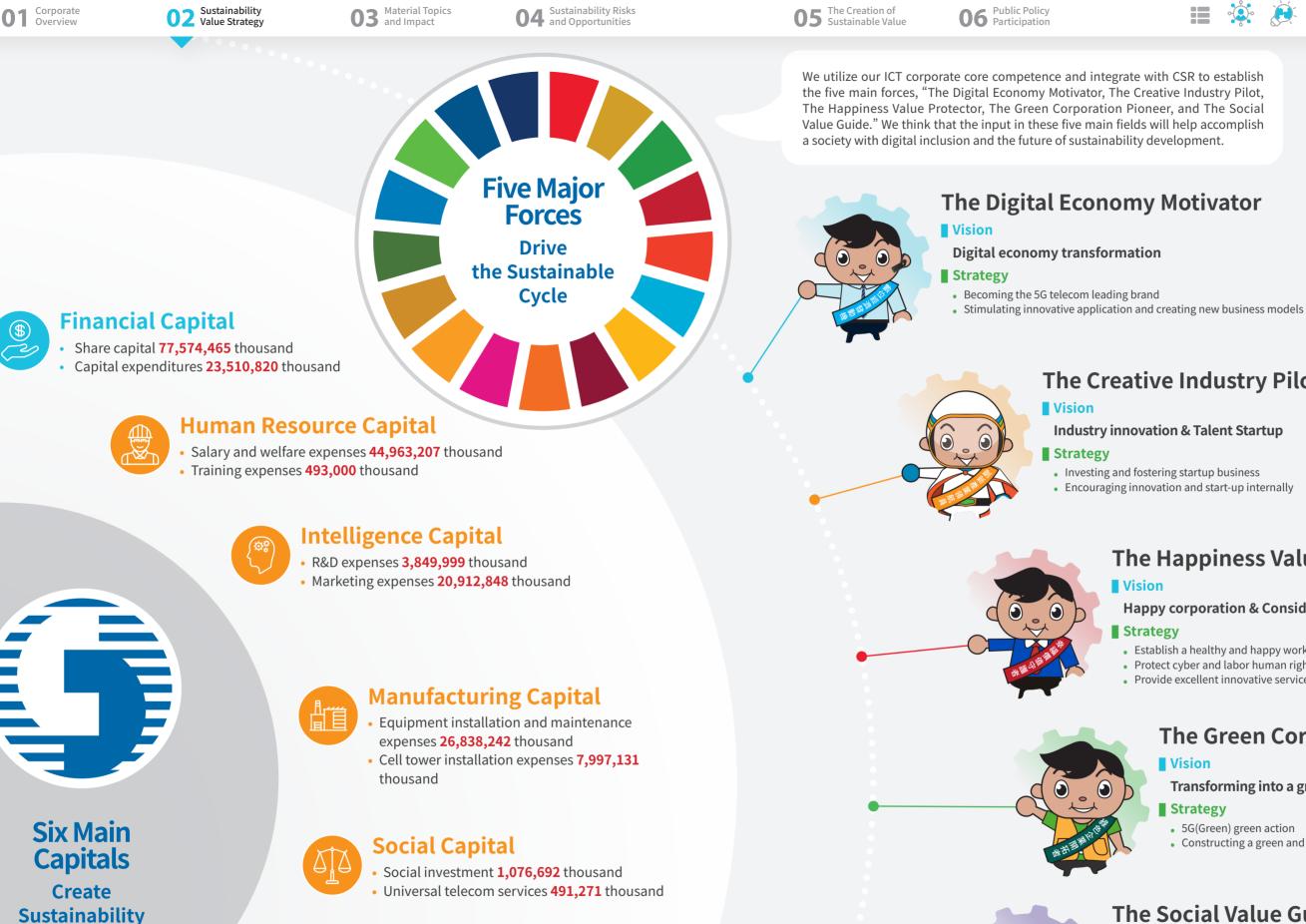
06 Public Policy Participation

Sustainability Value Strategy



Six Main Capitals -	
Create Sustainability Value	30
Five Major Forces -	
Drive the Sustainable Cycle	30
Creating Sustainable Value	32





Nature Capital

• Green procurement 904,204 thousand Environmental management expenses

329,126 thousand

Value







The Creative Industry Pilot

Industry innovation & Talent Startup

• Investing and fostering startup business • Encouraging innovation and start-up internally

The Happiness Value Protector

Vision

Happy corporation & Considerate services

Strategy

- Establish a healthy and happy workplace
- Protect cyber and labor human rights
- Provide excellent innovative services

The Green Corporation Pioneer

Vision

Transforming into a green corporation thoroughly

Strategy

- 5G(Green) green action
- Constructing a green and low-carbon supply chain

The Social Value Guide

Vision

Connect · Hope · Technology

Strategy

• 5I SDGs digital inclusion initiative • Corporate volunteering services

Sustainability Risks 04 and Opportunities

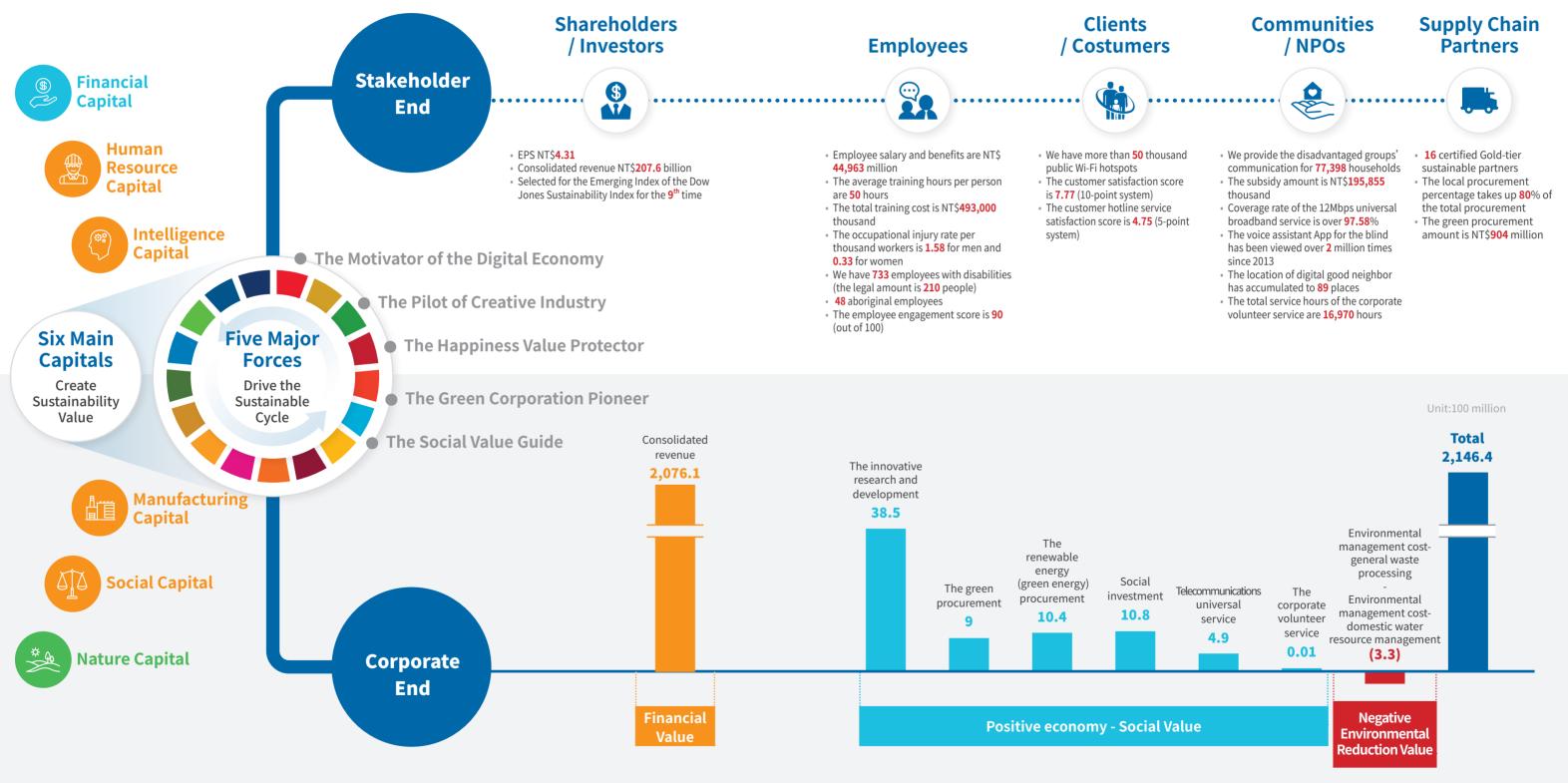
The Creation of Sustainable Value

in 2020 is NT\$214.64 billion.

06 Public Policy Participation

Creating Sustainable Value

Our CSR issues and actions have created sound economic, environmental and social value since 2006. Although we have made serious efforts to adapt quantized data when setting-up and managing CSR plans, targets and performance, we have come to realize the difficulty of quantizing environmental and social values. There is still lots of true value that cannot be realized with the currency presently used as evaluation indicators of CSR performance.



Source of true value calculation for corporate volunteer service

Source of true value calculation for Telecom universal service Research conclusion, Journal of China Institute of Technology Vol.40-2009.06

We have used a "True Value" method of calculation. Positive (+) and negative (-) currency values have been assigned in an assessment of our influence on society and environment. This gives a sound idea of the real environmental and social value (profit and cost) of our sustainability efforts in 2020. The economic, social and environmental currency value CHT created on operation has also been blended in. The true value CHT creates

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Material Topics

Sustainability Risks and Opportunities

The Creation of ustainable Valu 06 Public Policy Participation

Material Topics and Impacts

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We have a set of procedures in place to identify, engage, interact, and communicate with stakeholders through various channels based on the Stakeholder Engagement Standard (AA 1000SES:2015).

We intend to provide all stakeholders concerning the future of Chunghwa Telecom as well as the telecom industry with a more comprehensive understanding of how Chunghwa Telecom has exerted its industry influence on CSR topics. This purpose has improved the quality of our actions and disclosures.

2020 Material Topics and Impact Stakeholders Engagement

36 40



The annual material topics are determined through the following process: internal feedback, external questionnaires, topic identification by the CSR Secretariat, topic analysis by the six CSR task forces, ranking the topics, and finally, confirming the results.

2020 Material Topics and Impact

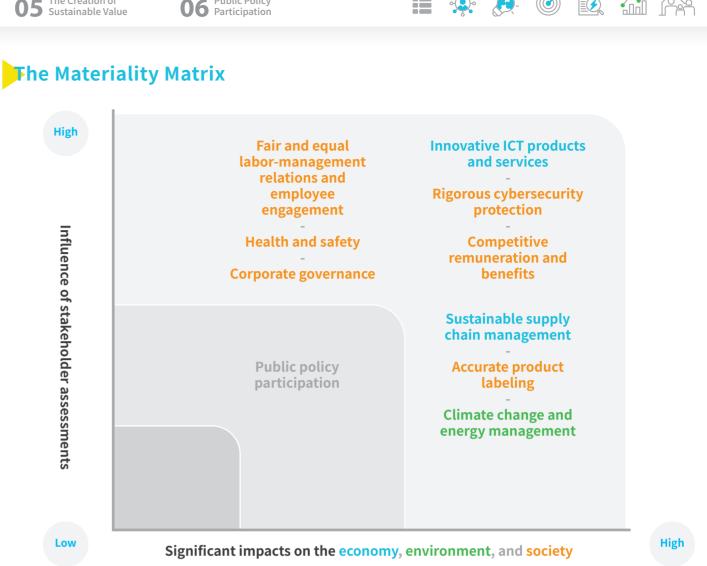
CHT is an integrated telecom service provider. Except for the use of electricity at business locations, facility rooms, and data centers, our other service processes and mechanisms have no major negative impact on the environment and society. However, with over 20 thousand employees, the capabilities of value chain procurement and supply and business locations all over Taiwan, we understand that our ICT services and products can bring positive transforming and business opportunities to the industry, economic development and people's life in Taiwan. Therefore, we seize opportunities and endeavor to decrease the potential risks from material CSR topics.

	W	e the organization			
Entity Material Topics	СНТ	Honghwa Subsidiary	CHT Security Subsidiary	Engineering Suppliers	Equipment Suppliers
Economic Performance	•				
Market Presence	•				
Energy	•				
Supplier Environmental Assessment					
Employment					
Occupational Health and Safety					
Supplier Social Assessment	•				
Marketing and Labelling	•				
Customer Privacy					
Socioeconomic Compliance			_		

1. • : direct impact ; • : indirect impact ; • : impact from business relations

2. Except for the impact within the CHT organization (including 2 subsidiaries), the influence of the external impact is determined by the "supplier type."

3. CHT also promotes relative management principles and actions. For detailed topic information, please refer to the corresponding chapter and page.



1. The materiality threshold: 2.5 and above for both the X-axis and the Y-axis (3-point scale) 2. Chunghwa Telecom also willingly discloses issues that are not identified as material issues in 2020, please refer to the topics with "*"in the index catalog (P.142-143).

Process for Determining Material Topics



The CSR Secretariat calls for the six CSR working groups to confirm the material topics determining process of the current year. We perform through feedback and external questionnaires.



The CSR Secretariat is responsible for identifying CSR topics while considering CHT's short-, mid-, and long-term achievement and referring to the material it collects including international guidelines, such as the GRI Standards, sustainability rating surveys, international benchmark business information and the news related to CHT in 2020.





The CSR working groups analyze topics and hold discussions based on internal consideration, industry status, industry chain practice, and advices from stakeholders. The topics are prioritized according to urgency and seriousness and the level of impact.





Members of the CSR working groups were invited to consider the relevance between the topics and the actual operation according to internal and external information. The 2020 topic identification results were confirmed and a materiality matrix was prepared for submission to the CSR Committee for approval.

 Public Policy Participation

2020 Material Topics Description

ESG Aspect	Material Topics	Meaning to CHT Topic Correspondin the GRI Standard		Management Principle (page number)	Pe i (pa
Enviornment	Climate change and energy management	Aiming to become a "green enterprise", we aspire to enhance our core competencies, identify relevant risks and opportunities, and steer the development of a low-carbon industry on the issues of energy and climate change.	Energy	P.104	
	Competitive remuneration and benefits	With remuneration above the statutory standards and the industry average, we stress on the well-being of our employees, encourage our employees with actions for them to focus on work without distraction, and share our business results.	Market Presence	P.71	
	Fair and equal labor- management relations and employee engagement	Through formal engagement, an agreement can be reached regarding the rights and responsibilities of employees to both protect them and the employer.	Employment	P.70-71,74	
	Health and safety	We incorporated ISO 45001 to ensure that each process is in compliance with the regulation.	Occupational Health and Safety	P.83	
Society	Accurate product labelling	We accurately communicate product and service information, and actively provide instructions and usage regulations to ensure that consumers are aware of the effects while overuse of products and services.	Marketing and Labelling	P.24	P
	Rigorous cybersecurity protection	We have continued to strengthen our processes and systems in response to external security threats and regulatory changes, and constantly refine information security systems and management strategies for consumer data protection.	Customer Privacy	P.55, 94-95	P
	Corporate governance	The upright operation is the core value CHT insists on. We make the employees strictly follow the laws and regulations through policies and propaganda.	Socioeconomic Compliance	P.24	
	Innovative ICT products and services	Due to impacts from the global industrial chains, Chunghwa Telecom more proactively strengthens its core businesses, introducing momentum to drive revenues via innovative ICT products and services while elevating shareholders' willingness to hold shares in the long run.	Economic Performance	P.22	
Governance	Sustainable supply chain management	Now that we cannot take our influence on our supply chain lightly, we are obliged to lead our partners on the supply chain to implement measures in conformity with the international ESG standards of management so as to guide the ICT industry towards sustainability.	Supplier Environmental Assessment - Supplier Social Assessment	P.115	1



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Stakerholders Engagement

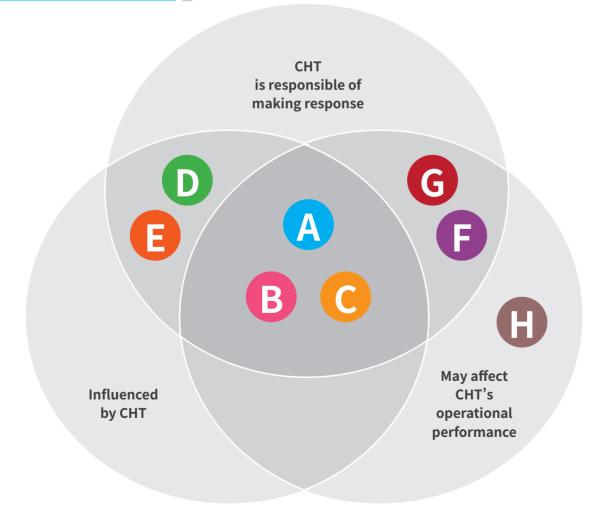
We have always thought that "Chunghwa Telecom can do more." As the leading brand in Taiwan telecom industry, CHT focuses on industry development and competition. In addition to good products, services and profits, we also give back to society. We also pay close attention to the voices of our internal and external stakeholders before making careful responses to the needs of society.

The identification of the stakeholders and their issues is a very important part of the CSR practice. In the initial meeting of CSR report preparation, we invite members from all departments to exchange the issues related to current key stakeholders and their concerns. Upon reaching mutual understanding, the result is incorporated into a table that is regarded as an essential reference for the disclosures in the report. In the process of promoting CSR activities and information disclosure, we consult the opinion of the internal and external stakeholders, important relevant mechanisms include:

- "Consultation meeting with external professionals" for CSR report
- Regular invitation of external professionals to the "CSR Conference" and relevant forums
- The "CSR Supplier Conference" is held every year
- Specialists designated for CSR and the CHT Foundation
- CHT was the first to create "CSR videos" and the CHT official YouTube CSR program to record the implementation of CSR action on a regular basis, as well as the collection of internal and external feedback for further improvement

CSR Video 🚺

CHT Stakeholder Engagement Guidelines: 1.<u>CHT Stakeholder Engagement Results</u> 2.CHT Stakeholder Engagement Guideline 🗹 3.CHT Stakeholder Communication Channel 🚺



Stakeholder	Meaning to Chunghwa Telecom	Focused Topics	Communication channel	Communication Frequency
CA Shareholders / Investors	As shareholders / investors are our stockholders, we must be accountable to them.	• Economic Performance	 Shareholders'meeting Shareholder hotline Earning results conference Investors'meeting 	• Annually • Real-time • Quarterly • Nonperiodic
B Employees	Employees are critical to the sustainable development and they are the driving force for sustainable growth.	 Market Presence Employment Occupational Health and Safety 	 E-mail Telephone call Online forum Labor employer meeting Negotiation meeting 	 Real-time Every 2 months Nonperiodic
Clients / Customers	Only when customers prefer the products and services of Chunghwa Telecom could we have value for existence.	 Marketing and Labelling Customer Privacy 	 Service hotline Customer service center 	• Real-time
D Suppliers	The large product and service chain of Chunghwa Telecom relies on the stable support of the suppliers.	 Supplier Environmental Assessment Supplier Social Assessment 	 E-mail Hotline CSR Supplier Conference Supplier Training Survey 	• Real-time • Annually
Communities / NPOs	We wish to reciprocate for society with our professional standing in telecom and create a better future.	 Energy Socioeconomic Compliance 	• E-mail • Hotline • Stakeholder forum	• Real-time • Nonperiodic
Media / Accreditation Institutes	We have learned and grown with the media and accreditation institutes through their mentorship in sustainable development.	 Socioeconomic Compliance 	• E-mail • Hotline • Press release • Press conference • Survey	• Real-time • Nonperiodic
G Competent Authorities	Our products, services and related marketing behaviors are subject to audits by the competent authority.	 Socioeconomic Compliance 	 Public hearing/press conference E-mail Official document Meeting Telephone call Visit 	• Real-time • Nonperiodic
Competitors	As the leading brand in the telecom industry in Taiwan, we strive to engage in fair competition in the industry for a healthy development of the industry.	 Economic Performance Market Presence 	 Official document Meeting Telephone call 	• Real-time • Nonperiodic





Public Policy **N6** Participation

2020 CSR Results of Critical Stakeholders Engagement



2020 Annual CSR Supplier Conference

To facilitate our supplier partners in understanding the climate risks and harness the future opportunities for development, the 2020 Annual CSR Supplier Conference was themed with "Form Alliance Extensively in Sustainability; Create Opportunities in Low Carbon". Chi-Ming Peng, CEO of WeatherRisk Explore, Inc., was invited specifically to decode weather for all the attending partners and share on the climate risks an enterprise ought to pay attention to. Also, Stephen Pao, Senior COO of SGS-Taiwan, was invited to share on how an enterprise can be green and be rich in the transition to a low carbon economy in order to seize the business opportunities in sustainability.

Chunghwa Telecom was the first telecom operator to kick off "sustainable supply chain" initiative in Taiwan. During the conference, Stephen Pao, Senior COO of SGS-Taiwan, presented the Certificate of Excellence in Sustainable Supply Chain to Shui-Yi Kuo, President of Chunghwa Telecom, on behalf of the Sustainable Alliance for Low-carbon Economy (SALCE) to recognize its ongoing commitment to the sustainable value chain of telecommunication.

To continue to exert its influence of sustainability, Chunghwa Telecom created the first "Supplier Sustainability Rating" system. President Kuo awarded the "Certificate of Sustainability Rating" to 6 outstanding suppliers, including Delta Electronics, Baycom Opto-Electronics Technology Co., Ltd., SYSAGE Technology Co., Ltd., Ablerex Electronics Co., Ltd., Interactive Digital Technologies Inc., and Basecom Telecommunication Co., Ltd., which passed the rigorous checks by SGS-Taiwan and received "Goldtier Certificates". "CSR Information Disclosure Award" was awarded to HwaCom Systems Inc., Arcadyan Technology Corporation, and Ta Ya Electric Wire & Cable Co., Ltd. "CDP Award" was presented to D-Link Corporation (Taiwan).

Moving forward, Chunghwa Telecom shall uphold the spirit of Form Alliance Extensively in Sustainability to join hands with its huge group of supplier partners to exercise corporate social responsibility, bridge to the international development, and create low-carbon opportunities together, and ultimately forge the sustainable future of ICT industry through "Customer-centered Value Creation".



Sustainable Alliance for Low-carbon Economy (SALCE) Video 🔽



Material Topics



The Creation of Sustainable Valu 06 Public Policy Participation

Sustainability **Risks and** Opportunities



Emerging Risks	48
Emerging Opportunities	48
Climate Change Risks and Opportunities	50
Cybersecurity Risks	55

Our "Risk Management Committee" adopts Enterprise Risk Management (ERM) software and the "Risk Analysis Matrix" as our assessment tools, governing every business decision made by our employees.

The development of the Artificial Intelligence of Things (AIoT) will popularize edge computing, IoT phone numbers, drones, AR, VR, and smart homes. These emerging industries will propel the development of hardware and operating systems.

1

self-built or for solar energy.

(ð)

Adopting a risk-based approach, CHT established the "Chunghwa **Telecom Cybersecurity and Privacy Protection Framework.**" Based on NIST's Cybersecurity Framework (CSF) and domestic and international standards and regulations, the framework includes five steps: identify, protect, detect, respond, and improve.



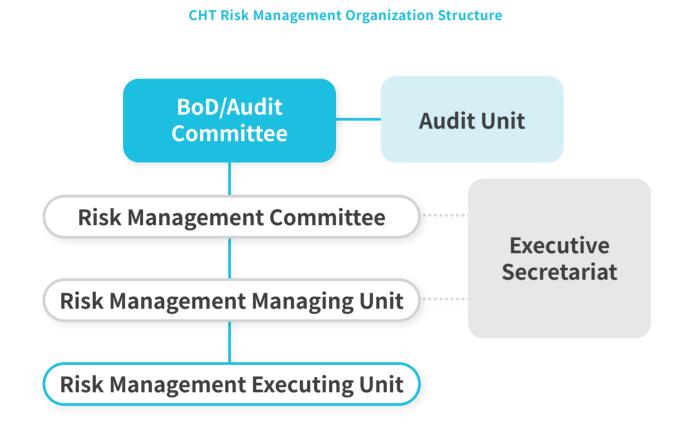
The first telecom operator in the world to pass "TCFD Conformity **Check**" by BSI and obtain certification of the highest level.

CHT is actively looking into the development of renewable energy,



06 Public Policy Participation

CHT places emphasis on the control of the corporate operation and sustainability risk. In 2016, the Company established a Risk Management Committee with the President as convener and high rank managers as members. The committee supervises risk management throughout the organization and is responsible for prioritizing identified risks, formulating response strategies to key risk issues, and reporting to the board of directors when deemed necessary. Through control of the mechanism at each level, potential risks and loss to the Company can be minimized.





	Aspects	
	Organizational Aspect	 "Risk Management Commit Committee of significant risk reports to the Board of Director
	Strategic Aspect	 The BoD established the risk n The Risk Management Reguter followed by all employees englished by all employees
	Management System	The Enterprise Risk Manager control of the risks from each
	Assessment Tool	 We use the Risk Analysis Matmaintenance, market and fina For the major operational performance of sensitivity ana Pursuant to Recommendation Disclosures (referred to as "To of operation, upstream and do opportunities throughout the terms.
	Audit Aspect	 The executive Secretariat helps The Auditor reviews the risks an
	Feedback and Improvement	 Risk status is followed up Committee generally. The Committee improves th feedback from individual units operational need.

Implementation outcomes in 2020

- 3 meeting were convened.
- Meeting in November.

Description
ittee"was established in 2016 to inform the Audit sk incident and related information. The Committee tors at least once a year.
management strategy and structure. ulations were established as a foundation and are ngaged in business operations.
ement (ERM) system was established for the regular n division and business.
atrix as our assessment tool to assess legal, network hancial operation risks, etc. I items and relative CSR issues, we enhance the halysis and the pressure test. ions of the Task Force on Climate-related Financial ICFD Framework" hereinafter), we analyzed the scope downstream, as well as the climate-related risks and he life cycles of assets in the short-, mid-, and long-
s promote the risk management activities in all company. and reports to the BoD.
o monthly and reported to the Risk Management the current risk management mechanism based on its to ensure the process is up to date and satisfies the

• "Operation of Risk Management" presented in the operation overview on the Board

Risk Factor

Material Topics and Impact



Public Policy 06 Participation

Emerging Risks

CHT continues with advanced technological research and development to take advantage of many business opportunities in this digital convergence era and reduce operational risk. We absorb, cultivate and make good use of excellent available talent to integrate Internet and marketing resources.

0	The decreas in the voice revenue
a [?}	The 5G business model is unclear
	Energy

Potential Influences (Obstacles)

Market competition and VoIP have caused a slight decrease in voice revenue.

· We continue to maintain our competitive edge in broadband Internet, even in the face of low-price competition from cable television

• The cost of our 4G investment has not been fully recovered and 5G belongs to the high-frequency spectrum. We predict that serious investment will need to be made to satisfy the requirements for new construction in the near future.

supply stability

The electricity supply is unstable and insufficient.

 IDCs and base stations are facilities and equipment of high energy consumption, whereas unstable power supply will result in disruption in operation that impacts the revenue.

Emerging Opportunities

The 5G technology will drive intelligent technological applications. AI will be everywhere around us in the future. Completely new types of services such as AIoT (AI and IoT) will become the core of fast convergence. The rise of new industries, edge computing, the volume of the IoT, drones, AR, VR and the intelligent family will push corporations in Taiwan to move their business emphasis. We predict that the global output value of AI hardware will exceed NT\$5 trillion. This will inevitably become an important force in pushing global economic growth. With the advent of Industry 4.0 and the rapid emergence of new online applications, cybersecurity specialists are issuing warnings regarding the looming threat of multimodal, multifaceted attacks. However, this also creates an opportunity for companies that offer an integrated cybersecurity service package. The government has classified information security as a matter of national security, including it as part of the national defense industry in the 5+2 New and Innovative Industries Policy.

Opportunity Factor	Potential Business Opportunity	
Development of 5G	• Forecasts show that 5G technology will result in an output of US\$ 134 billion to the companies in Taiwan in 2035.	
loT / Big Data	• International research institute Gartner predicts that the IoT product and service providers will create a marginal benefit of US\$6 trillion in 2025.	
Information Security Management	 Popularization of emerging technological applications (e.g. IoT, AI, and cloud services) as well as diversified attacks by hackers, and the increased frequency of supply chain attacks gradually blur the existing security perimeters and boost the challenge of protection against cybersecurity threat while create new opportunities in the cybersecurity area. The FSC promulgated "Financial Cyber Security Action Plan" in 2020 to drive the demands for cybersecurity protection, monitoring, and joint defense in the financial sector. The Executive Yuan announced the Cybersecurity Industry Development Action Plan. The gross output of the industry is expected to exceed NT\$ 78 billion dollars by 2025. Gartner predicts the investing amount the companies put into information security will rise to US\$ 146 billion in 2021 with a compound annual growth rate of 8.4% around the globe. 	
Climate Change Low Carbon Products and Services	 The World Economic Forum (WEF) foresaw the top five potential risks in the next decade to be environmental issues, especially the "extreme weather". Businesses around the globe are investing in low carbon emission infrastructure, including green energy, electric automobiles, and smart cities to reduce reliance on electricity. The WEF estimated that the values of green bonds traded worldwide could soon hit US\$2.36 trillion. 	

We cooperate closely with our strategic partners in the launch of new services and products that satisfy our customers. We have become The Digital Economy Motivator and The Creative Industry Pilot, and we create values for clients, shareholders, employees and society.

Countermeasures (Risk Avoidance and Opportunity Seizure)

- added applications. These include video service, information security, IoT, the cloud, mobile payment and other new business.
- transformed into the leading brand for information, communications and digital convergence.
- blockchains, AI and AR.
- NCC. We intend to provide IoT for both industrial and domestic applications.
- avoid interruption to our services in times of crisis.
- We plan to establish the Green Energy Office in charge of green procurement and renewable energy installment.
- consumption and reduce its reliance on the power utility.

CHT IoT Smart Platform

In the face of the trends of user-friendliness and rapid launch of diversified emerging technological applications, security perimeters are blurred as a result. Meanwhile, openness and softwareization increase the chance of exposure as well, which in turn pose a threat to security. Hence, apart from taking user experience and service functions into consideration, corporations are to employ the concept of Secured by Design in the beginning of development in order to effectively reduce potential information security risks. CHT spares no effort in the refinement of cybersecurity technology. In response to the government's cybersecurity automatization and industry innovation policies, in 2017, CHT founded Chunghwa Cybersecurity International, a subsidiary dedicated to the development of integrated cybersecurity solutions especially for emerging technologies. We hope that our endeavors will encourage other companies to follow suit, while effectively broadening opportunities in information security and driving the growth of revenues apart from the reinforcement of national cybersecurity defense capability.

Countermeasures (Risk Avoidance and Opportunity Seizure)

- · Launching "Taiwan 5G Industry Development Alliance CHT leading team" with the 5G office in DoIT, ITRI, and III.
- CHT Pilot Team extends laboratory testing to practical "5G Testing and Training Site." All industries in Taiwan can take advantage of this environment to develop innovative applications and grasp the opportunities.
- We are forming a national IoT team. Through allying with the international and Taiwanese companies, we create international competitiveness for the IoT industry in Taiwan.
- blockchain, AI, and AR.
- environment for 5G and IoT that is more secured and reliable.
- Developing inter-disciplinary financial security solutions, we strive to become a cybersecurity service provider for digital finance.
- With our current IT solutions, we offer complex solutions for clients using ICS/OT infrastructure connected to a hybrid network.
- As a managed security service provider (MSSP), we dedicated to the provision of a wide range of cybersecurity solutions. In addition to extending our market reach within the border, we are actively seeking business opportunities overseas.
- capabilities with domestic and overseas high-quality products to provide integrated solutions to large enterprise clients.
- Green Product and Service Program we provide businesses with energy-saving technology and services.
- plan to build smart cities with lower carbon emission.
- so that failures can be predicted and prevented.
- companies in Taiwan.

 In addition to enhancing current core business, we continue with new product research and development, as well as service and value-• We are concentrating on applications related to big data, information security, the cloud, IoT, 5G and the intelligent city. CHT is being

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• We have developed an IoT intelligent internet platform by combining five main services, which are information security, big data,

• We expect IoT applications to develop rapidly with the advent of 5G and we already have 3 million phone numbers authorized by the

• We are increasing the percentage of self-built renewable energy devices and have set up emergency power generating equipment to

• CHT phases out the old and introduces high energy efficient IDC equipment and low-carbon base stations in order to lower the energy

• We developed the IoT intelligent internet platform on our own, combining 5 main services, including information security, big data, the

• The cyber intelligence joint defense platform we developed and key emerging technologies like MEC security monitoring offer an

• Maintain our leading position in the industry by consolidating our advantages in internet services, distributions channels, and R&D

• By combining innovative green services, such as video conferencing, e-bills, and other cloud services, with our existing technology, we

• We are building a cloud service platform that enables clients to access real time data regarding their energy usage and equipment status

• We began investing in the photovoltaics and Green ICT industries in 2017, establishing the Smart Energy Lab and the Smart Architecture Lab. Also, we planned to establish the Green Energy Office in charge of green energy procurement and renewable energy installment to enter the field of renewable energy. As of 2020, we have the largest capacity, self-built or otherwise, for solar energy among all telecom



Climate Change Risks and Opportunities

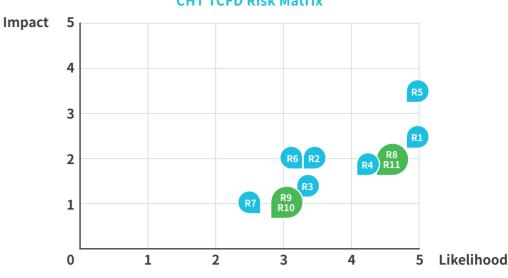
Chunghwa Telecom is the first telecom company in Taiwan to sign on as supporter of the Task Force on Climate-related Financial Disclosures (TCFD) initiative. In 2020, CHT has started to analyze climate-related risks and opportunities in accordance with the TCFD's recommended framework, and accordingly promote climate change mitigation and adaptation, in order to continuously reduce climate-related risks and create opportunities for the industry.

Chunghwa Telecom Disclosures to TCFD

Framework	Disclosures	Page
Governance	 The board's oversight of climate-related risks and opportunities 	P.46-47
Governance	 Management's role in assessing and managing climate-related risks and opportunities 	P.46-47
	 The climate-related risks and opportunities the company has identified over the short, medium, and long-term 	P.51
Strategy	 The impact of climate-related risks and opportunities on the Company's businesses, strategy, and financial planning 	P.51
	 The potential impact of the Company's businesses, strategy, and financial planning in different scenarios 	P.52-53
	 The Company's processes for identifying and assessing climate-related risks 	P.50
Risk Management	 The Company's processes for managing climate-related risks 	P.50
	 Processes for identifying, assessing, and managing climate-related risks and how they are integrated into the Company's s overall risk management 	P.46-47
	 The metrics used by the Company to assess climate-related risks and opportunities 	P.54
Metrics and Targets	 Scope 1, Scope 2, and Scope 3 greenhouse gas emissions 	P.54
	 The targets used by the organization to manage climate-related risks and their implementation 	P.111

Referring to the ISO 31000 risk management guidelines, the strategy group assess the hazard caused by each climate-related risk (risk hazard = likelihood \times impact), through Delphi method, which investigates the professional experience of senior executives in related departments, and focuses on the likelihood from five levels, which are "very unlikely", "unlikely", "probable", "likely" to "very likely", and the degree of impact is divided into five levels based on the proportion of CHT's paid-in capital, which are "extremely high", "very high", "high", "moderate", and "minor". As the result for identifying of climate-related risk, there are 6 transition risks and 5 physical risks.

After analyzing low, medium, and high risks, the Risk Management Committee will comprehensively assess the climate-related risk and other risks of the company and conduct necessary mitigation measures depending on the impact of risk. After the Risk Management Committee conducts an overall risk assessment based on the evaluation and analysis results, the Chief Auditor shall review the risk assessment results and the Risk Management Committee will report to the Board of Directors. The outcome of risk identification is shown in the following figure.



Risk Type	NO.	Risk Factor	Risk Issue	Time
	R1	Policy & Regulation Risk	Increase in operating costs due to the carbon emissions pricing	Mid- and Long-term
	R2	Market Risk	Higher electricity rate due to change in Taiwan's structure of electricity generation	Mid- and Long-term
	R3	Technical Risk	Increase in operating costs as replacing low energy-consuming equipment ahead of time to improve energy efficiency	Long-term
+01	R4	Technical Risk	Increase in operating costs as replacing fuel vehicles with electric ones to improve energy efficiency	Long-term
Transitional Risks	R5	Policy & Regulation Risk	Increase in operating costs due to the adoption of renewable energy forced by updated regulations	Short-, Mid- and Long- term
	R6	Reputational Risk	Losing the favor of investors and consumers because of lacking active sustainable actions	Short-, Mid- and Long- term
	R7	Long-term Risk	Operational assets are damaged owing to the rise of sea level covering the low-lying coastal areas	Mid- and Long-term
	R8	Short-/ Long-term Risk	Tense operating pressure and serious impact due to lack of water resource	Short-, Mid- and Long- term
	R9	Long-term Risk	Decrease of international service revenue due to worsening environment which deters tourists from visiting Taiwan	Long-term
Physical Risks	R10	Long-term Risk	Employees' leaving their jobs forced by rising temperature	Long-term
NI3K3	R11	Long-term Risk	Equipment inoperability and service interruption resulting from Increased frequency and severity of heavy rains and floods	Mid- and Long-term
The short-term is 20	20-2025; the r	nid-term is 2025-2040; and the lo	ng-term is 2040-2100.	

The short-term is 2020-2025; the mid-term is 2025-2040; and the long-term is 2040-2100.

In consideration of the transition risks, we took reference to International Energy Agency, IEA Sustainable Development Scenario, SDS and Intergovernmental Panel on Climate Change, IPCC RCP 2.6 Scenario to identify the possible operational impacts and risks in the scenarios set.









CHT TCFD Risk Matrix



Risk Related to Climate Change

	Climate scenarios	IEA SDS		Climate scenarios	RCP 2.6
	Main Risk	In response to regulatory trends, CHT uses renewable energy		Main Risk	Increased frequency and se equipment inoperability ar
Transitional Risks	Preventive solution	CHT uses IEA SDS as the climate scenario, and comply nation regulation, such as "Greenhouse Gas Reduction and Management Act" and "Renewable Energy Development Act". CHT plans to establish a green energy office, which will in charge of purchase renewable energy and installed capacity. In order to reduce emission, CHT import high-efficiency telecommunication facilities, low-carbon base stations and adopt low-carbon product equipment with government's green label. By the end of 2020, CHT's installed capacity of renewable energy has exceeded 2,783 kWp and our energy saving target is 1% year over year.	Physical Risks	solution	CHT conducts climate so "National Climate Change the Executive Yuan. In furth Information and Adaptatic and carries out the "Teleo change adaptation" to elev

Dow-carbon Transition Opportunities

Chunghwa Telecom adopts a two-pronged strategy which is dedicated to the pursuit of a low-carbon transition and taking advantage of future business opportunities both internally and externally.

- Internally: Establishment of the Company's "Environmental Sustainable Development Strategies and Targets" via organized, systematic methods, and effectively improving the effective management of carbon emissions and other environmental information through the use of our internally developed environmental information management system.
- Externally: Development of green products and services to develop renewable energy and provide businesses with energy-saving technologies and services.

As the "Smart City" leading brand by its core technologies and resources combined, Chunghwa Telecom has utilized its long-established experience in the development of information & communication systems and electrical environment monitoring systems to integrate and monitor the energy-consuming status for its clients. It has also adopted a cloud platform to provide clients with services such as energy-saving performance calculations, equipment operational status monitoring, and real-time notifications. These services help businesses lower carbon reduction threshold and reach their energy-saving and carbon reduction targets. In addition, Chunghwa Telecom offers innovative green products and services to accelerate the spread of Smart Living.

As for our development of renewable energy, Chunghwa Telecom has invested thousands of manpower to build the Zhangbin Solar Power Plant. This plant is the country's largest solar power plant, with a total capacity of 100 MW and an annual output of 130 million kWh. The power plant reduces annual CO₂e missions by 70,000 metric tons, creating revenues for the Company, and thus it is a mutually beneficial endeavor, benefitting both the environment and our operations.



Carbon Reduction Practices and Measures

In order to adapt to the potential changes in the environmental and climate related regulations & international accords, we have developed the following strategy:

Close Observation of Regulatory Changes Both Domestically and Abroad

We are actively cooperating with relevant stakeholders and have established the "Chunghwa Telecom Energy Saving Policy for a Sustainable Environment", which aims at "Green Enterprise", "Green Sustainability" and "Green Innovation" to actively expand environmental protection actions; at the same time, we promote facilities-room disaster mitigation and climate adaptation programs to strengthen disaster response measures and reduce climate risks. **Universal Services**

We have also installed solar panels on cell towers in remote mountainous areas to reduce energy consumption and carbon emission; these panels can also provide power to the cell towers in the case of a power outage to support emergency communications.

Establishment of a Sustainable, Low-Carbon Supply Chain In 2017, Chunghwa Telecom joined the CDP Supply Chain Program and became the first telecom company in Taiwan to participate in CDP's international platform. The official implementation of our carbon management measures with our 100 suppliers prompted them to disclose complete greenhouse gas information in a positive and proactive manner and commence planning of carbon management measures and strategies. In 2018, we incorporated the ISO 20400 Sustainable Procurement Standard to implement our sustainable development beliefs in procurement practices; green supply chain was constructed in 2019 through a sustainable perspective, supplier evaluation, and classification management, with 16 suppliers passing the external thirdparty auditing and obtaining the Gold-tier Certificates.

- **Development of Low-Carbon Products and Services** system that lowers the number of empty cabs on the road and reduces fuel consumption.
- Management of Service Centers Carbon Footprints communication" between the customers and ourselves.



scenarios analysis according to RCP 2.6 and the ge Adaptation Action Plan (2018-2022)" formulated by rther, CHT uses the Taiwan Climate Change Projection tion Knowledge Platform (TCCIP) as an analysis tool, ecommunication Adaptation Action Plan for climate evate our adaptive capacity to climate change.

In addition to mitigating the environmental impact caused by our operations, products, and services, we have reduced our carbon footprint via green innovative services and revolutionary technologies such as video conference, digital receipt services, and cloud products. We've also utilized the technological advantage in our primary businesses to help build smart cities; an example of such low-carbon solutions is a smart taxi dispatch

We carried out carbon footprint inventory for the service center in 2019, which not only is ISO 14067 and PAS 2060 verified, but attains the Environmental Protection Administration Carbon Footprint Label in Q2, 2020, making Chunghwa Telecom the first telecom company in Taiwan to acquire the label. This shall be beneficial for the "green



Greenhouse Gas Emissions Management

The total greenhouse gas emissions in 2020 were 790,320.9986t-CO₂e, consisting of six types of greenhouse gases, namely, CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆.

As the operations of Chunghwa Telecom primarily use electrical power, the greenhouse gas is mainly category 2 emissions (purchased electricity), accounting for a percentage of 97.19%. Category 1 emissions, which account for 2.81%, are mostly generated by workplace emission sources. Through implementation of various energy-saving carbon reduction measures, the total emissions in 2020 demonstrated a slight decrease as a result.

To facilitate the decrease of greenhouse gas emissions, Chunghwa Telecom has actively built solar photovoltaic systems in recent years. We also acquired 105 Taiwan Renewable Energy Certificates (T-REC), reducing carbon emissions by 53.45 t-CO₂e in 2020.

	2018	2019	2020
Direct emissions (Category 1)	30,469.8920	28,455.5921	22,192.9316
Indirect emissions (Category 2)	804,043.4163	795,295.4952	768,128.0670
Total emissions (Category 1 + Category 2)	834,513.3083	823,751.0873	790,320.9986
Emission intensity (t-CO ₂ e/NTD in million)	3.9	4.0	3.8
Percentage of category in revenue	100%	100%	100%

All the inventories and audits in 2018-2019 were conducted in line with the standard of ISO 14064-1:2006, while the GWP was derived from the Fourth Assessment Report of IPCC (2007). The standard was converted to ISO 14064-1:2018 as of 2021 with the scope changed into category. The GWP was derived from the Fifth Assessment Report of IPCC (2013). All data has been verified by SGS-Taiwan.

GHG Inventory and Verification

Chunghwa Telecom conducts regular annual inventories of the organization's greenhouse gas emissions and conforms with the ISO 14064-1:2018, investigating the greenhouse gas emissions of upstream and downstream activities. In 2020, Chunghwa Telecom conduct GHG inventories on category 3, 4, and 5. All data has been verified by SGS-Taiwan.

Operation Value Chain	Category	Item	Emissions (t-CO ₂ e)
	2	Employee Commuting	67,132.5036
	3	Business Travel	648.2457
		Product & Service Procurement	628.4054
	4	Waste Disposal and Transportation	3,619.4288
Upstream		Fuel- and Energy-related Activities	169,158.1056
Downstream	5	Leased Assets	3,678.6770
Total Emissions			244,865.3661



Cybersecurity Risks

The Creation of

Sustainable Value

Driven by the Industry 4.0 development and emerging network applied technologies (e.g. 5G application, softwareization, cloudification, IoT, and AI), cybersecurity threats have evolved into multi-faceted mixed attacks that increase challenges for enterprises in cybersecurity management. Chunghwa Telecom continues to develop risk protection countermeasures, bridges to international information security standards, and has established joint-defense mechanism with the government and international information security organizations, dedicated to the elevation of overall cybersecurity defense and response capabilities. Also, CHT proactively develops key cybersecurity technologies, besides facilitating developments of emerging businesses, and to offer its clients a secured and reliable digital environment.

Corresponding Strategies

With the cybersecurity vision of building the most valuable, safe, reliable, trustworthy telecom carrier in line with international standards as the point of departure, we implement "Cybersecurity Policy" and "Privacy Policy" from the start, and passes government inspection and third-party verification (ISO 27001, ISO 27011, BS 10012, CSA STAR Certification remain effective). Through the Plan-Do-Check-Act (PDCA) cycle, actions regarding cybersecurity and privacy protection management are continuously improved to ensure the goal of "zero tolerance" for major cybersecurity and personal information incidents is achieved.

Opportunities and Actions

In accordance with standards, laws, and regulations at home and abroad, "Chunghwa Telecom Cybersecurity and Privacy Protection Framework" was established to prevent possible risks, implement concrete, effective safety protection and personal data and privacy protection measures, safeguard customers' rights, and expedite the popularization of digital living services, including:

- security and enhance privacy protection.
- have any damage controlled at a very early stage.
- of system and data protection.

The performance in cybersecurity and privacy protection risk management has been tracked and managed on a monthly basis by "Risk Management Committee". Any material risk issues will be reported to the Audit Committee under the Board of Directors or directly to the Board of Directors. In light of the major cyber security incidents domestically over the years, apart from a preemptive deployment of defense measures such as the ban on Network Neighborhood, security monitoring for Active Directory (AD), and blocking of APT attack via email, we utilize the smart cybersecurity monitoring platform that not only is capable of detecting incidents of breach or risks in peacetime, but also promptly backtracks impacts of external threats on the basis of intelligence. There has been no impact to the corporate businesses nor fine incurred from cybersecurity issue or personal data breach as of 2020. In 2020, we bridged ourselves to the world, planning for purchasing "data protection insurance", which will take place in 2021.



• Implementing the appropriate risk management strategies, introducing security requirements into design phase (security by design), and practicing rigorous cybersecurity protection management. These are conducted while selecting and supervising suppliers in an appropriate manner, to ensure supply chain

Deploying multi-layer, in-depth security protection and detection mechanisms, as well as the Intelligent Security Operation Center(SOC), to uncover malicious behaviors and hunt down possible cyber threats at an early hacking stage. Meanwhile, through threats intelligence gathering and early warning mechanisms, the Company will acknowledge cybersecurity incidents timely and process emergency incident response to

Conducting Red Team Security Assessments and joint cybersecurity defense with national-level C-ISAC, including IOCs and threat intelligences exchanging, malicious website taking down. Moreover, the Company participates in national-level drills of Critical Infrastructure to ensure the effectiveness, safety and resilience Sustainability Risks and Opportunities

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64

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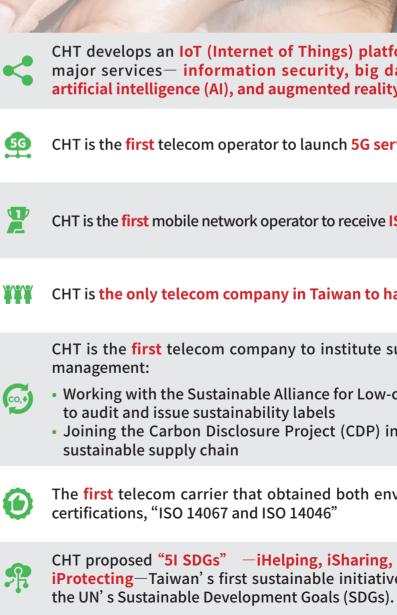
102

118

The Creation of Sustainable Valu 06 Public Policy Participation

The Creation of Sustainable Value

The Digital Economy Motivator
The Creative Industry Pilot
The Happiness Value Protector
The Green Corporation Pioneer
The Social Value Guide





CHT develops an IoT (Internet of Things) platform that integrates five major services- information security, big data, cloud computing, artificial intelligence (AI), and augmented reality (AR).

CHT is the first telecom operator to launch 5G services.

CHT is the first mobile network operator to receive ISO 45001 certification.

CHT is the only telecom company in Taiwan to have a labor union.

CHT is the **first** telecom company to institute sustainable supply chain

• Working with the Sustainable Alliance for Low-carbon Economy (SALCE) • Joining the Carbon Disclosure Project (CDP) in an effort to establish a

The **first** telecom carrier that obtained both environment management

CHT proposed "5I SDGs" -iHelping, iSharing, iLearning, iTechnology, **iProtecting**—Taiwan's first sustainable initiative that corresponds with



the necessary steps to ensure that each investment input has a proper sustainability result.

Capital	Impact on Value Creation	Resource Allocated to Su
(S) Financial	 To ensure eligibility for licensing (e.g., the 5G bands) Provides sufficient financial resources to support value creation Effective execution of commercial activities Generation and allocation of other forms of capital, such as distribution of shareholder equity, investments, and capital expenditure 	 Contribution to the government in the form of tax reve Supports the development of network infrastructure Improves the quality of telecom services
Human	 Telecom knowledge and skills acquired by employees Human capital represents one of our major operational costs 	 Introduction to compensation and incentive schemes t Encourage high value-adding services and innovations Talent training and development programs
(🔅 Intellectual	 Licensing, laboratory and R&D expenses, and the acquisition and development of industry technologies Investment to maintain the brand 	 Ongoing investment in R&D, construction, and serv satisfaction Investment in the R&D of new technologies and the set
Production	 Allocate financial capital to develop and maintain infrastructure facilities Operation of the Internet Data Center (IDC) and the installation of wireless facilities and development of software and applications 	 Ongoing new construction, maintenance, and operatio Procurement control and the acquisition of more cost/e Consolidation of idle space and the recycling and disponent
Social	 Regular contact with the relevant authorities to ensure the conformance and legitimacy of the operations and competition Positive feedback from consumers and the general public helps build credibility of the Chunghwa Telecom brand, and minimizes financial outlay 	 Engage with stakeholders actively to make them better Engage in social activities to exert influence through co
* Natural	 Natural capital such as infrastructure, raw materials, and energy sources are needed to allocate and take advantage of human capital The use of energy-saving processes and solutions can effectively reduce the consumption of natural capital 	 Purchase products that are environmental and friend raise energy efficiency Use carbon management to minimize energy consun greater extent Focus on the development of renewable energy source systems

Sustain Value Creation

venue

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adly to reduce consumption of natural resources and

umption and apply renewable energy solutions to a

irces, by proprietary and commissioned Photovoltaic

01 Corporate Overview

Sustainability 02 Value Strategy Material Topics and Impact

Sustainability Risks and Opportunities

Action

CHT was the first telecom operator

that launched 5G services.

We are the first telecom operator

that obtained dual certifications in

"the regulatory standards for the

testing of 5G NR" from the NCC.

We have developed an IoT

application platform using our

own innovative technology.

Five previously separate pursuits

05 The Creation of Sustainable Value

06 Public Policy Participation



Response

5G commercialized applications P.62-63



Short-term: The accumulation of R&D power and the launch of innovative products and services

Launch of "RISE ON, TOGETHER 2021" Transformation Plan

Over 2.3 million users of MOD services

ICT Products and Services

Chunghwa Telecom has been developing ICT services across borders and smart applications that integrate with networks in the cloud. Seasoned with rich industrial service experiences, it acquired the largest bandwidth in 5G bidding. With the licenses in the 3.5GHz and 28GHz bands for mobile broadband businesses, we were the first to launch the 5G services. With the high speed, low latency, and great connectivity of 5G, combined with the alliance at home and abroad for the industry's innovative technologies, CHT built an emerging ecological chain of 5G industries. To accelerate the startups in Taiwan's transition for internationalization, it became the one and only AWS Consulting Partner and Technology Partner for networks in Taiwan. Equipped with certificates in Amazon Web Services (AWS) DevOps Competency, AWS IoT Competency, and AWS Well-Architected, CHT successfully facilitates enterprises in building cloud environments for corporate operation with higher degrees of safety, efficiency, and flexibility. 5G gave rise to the applied IoT technologies as well as new forms of services like the emerging industries of AI, big data, drones, AR, VR, smart home, and smart long-term care, which shall drive the economic growth worldwide. Hence, we charge ahead with technological innovations, self-developing the IoT application platform that combines five service functions in information security, big data, cloud, AI, and VR in the hope of a tighter integration of the hardware advantages of domestic industries with the software energy of telecom operators to offer competitive solutions that embrace transitions. 5G Vertical Applications

Embrace the Dawn Year of 5G - Annual Convention of CHT Pilot Team

The Annual Convention of "Taiwan 5G Alliance - CHT Pilot Team" was attended by nearly 200 representatives from over 60 institutions in the industries. Chunghwa Telecom took 5G and AI as its foundation for the 5+2 Innovative Industries Plan, actively responding to the government's Six Core Strategic Industries. We preemptively deploy resources in the Information and Digital Industries, Cybersecurity Industries, Precision Health Industry, as well as Green and Renewable Energy Industry. Releasing "5G Services White Paper", CHT heralded 5G advancement from "technical verification" to "commercial services". It joined hands with the partners on CHT Pilot Team to demonstrate 30 corporate applications of 5G vertically across fields while collectively probe into the 5G network evolution and lead the 5G development in Taiwan forward.





Target

Mid-long term: Over **5** million 5G users

Over 10,000 5G base stations

Indicator

Ø

GRI 2,408 patents accumulated

CHT

NT\$3.85 billion of investment in R&D

CHT

More than 1,200 **R&D** employees



IoT Smart Platform Competition

Sustainability Risks and Opportunities

Website 🔼

05 The Creation of Sustainable Value

Transportation

Autonomous Bus

Working with Kingwaytek Technology Co., Ltd. and Tamshui Bus Company, Ltd., CHT complied with "Unmanned Vehicles Technology Innovative Experimentation Act" and obtained the license plate for the self-driving bus trial. Conducting the passenger transport service over the route between Danhai LRT Kanding Station and Miranew Square Stop, it became the first "autonomous bus" with passengers on the road in Taiwan. It is also the first self-driving shuttle service in Taiwan that integrates Cellular Vehicle-to-Everything (C-V2X), self-driving technology, roadside sensors, and the cloud monitoring platform. In the future, leveraging the features of high speed, low latency, and great connectivity of 5G, we will continue to integrate relevant technologies like V2X to demonstrate our ability in integration. With the smart transportation service, we aspire to introduce a smarter and more convenient living for our citizens and lead the way forward to usher in more business opportunities for the 5G V2X industry.



Agricultural IoT and AI-powered Farming

Website 🔼

To facilitate precision agriculture, CHT worked with the large field that grew Iceberg lettuce in Yunlin on the "Agricultural IoT and AI-powered Farming" solution. We introduced smart management as well as installed micro weather station and 3-in-1 soil sensing equipment so as to learn about the environmental information in the field like soil and climate in a timely and accurate fashion. Meanwhile, the farming efficiency was increased thanks to the intelligence gathered via IoT and big data. Today, it has been a supplier to a renowned domestic chained restaurant and successfully exported produce overseas. This solution was recognized by the 2020 Smart City Innovative Applications Awards.

5G Consumer Applications

Education

Science Summer Camp

Website 🔼 Working with Institute for Information Industry, we offered

To promote the IoT education, we offer prizes of NT\$1.55 million and organize "IoT Smart Platform Competition" in hopes of drawing students and creators in the society to utilize the IoT Platform to tap into diversified creativity to align their productions better with the 5G IoT industrial application. With that, we endeavor to introduce innovative applied services in different areas of 5G.

new co-branded programs with dual resources. In line with the principle of "adaptative talent development" of the Curriculum Guideline and the premise of "self-regulated learning" of the Ministry of Education, we offered five themed science camp activities that balanced between new technology learning and hands-on work tailored to students in senior high schools (vocational schools) and those to become the freshmen in universities: maker, AI, programming, network communication (e.g. 5G, smart living and smart manufacturing programs), and digital omnimedia.



Entertainment

iListen

Website 🔼

Working with Smartfun Digital Co., Ltd. in a different field, we launched "iListen" service that offers over 30,000 digital audio contents across sectors and industries as the first telecom operator that invested in the integrated audio content market to foster new experiences for 5G digital reading and listening novel to your "ears". iListen is divided into Audio Book, Audio Program, and Audio News categories, in which Audio Program (Podcast) accounts for the majority. Anyone with carriers like cellphone or tablet can access and listen to an array of audio.

Superb Experience of 5G across Space

Website 🔼

We set up the state-of-the-art highly efficient base stations and expanded our network capacity on the site of the New Year's Eve Party in Taoyuan. Meanwhile, a huge army of engineers were mobilized to provide the best 5G communication quality for the New Year's Eve. Also, with the high speed of 5G and the MEC technology, we presented the performances on the primary stage via the "12K immersive panoramic video" in sync on the secondary immersive stage for 5G premiere.



AR Smart Glasses and Telemedicine

Website 🔼

Together with the Yuan Rung Medical System, Jorjin Technologies Inc., and Pingen Co., Ltd., we promoted "smart medical application service". We cooperated on telemedicine through AR smart glasses and broadband network to avoid the risk of cross infection, so that physically-challenged patients could also access quality medical care, the medical quality improved and the health of our citizens safeguarded.

Medicine

5G AIoT Smart Medical Application Service Website 🔼

We signed the Letters of Intent with National Chiao Tung University and National Yang-Ming University. Combining the advantages of the three parties, we jointly developed 5G AIoT advanced smart medical service and build the future smart hospitals that puts patient at the center for a complete medical care.

Website 🔽

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services like the anti-lost positioning service, emergency rescue, smart images, friendly and safe transportation, and IoT-enabled autonomous health management services for the elderly, we unveiled the first demo anti-lost community in Taiwan, which was recognized with the "2020 Smart City

Website

Nation, we collaborated with the Yunlin County Government to introduce various smart city applications, offering services of smart agriculture, smart flood prevention, telemedicine, smart emergency service, smart tourism, and smart security to collectively build Yunlin as the most brilliant 5G smart city in Taiwan



Sustainability Risks and Opportunities



Innovative **R&D** Results in 2020

Cloud Computing & IoT Association in Taiwan

Enterprise Healthcare System (EHS) the Outstanding **Application Award** of the Cloud Computing & IoT Innovation Awards

Intelligent **Transportation Society of Taiwan**

Smart self-driving bus monitoring and management system **ITS Application Award**

Thesis An Architecture for Traffic Flow Prediction using Cellular-Based Vehicle Probe **ITS Paper Award Winner**

Taiwan Contact Center Development Association (TCCDA)

IVR voice navigation and verification won the TCCDA-CSEA Best Intelligent Customer Service System Application Award for Outstanding **Customer Service**

Industrial Technology Research Institute (ITRI)

"Intelligent Photovoltaic Monitoring System" won the masterpiece in solar photovoltaic innovative application product design contest, making it the only cloud management system application service that won the honor



CHT's innovative strategies to cope with this situation include enhancing the current core business, active research into new product development, and generate more revenue from new and innovative ICT products and services. Chunghwa Telecom Laboratories (CHT-TL) is a designated R&D institute that has been established for research into new innovative services, core technology, and visionary applications. We strive to explore convenient and useful services from the consumers' perspective. Solutions are formulated through intricate coordination; the purpose is to find ways to "simplify tasks for consumers, and let CHT deal with the complexity."

Overview of Chunghwa Telecom Laboratories in 2020

- 1,293 employees (nearly 6% of total) with 94% being R&D personnel
- The funding for R&D totaled NT\$3.85 billion, which was 1.85% of the consolidated operating revenue.
- overseas).

The Telecom Laboratories Human Resources Structure





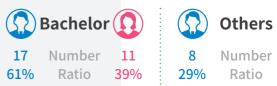




Taiwan External trade development council (TAITRA)

Recognition with 3 gold, **5** silver, and **1** bronze awards from Taiwan Innotech Expo

 The laboratories secured 184 new product/ technical patents (152 domestic and 32 overseas) to a total of 2,408 (2,170 domestic and 238 overseas). 1,032 of the patents are currently in force (904 domestic and 128





Material Topics



Innovation, Creativity, Startup

We constantly encourage creativity and innovation. To convert creativity to tangible output, drive industrial development, and boost the future revenues of the Company, we adopted strategies of concurrent advancement internally and externally. In response to the digital convergence and the cultural and creative trend, CHT presents Digital Innovation and Application Series themed with digital living. We uncover top-notch innovative talents through the competitions while allow creativity to be realized so as to elevate Taiwan's soft power in innovation.

IoT Smart Platform Competition

The "IoT Smart Platform Competition" in 2020 established "NB-IoT Special Award" specifically in light of the 5G commercialization in order to encourage the research, development, and application in NB-IoT. Prizes totaled NT\$1.55 million were offered to fully encourage and discover the top-notch innovative talents in IoT.

Nearly 200 teams signed up for the competition with participants up to a thousand. Through the research, development, and application of IoT, we shall better meet the needs of smart city all around. The juries took creativity and completeness of works as well as their IoT commercialization value as the key criteria. Through the competition, we expected to inspire students, industries, and startups to chip in and demonstrate creativities in variety. Through the fusion of all sorts of technologies, we build seamless IoT services and aspire to unveil innovative services and applications in the 5G and IoT business areas.





Social Innovation

CHT PHR - Building a Digital Healthy Living

Chunghwa Telecom is committed to the innovative 5G application as "Leader in Smart Living" that harnesses the technology power in smart medicine to improve the efficiency in diagnosis and treatment for users. A user may open their access on CHT Personal Health Record (PHR) to synchronize their physiological data for the medical team to track, so that the medical institution may retrieve the latest physiological data, provide accurate health information in line with the user's condition, and determine if there is a need for another hospital visit as well as help the user in clinic registration to save patient's effort in traveling and waiting, which further benefits the doctors on the hospital to analyze and diagnose patient's condition. In addition, the users may review their medical records and health conditions via My Health Bank, which elevates the care quality.

The First Integrated Smart Prison in Taiwan

inmates. The five smart management highlights are as follows:

- 1. Two-factor Identification System: Face recognition system is combined with the QR Code to realize a rapid two-factor authentication while prevent impersonation.
- 2. Installation of Electronically monitored Smart Elevators and Passages: Managing through the dedicated gateway control to monitor the spaces electronically and reduce the manpower dispatched repeatedly on site.
- 3. License plate recognition and positioning: Identification and authorization of vehicles entering the detention center are conducted via AI image recognition and sensing technology to enhance the security.
- 4. Shopping: The inmates may purchase items and inquire the balance of their deposited amount via the kiosks in the detention center, which reduced the burden of the staff.
- 5. Medical Care: Health bracelets are issued for inmate health management, while medical staff can access and monitor the physiological information of inmates to reduce the likelihood of anomalies.

Environmental Innovation

Air Quality Sensing IoT

In light of the rising demands for air quality monitoring from the government agencies in these years, we utilized smart monitoring IoT technology and assisted the Changhua County Government to install air quality sensors, so as to monitor temperature, humidity, fine particulate matter (PM2.5), etc. The sensing data is transmitted to the air quality analysis platform in real time. With the temporal changes and relative positions of the sensors, it analyzes "the relative tendency of data" and "the temporal and spatial attributes in data" as the basis for inspection.

We enhanced the smart prison management via ICT integration technology, assisting the Chiayi Detention Center to effectively reduce the manpower burden and improve the management efficiency and safety for the corrective agency, which also improved the human rights and autonomous management of the

04 Sustainability Risks and Opportunities

The MOD Microfilm Contest

An ultra-high amount of prize up to a million NTD was offered this year with the addition of "CHT VR Collaboration Award". With the prizes as well as the provision of VR screening equipment and technical support, we aimed to fuel the creative energy of VR short film production domestically and take the microfilm works to a new level. With CHT HamiVideo, smart glasses, and the high speed of 5G combined, it ushered in a whole new experience with film watching.

There were 300 creative teams registered in 2020 with a variety of themes and rich collection of genres. In the end, 37 microfilms and 5 proposals of original VR microfilm were shortlisted. In light of the Dawn of the 5G Era and to put the innovative spirit of "Lead the Future and Showcase the Creativity" in action, we further organized "VR Film Festival" to screen four masterpieces.

The finalist film festival this year not only put the works on screen, but also presented After-Screening Talks to share the creators' thoughts and emotions with the audience. All the shortlisted entries of the microfilm group will be available on the MOD platform to offer these brilliant works more opportunities to shine.



FunPark Creative Storytelling Digital Picture Book Contest

The one and only "FunPark Creative Storytelling Digital Picture Book Contest" catering to children in Taiwan have been organized for eight years in a row. Aside from encouraging children to dare to imagine, create, and perform, it also expected to allow children to pave their way of digital learning and living early, helping children to equip themselves with digital competencies. There were over 1,600 entries submitted this year. Under the guidance of the Ministry of Justice, the Best Performance Award was added to the Anti-drug Group. Best creative children ambassador team would be recruited from the Contest, which was designed to motivate these young creative teams while spicing up the performances in the Final. In addition, we worked with the largest publisher in the U.S., Scholastic, and introduced "English Reading Group" to encourage children dare to speak English and cultivate their language proficiency so as to bridge themselves to the world.





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01 Corporate Overview

Sustainability 02 Value Strategy Material Topics and Impact

Sustainability Risks 04 and Opportunities

Action

The Company has specialized

training facilities - Telecom Training

Institute and Occupational Safety

and Health Department in place

Transparent and diverse means of

communications and grievances

The external third-party Certificate

of Conformity for Code of Conduct

(CoC) obtained

Established the system of self-

inspection, audit, and supervision

for service quality

Launch the personal information

management and auditor

05 The Creation of Sustainable Value

Response

The only Taiwanese telecom

carrier with an established union

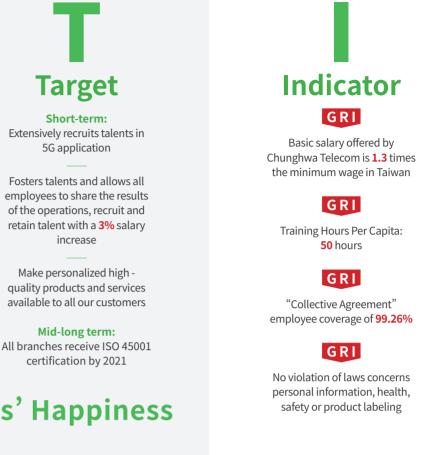
Electromagnetic wave inspection

service

The first telecom carrier in Taiwan

to receive ISO 45001 certificate

06 Public Policy Participation



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Ensuring Employees' Happiness

Protecting the Rights of Workers

Chunghwa Telecom treats employees as their most important business partners. To ensure the best protection for the work rights of the employees, Chunghwa Telecom signs an "Employment Contract" with each employee and undertakes to notify them of any changes in terms of employment in compliance with the Labor Standards Act. Furthermore, CHT uses several different channels, including seminars and labor-management meetings, to maintain harmony and a mutually beneficial working relationship with employees.

A Competitive Compensation System

We have a "Compensation Committee" in place to ensure that compensation for the best talent is competitive. In addition, the Company has a transparent system for sharing business performance with its employees. Compensation for executive management has been standardized and details are disclosed publicly in the annual reports. The Company offers equal compensation for all entry-level employees of the same grade. Those who possess relevant skills and work experience may have compensation evaluated based on educational background, career experience, expertise, and professional qualifications. Under no circumstances will compensation ever be determined by gender or racial differences.

Unit: NT\$ 2020 Base Salary in Taiwan 23,800 CHT Base Salary 31,730

Average Salary in the Telecom Industry 67,976 CHT Average Salary 73,000

1. Average Salary in the Telecom Industry: According to the "Monthly Wage and Productivity Report, December 2020" published by the Directorate General of Budget, Accounting, and Statistics.

2. Base Salary of CHT: The average salary level in December 2020.



Enhance talent recruitment with "5G and transition" as the dual-track strategy

Ensure employees' work rights and freedom of association and implement communication channels to facilitate the exchange of opinions between the employer and employees

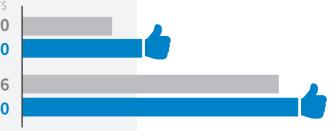
Provide consumers with virtually and physically diverse, multilateral and highquality service channels



Ensures all employees sign a formal "Employment Agreement" duly observe the Labor Standards Act and other applicable laws, and calls for labor-management meetings at regular intervals

Accreditation of the SGS Qualicert service certification in service center







Benefits Expense of Full-time Non-supervisory Employees

ltem	Unit	2019	2020	YoY
Full-time Employees	Person	21,473	20,957	-2.40%
Average Salary	NTD Thousand	1,483	1,489	+0.40%
Median Salary	NTD Thousand	1,466	1,467	+0.07%

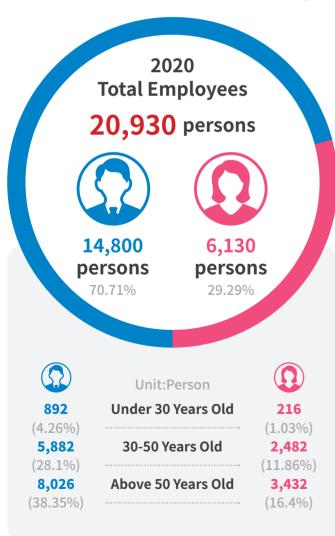
1. The number of full-time employees is calculated on a "yearly average" basis. The total number of employees of the year (including the ones on leave without pay, separated, and retired) is subtracted by the number of managers before calculating the yearly average number of employees of the year based on the months of pay to the employees in service in a year, instead of based on the number of employees at the end of a year.

2. The definition of non-supervisory employees, please refer to P.32-35 of the Annual Report.

Human Resources Structure at CHT

In 2020, CHT has more than 20 thousand employees with an average age of more than 50 years old. There will be more than 5 thousand employees retiring over the next 5 years, and 50% of the employees will be eligible for retirement over the next 10 years. Current senior management is included in this retirement tide. To cope with this problem, CHT is actively cultivating new talents to ensure that knowledge is passed down, filling the manpower gap of new generations.

Chunghwa Telecom understands that the industry competition we are facing now is not only the telecommunications industry, but the changing information and communication industry chain. In the future, the recruitment direction of talents will be based on the large-scale public recruitment method which focuses on various professional fields. We will adopt an external network approach to transform Chunghwa Telecom's talents into an important kinetic energy for the continuous improvement of the next stage.



	\bigcirc	\bigcirc	909 perso 4.31% of tota	
I	725 persons 79.76%	184 persons 20.24%		of s 29 persons new employees
	30-5	30 Years Old 50 Years Old 50 Years Old	415 persons 494 persons 0 persons	54.35%



1. Turnover rate (resigned+retired) =Number of turnover employees/ [(Number of people at the beginning + number of people at the end)/2] 2. In 2020, there are 114 employees resigned (0.54% of all employees), and

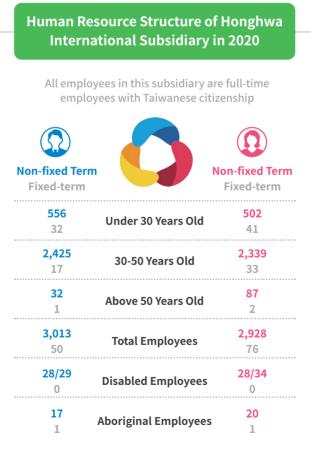
1,525 employees retired (7.23% of all employees)

3 The turnover rate in 2017-2019 are 4.2%, 3.97%, 5.76%





1. All employees are Taiwanese and mainly full-time. Due to the needs of industrial management, we hire 1 contract-based employee. 2. For all grades, basic salary is defined as the fixed salary (monthly). 3 For all grades, average salary includes fixed salaries and variable portions (including the monthly salary, year-end bonus, bonus, etc.) 4. Levels of all grades: Basic 0-10; Executive 11-16; Intermediate Executive 17; Senior Executive 18-22.



The table includes non-fixed term contract personnel/non-fixed term part-time personnel included.





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Material Topics

Sustainability Risks nd Opportunities

06 Participatio



Open Communication and Grievance Channels

We have open communication channels in place to ensure that employees needs or suggestions are heard. Any violation or misconduct in the workplace can be reported to the relevant department using the channels provided. There were 43 complaints in 2020, including behavior as disrespect of the CHT system, principles, administrative management, and violation of the employee code of conduct or other misconduct. There were no human rights related cases in 2020.

We hold regular labor-management meetings to maintain contact between employees and the employer. There are 9 representatives from each side, employer and employees. The chair is held by each side in turn. The Chairman and President of Chunghwa Telecom engage regularly with the Chairman of the Union, Directors, and Supervisors in meetings, in person and by telephone. The Chairman of the Chunghwa Telecom Workers Union is entitled to participate in disciplinary review meetings, performance appraisals, and business report meetings to ensure that workers are kept up to date on Company news. In 2020, the Company held 6 nationwide labor-management meetings during which employees and the employer were able to reach consensus on many issues. Meetings for the discussion of particular matters can be convened, or if any change to work conditions is necessary.

The Employee Grievance Channels

- CHT intranet portal: http://eip.cht.com.tw
- Accountable department:
- Human Resource Division, Head Office (Room 503, No. 21-3, Section 1, Xinyi Road, Taipei City 100)
- Hotline: 0800-080998
- Fax: (02) 2357-0007
- Email: chthr@cht.com.tw



Gender Equality and Diversity

Chunghwa Telecom is committed to provision of a working environment with dignity and safety for employees. We implement employment diversity, equal pay, and impartiality in promotion opportunities, protecting employees from discrimination, harassment, or unfair treatment due to race, gender, religious belief, age, political inclination, or any condition thereof protected by the pertaining laws and regulations.

Chunghwa Telecom places great value on human rights and gender equality. In 2020, female staff accounted for 29.29% of the total, and 27.84% of the managers were women. To conform to the essence of the Gender Equality in the Employment Act, the Company has outlined its sexual harassment prevention policy and established a "Complain Investigation Committee" that specializes in the handling of employee complaints about work-related discrimination and improper behavior. The investigation committee has 5 members, 3 of whom are female. Our effective control has resulted in no incident of discrimination being reported in 2020.

Chunghwa Telecom has done more than comply with the quota required by Article 38 of the Persons with Disabilities Rights Protection Act and have hired more than the required number. In 2020, the number of persons with disabilities hired was 3.49 times of the statutory quota. (quota: 210; actual hire: 733. Where a department or institution employs a seriously disabled person in accordance with the act, the disabled person shall be calculated as two.) We had 48 aboriginal employees on board in 2020. We fully respect their cultures and no violation of work or human rights was reported during the year.

The Only Telecom Carrier in Taiwan with a Union

Chunghwa Telecom is the only telecom carrier in Taiwan with a union established. We have signed a collective bargaining agreement with them which covers an extensive range of issues from redundancy, reward, discipline, promotion to health and safety. This initiative not only complies with local laws and international human rights conventions, but is also a show of our commitment to the protection of employee interests. In addition to the union established by Chunghwa Telecom, employees have also assembled 15 other unions under the organization. Until February 2021, 99.26% of employees were union members. A labor director is appointed to sit on the Board of Directors for a worker's representative, through whom workers can more freely express opinions.

Chunghwa Telecom complies with Article 16 of the group agreement about transfers. If there is a need to transfer a union member due to changes in the organization such as establishment, alteration, merger, and/or closure of a department, the Company will do so only if necessary and will respect the wishes of the member. In addition, all transfers must comply with the "Five Principles of the Labor Standards Act.







Sustainability Risks nd Opportunities

Focusing on Employee Training and Development

Our fundamental business focus is "core competitiveness, professionalism, efficiency, and touched service", and we seek to develop innovative talent through a combination of internal and external training.

We have a comprehensive training system to assist employee development in all dimensions. The system starts with the incorporation of "needs analysis" and "in-depth planning", and is followed by performance assessment and review after the program ends. This systematic approach enhances professional skill and work efficiency, and helps the Company improve its coordination of human resources. Also, it is connected with the operational benefits of the Company.

Human Resource Development Strategies

The Chunghwa Telecom Training Institute has devised human resource development strategies based on business focus and talent requirements.

- / Alignment of training and business development
- Alignment of training targets and courses
- Mobilization of digital learning

Digital Classroom

Chunghwa Telecom has introduced an online learning social network (the Digital Classroom) with an e-Learning approach quite unlike that of conventional classroom teaching. In this new learning social network where users may share and transfer knowledge at a lower cost, and with a far better yield of good results. The broadband installation college, for example, is a platform where information such as technical documents, cases, video tutorials, and technical discussions can be exchanged and learned.

Online Broadcast Online broadcasts can be used to teach topics

/ Innovation and Benefits

related to specific work. They are delivered over the internal UC platform, and offer employees a fast and convenient way to gain knowledge and observe new trends. Online broadcasts transmit the experiences of experts to all employees without limit and boost business growth. The topics in 2020 included core business, ICT extended business, business in the new field and new knowledge of management and health care. There were 227 classes with 12,989 person-times.

J Government-industry-university institute platform

Results

1. Provide international public cloud certification training

In line with the corporate cloud strategy, training and certification mentoring for AWS, Azure, and GCP certificates were organized in 2020 to facilitate different institutes to acquire a total of 279 international public cloud certificates.

2. Improve management capacity

Manager management seminar was organized to effectively resolve management issues and promote business development and profit the revenue growths. Quality of communication was enhanced in the seminar to promptly respond to clients' pain points and accurately promote the focused businesses of Chunghwa Telecom. A total of 357 senior managers participated in 2020.

3. New business potentials

- In light of the Dawn Year of 5G Commercialization, there came a huge demand for 5G constructions, maintenance, and promotion for relevant personnel trainings. The base station installation and settings certification programs were organized with 19 staff certified, while a series of 5G technology programs and programs for corporate client applications were organized with 6,088 person-times trained, so as to prepare the talents required for 5G development.
- 31 important professional seminars were organized with 3,309 participants, including seminars respectively on 5G wireless technology, IoT development trend and service application, and big data application, etc. Courses of photovoltaic technical training series, business promotion, planning and design, construction and maintenance manpower are totaling 16 classes and 181 person-times.



Dedicated Training Units

Chunghwa Telecom has founded the Telecom Training Institute that specializes in training technical as well as managerial talent to gain more core competitive advantages. A Talent Development Team has also been established, with the President as convener, to conduct regular reviews of the planning and outcome of training. This is important to ensure that the training outcome is closely aligned with the operational policy to achieve a "seamless combination of training and practice". It was awarded with "Certificate of Talent Quality-management System (TTQS) – Gold" by the Workforce Development Agency, Ministry of Labor in 2020. Chunghwa Telecom Telecommunication Training Institute

Diverse Learning Channels

To meet the needs of the organization, and the personal interest and even the personality traits of employees, the Telecom Training Institute provides a diversity of learning channels. These help employees develop new indepth professional ability as well as a renewal of their management skills to bring about growth and proper career development. Employees can attend training at the Telecommunication Training Institute during regular hours, in the evening or on holidays. The institute can also dispatch tutors to relevant business units for organized training sessions. The institute offers 8 learning channels: class teaching, distance education, digital learning, mobilization digital learning, direct-broadcast courses, external programs, on-site tutoring, and the digital library.

New Employee Orientation

To provide new recruits with a general understanding of company vision, values and culture and help them adapt to the new criterions and work environment, the "New Recruit Counseling Guidelines for Chunghwa Telecom and Subordinate Institutions" was introduced in 2014 as well as a counselor system and e-Learning audio courses to accelerate the new employees blended into new work.

Recruitment and Development of the New-Generation Talents

Talent First", we built the stage for youth to shine, fostering the values of ONE CHT.

- Recruiting professional talent in ICT, AIoT, 5G application, technology innovation, and other new business opportunities.
- The nurturing of the next-generation talent: The Company introduces new talent-training programs on a yearly basis. It provides employees with professional and diverse training options, and certifies the development of skill.
- Emerging businesses: new ICT technologies are being infused with knowledge from other fields. The Company will focus on training professionals who can adapt and apply their knowledge across several different fields of expertise such as cloud computing, big data, and product packaging to actual practices.

The year 2020 marked the Dawn Year of 5G, we endeavored to develop important businesses in 5G, IoT, AI, and cybersecurity. Formulating the golden trinity of Chunghwa Telecom, "Innovation First, Technology First,

Sustainability Risks and Opportunities

06 Public Policy Participation

Fair Evaluation

Chunghwa Telecom now applies "Employees Performance Evaluation Guidelines" which are used in the appraisal of employee performance to develop the corporate culture where employees, customers, shareholders, and the Company will all be winners. Supervision will be provided for underperforming employees who will be guided until the appropriate improvement has been made and they are back on track. CHT conducts performance appraisal at two levels: general staffs and senior managers. Performance appraisal involves a series of face-to-face discussions between employees and line managers at the beginning of a year to set personal goals, and also at mid-year and years end to evaluate the degree of employee contribution to the Company. Performance bonuses and employee remuneration are tied to individual performance. In addition to linking employees' salary bonus to their annual performance, CHT has established a reward of senior employees, which is payable on a one-year deferred basis and apply to all employees, provided that the

employee has a certain standard of continuous service and recent performance appraisal results.

Nurturing of Professional Talents

Chunghwa Telecom is dedicated to providing employees with a diverse learning environment. In 2020, Chunghwa Telecom training expenses exceeded NT\$493 million and employee training sessions totaled 1,045 thousand hours. We encourage employees to commit themselves to long-term learning. Subsidies were given to 329 employees in 2020 and the Company compensation amounted to NT\$6.05 million.

Item	2018	2019	2020
Total Training Expense (NT\$thousand)	502,370	497,901	493,000
Training Per Capita (NT\$)	22,707	22,938	23,555
Total Training Hours	908,316	961,234	1,045,267
Training Hours Per Capita	41	44	50

In line with the Company's policy of austerity, the total training expense in 2020 was lower compared to that of 2019. Nevertheless, the total training hours and the training hours per capita increased to meet the trainings for important businesses like the Dawn Year of 5G.

The Happiness at Work Survey

Since 2011, we have carried out annual "Chunghwa Telecom Happiness at Work Surveys" on an anonymous basis. This helps us to understand how employees feel about their work and their working status, and are used as a reference for the improvement of management. The survey topics include individual opinions about the working environment, welfare and corporate transformation. By listening to the opinions of the employee, we get to understand their feelings and expectations.

The 2020 "Happiness at Work" survey is in a hundredmark system. In total, 4,698 questionnaires were returned (23% response rate), 4,431 of which were determined to be valid (94%). The average score of "Happiness at Work" is 82, and the average score of "Employee Engagement" is 90. We will continue these surveys and respond to employee opinions.



Health and Safety Management

Chunghwa Telecom was the first telecom service provider in Taiwan to adopt the OHSAS 18000 Occupational Health and Safety Management System. In response to the renaming and migration from OHSAS 18001 to ISO 45001, as of the end of 2020, the total of 26 branches completed the certification of ISO 45001. It is scheduled to complete the migration to ISO 45001 certification throughout the branches by 2021. We shall better our objectives in workplace safety and health management, "ongoing improvement in safety and health facilities; establishment of a safe, healthy, comfortable, and friendly working environment; reduction of work-related accidents".

In addition to identifying hazards and assessing the risks associated with telecom operations, the Company has also applied restrictions and enhanced risk control for high-risk tasks, while taking effective precautions to reduce occupational hazards. In addition to complying with safety and health regulations, the Company has also been active in the improvement of the current work environment and takes regular action with regard to safety and health facilities and measures.

We take part in all government initiatives and actively promote a healthy workplace. 3 divisions within the Company have received awards under the "National Workplace Safety and Health Campaign" organized by the Health Promotion Administration, Ministry of Health and Welfare.

More information about GRI 403 Occupational Health and Safety Disclosure 🗹



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Sustainability Risks and Opportunities

The Dedicated Occupational Health and Safety Management Unit

There is Labor Safety and Health Committee at all levels of institutions in CHT, the average proportion of labor representatives is 34%. Meetings are held quarterly to deliberate, coordinate and make suggestions on labor safety and health issues. There is also Labor Safety and Health Department, which is responsible for the planning and implementation of labor safety and health matters.

The head office's Labor Safety and Health Committee has 29 members, 10 members are from the labor union, accounting for 34%. 4 meetings were held in 2020 and 8 proposals were presented by the labor representatives, 6 were related to the refinement of safety and health management, and 2 were related to employee benefits. All of the above are solved.



Full-Time Physicians and Nurses to Improve Employee's Health Management

To better provide immediate medical assistance and attend to worker health, we engaged 22 full-time nurses and contracted 20 physicians in 2020 for this specific purpose. Also, we set up health service centers at ten locations, including the Xinyi Campus (Yilan and Hualien included), Aiguo Campus, Daan Campus (Keelung included), Guoguang Campus (TTI included), Taoyuan Branch, CHT-TL (Hsinchu and Miaoli included), Taichung Branch, Taichung Branch of the Mobile Business Group (Nantou included), Changhua Branch (Yunlin included), as well as Linsen Campus (Pingtung and Taitung included), offering health services, consultation, and care. The contracted doctors help with the on-site inspection at the offices, offer advice in line with human factors engineering for employees using computers at work, and adjust the heights of computers and chairs. The procurement of office equipment, besides in conformity to "the materials technical specifications" of the Company, is in compliance with the National Standards of the Republic of China (CNS). Also, we conduct monitoring and keep records of the temperature, humidity, illuminance, noises, indoor air quality (CO₂) in the working environments for our employees in order to ensure the comfortability and safety of working

environments. All the monitoring results in 2020 were in line with the regulations.

The Company has deployed 6 i-med Systems at local customer centers for employees involved in high-risk activities. Blood pressure is measured and employees are given careful health checks before they engage in any high-risk work. Also, we deployed 10 sets of workplace health management physiological (blood pressure) measurement system in our facilities. Combined with our "Enterprise Healthcare System (EHS) and Personal Health Record", our employees can monitor the changes in their blood pressure anytime.

National Fitness Program

In 2020, the Sports Administration of the Ministry of Education cooperate with Global Views Monthly to organize National Fitness Program, 100 employees from CHT Xinyi Park signed up to learn more about fitness. The program included body measurements (height, weight, waist line, hip line, muscle mass, body fat, protein/mineral levels, and degree of obesity), muscle strength training (grips), flexibility training (forward flexion exercise), and cardiorespiratory fitness (knee-ups), designed to help employees learn more about their health and absorb new knowledge about sports.

Health Promotions for Senior Employees

The health checkups for the elderly in 2020 promoted autonomous health management actions from inside out. Apart from physical exercise, the support system among friends was established through the activities.

- retinal vessels and glaucoma.
- to share how to adjust the sitting postures to avoid physical discomfort.



1. Health checkups: The Company provided checkup services specifically targeted at senior employees, including carotid duplex and echocardiography for the risk of ischemic stroke, coronary artery narrowing and incomplete heart valve closure, as well as fundus photography for checking macular degeneration,

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2. Health promotion lectures: Dr. Chen Wei-Ling from Ministry of Health and Welfare Pingtung Hospital was invited to talk on "The Health in Female Climacteric States" to exercise health checkup and prevention while reduce hazards of diseases; Dr. Lin Yi-Jun from the Renai Branch of Taipei City Hospital was invited to talk on "Learn about Dementia and the Care" to understand dementia and thus support those with dementia and their families; the counseling psychologist Liu Su-Feng was invited to talk on "The Physical and Psychological Health of the Middle-aged and Older Workers" to share the roles of the middleaged and older individuals and their physical and psychological changes; Dr. Hsin-Ying Lin from Taiwan Adventist Hospital to talk on "Introduction to and Care for Common Musculoskeletal and Joint Diseases"

Sustainability Risks and Opportunities

Reducing Occupational Hazards

The Chunghwa Telecom Work Accident Guidelines contain detailed procedures for assessing occupational illness. Employees suspected of having become ill as a result of their occupation are assisted with an application for verification at the local municipal/county/city authority, in accordance with the Protecting Workers from Occupational Accidents Act. We manage risks at the source, by making sure that construction risks are under control from the early design stages of a project. The line construction management system has been amended with respect to highlighting high-risk operations as well as risk assessment information to ensure operators are able to identify potential risk in advance.





All high-risk operations are subject to approval by the ICT. Workers are also required to take site pictures with handheld devices and upload them to the monitoring system so that precautionary measures can be identified and taken to prevent such accidents as falls, oxygen deprivation, etc. To promote employee awareness and safety and health skills, we organized 124 training sessions in 2020 and there were 7,570 enrollments. Among which, the enrollment for first aider training is 614 with a total of 11,052 hours, and that for AED training of Taipei City is 307 with a total of 614 hours.



As part of our effort to mobilize management, the eSafe Wizard app allows employees and contractors to report safety violations, and apply for operation permits. The app also allows us to remotely perform spot checks on safety compliance, moving the entire management process onto the cloud. It is completely paperless, instantaneous, and highly effective. Through the eSafe Wizard app, the completion rate of permit applications for operations (hot work, work aloft, scaffolding, power or fire protection interrupted) hit 97.8% while that of hazard notification reached 99.9% in 2020.

The app eSafe Wizard was awarded with the Taipei City Labor Safety Award - Work Safety Creative Award from the Department of Labor, Taipei City Government. Starting from 2017, the app has been promoted for all institutions of Chunghwa Telecom as well as Taiwan Railways Administration and Taiwan Power Company to introduce the mobilized safety and health management with our technological resources sharing.



Workers	СНТ		On-site Contractors			
Number of hours worked (hr)	41,860,000		11,934,360			
Number of fatalities as a result of work-related injury (person)	1	0	1	0	0	0
Fatalities as a result of work-related injury rate (%)	0.02	0	0.02	0	0	0
Number of recordable work-related injuries (person)	33	7	40	11	9	20
Recordable work-related injuries rate (%)	0.79	0.17	0.96	0.92	0.75	1.68

1. Number of hours worked: 8 hr*number of people *number of working days

2. Fatalities as a result of work-related injury rate =(Number of fatalities as a result of work-related injury / Number of hours worked) \times 1.000.000

- 3. High-consequence work-related injuries rate (disabled for more than 6 months)=(Number of high-consequence work-related injuries / Number of hours worked) \times 1,000,000
- 4. Recordable work-related injuries rate =(Number of recordable work-related injuries / Number of hours worked) \times 1,000,000
- 5. Definition of On-site Contractors: individuals or organizations that work on the operation sites of Chunghwa Telecom.
- 6. The main types of work-related ill health: trip, fall, and traffic accidents.
- 7. Traffic accidents during commute is excluded.
- 8. One fatality as the result of work-related injury at Chunghwa Telecom in 2020, who passed away in coma at work due to cardiogenic shock.



Table of Work-related Injuries and Illnesses of **Employees and Non-employees in 2020**



04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

Heath Promotion Activities

CHT considers its employees health to be a valuable company asset. Providing a safe and healthy workplace is a basic requirement to our employees. Apart from a wide range of benefits, including health checkup, keynote speeches, and promotional activities, we also commit ourselves in the promotion of sports in workplace and in the support to sports industry. In 2020, we spent NT\$76,915 thousand on employee health care.





ltem		2020 Contributions		Item	
Health Examination of Employees and Dependents		are than required by law and employe f 20,428 employees had checkups in 2 o checkups at the same rate, and a tot	020.	Healthy Workplace	 The noise level, lighting, temperature, humi also cleaned and maintained on a regular base Furthermore, all offices feature ergonomic of healthy work environment provided.
Free Influenza Vaccination	 Free influenza vaccination is availal expense. Registration can be done 	ble for all employees who fit the requi online and 1,171 employees were vac	Employee Cafeteria	 Our employee cafeteria offers a diverse rang All food suppliers are subjected to rigorous 	
Employee Assistance Program (EAP)	 CHT was one of the largest corporations since 2007. The EAP carries out 5 consultation employees resolve their legal, med Case managers made 19 visits and 	sessions each year, in which outside ex ical, family, workplace, and stress prol	Balancing Work and Life	 Chunghwa Telecom has 30 hostels that prov balance between work and life. 	
Employee Health	 Healthcare personnel use the Empl 	tion via online or phone appointment hours and each patient was allocated oyee Health Management System for isultations can be arranged between t	30 minutes. the analysis and evaluation of health	Flexible Working Hours	 Chunghwa Telecom provides two flexible wa 17:00-18:00.
Service	Thirty-minute medical consultation with a physician (30 minutes / per person)	On-site visits by physicians	Consultation with a nurse	Telecommuting	 Call Forwarding: calls forwarded from office Instant Messaging: reporting via Qmi instant Mail Delivery: mail delivery via Web mail Video Conferencing: using UC, hiVideo, or Te
	2,385	407	10,485		 OA Online Administrative Operation: using F cellphones
Employee Health Promotion	 A total of 10,398 employees partici trips. Health examinations were giv 316 large-scale events. The Company published two health 	ven to 877 employees in 12 sessions a	Epidemic Prevention Leave	 During the 2020 COVID-19 epidemic prevent for home quarantine, totaled 3,139 hours. The "epidemic prevention childcare leave" i and bonus, nor did it count as personal leav 3,798 leave hours. 	



2020 Contributions

midity and air quality of our offices is tested regularly. The offices are r basis to ensure workers have a comfortable working environment. ic chairs, natural ventilation, indoor plants and other elements of a

ange of nutritionally balanced meals to choose from. us review to ensure the safety of food served to our employees.

rovide travel accommodation, encouraging employees to achieve a

working hour sessions in the morning and afternoon: 8:00-9:00 and

ice phones ant message apps

r Teams g HiGate for telecommuting or mobilized administrative services on

ention period, **75** employees granted with epidemic prevention leave

e" is available without pay and would not affect the full attendance eave/sick leave. **124** employees applied for such leave with a total of **)4** Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

Building a Happy Business

CHT regards employees as important assets. We offer a commitment to our employees refrain from making layoffs and salary reductions. This means employees can devote themselves fully to boosting performance at work to create more value for themselves and the Company. In response to the government's policy to boost birth rates, CHT is providing childcare subsidies and maternity benefits to young employees with children aged 0-6 years old. We are committed to building through software and hardware resources, expecting to set up workplace childcare support centers in Taipei City, New Taipei City, Taoyuan City, Taichung City, Tainan City, and Kaohsiung City that are scheduled to open in August 2022 to provide education and care services for the children and grandchildren of employees and create a friendly workplace, so that employees can be confident in their work, creating higher value for individuals and businesses, and build a healthy and secure business.



	Leaves Better than the Statutory Requirements	Labor Standards Act
 Employment years 7 : 21 days Employment years 10 : 28 days Employment years 15 : 30 days 	Annual Leave	 Employment years 7 : 15 days Employment years 10 : 16 days Employment years 15 : 21 days
14 days	Marriage	8 days
5 days of personal leave with pay	Personal Leave	No pay
42 days regular leave, rest day, and national holiday not included	Maternity Leave	8 weeks regular leave, rest day, and national holiday included
8 days	Precancy Checkup Leave	5 days
Better than the statutory requirement for certain kin	Funeral	-
Full salary	Sick Leave	Half salary
Full salary	Menstrual Leave	Half salary
Full salary	Miscarrage Leave	No pay

Item	Activities and Description	Number of Participant / Beneficiaries	Contribution / Supplement
Allowance (Company Issued)	We offer a 6-month maternity allowance in compliance with the Employment Insurance Act. CHT also offers additional monthly allowances totaling half the sum assured under the Labor Insurance Scheme.	116 persons	NT\$ 13,705 Thousand
Childcare Allowance (Company Issued)	Employees with children aged 0 - 6 years old will automatically receive childcare allowance of NT\$5,000 per year. It is raised to NT\$6,000 per year since September.	2,523 persons	NT\$ 14,668 Thousand
Sports Activity	Regional activities include 90 road running events, 383 hiking activities, 79 ball sports activities and 946 other activities (e.g. stair-climbing, health exercise, strolling, and health promotion lectures).	<mark>58</mark> thousand persons	NT\$ 11,543 Thousand
ESOT	Improvement of employee welfare, enhancement of employee coherence, and sharing company achievements.	17,913 persons	NT\$ 2.4 Thousand/month per person
Dependent Education Subsidy	Twice a year (two semesters).	17,953 persons	NT\$ <mark>80,786</mark> Thousand
Wedding Subsidy	A wedding subsidy is available for employees who are to be lawfully married.	187 persons	NT\$ 467.5 Thousand
Childbirth Subsidy	Employees or their spouses are eligible for a childbirth subsidy.	374 persons	NT\$ <mark>935</mark> Thousand
Funeral Subsidy	A funeral subsidy is available in the event of the death of a parent, foster parent, step-parent, the spouse or a child of an employee.	677 persons	NT\$ 3,385 Thousand
Recreation and Sports Space	Includes an integrated stadium, swimming pool, tennis, badminton, basketball, and table tennis courts, multifunctional event space, karaoke room, and employee dormitories.	Total <mark>13</mark>	,103 square meters

Welfare is provided for employees of Chunghwa Telecom, but not for those of subsidiaries.







Better Maternity Benefits than the Legal Requisites

We have been implementing an unpaid childcare leave system since 2006 to help employees juggle their attention between work and family. The employees who have taken childcare leave are entitled to receive a six months maternity allowance from the authority under the Employment Insurance Act. While six months expiry, the Company will further pay an additional childcare-subsidy of half assurance sum of Labor Insurance Scheme according to its policy. Employees of Chunghwa Telecom are also entitled to other privileges such as family care leave, paternity leave, menstrual leave, and a nursery room service, as well as epidemic prevention childcare leave pursuant to the government's epidemic prevention policy. In 2020, 71 employees applied for unpaid childcare leave; 116 employees applied for child-care leave allowances. NT\$13,705 thousand was paid out as childcare leave allowances.

Year	Item	\bigcirc	\bigcirc	Total
	The Number Qualified for UPL for Raising Children 2020(A)	852	369	1,221
	Number of Applications for UPL 2020 (B)	9	62	71
2020	Application Rate for UPL (B/A)	1.1%	16.8%	5.8%
2020	Number of Expected Reinstatement 2020 (C)	11	69	80
	Number of Applications for Reinstatement 2020 (D)	12	66	78
	Reinstatement 2020 (D/C)	109%	95.7%	97.5%
	Number of Reinstatement 2019 (E)	18	61	79
2019	One Year Retention after Reinstatement 2019 (F)	18	61	79
	Retention Rate 2019 (F/E)	100%	100%	100%

1. The number of employees entitled to apply for a parental leave of absence in 2020 (A):

calculated as employees who had applied for maternity leave and parental leave in 2018-2020.

- 2. The number of expected reinstatements 2020 (C):
- The number of employees who applied from 2018 to 2020 and should be reinstated in 2019.

3. The number of actual reinstatements 2020 (D):

The number of employees who applied from 2018 to 2020 and were reinstated in 2020.

4 Reinstatement rate:

(actual number of reinstated employees that year/number of employees who should have been reinstated that year) imes 100% 5 Retention rate:

(the number who continued working after reinstatement/reinstated number for the previous year) $\times 100\%$



Retirement Benefits

Retirement Pension and Separation Guidelines, the Labor Standards Act, and the Labor Pensions Act.

- The Labor Standards Act: The Company makes monthly pension contributions of up to 15% of an employees' monthly salary to the pension fund. This fund is held under the auspices of the Labor Pension Supervisory Committee. The current balance of the pension fund account is 39.2 billion.
- The Labor Pension Act: The Company makes monthly contributions of no less than 6% of an employees Labor Insurance of the Ministry of Labor, in accordance with the Contribution Rate Sheet approved by the Executive Yuan.

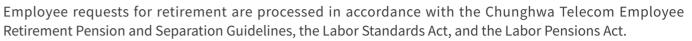
Monthly pension contributions were made in accordance with the Monthly Contribution Wages Classification Scheme published by the Ministry of Labor, subject to biannual adjustments.



Lifelong Learning and Training Programs

To help our employees to adapt and create quality lives after retirement, Chunghwa Telecom Training Institute was commissioned to organize "Care Program for Retirees' Sweet, Happy Lives". A total of 12 sessions were organized with 748 person-times involved in 2020. Also, we continued to contribute to "Chunghwa Telecom Retirees Association" with an amount of NT\$4.5 million to support them to organize relevant activities. We also donated NT\$1.5 million for travel activities and NT\$300,000 for the meal expenses of all volunteers across branches during the Lunar New Year.

To help facilitate the transfer of knowledge and experience, we have stipulated "Consultant Recruitment Guidelines" to hire paid consultants and honorary consultants. Managers at a position of Senior Executive Vice President or above, or the head of Level-1 institutions, may be hired by Chunghwa Telecom as paid consultants after retirement. Paid consultants shall serve a term of no more than one year, and assume honorary consultants upon the day after one-year period has expired.



monthly salary. These contributions are deposited in the employees pension account held by the Bureau of

Sustainability Risks and Opportunities

The Creation of 05 The Creation C. Sustainable Value 06 Public Policy Participation

Human Rights Value Protection

We proactively monitor and protect human rights. We respond to the UN Declaration of Human Rights and the ILO Convention on the elimination of all forms of discrimination and the prohibition of forced and child labor. We also respond to the UN International Covenant on Civil and Political Rights and the International Covenant on Economic, Social, and Cultural Rights, dedicating to promote human rights awareness and assure respect and fair treatment to all stakeholders.

CHT is a member of the International Telecom Union and we fully comply with International Radio Regulations. The regulation concerning: freedom of communication, transparency in global roaming charges and competition, support of Telecoms in developing nations, telecom services for persons with disabilities and the freedom of speech over telecom networks. In addition, we support the UN Guiding Principles on Business and Human Rights by conducting a human rights due diligence investigation and make sure that each human rights issue in the operational value chain is evaluated and we maintain all risk at a minimum level.

Human rights issues include anti-discrimination, gender equality, freedom of association, collective bargaining, child labor, forced or compulsory labor, and aboriginal rights.

	Subjects of e Value Chain	Location / Amount		Evaluation Mechanism	Evaluation Percentage	Percentage at Risk	Description / Boosting Mechanism
	CHT owned institutes at 1 to 2 lower levels	28	CollectiveWorkers' l	nagement meeting agreement Jnion meeting Iman rights event inspection	100 % 1.6%		 Labor-management meeting Collective agreement Workers' Union meeting
	Subsidiaries	21	Annual CSR	implementation inspection	100 %		 Annual human rights event inspection
1 1 1	Re-investment Companies	16	Annual CSR	implementation inspection	100 %	2.5%	Some institutes were in violation of regulations. Suggestions for improvement have been provided and will be tracked and managed continuously.
		Tier 1	2,078	CSR survey inventory			 Some suppliers had violated the labor laws and regulations.
	Upstream and Downstream Suppliers	Critical Tier 1	192	 CSR second party audit Occupational health and 	100 %	0%	Continue to follow-up of suppliers with identified risk to see improvements have been made through Supplier Conference.
	Cuppliers	Critical Tier 2	28	safety audit			and other channels.
ß	The Public	All consumers	discrimina • Satisfactio • Personal in inspection	nformation and privacy protection	100 %	0%	 No discrimination or harassment, or any invasion of CHT customer privacy or misuse of personal information in 2020. Continue to promote the 51 SDGs Initiative to ensure information equality among the groups.

Human Rights Material Risk Issues

Local Human **Rights**

To fulfill the concept of anti-forced labor and appropriate working environment, we required the bidders to sign a Declaration of Minerals as Conflict-Free during procurement. We evaluated the suppliers to determine if raw materials derived from human rights high-risk areas like the Democratic Republic of the Congo to avoid harm to the basic human rights of local residents while we providing ICT products and services. We depend on demand and require the suppliers to provide certification of material resources, third-party verification or accepted auditing to confirm no related violations.

We also required that all suppliers complied with the Restriction of Hazardous Substances Directive (RoHS) to prevent hazardous substances from the source endangering local employees, the environment or customers.

We use the Occupational Health and Safety Management System (OHSAS 18000/ISO 45001) to avoid potential risk



and have systematically fulfilled employee safety and health management. In addition to compliance with the safety and health-related regulations toward high-risk tasks, we have also enhanced risk control. We continue to improve the working environment and act in regards to safety and health facilities and measures to actively ensure employee protection.



Sometimes customer service personnel encounter irrational requests and even personal abuse from customers in Employment the provision of our services. We established an SOP for employee response and acted at a critical level in certain circumstances. Legal assistance can be authorized to aid in the event of serious offenses and to prevent illegal practices. CHT adopted the ISO 10002 quality management system in 2011 and have a certified and flawless customer service procedure and management mechanism in place. We regularly offer pertinent training courses in customer relations, the management of emotional stress, and occupational hazard prevention. While building up professional capability, we positively avoid pressure to mental and physical health problems on customer service personnel.

Information Equality

2

Customer

Human

Rights

CHT is creating a free and open information sharing environment without technological boundaries that can be shared with everyone. Such a system inherits culture, extends education, promotes industry, and upgrading art with a connection to the universe of the Internet. Digital technology can be beneficial to everyone irrespective of age, social standing, wealth, geographical location, or education. We base our approach on the characteristics of the ICT industry and the spirit of "where the value is where the responsibility lies" in our work with the communities in Taiwan. Our main objective is to minimize the digital divide and create digital opportunities, CHT watches the trends of this digital divide and offer solutions that facilitate social innovation and digital inclusion. We spare no effort in corporate volunteer, participate in community services, and proactively assist communities in the creation of digital opportunities.

Due to the nature of our industry, in addition to establishing information security management applicable to the enterprise operation, we also implement measures to safeguard our customers' personal information. We implemented information security in compliance with the international standards ISO 27001 and BS 10012 and carried out regular supplier auditing and supervision through employees or a third party. We also carried out vulnerability scanning and the testing of all equipment and software from outside suppliers to ensure there were no back-doors or malware.

Besides acquiring the customer's agreement before the collection of any personal information, we established the internal Security and Safety Principle of Customer Information Re-use. Related information also complies with the principle of no names are revealed to prevent the downloading of personal information and avoid leakage or disclosure

To prevent damage from the products or services to stakeholders, the measured values such as that of environmental electromagnetic wave should be in line with the "recommended non-ionizing radiation exposure limits for the general public in non-occupational environments" released by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). Citizens may apply for the free base station electromagnetic wave measuring service to reduce the concerns in health and safety of the people in communities.

02 Sustainability Value Strategy **03** Material Topics and Impact

04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value 06 Public Policy Participation

Safeguarding Consumer Rights and Interests

Digital Transformation of Diverse Virtual and Physical Channel Services

Chunghwa Telecom values consumers opinion. In addition to conveying technical features of the products and services we offer; we look at the matter from the point of view of the consumer. We provide consumers with the most comprehensive, high quality and efficient services putting a wide and diverse range of service channels at their disposal. By the end of 2020, we had 455 direct physical channel service stores, and 245 franchised stores, a total of 700 service outlets that provide convenient services for all consumers in cities, or even in remote areas in Taiwan.



Ethical Marketing and Information Transparency and Friendliness

We provide a handbook about products and services for consumers that details product characteristics and applications, consider the negative aspect of overuse, and has friendly reminders provided while marketing. In addition, Chunghwa Telecom has set up the "Channel Sale Items Management Guideline" and "Channel Sales Items Management Implementation Procedures" to make the display of sales items and operation management consistent throughout all the service and business locations. This ensures a positive service environment for consumers. These are vital for maintaining a superior and professional image as well as the service quality at Chunghwa Telecom. No violations of health and safety and product labeling was reported in 2020.



Green Services with Environmental Protection and Innovation Combined

In 2018, telecom combinative stores were established in Zhongli, Miaoli and Hsinchu, including cafe, 3C and an experimental display. The green stores capabilities were also developed and energy-saving household appliances such as electric scooter, TV, refrigerators, and air purifiers, promoting green business development and offering customers the onestop shopping and whole-new store service experience.

Category	Description
Customer service Kiosks	These serve as the "Database" for engineering-related information information is received, it will be ver- to an SOP. Afterward, an FAQ will be and uploaded to the customer infor- for use by the Chunghwa Telecom of personnel (at service outlets and of the Internet counter.
Consumer Hotline	Provides complete information or products and services, and related



for business and tion. When new verified according be further drafted formation station customer service call centers) and

on the features of d special offers.



Sustainability Risks and Opportunities

The Creation of Sustainable Value 06 Public Policy Participation

Proper Management of Personal Information

We highly value the personal data and privacy rights of our customers. The collection, processing, use, and protection of personal data and privacy are conducted within the scope allowed in the "Privacy Protection Policy", "Personal Data Collection Notice" of respective businesses as well as relevant provisions in "Personal Data Protection Act". Personal data and privacy shall not be disclosed to a third party by means of exchange, lease, or others at will.

Pursuant to the laws and regulations as well as international standards, we established rigorous personal data and privacy protection management mechanism, carry out risk assessment prior to business promotion, and construct strict protective measures and safe environments to avoid stole, alter, or illegal use of customers

Collection, Processing, and Use of Customers' Personal/Private Data

Type and Content of Data Collected

When customers use services of Chunghwa Telecom, we collect their personal/private data, including account, location, browsed webpages/mobile app, etc. out of the regulatory requirement for identity verification or the needs for service provision.

Customers may access with ease from multiple channels (e.g. website, app, store, and customer service hotline) and learn about the types of data and methods we collect, process, use personal data and disclosure thereof to a third party, as well as the rights customers are entitled to exercise, including inquiry, request to stop collecting, processing, and using, as well as erase.

Data Use and Protection

To elevate customers' experience and maintain customer relationship, we use customers' data for analyses so as to provide optimized services and promotion information catering to our customers, whereas the customers may request stop such use at any given time.

We fully monitor the use of customers' personal data and implement rigorous protection measures to prevent any unauthorized access, disclosure, use, or tampering of personal data in order to protect the security and rights of customers' personal/private data. The percentage of Chunghwa Telecom's secondary use of customers' data in 2020 was 84.4%.

Provision of Personal Data

We do not disclose customers' personal data to a third-party by means of exchange, lease, or other alternatives at will, unless consented by the customers or specified otherwise in laws and regulations.

Application by

Law Enforcement Agencies

In the event that any government agency or law enforcement agency sends Chunghwa Telecom a letter to access or inquire information of customers for the protection of public security and against crimes, in compliance with relevant laws and regulations, Chunghwa Telecom shall provide customer information thereto accordingly after a rigid examination of such application, or reject application that are not in line with regulatory procedures or criteria. The rate of the provision in 2020 was 92.5% with a rejection rate of 7.5%, most of which were primary due to inconformity to the relevant laws and regulations or source data error.

Compliance with the Epidemic Prevention Effort of the Government

In response to the COVID-19 epidemic, in compliance with the epidemic prevention needs of the government, and pursuant to "Communicable Disease Control Act" and "Special Act for Prevention, Relief and Revitalization Measures for Severe Pneumonia with Novel Pathogens" on the basis of advancing the public interests for all, the telecom service providers in Taiwan are liable to provide necessary information to Taiwan Centers for Disease Control (Taiwan CDC), Ministry of Health and Welfare, so as to assist the government to enforce the home isolation policy and prevent the disease spread. We safeguard our customers' privacy with a rigid management over data security.



data. Also, we conduct comprehensive trainings for internal personnel regarding personal privacy protection in line with the requirements of the competent authority in order to protect customers' privacy. We continue to improve our operational procedures, elevate our information technology, ensure implementation of personal privacy protection and security measures across all elements in operations, track the results of various performance indicators regularly, and have audits internally and externally annually as well as pass inspections of competent authorities and third-party certifications (ISO 27001 / ISO 27011 / BS 10012 / CSA STAR Certification remain effective), so as to offer consumers best cybersecurity and personal/ private data protection.

Personal Data and Privacy Risk Management

The personal data and privacy risks management mechanism of Chunghwa Telecom is based on the identification of risks brought by threats, internally and externally, to the organizational operations and businesses, including changes in the laws and regulations and international standards, requirements of the competent authorities, trends of cybersecurity threats, and check results. It inventories significant risk issues of the year, followed by the analysis of the impact levels and likelihood of risks, evaluation of the priority for risk handling, formulation of objectives and measures for risk handling, and regular review and evaluation of indicators attainment.

Personal Data and Privacy Protection Consultation and Grievance Channel

Regarding personal data and privacy protection issues, we have personnel trained in Personal Data Protection Act to provide professional consulting and grievance channels to our customers.

Grievance Hotline: + 886 800 080 090

Suggestion Mailbox: https://www.cht.com.tw/zh-tw/home/cht/service/emailus Should customers find their personal data and privacy use issues unresolved within 30 days, they could also reach us through: Recipient: Chief Information Security Officer, Chunghwa Telecom Co., Ltd. Address: No. 21-3, Section 1, Xinyi Road, Zhongzheng District, Taipei City 100, Taiwan (R.O.C.) Phone: +886 2 2344 6789

We have implemented the notification, response, and improvement mechanism and its related operation procedures for privacy data breach incidents. Upon detection of potential privacy incident, it is required to complete the reporting in accordance with the report window list. In the event of major incident, it will be escalated to the Cyber Security Department at the Headquarters and the CISO, while a response team will be formed within a specified window to enact emergency response. Upon the privacy incident verified, the Company shall conduct incident investigation and analysis to find the root case, define scope of damage, preservation of relevant evidence, while take emergency response measures. We monitor the changes in public opinions and client grievance, learn about the personal data illegally collected, processed, or used in the incident, prevent further damage, and notify parties affected and the competent authorities. Where the incident causes damage to clients' rights, Chunghwa Telecom will provide compensation or legal support to the parties involved to assist and protect our clients' rights to the best of our ability. There were 8 complaints over "alleged information breach cases" filed via the customer hotline in 2020, of which 1 was notified by the National Communications Commission (NCC) and 7 submitted via the customer service hotline (4 more cases compared with those in 2019, accounting for 0.000018% of the customer hotline service provided of the year). All the cases were investigated and verified that there had not been any fact of personal data and privacy breach.

For more information on the cybersecurity and personal data and privacy protection of Chunghwa Telecom, please visit our website 📝



Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

Chunghwa Telecom Customer Service Mechanism Overview

Category		Description					
Customer Service Location / Scale	The Company has 15 personnel averages 2,		nters, and the numbe	r of customer service			
Multi- Channel Customer Services	 Webchat Social media, "Chunghwa Telecom Dr. Q Fan Page" Web customer service center Mobile customer service center SMS 						
Training Result	To refine our custom thoughtful services, w Microsoft Teams in 20 "Driving Sales with Se 150 seed personnel we CHT holds a very hig requirement of tone professional knowled 44,368 hours of trainin	while taking the COVID 020 to throw three se ervices", with zero stu ere trained with an ave gh standard for cust e and manners of sp dge and competence	0-19 impacts into cons essions of remote train dents and zero cluster erage training hour of 6 comer representative peech, we place ever	ideration, we utilize ning program online ring on site. A total o hours per capita. s. Besides the basi more emphasis o			
	Year	Total Participants	Total Training Hours	Average Training Hour			
	2020	9,853	44,368	4.5			
	2019	5,885	127,511	21.7			
	2018	5,684	141,207	24.8			
	Due to the pandemic impa	at in 2020 TTI reduced off	·	•••			

training hours decreased.

Commendation for Best Customer Service Personnel

To inspire passion and professionalism among customer service officers, we reward customer service personnel who receive praise from customers, and accept these credits as part of their performance appraisal as an excellent service quality.

KPIs for Customer Service Hotline

In 2011, Chunghwa Telecom became the telecom carrier to have all its centers certified for the ISO 10002:2004 Customer Complaint Management System. The Company views customer complaints as opportunities to make ongoing improvements. The resolution of customer complaints and dissatisfaction is rule-based and they must be settled within 3 working days. This approach ensures the continuous improvement of service quality. In addition to the customer service hotline, consumers may also use the corporate website or Representative Line authorized by the President (02-23446789) to raise complaints directly to the assistance of the senior executive.

КРІ	2018	2019	2020
Customer Service Response within 20 Seconds	73.42%	73.37%	68.98%
Service Satisfaction (5-point scale)	4.71	4.74	4.75

Refined	Customer	Service

Chunghwa Telecom provides services which are refined, thoughtful and professional to build warm atmosphere around customer relations. We use big data analysis to learn the true needs of customers so that we can offer thoughtful and customized services and products. CHT's positive approach cultivates both favorable impressions and brand loyalty. We set high standards for our customer service hotline. To ensure quality service, we sought multiple international certifications, including ISO 9001, ISO 10002, BS 10012, and ISO/IEC 27001. In recent years, we have been using big data analytics to identify customers concerns and to improve the overall user experience. Through sincere communication and system improvements, we are able to create additional value for our customers. CHT has been presented with "Personal Information Management Awards" by SGS-Taiwan, an international and external third-party verification entity, in 2020.



Customer Service Excellence Awards (CSEA)

"Best Intelligent System Application Enterprise Award"

- Self-developed IVR voice navigation and verification application

To offer a better service experience for our customers, CHT has proactively develop innovative and smart customer service applications. In 2018, CHT introduced the text-based customer service chatbot and successfully built the human-robot collaboration model. In 2020, the IVR voice navigation and verification came online. It is an AI chatbot, developed by CHT its own, equipped with five core competencies, including voice recognition, semantic comprehension, speech synthesis, automated feedback learning, and flexible adjustment mechanism, intended for the voice navigation and verification for the incoming calls from customers, which significantly improved the efficiency of our customer service.

CSEA卓越客服大獎 公司類:最佳智能系統應用企業 中華雷信股份有限公司 特領此狀,以資鼓勵 苏文明

"Best Customer Service Management Enterprise"

supporting the government's epidemic prevention works with ICT

Ever since the outbreak of COVID-19 in the early 2020, we have been supporting the government's epidemic prevention works with information communication technology, including designing and providing the quarantine cellphones, developing Digital Fence, analyzing the footprints of epidemic development with big data, and other innovative measures, which effectively helped the government in epidemic control. Starting from the Lunar New Year holidays, the workforce of four customer service centers were mobilized, along with other resources like venues, seats, systems, and electric circuits. Also, we adjusted the IVR voice service on the fly, rapidly established the Knowledge Management Database, and initiated active care for home quarantine. As a result, we set the record of answering up to 47,000 calls in a single day. By helping the Taiwan CDC to cope with the calls to 1922 toll-free hotline, we fully demonstrated our ability to react.





Sustainability Risks and Opportunities

Customer Satisfaction Survey

We conduct a broad variety of satisfaction surveys to identify the issues of most concern to consumers and their expectations. We use these findings to guide future improvements. After each survey, the opinions and suggestions are conveyed promptly to product or business personnel (including Risk Management and the Public Relations Departments) using the consumer feedback system. Furthermore, consumers opinions are brought to the attention of the senior manager of the product and customer service departments for discussion at monthly meetings to ensure that the consumers expectations receive proper consideration.

Regarding the IPA (Importance-Performance Analysis) items belonging to the fourth quadrant (high importance and low performance) after a review of the results of the annual satisfaction survey, we will request that the relevant functional units conduct further analysis and propose measures for concrete improvement every year. There will also be a follow-up in the next quarter to keep track of the progress of any corrective action found necessary.

Customer Type	Survey Method	Survey Result (10-point scale)
Large Enterprise	Designate an external	9.09
Medium and Small Enterprise	market survey company to conduct consumer satisfaction survey	8.72
General Customer		7.77



We are constantly expanding our mobile network. We have the most 4G cell towers and the highest 4G signal coverage in Taiwan. According to test results published by the government, our network speed is the fastest across all 22 administrative districts in Taiwan. Our network quality has been unanimously commended by domestic and international mobile analytics organizations, including OpenSignal top 4G download speed and best overall download speed and Speedtest fastest mobile Internet speed in Taiwan.

As always, customer satisfaction is our top priority. We will continue to improve our mobile network to provide customers with top-notch services. To ensure the equal sharing of information, in addition to a positive strengthening of mobile Internet quality in populous metropolitan areas, we have paid more attention to signal coverage in remote areas. We have achieved 100% total 4G coverage in all towns.

To promote equal digital rights, we support the DIGI+ Program initiative introduced by the Executive Yuan. We planned to increase 1Gbps network coverage to 90% by 2020, 2Gbps network coverage to 90% by 2025. Providing ultra-broadband Internet in remote areas to balance urban-rural development, encouraging innovation in the digital economy, creating value added in the industry, and, in turn, stimulating overall economic growth. In 2020, we invested NT\$200 million in 80 network improvement projects, and the following projects were successfully completed: 1Gbps network speed across all townships, 100 Mbps across all villages, increasing Wi-Fi hotspot bandwidths, improving 4G cell towers in rural areas, etc.

Expand Wireless Hotspots

We have also supported the government initiative for the promotion of free wireless Internet services nationally. Through a reasonable Wi-Fi rental package available, as well as a robust user authentication platform and a nationwide maintenance/monitoring system, we have helped the government deploy free Wi-Fi hotspots nationwide.

Our contributions to social events in 2020 included working with local county and city governments to provide Wi-Fi hotspots and enable Internet access at festive gatherings and international sports events. We installed 81 hotspots for New Year's Eve festivity, 19 for the Lantern Festival and about 31 for other activities. The Company participated in 20 festive occasions, built 131 hotspots in total, and spent more than NT\$1.02 million.

Enhanced Disaster Response and Communication Coverage

Chunghwa Telecom continues to install repeaters, backup wireless routers, and backup power supplies to increase reliable transmission capacity in remote areas. By increasing the capacity of backup batteries to more than 72 hours, the Company ensures that residents in remote locations can stay connected even when main power has been disrupted by a natural disaster.

Item	
Responses Measure	We conduct annual emergency dri coordination of network resources a have been deployed in a diversifie so that failure of circuitry, power o operation of other nearby base static
Occurrence of Disaster	If communication is severely disru we take contingency measures, tha communication between the disaste microwave radio, satellite transmissi

Disaster Report and Upgraded Safety

In efforts to minimize the impact of disasters by prompt messaging, the Chunghwa Telecom self-developed "Emergency Response SMS System" sent out more than 60,000 SMS alerts in 2020, and apply to Directorate General of Highways' "Traffic Conditions Alert System," and Atomic Energy Council's periodic "Nuclear Safety Drills," and the National Fire Agency's disaster prevention exercises, successfully playing its part in disaster prevention information notification.

In addition, a Public Warning System (PWS) has been established to support the national policy of emergency message dissemination about typhoons, earthquakes, thunderstorms, landslides, roadblocks, reservoir discharge or an outbreak of disease, fast and correctly to specific regions simultaneously, assisting government agencies and the general public improving their disaster prevention awareness and capabilities. As long as a mobile phone is open to the PWS function, all our customers will receive messages about disasters. The PWS issued over 2,400 times of emergency warnings across Taiwan in 2020. In the early stage of the epidemic outbreak, 4 warnings were issued that effectively helped the government agencies to communicate the relative policies and orders as well as dispersed the crowds.

Major Service Interruptions in 2020 and Countermeasures

- affected the fixed line communication of 15,585 households.
- 2. Reasons for the Interruption: Two SVG L2 SWs were down due to lightning strikes that led to anomalies of system operation.
- 3. Improvement Measures: Two L2 SWITCH spares stored at all branches in case of emergency. Continuous enhancement of maintenance measures and promotion for preemptive centralized monitoring.
- 4. Implementation Status: All the L2 equipment subject to the risk of lightning strikes replaced to enhance the protection against lightning strikes. Completed L2 SWITCH emergency backup SOP and education training to enhance the emergency response capability of staff.
- 5. Outcomes: With the ceaseless improvement of maintenance mechanism by the network maintenance department, the average number of obstacles encountered by users has been improved from 0.0007 in 2019 to 0.0006 in 2020, while the average time for obstacle removal improved from 0.138 minutes in 2019 to 0.096 minute in 2020.

Description

rills for a wide number of different events, from the and equipment to emergency repairs. Our base stations ed manner and are covered by robust backup plans or equipment at any base station will not disrupt the ions.

upted in the unfortunate event of a natural disaster, at depends on the actual circumstances, to maintain ter locations and the outside world. These can include sion, portable base stations, etc.

1. Overview of the Obstacle: The obstacle with SVG equipment at CHT KLSY Branch on September 12



The Alleviation of Public Concern about Electromagnetic Waves

According to a report by the World Health Organization (WHO) and related scientific research, exposure to base stations and Wi-Fi signals does not affect human health. NCC also declared that all the powers of the electromagnetic waves from the domestic base stations are within the threshold of international standards and thus cause no harm to human body. Therefore, the Environmental Protection Administration of the Executive Yuan do not list base station as a source of environmental pollution.

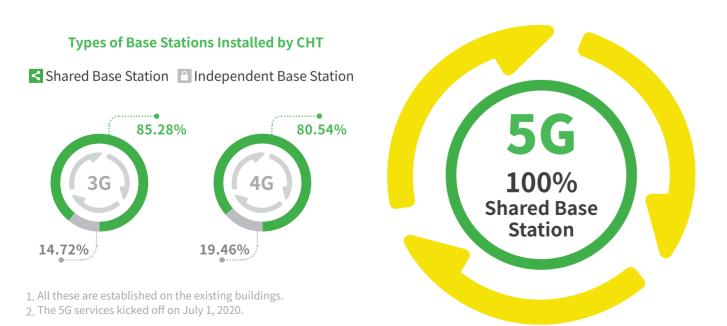
For this issue, Chunghwa Telecom ensures strict compliance with the authority's safety standards when constructing telecom infrastructure. The Specific Absorption Rate (SAR) of all mobile communication products we purchased have complied with the restrictions of the National Communications Commission (NCC). Given the scarcity of suitable base station locations and the need to assure consumer rights to quality communication, we will strive to comply with regulations by taking the approved precautions at all stages of installation. In 2020, Chunghwa Telecom incurred NT\$0.5 million in fines and administrative penalties associated with base stations. These violations occurred as we sought to address consumers' demand for good reception and concern towards negative health impacts from base stations.

The measurement of the electromagnetic radiation in the environment conforms to the standard of the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which must be lower than 0.45 μ W/cm² at 900MHz and less than 0.9 μ W/cm² at 1,800MHz. Any resident who has concerns regarding base stations near their home can request a free complimentary measurement of the strength of the nearby electromagnetic waves by calling 0800-580-010.

Advocate the Accurate Understanding of Electromagnetic Waves

Chunghwa Telecom has been working closely with the Taiwan Telecom Industry Development Association to convey to the public the correct information about electromagnetic waves, by organizing conferences and issuing promotional materials.

- 1. The Company joined NCC and 10 county/city governments nationwide in hosting 12 seminars on the topic of electromagnetic waves, 24 local infrastructure promotion forums, and 125 free complimentary electromagnetic wave measurements have been completed to date.
- 2. Local government bodies were issued some promotional material and pamphlets about electromagnetic radiation, which were distributed to the public during various activities to promote proper understanding.



Felecom Services and Promotions Fraud Prevention

In 2007, Chunghwa Telecom assisted the government in establishing the 165 Anti-Fraud Consultation Hotline to support the police and authorities in the defiance against fraud.

Item	
Resources Committed	 An average of 10 custom to work with the Crimina effort from Monday to Fri "Disconnection Service some suspected teleph timely settlement of the participated in the program
Prevention of Fraud on Network / Mobile Devices	 A two-way, SMS-based payments. A scam alert was added t
Progress Description in 2020	 The hotline received 184 the authorities. The Company assisted Agency in disconnecting scams.

Reducing Negative Impact of the Internet

We continue to minimize negative material circulating on the Internet through diverse action plans, and endeavor to provide consumers with a healthy, trouble-free network environment.

Item	
Anti-Virus and Anti-Hacker	A HiNet mailbox gives customers allows users to decide if questic future. We continue to monitor th Electronic Spam Mail", in which Service Provider (ISP).
Adult Content	Provides K12 Mailbox Forced Isol Mobile Adult Content Security G websites.
Usage Time Control	The HiNet Online Time Manager Worries" programs, giving pare Internet use.
MOD Parental Lock	The Parental Lock can be set at effect immediately once the pase used to protect children from har

Description

mer service personnel joined the service every month nal Investigation Bureau in a concerted front-line duty riday.

e Fraud Prevention System" offers information on hone gimmicks used for cheating customers and a e problem. An average of 3.1 customer service person ram each month.

d authentication system was introduced for small

to all two-way SMS authentication messages.

4,589 calls, and 19,579 cases of fraud were referred to

the Criminal Investigation Bureau, National Policy 1,582 phone numbers, and successfully stopped 2,287

Description

rs access to a free webmail service. A simple setup, ionable e-mail will be automatically deleted in the the formulation of the "Regulations for Commercial th add the management obligations to the Internet

lation, the HiNet Adult Content Gatekeeper, and the uard, keeps children and teenagers out of harmful

ement Service and mobile phone "3G Talk without rents effective control of the mobile phone and

at protected or parental guidance. Settings are in ssword has been entered. The parental lock can be armful or bad content. 01 Corporate Overview

Sustainability 02 Value Strategy Material Topics and Impact

Management

Instituted the Code of Corporate

Social Responsibility for Suppliers

of Chunghwa Telecom Co., Ltd.

Instituted the Chunghwa

Telecom Co., Ltd. Procurement

Sustainability Risks 04 and Opportunities

Action

Efficient energy

management using EARTH

The launch of the 5G initiative

in pursuit of profit,

environmental sustainability,

05 The Creation of Sustainable Value

06 Public Policy Participation



Response

CHT CSR Supplier Conference / Sustainable **Environmental Visit**

Targets low-carbon industries and promotes solar power



Promises to Reach the Following Targets in 2023

- 3.975.5 kWp
- Taking 2017 as the base year, a
- emissions in our buildings • Taking 2017 as the base year to cumulatively save 10% of the energy by 2023 pursuant to the generator room energy-saving program

5G Green Enterprise

Although telecom is regarded as a low-polluting industry, Chunghwa Telecom is well aware of the environmental impacts associated with energy, resources, waste, maintenance, purchasing and other aspects of our operation.

We have devised a new set of Sustainable Environment Development Strategy and Target Plan that outlines our overall strategy and roadmap for sustainable environmental development. In addition, budgets will be provided in each year to support action plans.

Green Operations

- A self-developed EARTH system for 100% control of environmental information
- **1G**

• The **sole** telecom carrier that has obtained the ISO 14046 certification in the industry of Taiwan Received ISO 14001/ISO 50001 and ISO 14064-1 certification at all our business locations

"TCFD Climate-related Financial Disclosures" certification obtained

Green Energy



Self-constructed photovoltaic systems reached a total capacity of 2,783.665 kWp Acquired **105** Taiwan Renewable Energy Certificates

The certification of ISO 14001 is effective till 2023/12/24, while that of ISO 50001 is till 2022/12/17



Facilitation of greenness in the ICT industry (Green of ICT) and overall greenness of society through ICT (Green by ICT)



Target

Completion of the first smart greenenergy staff dormitory in Taiwan by 2021 (50% progress made)

• The capacity for renewable energy constructed from proprietary was

10% reduction of greenhouse gas

Indicator GRI

🔅 😥 🎯 💽 👬 🔗

GHG Emissions 790.320.9986 t-CO2e

CHT

A CHT photovoltaic system with a total capacity 2,783.665 kWp

CHT

Nearly 100 suppliers receiving ESG education and trainings

CHT

Implement the "Suppliers CSR Second Party Audit" on 20 suppliers

CHT

105 Taiwan Renewable Energy Certificates (T-REC) acquired





Co-construction of the Largest Solar Power Plant in Yilan in 2020

Working with VITEC ENERGY TAIWAN CO., LTD., we completed two solar power plants in Yilan County, for Alchemy Steel Inc. and Yi Lian Steel Manufacturing Co., Ltd. respectively. With an installed capacity of 3,000 kW in total, it is estimated to generate energy up to 3 million kWh per year while reduce approximately 1,600 tonnes of CO_2e annually, which is close the amount of carbon sequestered by 4 Daan Forest Parks. In the future, we shall continue to expand the solar power projects in Yilan. From development, planning, installation to maintenance, we manage the engineering quality along the way, so that more enterprises may join the green energy business together.

To fulfill our green commitment and embrace the world's green challenge, Chunghwa Telecom has adopted a "Green Enterprise, Sustainability and Innovation Strategy" with the introduction of 5G (Green): Green Operation, Green Energy, Green Stores, Green Supply Chain, and Green Procurement, aiming to address financial success, sustainability and social responsibility.



Chunghwa Telecom has set a goal to become a sustainable Green enterprise, and has made environmental issues an incorporated part of business operation and management. We hope to play a more proactive role in issues such as energy and climate change. By improving energy efficiency and exploring eco-friendly products and services, we are confident of our potential to inspire a new generation of low-carbon industries.

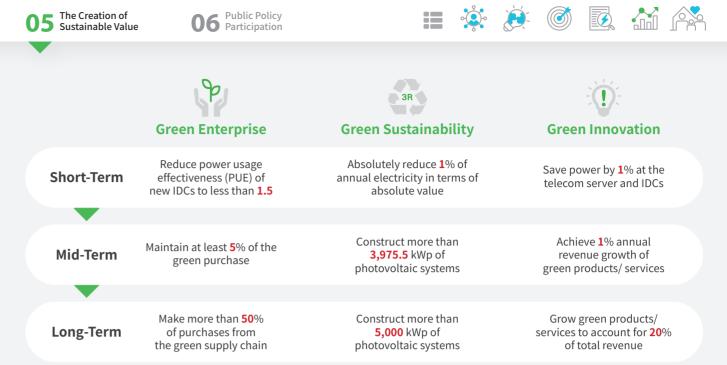
Environment ARtificer THeurgy (EARTH)

We developed the Environment ARtificer THeurgy (EARTH) system in 2008 to manage resources and protect the environment more efficiently as well as to reduce spending on energy consumption. EARTH system features include:

- Energy Saving and Innovation: Energy savings and innovation initiatives have been uploaded and implemented in all departments to encourage employees to learn from each other.
- Performance Evaluation: Performance evaluation is conducted systematically to encourage employees to contribute to environmental sustainability actions.
- Power Management: Request centralized payment of electricity bill; there are more than 64,710 electricity accounts and 2,918,907 units of electricity payment data under management.
- Water Management: Request centralized payment of water bill; there are more than 1,298 water accounts and 126,142 units of water payment data under management.
- Carbon Emission Management: This provides a carbon verification form and the results were greatly enhanced as 300 man-day operations.
- Fuel Management: Fuel use data for hybrid and ordinary vehicles were analyzed to improve energy efficiency and reduce carbon emission.
- Corporate Tree Planting: Document type, number, management department and location of trees. There are over 251 varieties of tree and 67,350 tree data saved in the EARTH database.
- Recycling Management: Document type, volume of recycled material and the recycling management department. We have recorded 22 types of recycling and there have been 18,188,291 entries made.

Green Environmental Hostels

Chunghwa Telecom Hostels provide accommodation for employee business or leisure travel. In response to environmental protection and personal hygiene, the hostels do not provide disposable, or consumable items or towels. They also take energy-saving measures such as solar water heating, air conditioning using heat pumps and LED lighting. 19 hostels had been certified as Environmentally Friendly Accommodation by 2020.



Ecotourism

Chunghwa Telecom hopes to provide eco-tours that are both educational and entertaining for our employees, so that they understand concepts of extreme weather, responsible tourism, respect for nature and the rights of local residents. We hold regular company eco-tours with the hopes of incorporating environmental education into traveling and daily life. We held 102 tours in 2020, costing a total of NT\$54,283 thousand with 15,209 participants.

Environmental Management Expenses

Item	2018	2019	2020
Environmental management expense (NT\$ thousand)	319,637	328,558	329,126
Accounted percentage of turnover (%)	0.15	0.16	0.16

Building the First Solar-powered Parking Lot in Response to the Green Energy Policy

In response to the government's green energy policy and the realization of Nuclear-free Homeland by 2025, Chunghwa Telecom acted in accordance with the "2020 Photovoltaic 6.5GW Compliance Plan" in the photovoltaic promotion plans for energy transition of MOEA, building the first solar-powered parking lot with the features of power generation and car park in the Yunlin Technology-based Industrial Park. Generating 575,000 kWh of green energy per year, it effectively reduces the CO₂ emissions by 293 tonnes, which is equivalent to the effect of 30 hectares of afforestation. A total of 200 parking spaces are offered to the employees working in the adjacent businesses and meet the demands for parking in the Industrial Park. It comes with the advantages of environmental protection and long-term investment returns. In the future, we shall introduce intelligent parking management equipment and solar-powered LED guidance lights for parking in succession in order to build a significant landmark in the Industrial Park.

Sustainability Risks and Opportunities

5 The Creation of Sustainable Value

The Most Eco-friendly Data Center in the Greater China – Bangiao IDC

The Bangiao IDC of Chunghwa Telecom is the first world-class data center in Taiwan that is certified as TIA-942 Rated-3 and Rated-4. Meanwhile, it acquired certifications and labels at home and abroad successively, including ISO 27001 and PCI DSS. With the most rigorous standards and regulations ranging from architecture to electricity, machinery, telecommunication, and information security of IDC in place, we ensure a sustainable operation of the data center. To effectively reduce the risks in IDC maintenance and raise the confidence of customers, it successfully obtained Uptime Institute's Management and Operations (M&O) Stamp of Approval in 2020, which made it the first professional IDC in Taiwan that secured the M&O certification. It also acquired the SOC certification in the same year, signaling that we have lived up to the international standards in the sustainable data center maintenance and management.

Water Resource Management

Water usage at Chunghwa Telecom is mostly domestic. Apart from bathroom use, air conditioner cooling accounts for another major water use. Given the ongoing increase in business activities and manpower, there is limited room for water reduction besides the recovery of rainwater and cooling water. We benchmarked the 2012 water usage as the standard, and now control the annual growth of water usage to no more than 2%. In addition to a new water leakage detection feature in products, we have also included Company water consumption in the EARTH system. Centralized water bill payment is done through the EARTH water bill management function to reduce the printing of water bills. Managers can use the system to search, generate trend charts and report forms, and provide exception reports to avoid mistakes in billing and meter reading. Managers can also review the situation of water usage according to trend charts and reports, reduce expenses in water, and improve the efficiency of management. The management and analysis information interface can be used to promote water conservation measures and set concrete management goals. We also promote water-saving measures to increase efficiency in water use:

- Install sink faucet sprayers to reduce waste
- · Install dual flush toilets to reduce waste
- Use collected rainwater for watering office plants
- standard

To enhance the effectiveness of water recycling and reuse, we have set up raft foundation water collection systems underground to collect clean rainwater from rooftops and the ground surface. We have also initiated the recycling of cooled and condensed water from office air-conditioners and promoted a recycling and reuse plan for rainwater, bathwater and air conditioner water. The recycled water is reused for watering plants and cleaning sidewalks, being utilized to its fullest extent.

Year 2018 Tap Water 753,023		2019
Tap Water	753,023	691,954
Recycled water	1,624,419	1,590,716
Recycled water	7,398	3,776

Starting from 2018, the amount of resource and energy consumed by Honghwa International in its rented areas are excluded.

(2G)	Green Energy
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In response to the climate change, Taiwan has planned to raise the ratio of renewable energy from 6% in 2017 to 20% by 2025 so as to reduce CO_2 emissions. Chunghwa Telecom has been positively supporting the government policy and applying its extensive ICT background knowledge in the construction of solar power stations. By the end of 2020, the Company had 55 solar power stations around Taiwan with a total capacity of 2,783.665 kWp. Unit: 10.000 kWh

				01111. 10,000 KW
Item	2007	2018	2019	2020
Total Electricity Consumption (A)	135,180	137,191	135,066	135,350
General Consumption (B)	9,420	106,264	103,338	102,684
Business Consumption – Meter Rate Lighting Service (C)	125,151	24,107	25,497	26,784
Business Consumption – Flat Rate Lighting Service (D)	609	6,819	6,231	5,883
Business Consumption Increment (E)	NA	3,182	802	938
Business Consumption Increment Rate (F)	NA	2.32%	0.59%	0.69%

1. B: office buildings and employee dormitories; C: base stations, depot, and public telephone, which are not CHT-owned property.

2, A=B+C+D, General consumption mainly includes the power consumption of office building. Business consumption increment includes flat and meter rate lighting service.

3. E=Business consumption this year - Business consumption last year; F=E/A

4. This table presents electricity consumption with customer ID, other consumption without customer ID is covered by greenhouse gas inventory.

Energy Savings for Data Centers

Chunghwa Telecom places great emphasis on the energy efficiency of our data centers, and is currently implementing energy conservation measures for telecom facility centers (including IDCs). The efficient application of our proprietary iEN smart energy management system and Power Operation Supervisory System (POSS) for IDCs are our scientific approach to reducing energy, carbon emission and protection of the environment through dynamic energy management via the Internet.

Electricity Consumption of IDCs

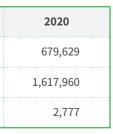
Year	2018	2019	2020
Unit: 10,000 kWh	16,440	16,600	16,576

Renewable Energy Usage in Bangiao IDC

Item	2018	2019	2020
Solar power generation (A)	95,624	100,896	104,608
Total power consumption (B)	21,411,200	24,470,132	34,446,400
Energy-saving ratio(A/[A+B])	0.44%	0.41%	0.30%



• Encourage the installation of water reclamation equipment in new buildings, so that physically separated and treated sewage water can be reused for non-potable purposes after it has reached a certain quality





Sustainability Risks and Opportunities

5 The Creation of Sustainable Value

The sole telecom operator in Taiwan that passed water footprint certification

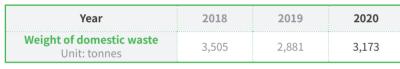
To accurately capture the water resource risks and in response to the UN SDG 6 Clean Water and Sanitation, we chose the most representative Rated 4 IDC of the Greater China region - Bangiao IDC and Cloud Data Center of Chunghwa Telecom for ISO 14046 certification on water footprint inventory and certification. As a result, it passed the verification by the SGS-Taiwan and obtained the assurance statement, making Chunghwa Telecom the sole telecom operator in Taiwan that passed water footprint certification. The benefits achieved are as follows:

- Water resource management strategy established: establishment of the SOP for organizations water footprint helps in the attainment of water resource management targets.
- Enterprise water usage management enhanced: the water usage distribution in the enterprise is captured effectively via water footprint inventory in order to create a complete water resource management system and stipulate proper measures to achieve the target of water conservation.



Waste Management

Chunghwa Telecom understands the importance of resources reduction, recycling and reuse and has combined related reduction plans into the EARTH system. This is used to manage the use of resources and control energy efficiency, as well as to conduct systematic management of recyclables and waste treatment. We contracted a professional waste treatment company to transport our daily waste to landfills or incinerators for disposal. Recyclable waste is handled by a contracted cleaning company that is responsible for classification, treatment and proper disposal.





Starting from 2018, the amount of resource and energy consumed by Honghwa International in its rented areas are excluded

Industrial Waste

Scrapped lead-acid batteries are recyclable industrial waste regulated by the EPA. Business organizations are responsible for the reduction of pollution, disposal of toxic substances and simple waste disposal. All recycling and disposal operations are outsourced by joint contract based on the public auction. The contractor must be a qualified service provider listed on the website of the Recycling Fund Management Board of the EPA to ensure legitimate management and disposal.

Scrapped lead-acid batteries from each business unit are auctioned on site, and the Announcement and Delivery Slip for Removal and Disposal of Waste Lead-Acid Batteries is retained for reference. A total of 34,148 leadacid batteries with a total weight of 1,630,201 kg were scrapped and sold for NT\$31,143,557 in 2020. In fulfilling our responsibility for environmental protection, we also increased Company revenue. The public and private waste clearance and disposal companies recognized by environmental institutions are designated to handle the treatment of other industrial waste such as cables and miscellaneous hardware.

ltem	Unit		Amount		Dispos	al Fee (NT\$ th	ousand)
	onic	2018	2019	2020	2018	2019	2020
Plastic-filled Cable		290	126	347			
Ordinary Cable	Metric ton	1,348	1,152	1,504	227 400	191,223	369,766
Miscellaneous Hardware		1,350	703	1,329			
Batteries	Piece	27,194	33,332	11,908			

3G Green Stores

Chunghwa Telecom is a highly-localized telecom carrier, a generous contributor to community development, and one of the most important partners to other telecom carriers around the world. As technologies progressed and improved, we began some operations that were outside the conventional telecom boundaries, corporate social responsibility concepts were introduced into products and services research, development, applications, and into the Company management strategies.

Green Revenue

In addition to developing products friendly to the environment, we have been promoting Green Stores and were the first telecom carrier in Taiwan to fully turn service centers into Green Stores. In 2020, green revenue was NT\$ 361 million, which was 16.3% of the commercial products revenue.

Paperless Receipt Service

We have been promoting electronic billing since 2001, and reduce carbon emission by eliminating the use of paper bills. In 2017, we offered paperless receipt service. At the end of 2020, the percentage of paperless receipts exceeded 71%. The service saved 590 million sheets of paper and an estimated 53,673 trees, reducing carbon emission by 10,627 metric tons.

ltem	2018	2019	2020
Customer applying for e-bills (10 thousand)	1,869	1,933	1,968
Ratio of customers applying for e-bills	68%	70%	71%
Quantity of paper saved (per 1,000 sheets)	560,700	579,946	590,000
Number of trees saved	50,973	52,722	53,673
Reduction of carbon emission volume (metric ton)	10,093	10,439	10,627

1. The data of paper saved and reduction of carbon emission is by e-bills (including SMS) and combined bills. 2. Each e-bill reducing the use of envelopes and paper are 2.5 sheets of A4 paper. Total amount of paper saved: number customers applying for e-bill × 2.5 × 12 (month).

3.1 sheet of A4 paper generates 18 grams of CO,; Carbon emission reduced: number of paper saved (1,000 sheets) ×18 grams. 4. The number of trees saved: each ton of paper pulp produced=20 trees; one ton of paper pulp=220 thousand sheets of A4 paper. Therefore, the number of trees saved = number of papers saved \div 220 thousand \times 20.

The Sole Net-zero Carbon Emission Store in The Industry of Taiwan

We became the first telecom service provider in Taiwan that obtained carbon label for service center with our "CHT Syntrend Store", which is also the only store with zero emission in the industry!

It passed the certifications of and reviews by standards at home and abroad (ISO 14067 and the Carbon Label of Taiwan EPA) and purchased 50 tons of carbon right, securing the carbon neutrality certification PAS 2060 and achieving the standard of zero carbon emission.

We have connected tightly eco-friendliness and green energy with network services. While offering premium services to the general public, we further aim to achieve a green communication with our consumers for them to capture the ecofriendliness and low-carbon nature in products and services precisely. As such, we live up to our corporate philosophy' "Always Ahead".







04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

(4G) Green Supply Chain

The responsibilities and mission of Chunghwa Telecom, as the leader of the telecom industry, are Green of ICT and Green by ICT. This implies facilitation of the greenness of the ICT industry (Green of ICT) and overall greenness of society through ICT (Green by ICT). From 2008 onwards, Chunghwa Telecom developed measures year by year to improve the sustainability of the supply chain, and we accomplished two pioneering achievements:

- We were the first telecom company to propose the "Sustainable Supply Chain Initiative" Effectively connecting with internationally prominent sustainability organizations and partners, also connecting the supply chain to respond to the United Nations Sustainable Development Goals (SDGs).
- We were the first in the industry to join the "CDP Supply Chain Project" We invited 67 suppliers to participate in an international platform to submit carbon management information and improve their ability in managing carbon emissions with scientific and quantification mechanisms.





Chunghwa Telecom supports government policy and prepares annual budgets for the purchase of green products that are either environmental-certified (less polluting, recyclable, resource-saving or green building material) or self-declared to be of less environmental impact throughout the product lifecycle (from raw material to disposal). The Company also actively participates in green procurement programs and activities to inspire green purchases amongst others in the industry and the public.

Our goals and policies concerning green procurement, as we hope to maintain green purchases at more than 5% of the total purchases per year over the mid-term, and increase this percentage to more than 50% over the long term. To achieve this goal, we incorporated the ISO 20400 Sustainable Procurement Standard at the end of 2018. The implementation of the ISO management system helped reinforce the idea of green procurement.

Year	2018	2019	2020
Green procurement total (NT\$ million)	1,487	1,024	904
Accounted percentage of total procurement	3.36 %	2.47%	1.08%

For more information about Green Supply Chain and Green Procurement, please refer to P.112-117



2020 Environmental Performance

Description
osed environmental data to respond to the Dow Jones
nouse gas inventory and acquisition of ISO 14064-1
Disclosure Project (CDP) questionnaire ing questionnaires (including Common Wealth Magazine, n Corporate Sustainability Award) ask Force on Climate-related Financial Disclosures (TCFD) formation in line with the TCFD Framework eck" as the first telecom operator in the world
r spaces ted energy saving with 90 HP inverter module, sensible 495 highly efficient air conditioners, 90 RT ventilation air tilation air conditioners by the end of 2020 onstructed data centers and buildings and condensed cooling water recycling systems for the
eas and internal office buildings with environmentally
notovoltaic systems by the end of 2020 Energy Certificate
aiwan: Banqiao IDC passed ISO 14046 certification onmentally friendly ones, and used electric vehicles in
the YouBike station at the corner of Xinyi Road and
y-saving offices, car-free days, and paperless Office DDAS) n Patrol: focus on increasing energy efficiency within
nd vulnerable social institutions g targets
aiwan: net-zero emission Syntrend store acquired both ces domestically as well as the ISO 14067 and PAS 2060
g section a were prepared for permanent cloud storage to save receive preferential tax treatment as an incentive and ernment
s and promotion of energy-saving products bins are available at all service centers in line with the
vice centers nationwide into Green Stores ble Alliance for Low-carbon Economy (SALcE) to issue ducts, services, and organizations) Certificate

54 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation



CHT's Sustainable Supply Chain Initiative –Sustainable Partner Certification

Chunghwa Telecom upholds its company motto and its mission as a Digital Economy Motivator and a Creative Industry Pilot, formally adopting the ISO 20400 Sustainable Procurement Standard in 2018. With that, it evaluates its suppliers' sustainability performance with the sustainable framework.

We launched "Sustainable Partner Certification" mechanism in 2019. We examine suppliers by SGS second party audit results as well as their type and level of importance, and rate them as 4 tiers of "Gold, Silver, Bronze and Participation" accordingly. If a supplier fails to pass the certification process, it is granted a limited period of time to implement corrective measures. Rated suppliers shall receive a mark that corresponds to their rating, and an excellent mark will be seen as a favorable term when submitting a tender.

We hope to compile a "Chunghwa Telecom Sustainable Supply Chain" list through evaluation, training, audit and certification; we'd also like to lead our suppliers toward a sustainable future, improve the sustainability of telecom companies, business, and society as a whole, as well as keep abreast with the international trends of low-carbon economy.

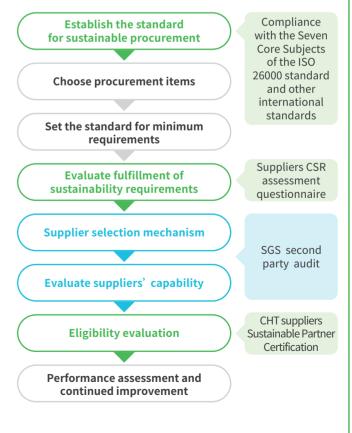
Sustainable Supply Chain

Every year Chunghwa Telecom purchases the software, hardware and services necessary for operations from international and domestic suppliers. This includes networking and data equipment, cables, marketing, design and waste disposal services. Our enormous purchasing power gives us a profound influence over the supply chain,hence the responsibility to guide our suppliers in the fulfillment of their CSR. This is achieved by implementing conduct that complies with the international supply chain ESG standards to guide the ICT industry towards sustainability.

We were the first telecom enterprise in Taiwan to join the CDP Supply Chain Project in 2017 when the industry was confronted by the critical issues of global climate change and its effect on corporate development. In 2018, we again became the first telecom company to incorporate the ISO 20400 Sustainable Procurement Standard. We strive to establish a better connection to the world on our path towards the development of sustainability. We officially launched Sustainable Partner Certification mechanism in 2019. A total of 16 sustainable suppliers have been awarded with Gold-tier certificates as of 2020.

From earlier on we have encouraged suppliers to disclose their carbon emissions and reduce them gradually. We plan to incorporate low-carbon emissions into our tender regulations: only groups with carbon emissions under a certain level can participate in our tendering process. Through sustainable planning, supplier evaluation and a green supply chain constructed on a hierarchical management system, we hope to achieve the following goals of sustainability: environmental protection, effective operations and management, robust labor rights, as well as safety and health. We were presented with "Certificate of Excellence in Sustainable Supply Chain" by SALCE in recognition of our implementation of supply chain management mechanism in 2020.





Sustainability Risks and Opportunities

Supply Chain ESG Management Strategy

Strategy	Management Target	2020 Results
Integrate ESG Principles to Chunghwa telecom supplier assessment	Complete 100% of "tier 1 suppliers" CSR current status assessment in 2020	100% of suppliers completed the CSR survey questionnaire
Ensure ESG conduct of the suppliers complies with "Code of Corporate Social Responsibility for Suppliers of Chunghwa Telecom Co., Ltd."	Complete 100% of "critical tier 1 suppliers" ESG on-site visits and audits in 2023	CSR on-site visits and audit rate reached 71%
Continue communication activities to promote supplier climate change adaptation measures and emissions data management	 Complete 100% of "critical tier 1 suppliers" carbon management knowledge education in 2020 Collect information on climate change and carbon emission from suppliers at least once a year. The number of suppliers who respond to Chunghwa Telecom's CDP Supply Chain Project questionnaire reaches 200 	 The first Taiwan telecom carrier to participate in the CDP Supply Chain Project The suppliers' response rate to the questionnaire was 87.58%

The Chunghwa Telecom suppliers fall into three categories: property, labor and engineering. Apart from professional network communication equipment which is mainly purchased overseas, we buy as much from local suppliers as possible to promote local economic development. The domestic procurement percentage was 80% in 2020. Our target is to reach 96% by 2023.

Suppliers Analysis

Item	Number of Suppliers	Accounted Percentage of Turnover
Tier 1 Suppliers	2,078	99.16%
Critical tier 1 suppliers	192	85.61%
Critical non-tier 1 suppliers	28	

- 1. Tier 1 suppliers are those that provide products or services directly to Chunghwa Telecom with an annual procurement of \geq NT\$100 thousand.
- 2. Critical tier 1 suppliers are those that provide products or services directly to Chunghwa Telecom with an annual procurement of \geq NT\$50 million.
- 3. Critical non-tier 1 suppliers are those that provide critical products and services to CHT tier 1 suppliers, but are not CHT tier 1 suppliers.

ESG Capacity Promotion of Suppliers

In 2020, aside from the existing Annual CSR Supplier Conference and environmental education visits, we organized the first CSR education and training for suppliers, inviting 70 representatives from nearly 50 suppliers to Chunghwa Telecom. Apart from the ESG lecturers internally, we also invited professional ESG consultants to offer a 4-hour ESG program. With the education and training, we expected to communicate to the suppliers our commitment to the sustainable supply chain management and Sustainable Partner Certification system, so as to collectively bridge the supply chains of telecom industry to the international trend of sustainability, which also come with the benefits in the ESG area.



05 The Creation of Sustainable Value

CSR On-Site Audits

To promote awareness of CSR and ESG management in supply chain partners, SGS-Taiwan has been granted to tier 1 supplier on-site audits since 2010 in accordance with ESG principles of supply chain of Chunghwa Telecom. Since 2019, we increased the number of suppliers for second-party audit to 20 with an additional review process. We commit ourselves to 100% completion of ESG second-party audit for our key tier 1 suppliers by 2023. To make sure all our supply chain partners will be in compliance with ESG management requirements, our goal is to complete the sustainability rating of 140 suppliers and issue the certification mark by 2025.

CHT Management Indicator	Method	Ratio
Supplier ESG auditing ratio per year	 Occupational health and safety on-site audits / engineering and cable audits 	71%
Percentage of suppliers assessed in ESG in the last 3 years	Second-party audit by the SGS-TaiwanCritical non-tier-1 suppliers audits	29 %

Overview of the Supply Chain ESG Management Results

Item	Description	2020 Goal	2020 Outcome	2021 Goal
Completion of Online Supplier CSR Survey	Suppliers with a procurement amount of NT\$5 million or above is liable to fill out the Supplier CSR Survey that covers items of corporate ethics, labor rights, environmental management, and occupational safety and health.	95%	100%	95%
Procurement staff that received CSR-related training	It is to ensure all CHT procurement staff understand and execute faithfully the "Code of Corporate Social Responsibility for Suppliers of Chunghwa Telecom Co., Ltd."	100%	100%	100%
Supplier contracts containing CSR-related terms	Suppliers are explicitly required to abide by the "Code of Corporate Social Responsibility for Suppliers of Chunghwa Telecom Co., Ltd." in their procurement contracts.	100%	100%	100%
"CSR self-assessment form for suppliers" included in the documentation necessary in the tendering process	Tendering documentation stipulates that all bidders to fill out CSR self-assessment form for suppliers; additional elaboration on improvement is required in the event of breach of laws or regulations by suppliers.	100%	100%	100%
Suppliers without violations against environmental protection laws	The environmental management status by suppliers is captured via online questionnaires.	100%	100%	100%
Supplier CSR second-party audit	Through second-party audit, key suppliers are ensured free from environmental and human right risks such as forced labor.	100%	100%	100%
Audits on civil engineering/ cable contractors	A total of 191 audits were carried out on 74 contractors. As of the end with incidents of violation and the fines amounted to NT\$874 thousand.		esuppliers w	ere found
On-site safety and health inspections	Occupational safety and health officers under the Northern and So and the Mobile Business Group conduct at least three on-site safety a Upon discovery of non-conformities, relevant departments will b tracking. A total of 19,716 inspections were conducted on 936 contra-	and health e notified	inspections p for correctiv	per week.

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Sustainability Risks and Opportunities

The first Taiwan telecom carrier to participate in the CDP Supply Chain **Project Connecting Low-Carbon Supply Chain**

After The Paris Agreement took effect, we entered an age of low-carbon economy. Chunghwa Telecom is a carrier in the information and communications industry, and this is a crucial issue of great urgency. We need to understand and respond to the impact of climate change and plan appropriate response strategies and actions at once.

In 2017, CHT first joined the "Carbon Disclosure Project (CDP) Supply Chain Project." We are promoting an understanding of climate change among our suppliers and will make every effort to increase their efficiency in carbon management. CHT is going to put an encouragement mechanism in place that will help suppliers with the research and development of products and services that have less impact on climate and environment. Our three goals for the supply chain carbon management are:

- 1. Increase supplier awareness and knowledge of climate change
- 2. Collect greenhouse gas emission information
- 3. Communicate and encourage changes in the behavior of suppliers

Abstract of the Results of Chunghwa Telecom's 2020 "CDP Supply Chain Project"

49% of suppliers responded to Chunghwa Telecom's questionnaire (71% globally)

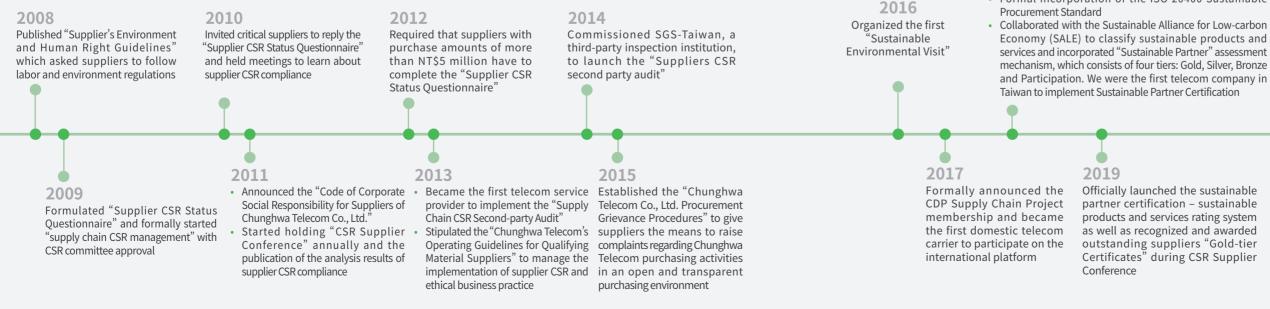
Chunghwa Telecom's supply chain reduced carbon emissions around 2,470 thousand t-CO₂e

79% of supplies incorporated climate change into long-term business strategic planning (on average 85% globally)

55% of suppliers have set

emission reduction goals







and carbon reduction measures

48% of suppliers have

taken energy-saving

61% of suppliers have established procedures for evaluating climate-related risks

The Achievements of CHT's 2020 Supplier Energy Conservation Project

Types of Projects	The Amount of Carbon Emissions Reduced (t-CO ₂ e)	Estimated Amount of Money Saved Each Year (USD)
Changes in Corporate Policies and Behaviors	230	138,916
Energy Efficiency in Buildings	1,165	5,624,859
Energy Efficiency in Manufacturing Processes	1,544	3,344,367
Low-carbon Energy Consumption	307	14,285
Self-produced Low-carbon Energy	0	232,314
Waste Reduction and Material Recycling	5	1,210
Others	0	14,751,915
Total	3,251	24,107,866

Improvement of Suppliers' Sustainable Actions

We published "Code of Corporate Social Responsibility for Suppliers of Chunghwa Telecom Co., Ltd." in 2011, and it clearly outlines the Company's expectations in terms of "business, ethics, labor, environment safety and health." The guidelines apply to all suppliers that provide products or services to Chunghwa Telecom or its subsidiaries or joint ventures, and extend to other participants of the supply chain to which the supplier is directly or indirectly related. We hope that suppliers will commit to our values and take more proactive steps towards maintaining a sustainable business ecosphere. CHT shares resources with suppliers to help them develop R&D capabilities and future technologies. We also devote ourselves to the creation of a friendly and innovative environment. We engage suppliers in R&D projects, reward their contributions, and make arrangements for the transfer of acquired technology and licenses fairly. Regarding hardware, we continue to support the development of telecom facilities and testing environments; in terms of software, we utilize open platforms to share our benefits with suppliers.

Туре	
Rewards top- performing suppliers	To reward top-performing suppliers, Chungh suppliers the privilege of tender bond waiver w to 5% of the value of the contract won. This w attention to corporate social responsibility.
Training of professional skills	Our Telecom Training Institute has been provious their requirements. Some of the popular cour quality assurance certification, and fiber opt trained 707 workers; 383 of whom had obtained

Participation in the Arena of Environmental Education Together with Suppliers in 2020 Video 📝

2018



Description

hwa Telecom conducted a trial in southern Taiwan, offering qualified when submitting tenders, as well as a reduction of the performance bond was an attempt to exert influence as an industry leader and bring more

iding suppliers with relevant training and certification courses to satisfy irses include: cabling contractor certification, telecom line construction tic contractor training. In 2020, the institute organized 38 classes and ed certification.

· Formal incorporation of the ISO 20400 Sustainable

Officially launched the sustainable partner certification – sustainable products and services rating system as well as recognized and awarded outstanding suppliers "Gold-tier Certificates" during CSR Supplier

2020

- Organization of the first ESG education and training event for suppliers
- Certifications of Excellence in Sustainable Supply Chain and of Sustainable Partner by SALcE
- Ongoing implementation of "Sustainable Partner Certification - Sustainable Products and Services Rating" with 16 suppliers rated as Gold-tier

01 Corporate Overview

Strategy

Minimize the digital divide and

create digital opportunities

Sustainability 02 Value Strategy

Material Topics 03 and Impact

Management

The LBG assessment of

investment in the community

Social Return on Investment

(SROI) calculation

Sustainability Risks 04 and Opportunities

Action

5I SDGs digital

inclusion initiative

Telecom universal service

Digital Good Neighbors

05 The Creation of Sustainable Value

Response

"I Helping"

Training volunteers for the

visually impaired

Corporate

volunteer action

"5I SDGs"

strategies and goals

06 Public Policy Participation



Short-term:

"5G Limitless Plastic Free Day" Campaign for the implementation of I Sharing and I Protecting in 2021

To support the installation of access points for large-scale national festivals or sporting events and keep on providing tourists with a high-quality internet service every year

Chunghwa Telecom "5I SDGs" Initiative

As the pilot of CSR, Chunghwa Telecom has developed its core competence to positively minimize the digital divide and devote itself to the creation of digital opportunities. Since 2015, we have chosen to connect with the 2030 Sustainable Development Goals (SDGs) of the United Nations. Through real action, we have demonstrated our determination to develop and implement global sustainability. On the basis of complete digital inclusion strategy and bridging our years of experience in social inclusion, we promoted the 5I SDGs initiative. The "5I" in the initiative, apart from being a homonym to the phrase "I Love" in Chinese, the "I" also suggests to "achieve the SDGs via ICT" that effectively connects the SDGs with the objectives of the DIGI+ locally. By expanding partnerships in collaboration with NPO/NGO, supporting the sharing of knowledge and technology resources, creating a connection between the underprivileged and other diverse groups in this digital era, and realizing a win-win situation for digital human rights and an innovative economy, technology allows us to link to the good cycle. CHT's 5I SDGs initiatives: I Helping, I Sharing, I Learning, I Technology and I Protecting, as the first real initiative in Taiwan that connects Sustainable Development Goals (SDGs) with the Digital Country Innovative Economy Development Program (DIGI+) from the Executive Yuan. The goals of the 5I SDGs are:

- 1. Embrace the world from Taiwan, officially responding and implementing the UN SDGs
- Information Equality in the networked digital era
- 3. Leverage the core functions, connect expertise across branches and corporate volunteer resources, and work with professional communities to deepen the impacts of socially inclusive actions



118

Effort to make telecom services more accessible continually and adjust the Digital Good Neighbors sites resiliently

Mid-long term:

Social investment will reach 1% of revenues by 2025

The Chunghwa Telecom Foundation funds NT\$30 million in the creation of digital opportunities in local communities

Indicator GRI

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Social investment: NT\$1.076.690 thousand



Telecom subsidy for underprivileged groups: NT\$195,855 thousand



Digital Good Neighbors: 89 locations

CHT

SROI of "Read with You": NT\$6.47

2. Respond to the objectives of the DIGI+ of the Executive Yuan, widen the scope of digital inclusion and ensure

01 Corporate Overview 02 Sustainability Value Strategy **03** Material Topics and Impact **04** Sustainability Risks and Opportunities

5 The Creation of Sustainable Value

51	I Technology	I Protecting	I Helping	I Learning	I Sharing
Corporate Volunteer	Technology Education Team	Green Service Team	Visually-impaired Service Team	Love in Learning Team	Community Service Team
Core Competence	Utilize digital technology to promote digital equality	Save energy and reduce carbon emission to treasure Earth with green actions	Assist the visually- impaired in bridging to digital technology and services	Bridging the rural- urban gap and flip education in rural areas	Promote local services as a friendly significant neighbor
Action Plan	 Cellphone expert program in service center 	 Reduce marine debris Energy-saving volunteering 	Beacon caseBlind aid courses	 Read with You CHTF's projects 	 Taiwan telecom digital collection commentating
UN SDGs		13 centre		4 enclation	9 MOSTEY INCOMEN
2030 Goals	 Cultivate 2,000 technology education volunteers Technology education services for over 5 million 	 Reduce over 10 million t-CO₂e carbon emission of suppliers Help reduce energy and carbon emissions of communities over 1 million t-CO₂e Cleaning the marine debris for over 100 t 	 Benefits over 60,000 visually impaired people in Taiwan Helping in lives and entertainment of over 200 thousand visually impaired people 	 Over 8,000 university students as tutors Schoolchildren who have been tutored for over 180,000 hours 	 Over 50,000 Corporate Volunteer Services Over 3 million communities stakeholders being helped Video of 5I SDGs 2

I Technology + I Sharing – the Stronghold for the National Critical Infrastructure Protection

"National CIP Designated Exercise for Critical Infrastructure" led by the Executive Yuan is one of the highest level of national exercise, Chunghwa Telecom constantly evolves its technology and has been designated by the Executive Yuan to organize the Designated Exercise for six years in a row. With multifaceted cyber resources and meticulous response capability against disasters combined, CHT was awarded the collective honor of "Outstanding Entity" in 2020. Also, in light of the proper commanding and coordinating performance of our President Shui-Yi Kuo, which were highly recognized by the assessors, President Kuo was presented with the honor of "Best Commander".



Our core expertise span from mobile, fixed line, submarine communication cable, and data to the emerging technological energies like AI big data, cybersecurity, and blockchain, which fall into the "communications" area of the national critical infrastructure. The exercise went for more than 7 months. We joined hands with 26 external response entities and realized a highly efficient horizontal communication. Targeting complex scenarios such as natural disasters, cybersecurity, man-made terrorism, we deployed overall contingency plans that fully demonstrated our resiliency in fighting and responding to disasters. As such, we successfully pulled off the contingency exercise that covered the widest in terms of disaster types and entity number while mobilized the most manpower over the years, and thus received the highest national recognition.

We shall continue to better the protections for various critical infrastructure, work closely with the public and private sectors to form joint defenses to ensure the business continuity of enterprises and the smooth communication and management of the country.

I Helping + I Learning – Helping the visually-impaired to see museum

Chunghwa Telecom works with the Tamkang University Resource Center for the Visually Impaired, to live up to the spirit of the Convention on the Rights of Persons with Disabilities (CRPD), proactively exercising the digital and cultural equality. In 2020, we donated the computers for the blind we developed together over the past 3 decades to the National Science and Technology Museum to establish "Telecom@Taiwan", the first exhibition with the guiding service for the visually impaired permanently available to facilitate the visually-impaired visitors to "see" the works of science and technology. "I Helping"of Chunghwa Telecom utilizes the smart information communication technology to develop"the integrated solution of in-depth museum tour for the visually impaired", so that the visually impaired may listen to the information of exhibits via "Voice-based Personal Assistance App" before the tour. Combined with the QR Code on site for introduction, the braille system, push messages, and professional tour guides, one can gain knowledge of his/her surrounding environments via text and images. Also, corporate volunteers "exclusive to individual" are recruited and trained. "I Learning" – an effective, appropriate companion for the visually impaired to enjoy the tours to the National Science and Technology Museum and the National Museum of Natural Science throughout to explore the mysteries with biology and technology in depth.

"I Helping" and "I Learning" of Chunghwa Telecom bridges the cultural lag via intelligent technology, helping the visually impaired to learn, expand their living sphere, and cultivate expertise. It aims to present a decent example to bring out more applications that follow, so as to fulfill the Goal 9 "Industry, Innovation and Infrastructure" and Goal 10 "Reduced Inequalities" in the UN Sustainable Development Goals (SDGs). The popular science tours in 2020 benefited 42 visually-impaired individuals with 115 corporate volunteers involved.



04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

	Description of CHT's regresses to the UNICPCs		Description of CHT's
UN SDGS 1 poverty M*#####	 Description of CHT's responses to the UN SDGs To bridge the gap of communication and information quality between the rural and urban areas, we go into the mountains and offshore islands to construct 4G cell sites. In response to the objectives of Digital Nation & Innovative Economy Development Program and Forward-looking Infrastructure Development Program - Digital Infrastructure, actions are taken as the testimony to CHT's capacity in social inclusiveness. Over NT\$400 million is allocated to construction and maintenance of universal telecommunication service to realize 4G in every town and village and 100% coverage in towns and villages in an endeavor to fulfill the visions of promote social innovation and information equality and realize the win-win of digital human rights and innovative economy. Responding to SDG 1 with actions to ensure that all, the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services. 	UN SDGS	 We proactively monitor and protect human rights issue (anti-discrimin-forced or compulsory labor, and aboriginal rights etc.). We respond to the forms of discrimination. We prohibit forced and child labor, and also respond to the domestic legaliz Covenant on Economic, Social, and Cultural Rights, dedicating to promotel On digital equality issue, CHT is a member of the International Telecom freedom of communication, transparency in global roaming charges ar persons with disabilities and the freedom of speech over telecom netw Rights by conducting a human rights issue in the operational value chain
2 ZERO HUNGER	 CHT develops AI agricultural analysis model. Agricultural sensors are deployed for catering to the needs of farmland to collect data of growth environment and weather for compilation and analysis to produce forecast of the farmland's conditions in the following days. Also, the data is uploaded to a smart agriculture cloud platform via NB-IoT technology, with which farmers can arrange their farming schedule accordingly. Through NB-IoT technology, technology is introduced to agriculture, analyzing key environmental monitoring parameters of produce. The optimum environment for produce's growth is built and risks of agricultural disaster are reduced via forecast of the future tendency of data changes, which facilitate the improvement of yield and quality of produce and achieve the goal of a smart quality agriculture. 		 Following the development of IoT, 5G, big data analysis, and AI, as assist Taiwan in constructing smart sustainable cities via smart soluti Utilization of Intelligent Operation Center (IOC) on the foundation of Local governments can integrate individual systems of different intelligent, systematic, and visual fashion, gain information of appea and construct sustainable, safe, health cities with the IOC platform. The first edition of CSR/ESG report was released in 2007 and has b
3 GOOD HEALTH AND WELL-BEING	 As the first telecom service provider that introduced OHSAS 18001 and TOSHMS as well as obtained certification of ISO 45001 – occupational health and safety management systems, CHT implements the management of its employees safety and health in an institutionalized and systematic manner. Health checkup for employees is conducted annually, together with Employee Assistance Programs, health lectures, hiking, tours, and sports competition for employees; professional medical doctors and health managers are invited to offer health advisory to employees, so as to build well-rounded caring measures for employees. The Mobile management tool eSafe Wizard app for occupational safety and health developed to allow personnel to manage the operation on-site via cellphone introduces cloud, paperless, real-time, and effectiveness into the safety and health management. 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	 consecutively. A green procurement strategy is fully implemented with over NT\$90 procurement amount in 2020. We took the initiative of supplier CSR management actions in 2008, supply chain in Taiwan. From Code of Corporate Social Responsibility to questionnaire sur audits of over 100 suppliers in cooperation with the SGS, we improve Through accumulation of a decade, apart from introduction of IS
4 QUALITY EDUCATION	 Read with You Network tutoring program has been promoted joint forces with Fu Jen Catholic University since 2009, assisting disadvantaged students in primary and middle school students in the rural areas in their schoolwork while keeping the students company for their psychological need for companionship, which substantially facilitate school children in the rural areas in overcoming rural-urban gap and flipping their lives. CHT Digital Good Neighbor program executed for over a decade set up digital centers in 89 towns and villages across the country to promote digital applications joint forces with CHT, CHT Foundation, and local organizations and teams. CHT's ICT expertise is fully leveraged to assist local organizations in rural areas or in need to establish a stable network environment and ensure the rights to digital technology in local community. 	13 CLIMATE ACTION	 implemented in 2019, realizing the idea of sustainability in our produgreen business opportunities. The dedicated Environmental Sustainability Task Force has been est sustainable development goals and incorporation of issues of carbor In 2008, we introduced ISO 14064-1 greenhouse gases management sites and pass the SGS certification each year, and the standard was of We further connect to the external supply chains to promote susta compared parts in 2016.
5 GENDER EQUALITY	 We value right to work and gender equality; the pay to female employees, management level or not, is equal to that of a male employee. Directions for Chunghwa Telecom Sexual Harassment Prevention and Grievance Management has been stipulated to put the Act of Gender Equality in Employment into practice. Appeal Review Committee has been established to handle appeals concerning discrimination against employees and other inappropriate conducts. There are 5 members on the committee, including 3 female members, which is over a half of the seats. 		 services. Since 2016, approximately 100 supplier partners are led to elevate their environmental protection awareness every year. We joined the CDP in 2018, promote whole supply chain carbon may responded to the initiative of Task Force on Climate-Related Financia We became the first telecom operator in the world that passed B financial disclosures" with the highest level attained.
6 CLEAN WATER AND SANITATION	 Our water usage is primarily domestic purpose; apart from water for washing, water for cooling air-conditioning accounts for the majority of water usage. The water resource management nationwide is included in the EARTH system of CHT's own device, as the innovative water bill management in the system can achieve a centralized management of water bills and water usage throughout the branches in Taiwan with ease that not only reduces the waste of water bill printing, but also analyzes and controls the consumption of water resource via big data. In 2019, the water footprint inventory for the IDC at Banqiao introduce ISO 14046 water footprint standard and having obtained the assurance statement upon passing the SGS certification. Through the water footprint inventory of the IDC, the water usage and water pollution throughout the life cycle of the IDC are taken into consideration to identify the environmental risks concerning water resource and as the critical reference to the planning for water management policy and measures 	14 LIFE BELOW WATER TO UFF IS UFF IN LAND	 In response to "Changhua County Joint Beach Cleanup Activity" in 2 of general wastes and recycle 5,600 kgs of resources to contribute to a We worked with Dr. Jane Goodall in 2006 and formed an alliance to proposed the Jane Goodall Institute in planning, producing, and public
7 AFFORDABLE AND CLEAN ENRERY	 in the future. Renewable energy has been actively developed to bridge ourselves to green energy. As of the end of 2020, CHT has installed solar PV systems throughout Taiwan with a total capacity of 2,783.665 kWp. Marching into the green energy industry, we assisted to build the solar power stations. Undertook solar power plant construction projects of Taiwan Cement subsidiary and Taipower respectively, the previous one is the largest construction project of solar power plant commissioned by the private sector. 	16 PEACE. JUSTICE AND STRONG INSTITUTIONS	 "Sustainable Environmental Education" initiative, firstly created in 2016 "Sustainable Environmental Visit" training in 2020. To ensure that all employees engage operation activities with the h Best Practice Principles, Code of Ethics, and Procedures for Ethical responsibilities when employees engage business conducts while integrity. Guidelines for Personnel Evaluation and Standards Governing the A been stipulated for personnel evaluation; rewards and disciplines
8 DECENT WORK AND ECONOMIC GROWTH	 CHT is the only telecom carrier with a labor union established and a collective bargaining agreement with it. The agreement covers issues pertaining to layoff, reward/punishment, promotion, health and safety, etc. In 2020, the employees covered by the agreement reached 99.26%. Meanwhile, a labor director is appointed to sit on the Board of Directors to voice the needs of employees to the top level. Complete education, reasonable remuneration, and a dignified environment allow our employees to commit themselves at work and reduce turnover rate. In 2011, EYE Social Innovative Call Center was established and the first comprehensive solution in Taiwan was released, training the visually-impaired individuals into call center personnel and offering work opportunities. 		 worthy of rewards and conducts to be disciplined. Safe and rigorous whistleblowing mechanism is established; the emp Certification of Conformity to Code of Conduct by an external third pa We connect organizations, global and local, with the corporate resou rural areas, and disadvantaged stakeholders, so as to create a digitall Since 1988, we have been working with the Center of Resources for the visually-impaired with telecom technologies and development of
9 ROUSTRY INNOVATION ANDINFRASTRUCTURE	 High-speed broadband network is deployed continuously to improve the network speed for clients; ultra-speed broadband network of 1Gbps is being deployed pursuant to the DIGI+ of the Executive Yuan, which is expected to reach a 90% coverage by 2020 to meet the demands from the video streaming services in the age of digital convergence. Upholding the spirit of digital equality, we are actively deploying mobile network in rural areas and improving network infrastructure and communication coverage in the rural areas in addition to being the No. 1 in the number of cell sites both across Taiwan and of counties/cities deployed; the mobile broadband coverage in the rural areas is above 97.58%. 	17 PARTNERSHIPS FOR THE GOALS	 Since 2009, we have been promoting Read with You network tutoring with networks to offer schoolchildren in rural areas a hand on their so Since 2015, working with the NTU Hackathon and establishing the produce innovative solutions. To facilitate the economic autonomy of community industries, CHT F Company, Indi-Power Social Enterprise, and Kanner Foundation of on the CHT Employee Purchase Net for our fellow employees to j sustainability. Also, the Children Are Us bakery was set up on the Community on the Community of the community of the community.

HT's responses to the UN SDGs

crimination, gender equality, freedom of association, collective bargaining, child labor, d to the UN Declaration of Human Rights and the ILO Convention on the elimination of all

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c legalization of UN International Covenant on Civil and Political Rights and the International proote human rights awareness and assure respect and fair treatment to all stakeholders.

elecom Union and we fully comply with International Radio Regulations and assure the rges and competition, support of Telecoms in developing nations, telecom services for n networks. In addition, we support the UN Guiding Principles on Business and Human e chain is evaluated and we maintain all risk at a minimum level.

AI, as the Leader in Smart Living and Agent of Digital Economy Empowerment, we toolutions.

ion of technologies such as IoT is at the core of a smart city.

erent departments, collect and analyze municipal information, present it in an appeals from citizens, air quality, fire disasters, traffic safety, and medical resources, orm.

has been disclosing the non-financial information of the corporation for 14 years

NT\$904 million of green procurement amount and accounting for 1.1% in the total

2008, which made us the first telecom carrier that promotes CSR management for

ire survey, annual CSR Supplier Conference, sustainability education, and on-site aprove the sustainability capacity of our supplier partners step by step.

n of ISO 20400 sustainable procurement guidance, sustainable rating label was products and services while maximizing the influence of procurement to create new

en established under the CSR Committee, tasked with stipulation of environmental carbon management in the operation plan.

ement system to inventory the carbon emissions with over 1,800 buildings and cell was offically converted to ISO 14064-1:2018 in 2020.

e sustainable, low-carbon supply chain practices and develop green products and led to environmental education venue to engage carbon management training to

on management actions, and are the first telecom carrier in Taiwan that signed and nancial Disclosures (TCFD).

sed BSI's "conformity check for the TCFD Recommendations on climate-related

y" in 2020, a total of 60 corporate volunteers joined the effort to clean up 14,100 kgs ute to the cause of "Protect the Ocean; Love the Planet".

ce to participate and care for environmental education and conservation issues and publishing the "Roots & Shoots Environmental Education Newsletter for Children." n 2016, we take 126 supplier partners to the environmental education venue to engage

n the highest ethical standards, we have stipulated Ethical Corporate Management Ethical Management and Guidelines for Conduct to lay out the required ethics and while comprehensively promote and deepen the corporate culture of ethics and

g the Administrative Rewards and Discipline of Chunghwa Telecom Personnel have plines are to be given in a timely manner pursuant to the regulations upon deeds

ne employee grievance hotline is made available in the Employee Section on the EIP. hird party is conducted as of 2020.

resources and core competences to serve specific stakeholders, stakeholders in the digitally inclusive society.

es for Visual Impairment of Tamkang University and dedicating ourselves to aiding nent of a voice-based assistance app for the convenience of their lives.

Itoring for over a decade joint forces with Fu Jen Catholic University, replacing roads their schoolwork.

ng the network environment in the venue for the participants to retrieve data to

CHT Foundation has been working with social enterprises like Xizhou Water Farmer tion of Taiwan, putting the produce and products of the indigenous communities es to jointly support the community-based industries while promote the idea of ne Company to increase its channels with real actions.



360 Degree of Digital Inclusion Actions

Chunghwa Telecom focuses its social investment in minimizing the digital divide and the creating of digital opportunities, given the specific nature and the core competence of information and communication in the ICT industry. We also spare no effort in the advocacy of corporate volunteers to participate in local community services, and proactively assist the communities in creating digital opportunities. We promote all aspects of digital inclusion using 360-degree vision.

In 2020, Chunghwa Telecom established 27 sites for accessibility to telecom services in long-term support of a government initiative to protect fundamental rights to communications.

Chunghwa Telecom Digital Inclusion Strategy 2020 Results

Minimize the Digital Divide

Chunghwa Telecom Foundation Digital Good Neighbors

The Digital Good Neighbors were located in 89 places

The annual investment of Telecom universal service is approximately 4.9 hundred million

- Telephone services for more than **220,000** homes in **86** rural communities in Taiwan
- Data communication service for more than 120,000 households
- Data connection service for more than 600 high schools, primary schools, and public libraries.
- More than 36,000 public telephones installed across 22 counties/cities

Preferential subsidies for

the disadvantaged groups

 Care for 77,398 households of the disadvantaged groups, with subsidies amounting to NT\$195,855 thousand

Equipment supports for major events

- Broadband circuit, MOD platform promotion, mobile base station vehicles, SMS, Wi-Fi AP, temporary data circuit
- The coverage rate of the 12Mbps popularization broadband service is over 97.58%

Create Digital Opportunities

Chunghwa Telecom Foundation Click Taiwan

 The 12th Click Taiwan: totaling 58 school students went deep into 29 different villages

The CHT Digital Innovative Application Series

 The CHT Digital Innovative Application Series has been running for 13 years to promote digital development in Taiwan

PC education Network tutoring

- Read with You Community Network Tutoring has tutored near 3,152 students over 12 years and the tutorial hours has now reached 97,105
- iPhone usage training courses for the visually impaired were regularly held in support of the visually impaired assistance plan

Assistance application development / Employment

- App for the Visually Impaired has been viewed over 20 million times since 2013
- We established the EYE Social Innovative Call Center where the visually impaired can become paid service personnel and earn their own living

Social Investment Management

Chunghwa Telecom refers to the community investment evaluation mechanism of the LBG (London Benchmark Group), to conduct evaluations on the possible community benefits and business benefits before an investment made. The quantification of the contribution of social investment allows us to make reasonable resources allocation while avoiding repetition. It helps the decision-making and promotion of charities as well as future sponsorship.

Minimizing the Digital Divide

Chunghwa Telecom Foundation was founded in 2006. Through long-term cultivation of our core competence to communities, tribes, urban fringe, and areas with relatively lack of resources, the Foundation is a resource platform for connecting and arranging the good material, and further share to needed locations. It has become the strength that supports and assists the advancement of these local areas.

Chunghwa Telecom Foundation Cultivates and Works with Communities for the Common Good

Chunghwa Telecom and Chunghwa Telecom Foundation have joined hands cultivating communities for 13 years, establishing digital good neighbors across Taiwan to bridge the rural-urban gaps in resources, serve as the platform to connect resources, offer resources such as community digital learning, youth volunteering, sports/cultural/art activities, and local industries promotion, as well as discover moving stories and local industries unique to local communities.

Today, the partnering bases have been set up across all corners of Taiwan Island and offshore islands, covering ethnic groups of Minnan, Hakka, indigenous peoples, and the new immigrants. With the unity and connection of good neighbors, we expect a variety of residents different in ethnicity and ages can all gain opportunities and energy from them while bridging the gap between cities and towns/villages in resources.

${\bf Click \ Taiwan-Service \ Learning \ for \ Youth \ in \ Universities \ and \ Colleges}$

Since 2009, Chunghwa Telecom Foundation accepts applications from youth in college with 2 people in a group. The students are required to have a prior knowledge of the needs in the community, combine their expertise, design, and implement services catered to the local needs, while documenting the processes in texts and images. In 2020, students from 31 departments across 16 universities, total 29 groups carried out services in communities with the respective expertise and talents like planning activities of poetry composition and reciting, GPS hometown treasure-hunting game, painting hometown as well as courses like reading, laws, baking, play writing, and photography for the people in the communities, young and old, to enjoy a fruitful summer vacation. Meanwhile, they also conducted historical and cultural field research in the communities, designed pamphlets for the industries, shot the root-seeking documentaries of the tribes, curated the opening exhibition for the Tribal History Museum, etc. to preserve local stories while bring forth new ideas and perspectives for the communities to facilitate the communities' growth and bridge the urban-rural gaps from diverse facets. The participants in Click Taiwan had been primarily youth from the departments relevant to communication. In 2021, we adjusted our marketing approach and expand our reach to more schools and departments such as those of natural science in hopes of ushering in more perspectives for the local communities in rural areas in order to propose service solutions tailored to the needs on the ground locally.



167,262
705,118
20,891
183,420
1,076,692
16,970
0.52%

Social Investment Statistics for 2020

Unit: NT\$ thousand

Sustainability 02 Sustainas...., Value Strategy Material Topics and Impact

Sustainability Risks 04 and Opportunities

Reflections from the Participating Students in Click Taiwan



Katratripulr Tribe, Taitung

From the youth of the Katratripulr Tribe, we could detect their profound affection and passion for the tribe and cultural inheritance. Hence, we'd like to share the spirit and emotion with each and every audience.



Tían En Association, Taichung

The family of the pastor gave up their works, following the pastor's footstep to contribute to the children of Dadu. They support and believe in each other and work collectively. Everyone in Tian En is an essential piece to a puzzle that builds this place full of love. The pastor's family share a more intimate, stronger bond thanks to Tian En. Hence, this is what we want to document, i.e. the content, kind family that left a mark on our hearts.



Rubas Tribe, Hualien

"There are numerous ways to come home. You get to choose what you want, as no one demands you to know them all. Just find something interesting to find your own identity." As time goes by, the people of Truku dwelling in the Rubas Tribe have gone beyond the old days when they traded with each other in kind self-sufficiently to the days of trading in currency. Making a living for the family and for study become the new center in their lives.



Mailiao Culture Association, Yunlin

Without the invitation of my partner, my summer vacation this year would have been just like the other summer vacations previously, working day in and day out and going on trips with friends to the Instagram hotspots everybody goes. The trip I've always aspired for is a trip for me to find a place to stay longer. I think if you want to know a place, you have to blend in the local life, so you can truly appreciate the features, the beauty, and the attractions of the place.

2020 Social Contribution of the Foundation

Item	Youth Empowerment	Digital Empowerment	Local Empowerment	Social Marketing	CHT Women's Basketball Team
Unit: NT\$	2,888,895	4,004,915	3,302,624	4,249,313	20,946,802

Preferential Subsidies for the Disadvantaged Groups

Chunghwa Telecom has long been subsidizing telecom services for the socially disadvantaged, and assuring their access to basic communications. The following are the main preferential plan and amount in 2020.

Preferential Plan	Preferential Content	Preferential Amount (NT\$ thousand)	Beneficiaries (persons)
Caring Series Rate Plan (Mobile)	 Double communication hours from the original rate plan for the visually impaired, hearing impaired and speech impaired. 300 free SMS intra-network and 100 free SMS extra-network for the hearing and speech impaired. The intra-network image telephone rate is the same for 3G customers. 	390	123
Broadband Preferential Plan for Low-income Households	50% off on 16M/3M, 35M/6M, 60M/20M, 100M/40M, ADSL 2M/64K & ADSL 5M/384K monthly rate.	40,116	8,361
4G Mobile Data Plan for the Disabled	Disabled persons are entitled to an NT\$100 discounts for limited 399/436/499 plan, NT\$200 discounts on monthly subscriptions when subscribing to the 4G 599 plan and above plus Wi-Fi hotspots for free during the term of the contract.	132,519	58,50
Broadband Preferential Plan for the Disabled	 5% off on HiNet 16M/3M, 35M/6M, 60M/20M and 100M/40M monthly rate, 30% off for the announced rate of HiNet non-fixed monthly plan 15% off on ADSL 5M /384K monthly rate. 5% off for other speed rates. Monthly rate for non-fixed Internet plan lowered from NT\$280 to NT\$180. 	13,578	7,31
MOD Caring Project and Project for the Socially Unfortunate	 Platform charges: A 50% discount (NT\$45/month) from the work completion date. Subscribers of the MOD self-choose package, family premium package, family advance package, family advance package, family high-quality package, family special package, family popular package, family golden package are entitled to 30% discount, and the normal rate after the discount period expires. The above projects all apply to the socially unfortunate and the caring project has no time limitation, the project for the socially unfortunate provides discounts for the first 24 months after the work completion date. 	9,237 calculated on the basis of the 2-year preferential discount	3,079
Healthy Net Plan	HiNet Adult Content Gatekeeper protects children from harmful websites such as pornography, violence, suicide, weapons, gambling, and drugs. The service in the first year is rendered to low-income households for free.	15	13
Welfare Public Telephone	 Installed 110 cm from the floor in public areas for the convenience of The keyboard was designed with embossing on the 5 key for the visu function (from 3db to 6db) was provided exclusively for people with A slot for inserting is designed on the side of an IC card for the convent 	ally impaired, and a hearing aids.	
Message Relay Service for the Hearing and Speech Impaired	All telephone messages will be translated and faxed to the service Chinese homonym). The service personnel will then relay the messag the hearing and speech impaired caller (up to 80 words for the relay who are not hearing and speech impaired may also call the hotline (08 via fax to the hearing and speech impaired. The service hours are 08:00	e in voice and retur and up to 30 words 300-080880) for the	rn the message s for reply). The



Material Topics

Sustainability Risks and Opportunities

The Creation of Digital Opportunities

By utilizing our expertise in telecom technology, we will ensure that everyone shares the advantage of technology despite financial or social standing, or geographical location. In this way we hope to quickly achieve the objective of minimizing the digital divide and creating digital opportunity. In addition to previously described action plans and subsidy, different from those of other enterprises, we also contributed resources to developing related products and services to meet the needs of the disabled and allow them to realize their right of access to the digital technology and convenient lives.

Chunghwa Telecom Women's Basketball Team Gives Back to Communities

Established in 1974, Chunghwa Telecom Women's Basketball Team (CHT WBT) has been involved in "Love & Care Charity Tournament Series" for 10 consecutive years since 2011, hoping to convey the refreshing, healthy image of CHT WBT and the ESG philosophy of Chunghwa Telecom via the Series.

In 2020, to enhance its bonds with communities and in light of the epidemic, we presented "Basketball Kids Summer Camp - CHT WBT in the House" at Good Digital Neighbors to play basketball with kids in the communities like Changhua, Yilan, and Tainan. In addition, 3 games of "3-on-3 Basketball Charity Cup" were organized in Hsinchu, Taitung, and Pingtung, drawing nearly 400 teams across Taiwan. Hence, we promote the sport of basketball via basketball games while uncover young seeds here and there and inspire young students to dare to realize their dreams.







Placemaking Promotion - Click Taiwan Innovative Design Action

The CHT Foundation saw the manpower and resources in short supply locally while the local industries were limited in their developments. With 2020 as the starting point, we came up with the project of "Click Taiwan Innovative Design Action". Together with a social enterprise, we recruited designers with expertise in design and urban-rural development as well as teachers from universities and colleges. They were to team up and go into the designated communities. By tapping into their design power, the selected teams were to produce solutions for local industries jointly with their community partners. After a fierce competition in the selection process, three designer teams from NKNU, NKUST, and Asia University stood out. Starting from August 2020, they went into the communities to engage dialogues locally. After brainstorming with multiple stakeholders, preliminary studies, design and development, prototyping, and the funding for realization in the end, they assisted Song Zhu Community in Lucao Township of Chiayi County, Liming Community in Neipu Township of Pingtung, and Pageljing Social Enterprise from Tjuabal Tribe of Taitung to produce design solutions together. Also, they organized an offline exchange event, followed by an online salon, inviting Frank Hung, the author of bestsellers, and Qing-Yang Xiao, renowned designer shortlisted in Grammy Awards, to talk with each other and share their practical 888 design solutions for placemaking.

Pageljing Social Enterprise, Taitung County

- The original lines and colors of "Pageljing" were softened to present a new logo that is more friendly and warm.
- In echo with the imagery of tenth anniversary, the "Gleaning Series" belly bands were designed with the earth tones and food ingredients introduced to promote the produce of the indigenous community.

Liming Community, Neipu Township, Pingtung

- buy the products.
- for the CIS.



 To promote indigenous produce, the traditional mochi is fused with local produce (e.g. dragon fruit, peanuts, cocoa, butterfly peas, etc.) to give birth to the new mochi that is colorful and healthy. Ten corresponding mascots were designed as well to draw the younger population to

The brand identity, Liming Boutique, is created with the community's landscape, name, and local industry as the elements

Song Zhu Community, Lucao Township, Chíayí County

- The giftbox is designed with the "Song Zhu Cattle" by the elderly as well as story cards and a community map inside to arouse the nostalgic mood of the people away from home while invite new friends to pay a visit.
- The picture book of the community produced through field research preserves the local stories

Sustainability Risks nd Opportunities

Community Network Tutoring—"Read with You"

Chunghwa Telecom has supported education and shown its concern for rural villages ever since 2009, in the aftermath of Typhoon Morakot. We extended our service to the permanent settlements and newly developed communities in the disaster zones. Using visual Internet technology, we delivered educational resources in the form of private tutorship in rural villages for the unfortunate. We hope to give the children of the next generation a learning environment which is safe, dignified, and hopeful.

ltem	Description
Goal	 By 2030, we hope to: Assist 5,000 students in the remote areas with network tutoring Accumulate more than 8,000 volunteers to participate in network tutoring Accumulate more than 150,000 training hours for tutoring volunteers training
Characteristic	 Online education with one-on-one individual tutoring by university students helps pupils of junior high schools and primary schools in the rural villages to enhance their learning and provides equal learning opportunities.
Method	 To realize the spirit of stakeholder engagement, we have cooperated with the Center of Care Services for Taiwan Rural Area Education at Fu Jen Catholic University. University students helped the cause with one-on-one tutoring to take care of the school children in the rural villages and disaster zones. Customized exclusive class supplements to care for the spiritual growth of schoolchildren through companionship, interaction and communication.
Participant	 Taoyuan Dayuan Catholic Church, Taoyuan Guanyin Catholic Church, Chiayi Fu Jen High School, ihope Association of Tainan Assembly of God, Kaohsiung Daai Library, Pingtung Feng-Lin Church, Pingtung Chao Chou Boys Town, Hualien Yuli Library, Taitung Fukid Tribe, Taitung Luye Library, Taitung Kaulahan Association, Taitung Citong Library, Taitung Lanyu High School, and Matzu High School.
Major Result	 University students improve the children's learning outcomes with one-on-one individual tutoring of the school children in rural villages. They also took care of their need for personal communication and interaction. More than ten-years efforts by e-Tutor, it has helped several dozen students gain admission to national and private universities, including the National Yang Ming University and Taipei Medical University. Assistance to remote villages has really reduced the divide between the cities and counties, radically improved the opportunities available to the children and changed their lives.

Schoolchildren who	University Students as	Tutorial Hours	Participants in Summer
have been Tutored	Tutors		and Winter Classes
3,152	4,863	97,105	2,980

1. The data period started from December 2009 to December 2020.

2. The person-times and training hours for the mid- and long-term targets for volunteers were adjusted thanks to the early attainment of the program's targets.

EYE Social Innovative Call Center—Innovative Technology for Hope

Chunghwa Telecom has engaged in long-term cooperation with the Resource Center for the Visually Impaired at Tamkang University for more than 30 years and the EYE Social Innovative Call Center was set up in 2011. These joint efforts led to the unveiling of the first Total Solution in Taiwan. It includes research, development, and improvement of a computer-assisted telephone system, and its corresponding skill development, training, supervision for the needs of the visually impaired talents to offer the phone-services.

- In 2015, the Company completed an upgrade to the Taipei City 1999 hotline, making it user-friendly to the scope and efficiency of the service.
- personnel (12 visually impaired and 3 supervisors) for the Taipei City 1999 hotline.
- entities visiting the call center annually, which made it a model for the other call centers.
- visually impaired people's daily life while providing employment opportunities for the severely disabled.

Assistance Application Development

We believe humanity to be the foundation of technology innovation. In 2013, we launched a Voice-based Personal Assistance App that was specifically designed for the visually impaired. The App incorporates image, voice, reading, and lifestyle functions to assist both visually impaired and elders to face some of their difficulties. We also successfully developed "i4Blind" app in 2016 that makes a great assistant to the visually impaired and the elderly in life. In 2020, the number of logins hit 510,000 with over 52,679 downloads and over 20 million viewings accumulatively.

Automated Voice Donations

The automated voice system for donations developed by Chunghwa Telecom Laboratories has proved to be helpful for charities, social welfare, cultural, educational, and environmental protection institutions. It gives donors a more convenient means of donation. A donor simply needs to pick up their cell phones, dial the short code, and follow the voice prompts to contribute care to those in need. In 2020, there were 8,235 donations, totaling NT\$4 million.

visually impaired. This upgrade included: a real-time notification system, a three-way call feature with voice recording, English/Japanese services, a verbal abuse referral feature, a call duration reminder, a health regulation inquiry feature, and a quick link to service sub-categories. These upgrades greatly improved the

• By the end of 2018, the Total Solution had provided 8 working opportunities for the satisfaction surveyors of Chunghwa Telecom (including one visually impaired manager). And there were another 15 customer service

• In 2020, we continued to supply job opportunities to CHT satisfaction survey personnel with "overall solutions", producing approximately 5,500 valid questionnaires with a yield rate over 96% on a monthly basis. In average, the 1999 Citizen Hotline of Taipei City processed about 8,000 calls monthly with 10 external

• We initiated new employment opportunities for persons with spinal injuries. Including one with severe injury serves as 4G visual assistance service personnel, i.e. assisting visually impaired people with image identification through 4G cloud services, which helps to promote the quality and independence for the





Video 🔼

04 Sustainability Risks and Opportunities

05 The Creation of Sustainable Value

06 Public Policy Participation

O Join Control of Cont

In 2020, Chunghwa Telecom donated about NT\$600 million in the participation of public policy items including joining national and international associations, supporting government popularization services and constructions and developing its prospective industries.

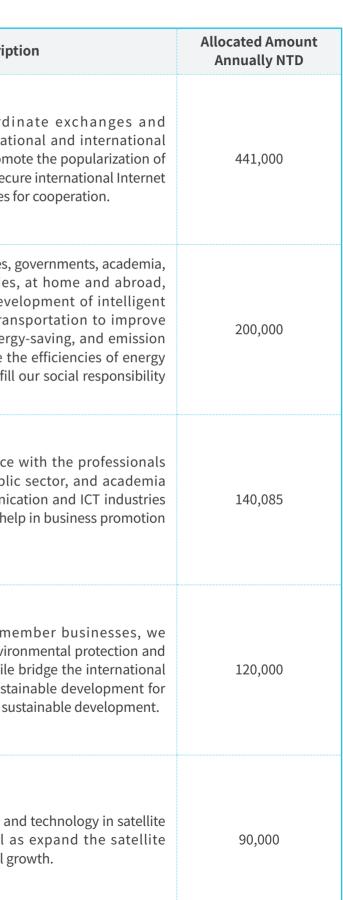


Sustainability Risks and Opportunities



We have joined almost 100 associations and groups to upgrade its technology and stimulate the development of the industry through exchange and cooperation within the industry or across different industries. The following table presents the top three associations and other iconic associations Chunghwa Telecom involves in.

Name of Association	Description	Allocated Amount Annually NTD	Name of Association	Descrip
Taiwan Telecommunication Industry Development Association	We care for the development of telecommunication industry in Taiwan while facilitate exchanges among peers and the healthy networking of the industry as a whole with the Association as the platform.	8,014,000	Taiwan Network Information Center	To facilitate and coordi integration among the nat Internet organizations, prom Internet application, and secu resources and opportunities
GSMA	Exchanges are carried out with mobile communication carriers worldwide, in software and hardware, to tap into the pulse of the global mobile communication ecosystem and facilitate the thriving development of the mobile communication industrial chains.	2,600,175	Intelligent Transportation Society of Taiwan	With resources of industries, and research communities we lead and facilitate deve technology in ICT and tran transportation safety, energ reduction, as well as raise th and resources, so as to fulfill as a world citizen.
The Chinese Institute of Electrical Engineering	With a long-term support to the Institute's development in the fields of electricity, telecommunication, information, and electronics, we facilitate the academic exchanges among the relevant industries and talents domestically.	2,530,000	Pacific Telecommunications Council	The exchange and alliance in the industries, the public related to the telecommunic in the Asian-Pacific region he and publicity.
TM Forum	The knowledge of 5G operation and management, development strategies, and advanced technologies worldwide are gained to streamline with the international standards, create an integrated 5G ecosystem, offer quality ICT services, and innovate the digital transition of industries.	1,906,629	Taiwan Business Council for Sustainable Development (BCSD-Taiwan)	With the joint force of me advocate and promote enviro resource management while trends and practices in susta the purpose of corporate's su
Taiwan Media Watch	To support "safeguarding press freedom, realizing media justice, promoting media self-discipline, and protecting people's right to know".	1,000,000	APSCC (Asia-Pacific Satellite Communications Council)	To harness the application ar communications as well a business and technological g



Strategies and Goals for Material Topics

Material Topics	Short-term Goals (2021)	Mid- and Long-to (2022-
Innovative ICT products and services	• Launch of "Rise on, Together 2021" transformation plan	 Over 5 million 5G users Over 10,000 5G base stations
Climate change and energy management	 Complete the first smart green-energy staff dormitory in Taiwan "5G Limitless Plastic Free Day" Campaign for the implementation of I Sharing and I Protecting 	 The capacity for renewable energy constructed from Taking 2017 as the base year, a 10% reduction of going 2017 as the base year to cumulatively structure facilities room energy-saving program
Competitive remuneration and benefits	 Fosters talents and allows all employees to share the results of the operations, recruit and retain talent with a 3% salary increase 	• Workplace childcare support centers will start by 2
Fair and equal labor- management relations and employee engagement	 Obtained the external third-party Certificate of Conformity for Code of Conduct (CoC) Maintain reward of senior employees 	 To ensure that employees' average salary is in the To maintain the collective agreement coverage rat To reach 100% in implementing general education
Health and safety	 Reach 99% in employees' participation in the routine physical examination 100% branches receive ISO 45001 certification by 2021 	 Maintain ISO 45001 management system certificat
Accurate product labelling	 O case of major unclear labelling or incidences of fraud 	 To ensure 100% complete compliance with laws a of products and services
Rigorous cybersecurity protection	 O case of major cyber security and personal information leakage incidents Insure "data protection insurance" Obtained the external third-party SGS Certificate of Conformity for Privacy Policy 	 Regular examination and adjustment to the polic sonal information security Conduct External and internal audits, pass the in- tain third-party certifications
Corporate governance	 O cases of major legal violations Proportion of independent directors on the Board maintain 35% and above 2 females directors on the Board of Directors 	• To ensure that no major violations of Taiwan's eco
Sustainable supply chain management	 Maintain 100% of "tier 1 suppliers" CSR current status assessment in 2020 The number of suppliers responding to Chunghwa Telecom's CDP Supply Chain Project questionnaire reaches 200 	 Complete 100% of "critical tier 1 suppliers" ESG or Complete the sustainability rating of 140 suppliers The green procurement amount reaches 50% in the

term	Strategies
2-2026	5)

from proprietary was **3,975.5** kWp by 2023 of greenhouse gas emissions in our buildings by save **10%** of the energy by 2023 pursuant to the

by 2022 he top **5%** of the industry rate at **99%** ion courses

cation vaild for every branch

s and internal regulations in promotional information

olicies, regulations, and strategies for cyber and per-

investigations of the competent authorities, and ob-

conomic, environmental and social regulations occur

on-site visits and audits in 2023 ers and issue the certification mark by 2025 the total procurement

GRI Standard Index

GRI 103 Management Approach

Material Topics	How We Manage the Topic	Purpose of the Management Approach	Policy	Performance (Page)	Grievance Mechanism
Economic Performance (Innovative ICT Products and Services)	We have a robust corporate governance system that involves independent directors and supervisors. The Audit Committee, the Strategy Committee and the Audit Department have been established for effective control of operating costs and business direction.	To ensure that the Company's operations conform to the requirements of the government and supervising authorities, and that shareholders' and stakeholders' interests are protected.	 "Business Integrity Principles" "Behavioral Guidelines" "Corporate Governance Principles" 	P.22	 Shareholder hotline: 2394-1845 Investor hotline: 2344-5488
Market Presence	We have established a compensation committee, which helps to ensure that we provide employees with competitive salaries. We're also able to adequately reward our employees through transparent salary policies.	Ensuring that the company's compensation policies, systemic standards, and structures comply with government regulations and labor rights.	• "Employment Contract"	P.71-72	 Grievance hotline: 0800-080998
Energy (Climate Change)	We perform annual greenhouse gas inventories & verifications and publicly disclose the related environmental information. We effectively keep track of environmental resources and energy saving performance through the self-developed EARTH system.	To improve the environmental management efficiency via the acquisition of international certifications.	 "Energy Saving Policy for A Sustainable Environment" 	P.104	-
Supplier Environmental Assessment Supplier Social Assessment	We enhance the sustainability of our overall supply chain every year through "questionnaire evaluation, education and training, third-party on-site audits and sustainability certification".	Construct a hierarchical green supply chain and build a sustainable ecosystem through extensive alliances.	 "Code of Corporate Social Responsibility for Suppliers" 	P.112-117	 Procurement Complaint Handling Team Grievance hotline: 2344-4081
Employment	CHT treats employees as its most important partners, and is committed to providing employees the utmost "assurance." For best protection of employees'work rights, Chunghwa Telecom has signed the "employment contracts" with individual employees and notifies them of changes regarding employment under the Labor Standards Act. Furthermore, we exploit various communication channels including seminars and labor management meetings to maintain a harmonious and mutually beneficial working relationship.	To ensure that employees' employment and work rights are protected.	 "Employment Contract" "Business Integrity Principles" "Codes of Conduct" "Corporate Governance Principles" "Collective Agreement" 	P.71-73	 Compliant Investigation Committee Grievance hotline: 0800-080998
Occupational Health and Safety	Chunghwa Telecom is the first telecom company in Taiwan to incorporate an Occupational Health and Safety Management System (OHSAS 18000). We ensure the effective management of employee health & safety through an institutional and systematic mechanism. In addition to complying with health & safety regulations and other related requirements, we also continue to improve the OHS facilities and measures of our working environment.	Chunghwa Telecom guarantees its employees a safe and healthy working environment to prevent occupational hazards.	"Employee Contract""Collective Agreement"	P.83-85	• Grievance hotline: 0800-080998
Marketing and Labelling	In addition to providing relevant information and usage descriptions on all product s and services offered, we also have a "Marketing Policy" in place to ensure that business activities are carried out in compliance with the authority's rules and requirements. Compliance with such policy constitutes part of senior managers' performance appraisal.	To protect consumers' rights to information and ensure the clarity and transparency of marketing information.	 "Distribution Sales Aid Management Guidelines" "Marketing Policy" 	P.24, 96-97	• Telecom Service Center: 0800-080-123
Customer Privacy	"Cybersecurity and Privacy Protection Steering Committee" has been established with the SEVP, appointed by Chairman, as the "CISO" to achieve the objective of zero toleration via regular meetings and third-party verification.	To ensure that customers' personal information is strictly protected.	 "Cybersecurity Policy" "Privacy Policy" "Personal Data Collection Notice" 	P.55, 94-95	• Telecom Service hotline: 0800-080123
Socioeconomic Compliance (Corporate Governance)	Ethical management and legal compliance are the principles and guidelines that govern our operations. To ensure all operations comply with socioeconomic laws and regulations, all the departments as well as the level 1 and level 2 institutions of Chunghwa Telecom are operating in line with the laws and regulations pertaining to the businesses.	To ensure that the Company's operations are free from violations of socioeconomic regulations.	 "Business Integrity Principles" "Codes of Conduct" "Corporate Governance Principles" "Distribution Sales Aid Management Guidelines" "Marketing Policy" NCC's "Regulations for Administration of Base Stations of Mobile Communications Network Businesses" 	P.24	 Compliant Investigation Committee Grievance hotline: 0800-080998

2020 Evaluation of the Management Approach

Material Topics	Mechanism for Evaluation	Result of the Evaluation (Page)	Adjustment
Economic Performance	Independent directors, supervisor system, internal audit, Board of Directors evaluation (self-evaluation: by the directors and functional committees; third- party evaluation: by the external professional institutes commissioned), evaluation by the relevant authority	P.22	None
Market Presence	Compensation committee, internal audit, evaluation by relevant regulatory authorities	P.71	None
Energy	ISO 14001, ISO 50001, ISO 14064-1 management system certificate, TWSE Governance Evaluation	P.106	None
Supplier Environmental / Social Assessment	CSR Survey, CDP Supply Chain, external third-party audit, SALcE Sustainable Partner Certification, TWSE Corporate Governance Evaluation	P.115	None
Employment	TWSE Corporate Governance Evaluation, Employment Contract, Collective Agreement	P.71,74	None
Occupational Health and Safety	Employment Contract, Collective Agreement	P.83	None
Marketing and Labelling	NCC's telecom service quality survey, communication/ consumer complaint report	P.24	None
Customer Privacy	Grievance system, system certification (ISO 27001, BS 10012), internal auditor certification, TWSE Corporate Governance Evaluation	P.55, 94-95	None
Socioeconomic Compliance	NCC's telecommunication service quality survey, communication/consumer complaint report, evaluation of Board of Directors' Performance by external third-party, TWSE Corporate Governance Evaluation, CoC by the external third party		None
	Disclosure Item		Page
GRI 103	103-1 Explanation of the material topic and its Boundary		P.36-37
Management Approach	103-2 The management approach and its compone	P.138-139	
	103-3 Evaluation of the management approach	P.140	

General Disclosure

General Disclosure	Disclosure Items	Page / URL and Comment	Identified Omission and Explanation	External Assurance
Organizational A	ispect			<u>1</u>
102-1	Name of the organization	Chunghwa Telecom		V
102-2	Activities, brands, products, and services	P.14-15		V
102-3	Location of headquarters	P.14		V
102-4	Location of operations	P.14		V
102-5	Ownership and legal form	P.14		V
102-6	Market served	P.15		V
102-7	Scale of the organization	P.13-14, 18, 72		V
102-8	Information on employees and other workers	P.72-73		V
102-9	Supply chain	P.16-17		V
102-10	Significant changes to the organization and its supply chain	None		V
102-11	Precautionary Principle or approach	P.44-55		V
102-12	External initiatives	P.24, 119-121		V
102-13	Membership of associations	P.134-135		V
Strategy				
102-14	Statement from senior decision-maker	P.4-5		V
Ethics and integ	rity			
102-16	Values, principles, standards, and norms of behavior	P.24		V
Governance				
102-18	Governance structure	P.18		V
Stakeholder eng	agement			
102-40	List of stakeholder groups	P.40-41		V
102-41	Collective bargaining agreements	P.74		V
102-42	Identifying and selecting stakeholders	P.40		V
102-43	Approach to stakeholder engagement	P.40-41		V
102-44	Key topics and concerns raised	P.40-41		V
Reporting practi	ce			
102-45	Entities included in the consolidated financial statements	2020 Annual Report P. 105		V
102-46	Defining report content and topic Boundaries	P.36-37		V
102-47	List of material topics	P.36-37		V
102-48	Restatements of information	None		V
102-49	Changes in reporting	None		V
102-50	Reporting period	2020/1/1- 2020/12/31		V
102-51	Date of most recent report	2020/8/10		V
102-52	Reporting cycle	Annually		V
102-53	Contact point for questions regarding the report	P.1		V
102-54	Claims of reporting in accordance with the GRI Standards	Core		V
102-55	GRI content index	P.138-143		V
102-56	External Assurance	P.147-149		V

Topic-Specific Disclosures

Topic-Specific Disclosures	Disclosure Item (topics without years noted are of the 2016 edition of the GRI standards)	Page / URL and Comment	Identified Omission and Explanation	External Assurance
201 Economic Pe	erformance		L	<u>.</u>
201-1	Direct economic value generated and distributed	P.22		V
201-3	Defined benefit plan obligations and other retirement plans	P.86-89		V
202 Market Prese	ence		i	<u>.</u>
202-1	Ratios of standard entry level wage by gender compared to local minimum wage	P.71-73		V
205 Anti-corrup	tion		i	L
205-2	Communications and training about anti- corruption policies and procedures	P.24		V
205-3	Confirmed incidents of corruption and actions taken	P.24		V
206 Anti-compe	titive Behavior		L	<u>.</u>
206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	None		V
02 Energy	A		i	1
302-1	Energy consumption within the organization	P.106		V
302-4	Reductions of energy consumption	P.103-109		V
302-5	Reductions in energy requirements of products and services	P.103-109		v
305 Emissions	*		-	
305-1	Direct (Scope 1) GHG Emissions	P.54		V
305-2	Energy Indirect (Scope 2) GHG Emissions	P.54		V
305-3	Other indirect (Scope 3) GHG Emissions	P.54		V
305-5	Reduction of GHG Emissions	P.53-54		V
307 Environme	ntal Compliance			
307-1	Non-compliance with environmental laws and regulations	None		٧
808 Supplier Env	rironmental Assessment			
308-1	New suppliers that were screened using environmental criteria	P.113-114		V
101 Employment	t			
401-1	New employee hires and employee turnover	P.72		V
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	P.84-89		V
401-3	Parental leave	P.88		V
402 Labor / Mar	agement Relations			
402-1	Minimum notice periods regarding operational changes	P.74		v

Topics marked with * have been disclosed voluntarily, and are not part of the material topics identified in 2020.

General Disclosure	Disclosure Item (topics without years noted are of the 2016 edition of the GRI standards)	Page / URL and Comment	Identified Omission and Explanation	External Assurance
403: 2018 Occup	bational Health and Safety			
403-1	Occupational health and safety management system			V
403-2	Hazard identification, risk assessment, and incident investigation			v
403-3	Occupational health services			V
403-4	Worker participation, consultation, and communication on occupational health and safety	Link		V
403-5	Worker training on occupational health and safety	LIIIK		V
403-6	Promotion of worker health			V
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships			V
403-8	Workers covered by an occupational health and safety			V
403-9	Work-related injuries	P.83		V
403-10	Work-related ill health	P.83		V
405 Diversity a	nd Equal Opportunity			
405-1	Diversity of governance bodies and employees	P.18, 72, 74		V
405-2	Ratio of basic salary and remuneration of women to men	P.73		V
414 Supplier So	cial Assessment			
414-1	New suppliers that were screened using social criteria	p.113-114		V
*415 Public Poli	су		-	
415-1	Political contributions	None		V
416 Customer	Health and Safety		_	
416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	None		V
417 Marketing a	nd Labelling		-	
417-2	Incidents of non-compliance concerning product and service information and labeling	None		V
417-3	Incidents of non-compliance concerning marketing communications	None		V
418 Customer P	rivacy		£	
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	None		v
419 Socioecono	mic Compliance		L	
419-1	Non-compliance with laws and regulations in the social and economic area	p.100		V

G 3.1 Telecommunication Sector Specific Indicators

	and ators	Disclosure Items	Page / URL and Comment	Identified Omission and Explanation	External Assurance
Sub-cate	egory: In	ternal Operations			
nvestme	ent				
	101	Capital investment in telecommunication network infrastructure broken down by country/ region	P.98		V
DMA 118	102	Net costs for service providers under the Universal Services Obligation when extending service to geographic locations and low-income groups, which are not portable. Describe relevant legislative and regulatory mechanisms.	P.122, 134-135		V
lealth a	nd Safet	y		i	
DMA 89	103	Describe relevant legislative and regulatory mechanisms.	P.79-81		V
	104	Compliance with ICNIRP (International Commission on Non-Ionizing Radiation Protection) standards on exposure to radiofrequency (RF) emissions from handsets.	P.100		V
	105	Compliance with ICNIRP (International Commission on Non-Ionizing Radiation Protection) guidelines on exposure to radiofrequency (RF) emissions from base stations.	P.100		V
	106	Policies and practices with respect to Specific Absorption Rate (SAR) of handsets.	P.100		V
nfrastru	icture	·····			
DMA 89	107	Policies and practices on the siting of masts and transmission sites including stakeholder consultation, site sharing, and initiatives to reduce visual impacts. Describe approach to evaluate consultations and quantify where possible.	P.100		V
	108	Number and percentage of stand-alone sites, shared sites, and sites on existing structures.	P.100		V
Sub Cate	gory: Te	chnology Applications			
Resource	e Efficier	су			
Resource	TA1	Provide examples of the resource efficiency of telecommunication products and services delivered.	P.66		V
	TA2	Provide examples of telecommunication products, services and applications that have the potential to replace physical objects (e.g. a telephone book by a database on the web or travel by videoconferencing)	P.66		V
DMA 58	TA3	Disclose any measures of transport and/ or resource changes of customer use of the telecommunication products and services listed above. Provide some indication of scale, market size, or potential savings.	P.67-69		V
	TA4	Disclose any estimates of the rebound effect (indirect consequences) of customer use of the products and ser vices listed above, and lessons learned for future development. This may include social consequences as well as environmental.	P.66		V
	TA5	Description of practices relating to intellectual property rights and open-source technologies.	P.67-69		V

DMA and Indicators		Disclosure Items	Page / URL and Comment	Identified Omission and Explanation	External Assurance
		oviding Access			
Access to	o Telecon	munication Products and Services: Bridging the	Digital Divide	r r	
DMA 109	PA1	Policies and practices to enable the deployment of telecommunications infrastructure and access to telecommunications products and ser vices in remote and low population density areas. Include an explanation of business models applied.	P.98, 122		V
	PA2	Policies and practices to overcome barriers for access and use of telecommunication products and services including: language, culture, illiteracy, and lack of education, income, disabilities, and age. Include an explanation of business models applied.	P.122		V
	PA3	Policies and practices to ensure availability and reliability of telecommunications products and services and quantify, where possible, for specified time periods and locations of down time.	P.124		V
	PA4	Quantify the level of availability of telecommunications products and services in areas where the organization operates. Examples include: customer numbers / market share, addressable market, percentage of population covered, percentage of land covered.	P.124		V
	PA5	Number and types of telecommunication products and services provided to and used by low- and no-income sectors of the population. Provide definition selected. Included explanations of approach to pricing, illustrated with examples such as price per minute of dialogue / bit of data transfer in various remote, poor or low population density areas.	P.124, 127		V
	PA6	Programs to provide and maintain telecommunication products and services.	P.99		V
Access to	o Content	<u>م</u> ــــــــــــــــــــــــــــــــــــ		ii.	
DMA 81	PA7	Policies and practices to manage human rights issues relating to access and use of telecommunications products and services.	P.90-91, 94-95		V
Custome	r Relatio	ns DMA 84 PA8			
DMA 81	PA8	Policies and practices to publicly communicate on EMF related issues. Include information provides at points of sales material.	P.100		V
	PA9	Total amount invested in programs and activities in electromagnetic field research. Include descriptions of programs currently contributed to and funded by the reporting organization.	None		V
	PA10	Initiatives to ensure clarity of charges and tariffs.	<u>Link</u>		V
	PA11	Initiatives to inform customers about product features and applications that will promote responsible, efficient, cost-effective, and environmentally preferable use.	P.92		V

Sustainability Accounting Standards Board, SASB Index

For corresponding information and page numbers, please refer to the 2020 CHT SASB Report.

Table 1. SASB Topics and Accounting Metric

SASB Topic	SASB Code	Accounting Metric	Page/URL
Environmental Footprint of Operations	TC-TL-130a.1	1. Total energy consumed, 2. percentage grid electricity, 3. percentage renewable	P.4
	TC-TL-220a.1	Description of policies and practices relating to behavioral advertising and customer privacy	P.4-5
	TC-TL-220a.2	Number of customers whose information is used for secondary purposes	P.5
Data Privacy	TC-TL-220a.3	Total amount of monetary losses as a result of legal proceedings associated with customer privacy	P.5
	TC-TL-220a.4	1. Number of law enforcement requests for customer information, 2. number of customers whose information was requested, 3. percentage resulting in disclosure	P.5-6
Data Carutita	TC-TL-230a.1	 Number of data breaches, 2. percentage involving personally identifiable information (PII), 3. number of customers affected 	P.7
Data Security	TC-TL-230a.2	Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards	P.7-8
Product End-of-life Management	TC-TL-440a.1	1. Materials recovered through take back programs, percentage of recovered materials that were 2. reused, 3. recycled, and 4. landfilled	P.9
	TC-TL-520a.1	Total amount of monetary losses as a result of legal proceedings associated with anti- competitive behavior regulations	P.9
Competitive Behavior & Open Internet	TC-TL-520a.2	Average actual sustained download speed of 1. owned and commercially-associated content and 2. non-associated content	P.9-10
	TC-TL-520a.3	Description of risks and opportunities associated with net neutrality, paid peering, zero rating, and related practices	P.10-11
Managing Systemic Risks from Technology	TC-TL-550a.1	1. System average interruption frequency and 2. customer average interruption duration	P.12
Disruptions	TC-TL-550a.2	Discussion of systems to provide unimpeded service during service interruptions	P.12

Table 2. Activity Metrics

SASB Code	Activity Metric	Page
TC-TL-000.A	Number of wireless subscribers	P.13
TC-TL-000.B	Number of wireline subscribers	P.13
TC-TL-000.C	Number of broadband subscribers	P.13
TC-TL-000.D	Network traffic	P.13

Assurance Statement

SGS

SGS TAIWAN LTD.'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE CHUNGHWA TELECOM CO., LTD.'S CORPORATE ESG REPORT FOR 2020

NATURE AND SCOPE OF THE ASSURANCE/VERIFICATION SGS Taiwan Ltd. (hereinafter referred to as SGS) was commissioned by CHUNGHWA TELECOM CO., LTD. (hereinafter referred to as CHT) to conduct an independent assurance of the Corporate ESG Report for 2020 (hereinafter referred to as the Report). The scope of the assurance, based on the SGS Sustainability Report Assurance methodology, included the sampled text, and data in accompanying tables, contained in the report presented during on-site verification (2021/04/20~2021/05/19). SGS reserves the right to update the assurance statement from time to time depending on the level of report content discrepancy of the published version from the agreed standards requirements.

INTENDED USERS OF THIS ASSURANCE STATEMENT

This Assurance Statement is provided with the intention of informing all CHT's Stakeholders.

RESPONSIBILITIES

The information in the CHT's Corporate ESG Report of 2020 and its presentation are the responsibility of the directors or governing body (as applicable) and the management of CHT. SGS has not been involved in the preparation of any of the material included in the Report.

Our responsibility is to express an opinion on the text, data, graphs and statements within the scope of verification with the intention to inform all CHT's stakeholders.

ASSURANCE STANDARDS, TYPE AND LEVEL OF ASSURANCE

The SGS ESG & Sustainability Report Assurance protocols used to conduct assurance are based upon internationally recognized assurance guidance, including the Principles contained within the Global Reporting Initiative Sustainability Reporting Standards (GRI Standards) 101: Foundation 2016 for report quality, and the guidance on levels of assurance contained within the AA1000 series of standards and guidance for Assurance Providers.

The assurance of this report has been conducted according to the following Assurance Standards:

Assurance Standard Options		
A	SGS ESG & SRA Assurance Protocols (based on GRI Principles and guidance in AA1000)	n/a
В	AA1000AS v3 Type 2 (AA1000AP Evaluation plus evaluation of Specified Performance Information)	High

Assurance has been conducted at a high level of scrutiny.

ASSURANCE STATEMENT

SCOPE OF ASSURANCE AND REPORTING CRITERIA

The scope of the assurance included evaluation of quality, accuracy and reliability of specified performance information as detailed below and evaluation of adherence to the following reporting criteria:

Reporting Criteria Options

- 1 GRI Standards (Core)
- 2 AA1000 Accountability Principles (2018)
- SASB -Technology & Communications Sector- Telecommunication Services Industry 3 Standard Version 2018-10
- 4 IIRC International <IR> Framework (Chinese version 2013)
- evaluation of content veracity of the sustainability performance information based on the materiality determination at a high level of scrutiny for CHT and moderate level of scrutiny for subsidiaries, joint ventures, and applicable aspect boundaries outside of the organization covered by this report;
- AA1000 Assurance Standard v3 Type 2 evaluation of the report content and supporting management systems against the AA1000 Accountability Principles (2018):
- evaluation of the report against the requirements of Global Reporting Initiative Sustainability Reporting Standards (100, 200, 300 and 400 series) claimed in the GRI content index as material and in accordance with and
- evaluation of the report against the IIRC International <IR> Framework (Chinese version 2013) requirements for content elements.

ASSURANCE METHODOLOGY

The assurance comprised a combination of pre-assurance research, interviews with relevant employees, superintendents, CSR committee members and the senior management in Taiwan; documentation and record review and validation with external bodies and/or stakeholders where relevant.

LIMITATIONS AND MITIGATION

Financial data drawn directly from independently audited financial accounts and Task Force on Climate-related Financial Disclosures (TCFD) has not been checked back to source as part of this assurance process.

STATEMENT OF INDEPENDENCE AND COMPETENCE

The SGS Group of companies is the world leader in inspection, testing and verification, operating in more than 140 countries and providing services including management systems and service certification; quality, environmental, social and ethical auditing and training; environmental, social and sustainability report assurance. SGS affirm our independence from CHT, being free from bias and conflicts of interest with the organisation, its subsidiaries and stakeholders.

The assurance team was assembled based on their knowledge, experience and gualifications for this assignment, and comprised auditors registered with ISO 26000, ISO 20121, ISO 50001, SA8000, RBA, QMS, EMS, SMS, GPMS, CFP, WFP, GHG Verification and GHG Validation Lead Auditors and experience on the SRA Assurance service provisions.

VERIFICATION/ ASSURANCE OPINION

On the basis of the methodology described and the verification work performed, we are satisfied that the specified performance information included in the scope of assurance is accurate, reliable, has been fairly stated and has been prepared, in all material respects, in accordance with the reporting criteria.

We believe that the organisation has chosen an appropriate level of assurance for this stage in their reporting.

Inclusivity

CHT has demonstrated a good commitment to stakeholder inclusivity and stakeholder engagement. A variety of engagement efforts such as survey and communication to employees, customers, investors, suppliers, CSR experts, and other stakeholders are implemented to underpin the organization's understanding of stakeholder concerns. For future reporting, CHT may proactively consider having more direct two-ways involvement of stakeholders during future engagement.

Materiality

CHT has established effective processes for determining issues that are material to the business. Formal review has identified stakeholders and those issues that are material to each group and the report addresses these at an appropriate level to reflect their importance and priority to these stakeholders. Responsiveness

The report includes coverage given to stakeholder engagement and channels for stakeholder feedback. CHT has responded in a way that address the needs, concerns and expectations of stakeholders. Impact

CHT has demonstrated a process on identify and fairly represented impacts that encompass a range of environmental, social and governance topics from wide range of sources, such as activities, policies, programs, decisions and products and services, as well as any related performance.

GLOBAL REPORTING INITIATIVE REPORTING STANDARDS CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

The report, CHT's Corporate ESG Report of 2020, is adequately in line with the GRI Standards in accordance with Core Option. The material topics and their boundaries within and outside of the organization are properly defined in accordance with GRI's Reporting Principles for Defining Report Content, Disclosures of identified material topics and boundaries, and stakeholder engagement, GRI 102-40 to GRI 102-47, are correctly located in content index and report. For future reporting, it is recommended CHT to align the selected SDGs' targets with its selected material topics on what efforts has been made and performance of where is possible with qualitative and quantitative of the result.

SASB CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

CHT adopted SASB's TECHNOLOGY & COMMUNICATIONS SECTOR- TELECOMMUNICATION SERVICES INDUSTRY STANDARD, VERSION 2018-10 to communicate their sustainability accounting performance to their investors. CHT has determined which disclosure topics and associate metrics are financially material to its business and has responded in an appropriate manner in the content index. By using both GRI and SASB standards together, the efficiency of communication and the identification of material issues are substantially increased during the whole reporting preparation process.

Signed: For and on behalf of SGS Taiwan Ltd.

David Huang Senior Director Taipei, Taiwan 21 June, 2021 WWW.SGS.COM

TWLPP5008 Issue 2104

AA1000 ACCOUNTABILITY PRINCIPLES (2018) CONCLUSIONS, FINDINGS AND RECOMMENDATIONS



