



中國建築
CHINA STATE CONSTRUCTION



建証
2020 力量

Witness Power

Sustainability Report



2020 Witness Power
Sustainability Report



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Witness Power in 2020



Despite challenges and difficulties, 2020 was a year of incredible achievements for China. This was the fruits of the Chinese people's concerted efforts, and the overwhelming evidence of the Chinese spirit and the Chinese strength. With the people-centered development philosophy, CSCEC grounds its efforts in the new development stage, applies the new development philosophy, and creates a new pattern of development. Focusing on the "one creation and five aspects of strength" strategic goal, CSCEC advances the high-quality development and strives to help meet the people's aspirations for a better life.

"Witness Power" to promote the rejuvenation of the Chinese nation

CSCEC strives to become the most trustworthy power of the Chinese nation. Upholding the original mission of seeking happiness for the Chinese people and rejuvenation for the Chinese nation, CSCEC spares no effort to accomplish major construction tasks related to the nation's development and people's livelihood, serving the overall interest of the country.

CSCEC's efforts to build a community with a shared future for mankind by leveraging the strength of "Constructed by China"

With the market-oriented approach and integrity as the cornerstone of development, CSCEC has developed into the largest investment and construction enterprise in the world. CSCEC has taken the lead to guide Chinese construction enterprises to "go global" and united them to jointly leverage the strength of "Constructed by China" to build up the business card of "Constructed by China", the friendship card and spiritual card of China.



Extended reading: CSCEC's "one creation and five aspects of strength" strategic goal

"One creation" refers to the goal of establishing CSCEC as a world-class company with strong global competitiveness. "Five aspects of strength" refer to strong value creativity, strong innovation leadership, strong brand influence, strong international competitiveness, and strong cultural soft power.

Company Honors

CSCEC ranked **18th** in the 2020 Fortune Global 500.

- ▶ CSCEC has maintained the top ratings in the industry by the three most prominent rating agencies for six consecutive years - Standard & Poor's, Moody's and Fitch (S&P: A / Moody's: A2 / Fitch: A), with a "Stable" outlook.
- ▶ CSCEC ranked top in the 2020 Top 250 International Contractors list by Engineering News-Record (ENR).
- ▶ CSCEC won the Best Board of Directors of the 16th Golden Round Table Award for the boards of listed companies in China.
- ▶ CSCEC received the honor of A-level Enterprise in Business Performance Appraisals of Persons-in-Charge at Central State-owned Enterprises for the fifteenth time.

CSCEC **ranked top** in the industry in Brand Finance Global 500 2020 ranking.

- ▶ In the China brand value evaluation list by China Council for Brand Development, CSCEC ranked 1st in the industry with 972.00 brand strength and RMB 110.396 billion of brand value. CSCEC ranked 17th in 2020 Top 100 Most Valuable Chinese Brands.
- ▶ China Overseas Land & Investment Ltd. won the award of China Leading Real Estate Brands for 17 consecutive years, ranking 1st in the industry with the brand value of RMB 121.6 billion.
- ▶ In the selection of Chinese Construction Enterprises with Best Overseas Image, CSCEC ranked 1st in the construction industry and was included in 2020 Top 10 Outstanding Cases.

The representative of CSCEC **delivered a speech** on anti-COVID response at the 2020 Central State-owned Enterprises' Social Responsibility Report Release Ceremony held by the SASAC.

- ▶ CSCEC was rated "good" of the top rating in the evaluation of central state-owned enterprises' targeted poverty alleviation in 2020, and won the award of Responsible Central State-owned Enterprise in Poverty Alleviation.
- ▶ CSCEC Sustainability Report 2019 won the five-star rating by the Chinese Academy of Social Sciences (CASS).
- ▶ Two social responsibility cases of CSCEC were included in the *2020 Blue Paper of Central State-owned Enterprises Social Responsibility*, the *2020 Blue Paper of Central State-owned Enterprises Overseas Social Responsibility*, and the *Collection of Outstanding Cases of Central State-owned Enterprises in the Fight Against COVID-19* issued by State-owned Assets Supervision and Administration Commission of the State Council (SASAC).
- ▶ CSCEC won the Outstanding Contribution to Sustainable Development Award, the highest honor of 2020 Evergreen Awards for Sustainable Development issued by Caijing Magazine.
- ▶ CSCEC won the Special Contribution Award at the 15th People's Enterprises Social Responsibility Summit.



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Report Compilation Instruction

Reporting Objectives

The report is the twelfth Sustainability Report released by the China State Construction Engineering Corporation Limited, aiming to providing with our stakeholders information on the sustainability philosophy, practice and performance and respond to the important concerns of the stakeholders.

Reporting Cycle

The report is an annual report. The previous one was issued on April 24, 2020.

Reporting Scope

The report reveals the information on the economic, social and environmental responsibility fulfillment of CSCEC and its second level holding subsidiaries, with related cases coming from its subordinate companies. The reporting period is mainly the year 2020, with some contents tracing back to previous years. Please refer to the reports of previous years for further information.

Reporting Data

The data in the report are from the Financial Report 2020 of the Company, CSCEC in Action Against COVID-19 Report 2020. Parts of the history data are restated according to the accounting standards variations. If there is any inconsistency between data in the report and those in the Financial Report, those in the Financial Report shall prevail. The amount of money uses RMB as the unit unless specially noted.

Compilation Conformance

ISO 26000: Guidance on Social Responsibility (2010) issued by the International Organization for Standardization

GB/T 36001-2015: Guidance on Social Responsibility Reporting (Chinese National Social Responsibility Standard)

The *GRI Sustainability Reporting Standards (GRI Standards)* issued by the GRI Global Sustainability Standards Board (GSSB)

Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-CSR 4.0)

The *Guideline on Performing Social Responsibility by Central Enterprises*, and the *Guidelines to the State-owned Enterprises on Better Fulfilling Corporate Social Responsibilities* released by the SASAC of the State Council

The *Guidelines for Compiling Reports of the Practice of Social Responsibilities by Enterprises* released by the Shanghai Stock Exchange

Reporting Commitment

This report is prepared by the Social Responsibilities Management Team of the Company, examined by the senior management and approved by the Board of Directors and the Board of Supervisors. CSCEC assures that the report contains no false records or misleading information.

Reporting Assurance

The report has received third-party assurance by TUV Asia Pacific Ltd. which gave an independent assurance certification.

Characteristics and Improvement

The Report takes "Witness Power" as the theme and manifests CSCEC's efforts to promote coordinated regional development, "CSCEC Power" to lead Chinese construction enterprises to leverage the strength of "Constructed by China", and CSCEC's commitments to expand a happy living environment.

The Report takes "CSCEC Strives for a World-class Enterprise" as the mainline and focuses on CSCEC's "one creation and five aspects of strength" strategic goal, which is reflected in relevant chapters, to explain CSCEC's efforts for creating a new pattern of development and providing high quality products and services that support social and economic development and benefit the people's livelihood based on the new development stage and the new development philosophy, ultimately building a world-class enterprise with global competitiveness.

The Report covers four in-depth features, i.e., CSCEC in Fight Against COVID-19, CSCEC in Fight Against Poverty, Serving Major National Development Decision and Contributing to the BRI Development. The four features disclose CSCEC's mission, responsibility, unremitting efforts and achievements of responding to COVID-19 and advancing economic and social development, helping lift impoverished counties out of poverty ahead of schedule through "CSCEC Model" of targeted poverty alleviation, accomplishing major tasks of serving major national strategies, and building premium projects of livelihood and wellbeing improvement.

The Report aligns with the requirements of the era. It discloses CSCEC's continuous efforts and achievements in applying the new development philosophy, promoting the responsibility fulfillment of green construction, smart construction, and industrialization of construction, and advancing the process of digitization, informatization, smartization, carbon neutrality, etc.

The cover of the Report innovatively adopts the connotative image of "Witness Power- Red Cornerstone" as the main element, showing that CSCEC gives full play to the competitiveness of the whole industrial chain and builds happy, smart and future cities to meet the people's aspirations for a better life.

Access to the Report

The report is available in Chinese and English in print and electronic formats. Welcome to visit the official website to download the report at www.cscec.com or the website of the Shanghai Stock Exchange www.sse.com.cn.

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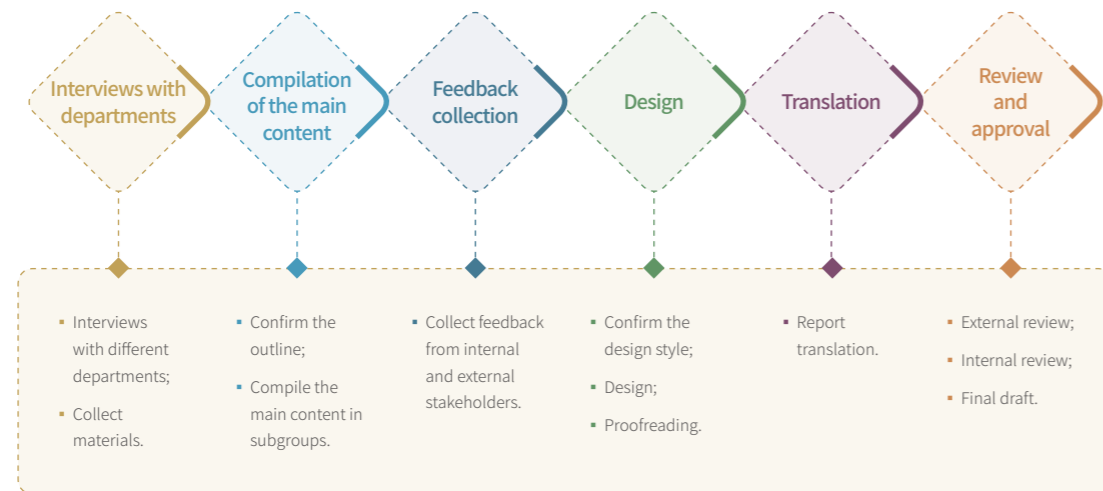
Report Compilation Process

Sustainability reports are an important tool to help companies to enhance their social communication and boost their operational transparency. The CSR report preparation and report releasing is also a process of communication with stakeholders. We have set up a sustainability report preparation team, which is led by the Company's Social Responsibility Committee, managed by the Social Responsibility Office, and supported by other functions and subsidiaries. The team collected the opinions from various stakeholders and coordinated with all parties within the Company during the sustainability report preparation period.

Opinion Collection

Through corporate management meetings, we got to know the Company's leadership's and management teams' concerns over social responsibility issues. Through social responsibility seminars, we solicited opinions and suggestions from stakeholders and social responsibility experts on corporate issues. Through the Company's websites, newspapers, journals, business reports and other media platforms, we had extensive communication with our stakeholders and obtained their comments and suggestions on these issues.

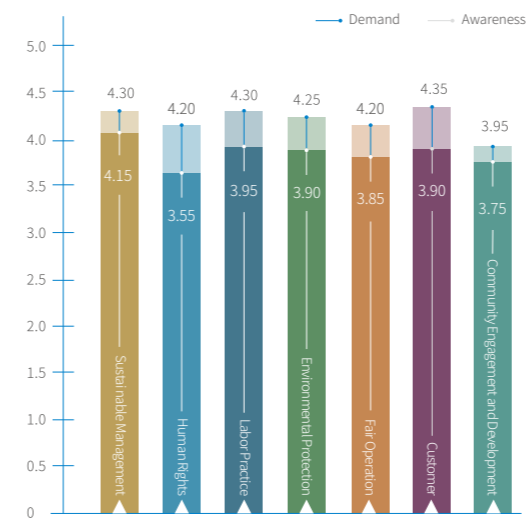
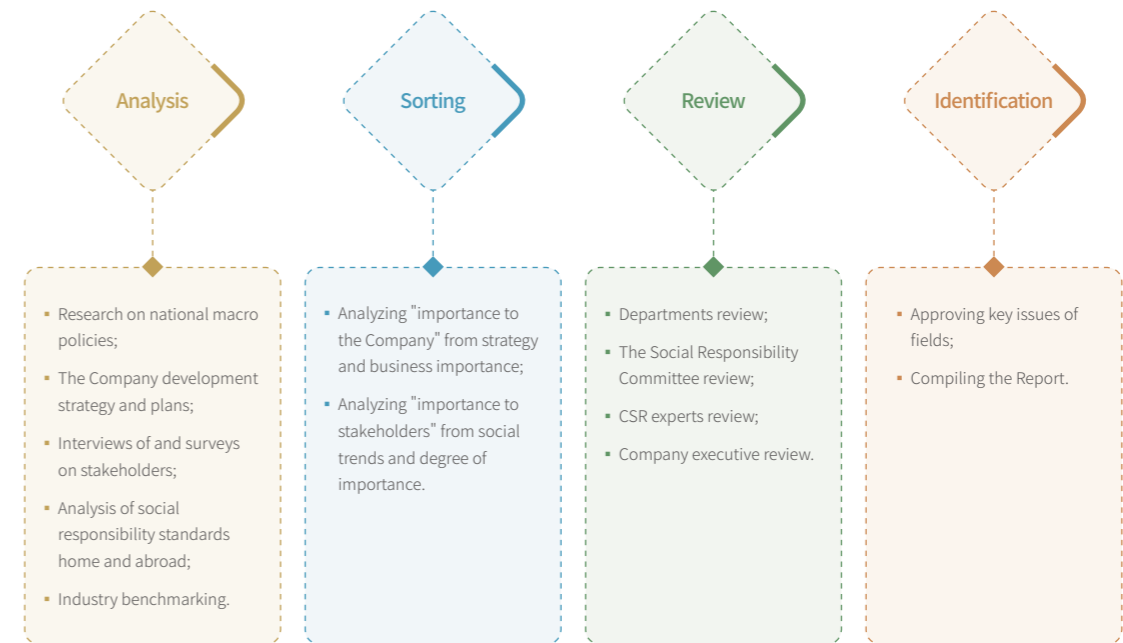
Compilation Process



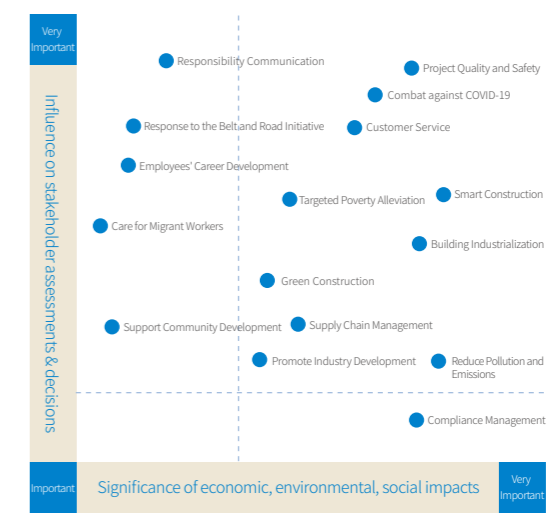
Issues Analysis

In line with the expectations of our external stakeholders, and analysis of our strategy and sustainable development capability, and based on Chinese and international social responsibility criteria, we sorted out the priorities of major issues from the perspectives of "importance of economic, environmental and social impacts" and "importance for stakeholders" and disclosed material topics in the report.

Analysis Process of Material Topics



Demands and Awareness of Stakeholders on Social Responsibility Issues



Analysis of Some Material Topics of Social Responsibility

Cities where the people live are built by the people and for the people. Urban construction and development matter to the living quality of the people. With a people-oriented approach, CSCEC is committed to "expanding a happy living environment" with the highest standards of "Constructed by China", makes rational plans for building working, living and ecological protection spaces, and expands public space. We strive to build modern cities that are harmonious and livable and that are full of vitality and distinctive features, and meet the people's aspirations for a better life.



Planning Sustainable Cities

To build cities that are livable and facilitate the development of industries, entertainment and tourism, we speed up exploring new models of industry-city integration, develop real estate in new towns, and make renovation plans for old towns. While inheriting the culture of cities, we build new city complexes where human and nature harmoniously coexist and share common development.



Building Sustainable Infrastructure

From the perspective of sustainability, wisdom and future, we invest in building high-quality, anti-risk, affordable and inclusive infrastructure, optimize the business development environment, and promote the flow of factors of production to drive the urban economy and improve urban residents' happiness index.



Constructing Sustainable Buildings

Focusing on people's needs, we apply global leading construction technologies and make rational plans for working, living and leisure spaces to construct high-quality, livable, suitable and disaster-proof buildings that are conducive to protecting environment, protecting people's health, and promoting economic prosperity.



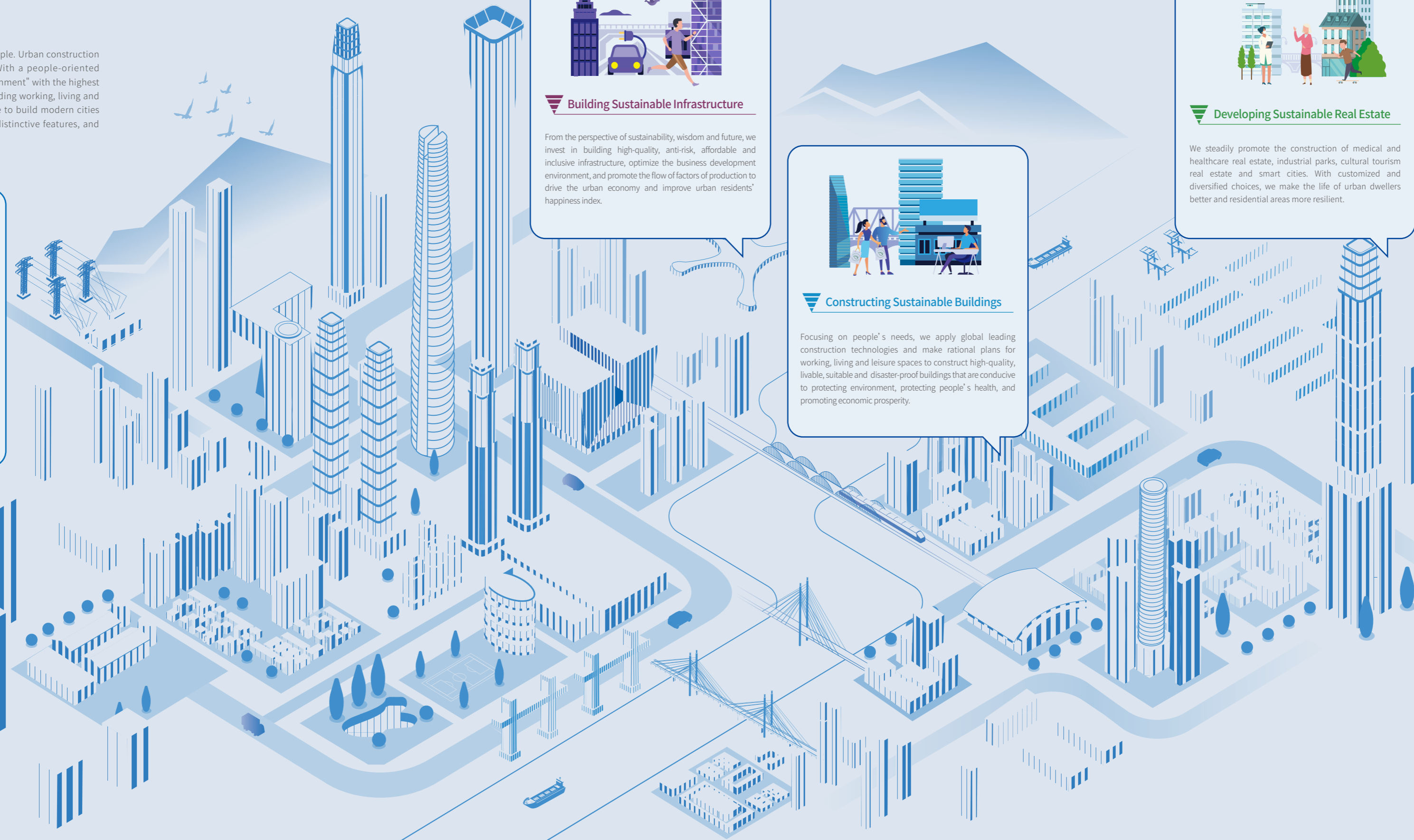
Developing Sustainable Real Estate

We steadily promote the construction of medical and healthcare real estate, industrial parks, cultural tourism real estate and smart cities. With customized and diversified choices, we make the life of urban dwellers better and residential areas more resilient.



Building Sustainable Cities

We enhance global resources allocation, and leverage the integration of domestic and overseas business development as well as the industrial chain integration, to preserve the culture of cities by combining new development vision, new direction for industrial development and new technological inventions. By so doing, we expand a happy living environment for global citizens and contribute to building a community with a shared future for mankind.



Figures CSCEC 2020

Data of business

Net profit attributable to listed companies RMB 44.94 billion	Earnings per share RMB 1.07	Value of newly-signed contracts RMB 3,200.8 billion	Operating income RMB 1,615 billion	Total profit RMB 94.29 billion	Annual investment RMB 438.5 billion
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Reverse roadshow promotion
2 times

Legal affairs trainings covered
12,132 person-time

Information disclosure reports
187

Letters of responsibility signed by personnel at all levels
26,000+

Seeking Steady and Long-term Development and Demonstrating Value-Creating Capabilities



Tien-Yow Jeme Civil Engineering Prize
6 projects

Annual granted patents
8,951

Compulsory national standards with CSCEC as a chief editorial unit
6

Shifting the Momentum for Innovation-Driven Development



National Quality Project Awards
74 projects

China Construction Engineering Luban Prize
32 projects

Quality training sessions
3,683

Enhancing Brand Influence with Ingenuity



Decrease in energy consumption per unit of output value year on year
4.3%

Environmental impact assessment rate of new projects invested reached
100%

Quality training participants
38,000 person-time

Enhancing Ecological Competitiveness Through Green Construction



Employees on-post
356,864

Employee Training covered
1,000,000+ person-time

Work safety training sessions
365,000

Supporting Corporate Development by Stimulating Employee Growth



Number of organizations who newly signed strategic cooperation agreement with CSCEC
4

Investment in subcontractor training
RMB **231.76** million

Subcontractor trainings covered about
1.61 million person-time

Pursuing Win-Win Development to Form a More Cohesive Partnership



Volunteer activities more than
7,000

Volunteer services accumulated over
140,000 hours

Jobs provided for migrant workers more than
2 million

Fulfilling Responsibility in Boosting People's Well-Being

	2017			2018			2019		
	China	CSCEC	Ratio	China	CSCEC	Ratio	China	CSCEC	Ratio
Total output of construction industry (RMB 100 million)	219,555	8,843	4.0%	242,123	13,058	5.4%	257,138	14,783	5.7%
Value of newly-signed construction contract (RMB 100 million)	439,461	22,249	5.1%	494,409	23,285	4.7%	545,035	24,863	4.6%
Housing construction area (10,000m ²)	1,318,374	122,106	9.3%	1,371,995	135,778	9.9%	1,441,504	145,671	10.1%
Housing area completed (10,000 m ²)	419,072	17,218	4.1%	411,498	19,013	4.6%	402,356	23,220	5.8%

Message from the Chairman

Enterprises bear not only economic and legal responsibilities, but also social and moral responsibilities. For CSCEC, the country and the people are the most important stakeholders; it is an unshirkable responsibility and our untiring pursuit to support coordinated regional development by growing into an enterprise that our people can rely on. For over six decades, we have incorporated our reform and development into the national economic development, weaved the CSCEC Dream into the Chinese Dream of national rejuvenation. We have created miracles one after another in global investment and construction, mapping out a big picture of "CSCEC transforms the world through 'Constructed by China' efforts".

The year 2020 was an extraordinary year in the history of the People's Republic of China. Confronted with complicated international situation and arduous tasks to stabilize the national reform and development, especially the severe impact of COVID-19, we focused on the "one creation and five aspects of strength" strategic goal, spared no effort to respond to COVID-19 and promote production and operation. Despite challenges and difficulties, we made contributions to supporting the country's fight against COVID-19, boosting economic development, and building a moderately prosperous society in all respects.

We resolutely and effectively responded to the sudden outbreak of COVID-19. Upholding the philosophy of "putting people and life in the first place", we resolutely supported the country's efforts to fight against COVID-19. We courageously undertook the tasks of building emergency hospitals in Wuhan and delivered Huoshenshan Hospital and Leishenshan Hospital in an amazing speed, creating the spirit of Huoshenshan and Leishenshan. Across the country, we built a total of 119 emergency hospitals in response to COVID-19. We carried out COVID-19 prevention and control in more than 14,000 domestic projects under construction, 186 overseas organizations, and more than 630 overseas projects. This year saw no concentrated outbreak at CSCEC and the projects undertaken by CSCEC.

We resolutely and effectively promoted production and operation. We took a host of targeted measures to promote the resumption of work and production, and made achievements beyond what we expected. We reached RMB 3 trillion in newly-signed contract value and RMB 1.6 trillion in revenue, making new highs in the Company's history. The profits of CSCEC totaled nearly RMB 100 billion. With these results, we gave full play to the role of a "stabilizer" and "ballast stone" for national economy.

We resolutely and effectively served national development decision. We acted in line with the country's strategy of promoting coordinated regional development, and built a large number of major landmark projects of environmental protection & governance and carbon neutrality in the Beijing-Tianjin-Hebei region, the Yangtze River Economic Belt, the Guangdong-Hong Kong-Macao Greater Bay Area (GBA), the Yangtze River Delta, and the Yellow River basin. Moreover, we undertook a batch of landmark projects to support the Belt and Road Initiative (BRI).

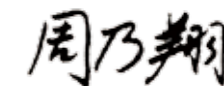
We resolutely and effectively advanced scientific and technological innovation. We held the S&T innovation conference in 2020, attracting 106,000 attendees. Throughout the year, we invested RMB 29.39 billion in research and development, making records in terms of R&D intensity and number of innovation results. We made a number of innovation achievements such as 10,000-ton press machine and residential building construction machine; together with advanced technologies such as midair tower-building machine, vertical shield machine, and "Swivel Construction of Five Bridges", we transformed the Company for better development. We continued to consolidate and expand the achievements of "green construction, smart construction, and industrialization of construction", advanced the integrated innovation of new infrastructure and conventional infrastructure, and explored the ways of building smart construction sites.

We resolutely and effectively deepened reform. We implemented a three-year action for the reform of state-owned enterprises (SOEs), and completed the 2020 target of CSCEC - 105 tasks and measures, improving the efficacy of CSCEC's reform. Through the Six Actions, we made remarkable progress and tackled lots of bottlenecks on the way towards the high-quality development. We made staged achievements in special reforms of key projects, with more mature pilot projects of the professional manager system. Moreover, we conducted the campaign of "benchmarking against world-class management practices" in full swing. Another achievement was made in the preparation of CSCEC's development plan during the 14th Five-Year Plan period.

We resolutely and effectively shouldered social responsibilities. We created a "CSCEC Model" of targeted poverty alleviation and helped lift the three designated poverty alleviation counties out of poverty. We created more than two million jobs and recruited 28,000 college graduates, making important contributions to ensuring stability on the six fronts and maintaining security in the six areas. We took bold steps to improve the modernization of the industrial chain and supply chain, and built a responsible supply chain with common development.

The year 2021 marks the first year of the 14th Five-Year Plan period (2021-2025). In the new development stage, China has been accelerating the pace of creating a new development paradigm featuring dual circulation, with much focus on the high-quality development. In 2021, we will act on the general principle of pursuing progress while ensuring stability; ground our efforts in the new development stage, apply the new development philosophy, and create a new pattern of development; we will pursue the "one creation and five aspects of strength" strategic goal, and apply the new development philosophy as the overwhelming guidance in our endeavor to seize new opportunities, make new progress, and get off to a good start in the 14th Five-Year Plan period.

Chairman



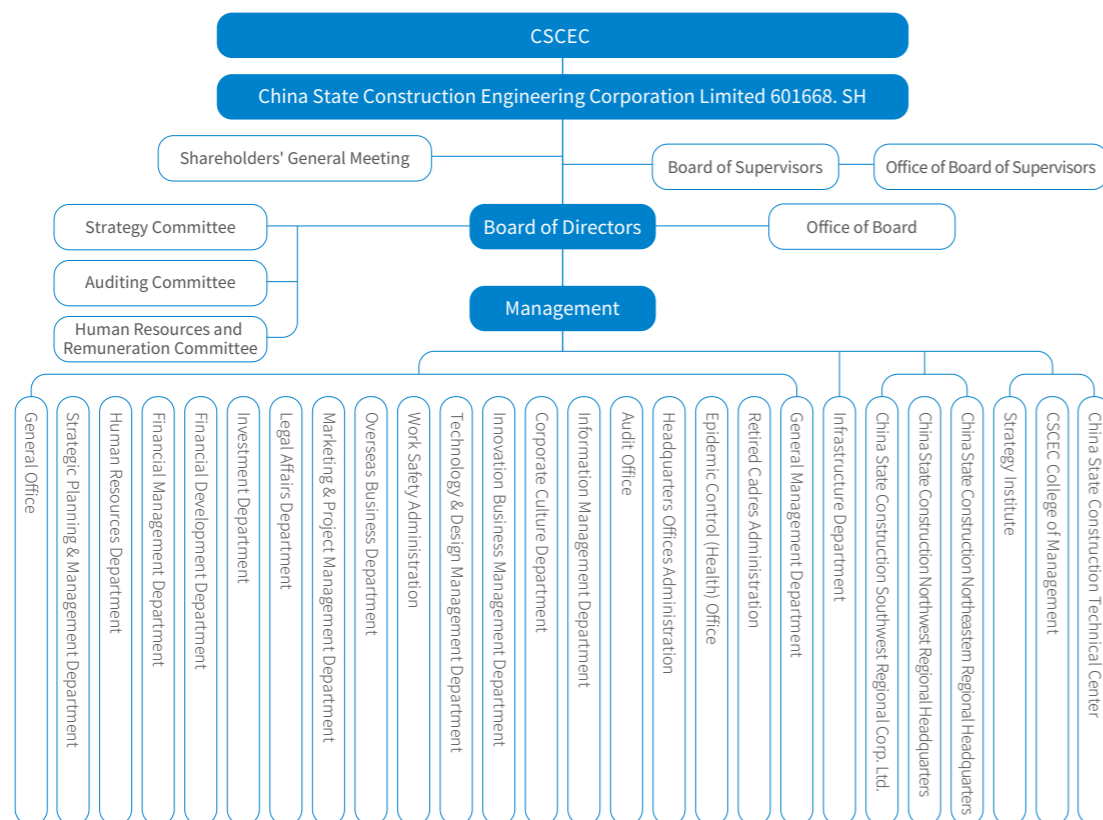
Company Profile

Founded in 1982, China State Construction Engineering Corporation (China State Construction) is a key state-owned construction enterprise under the direct administration of the Central Government. CSCEC is included in the Top 10 list of "building world-class model enterprises" by the SASAC. It is now the largest global investment and construction group, which ranks top in the industry in housing construction, infrastructure construction and investment, real estate development and investment, survey and design, etc. CSCEC ranked 18th in the 2020 Fortune Global 500 list and 1st in the list of ENR 2020 Top 250 International Contractors. Moreover, CSCEC maintains the top ratings in the industry by three renowned credit rating agencies - Standard & Poor's, Moody's and Fitch (S&P: A / Moody's: A2 / Fitch: A), with a "Stable" outlook.

China State Construction carries out business management activities through its public company - China State Construction Engineering Corporation Limited (stock code 601668.SH). CSCEC is one of the most powerful investors in China. Its main investment direction is real estate development, investment and financing on construction, comprehensive urban construction and other fields. The Company strengthens the integration of internal resources and business collaboration to provide all-round, whole-process and all-factor services for urban construction through four-in-one business model of "planning and design, investment and development, infrastructure construction, housing construction engineering".

CSCEC has operated business in more than 100 countries and regions across the world, covering all aspects of urban construction and all links of project construction. With strong capabilities of integrated design, construction and land development, CSCEC boasts a complete industrial chain covering product and technology R&D, survey and design, real estate development, engineering contracting, equipment manufacturing, assets operation, property management, etc. In China, CSCEC has built the vast majority of skyscrapers above 300m and a great number of buildings with high technological content and complicated structure.

Organizational Structure



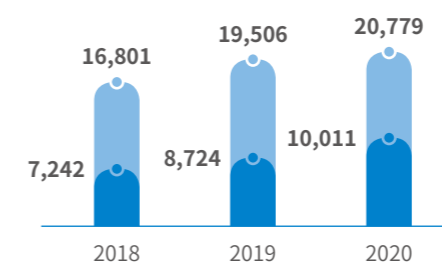
Business Layout

In 2020, CSCEC initiated the preparation of its plan for the 14th Five-Year Plan period in full swing. Under the guidance of "applying the new development philosophy and pursuing the high-quality development", CSCEC promoted enterprise structure optimization, transformation and upgrade. Applying the "one creation and five aspects of strength" strategic goal as the guidance of its plan for the 14th Five-Year Plan period, CSCEC made concerted efforts to promote development and lead the future. CSCEC adhered to the market-based approach, the high-quality development, reform and innovation, green development, the people-oriented approach, safe development, internationalized development and other philosophies; aiming to build a world-class enterprise with global competitiveness, CSCEC deepened the SOE reform, and made every effort to build a world-class enterprise with strong value creation, innovation leadership, brand influence, international competitiveness, and soft power of culture.



CSCEC gives full play to the competitiveness of the whole industrial chain. Adopting to the marketing strategy of "high-end market, high-end customers, high-end projects" and the business strategy of "low-cost competition, high-quality management", CSCEC has taken a series of measures such as continuously tapping its own potentials, implementing strict control of engineering quality and construction cost, and seeking high customer satisfaction so as to provide domestic and overseas customers with one-stop comprehensive services including design, construction and implementation of various high-tech, large-scale, high-precision, and advanced buildings. The Company has constructed lots of difficult projects in civil construction, public building, industrial construction and many other areas. We have also constructed plenty of landmark buildings such as skyscrapers, large venues, clean workshops, hotels, hospitals, schools, etc., representing the highest level of housing construction in China. CSCEC is a leader in housing construction in China and across the world. As an industry leader, the Company promotes ecological civilization and green development, and reduces energy consumption through green construction, smart construction, and industrialization of construction. CSCEC continues to provide a good living environment for society, raising the people's sense of gain, happiness and security.

● Newly-signed contract value (RMB 100 million)
● Realized operating income (RMB 100 million)

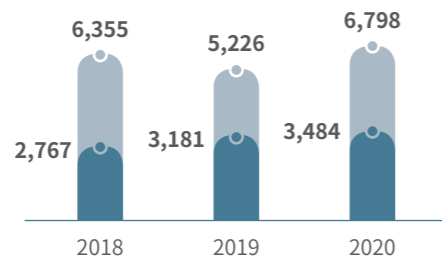


Infrastructure Construction and Investment



With a vision on engineering construction and project investment, by leveraging advantages in technology, talents and management, we have completed a great number of representative infrastructure projects both at home and abroad. These projects cover areas of urban rail transit, high-speed railways, mega bridges, expressways, municipal road project, urban integrated pipes and corridors, ports and channels, power, mining, metallurgy, petrochemical engineering, airports and nuclear power plants. Relying on enormous capital strength, we have quickly turned into China's top player in infrastructure investment and financing. We have invested in and constructed a large number of key national and regional projects and built our credit in BT, BOT, PPP and other investment and financing modes. In line with the country's strategies and the people's livelihood needs, CSCEC expands business in infrastructure and actively engages in new infrastructure construction, striving to meet the people's aspirations for a better life and serve the country's emerging industries.

● Newly-signed contract value (RMB 100 million)
● Realized operating income (RMB 100 million)

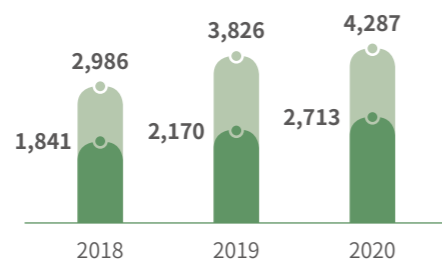


Real Estate Development and Investment



CSCEC owns two real estate brands - China Overseas Land & Investment Ltd. (COLI) and China State Construction Land (CSC Land). By enhancing integration of internal resources and business collaboration, CSCEC is committed to realizing vertical integration of investment, development, design, construction, operation, services, etc. Leveraging advanced construction technologies, cutting-edge concepts of real estate development and first-class property services, CSCEC has established a mature system of investment & operation and risk management in the real estate sector, forming unique competitive advantages in the industrial chain. At the same time, CSCEC has actively promoted product innovation and model innovation, so as to first meet the people's residential needs and then to fully advance new urbanization. The ultimate goal of these efforts is to expand a happy living environment and build a beautiful China.

● Contract sales (RMB 100 million)
● Realized operating income (RMB 100 million)

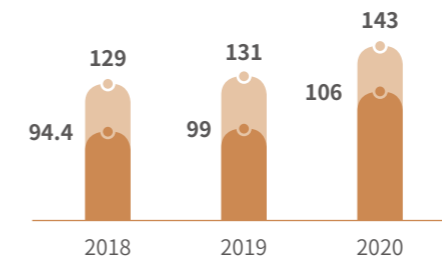


Survey and Design



The survey and design sector of CSCEC is mainly composed of seven large-scale survey and design enterprises with Grade-A design qualifications, which covers businesses in areas such as construction design, urban planning, engineering survey and municipal public engineering design, and ranks top in China in areas such as super high-rise buildings, airports, hotels, sports architecture, exhibition buildings and ancient buildings. The Company has nearly 10,000 professionals and technical personnel in the fields of construction engineering design, municipal engineering design, engineering survey, rock-soil, etc., with the total number of high-end professionals ranking top in the industry. The Company has made important contributions to the development of the industry in terms of design originality, technological innovation and standardization.

● Newly-signed contract value (RMB 100 million)
● Realized operating income (RMB 100 million)

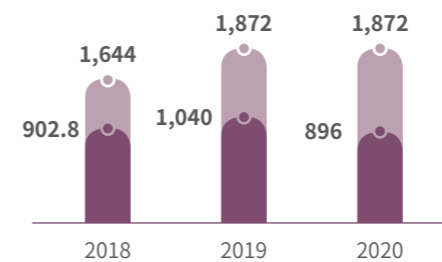


Overseas Operation



CSCEC is one of the earliest industry brands in China to carry out the international engineering contracting business. After over decades of overseas market development and operation, CSCEC has formed a relatively rational overseas market layout. The overseas engineering contracting businesses of CSCEC cover various areas including housing construction, manufacturing, energy, transportation, water engineering, industry, petrochemical, handling of hazardous materials, telecommunications, sewage/waste treatment, etc. CSCEC has explored and successfully carried out overseas property development. In terms of project operation, apart from the traditional mode of general contracting, the Company has also actively explored project operation modes such as general contracting driven by financing and investment, DB, EPC, BOT and PPP. Meanwhile, the Company has actively promoted capital operation ways such as cross-border merger and acquisition, striving to improve quality and efficiency of overseas business. The Company will continue to promote the strategy of "overseas development", enhance the localized operation and resource integration, implement the BRI, and explore overseas development to advance international operation with a stronger sense of mission, more ambitious target and higher positioning.

● Newly-signed contract value (RMB 100 million)
● Realized operating income (RMB 100 million)



Sustainability Background

In 2020, facing the complex situation full of risks and challenges at home and abroad, CSCEC benchmarked against world-class enterprises to improve management for the high-quality development. With the pioneering spirit and bold actions, CSCEC conducted reform and innovation, and achieved steady progress while ensuring stability, striving for a world-class enterprise at a more rapid pace.



Zhou Naixiang, Chairman of China State Construction, Chairman of CSCEC, visits CSCEC Taisei Corporation.



Jianxing: Situation, Tasks and Guideline Booklet

Analysis of operational strengths & weaknesses and countermeasures

Challenges

International

- The world economy is in deep recession. The international trade and investment shrink sharply, with a countercurrent against economic globalization.
- Protectionism and geopolitical risks are on the rise in some countries.

Domestic

- China is in a pivotal stage for transforming its growth model, improving its economic structure, and transitioning from a phase of rapid growth to a stage of high-quality development.
- COVID-19 has brought huge impacts.

Industrial

- Due to the COVID-19 pandemic, there is a severe shortage of construction workers.
- The competition in the housing construction market grows fiercer.
- Development varies among enterprises in the construction industry, market competition grows increasingly fiercer, and industrial integration and reorganization advance at a more rapid pace.

Opportunities

International

- The BRI becomes increasingly popular.
- Upholding multilateralism and democratization of international relations, China promotes the building of an inclusive world economy.

Domestic

- China is in a stage of rapid development of new industrialization, informatization, and urbanization. There are huge potentials of investment demand.
- New urbanization leads to the continuous growth of the construction market.

Industrial

- Coordinated development of conventional and new infrastructure is promoted.
- There are diverse development models in the construction industry, which provides guarantee for the development of the construction market.
- Coordinated development of smart construction and new industrialization of construction is promoted.

Strengths

- A high degree of marketization.
- Strong capability of resource allocation.
- An improved system of cost control.
- A high degree of professionalism.
- Strong capability of innovation in products, technology, organization and other aspects.
- We play our role in the fight against COVID-19, earning recognition from people all over the world.

Weaknesses

- There is still a gap between CSCEC and world-class enterprises.
- There is still a gap with high-quality development requirements.

Countermeasures

Benchmarking against world-class enterprises, CSCEC focuses on the "one creation and five aspects of strength" strategic goal and takes bold actions of reform and innovation to achieve the high-quality development.



CSCEC in Fight Against COVID-19

Since the outbreak of the COVID-19, we have adhered to the philosophy of "putting people and life in the first place", stuck to helping each other in the same boat and proactively participated in the construction of emergency projects such as Huoshenshan Hospital and Leishenshan Hospital. While responding to COVID-19, we promoted the resumption of work and production. We spared no effort to protect the life and health of overseas employees, and took concrete action to fulfill our responsibility as a national pillar in this critical period.

Two of our employees were awarded National Role Model for Fighting COVID-19.

"Within just over ten days, Huoshenshan Hospital, Leishenshan Hospital and 16 makeshift hospitals were built."
-An excerpt of the speech delivered by President Xi Jinping at the meeting to commend role models in the country's fight against COVID-19

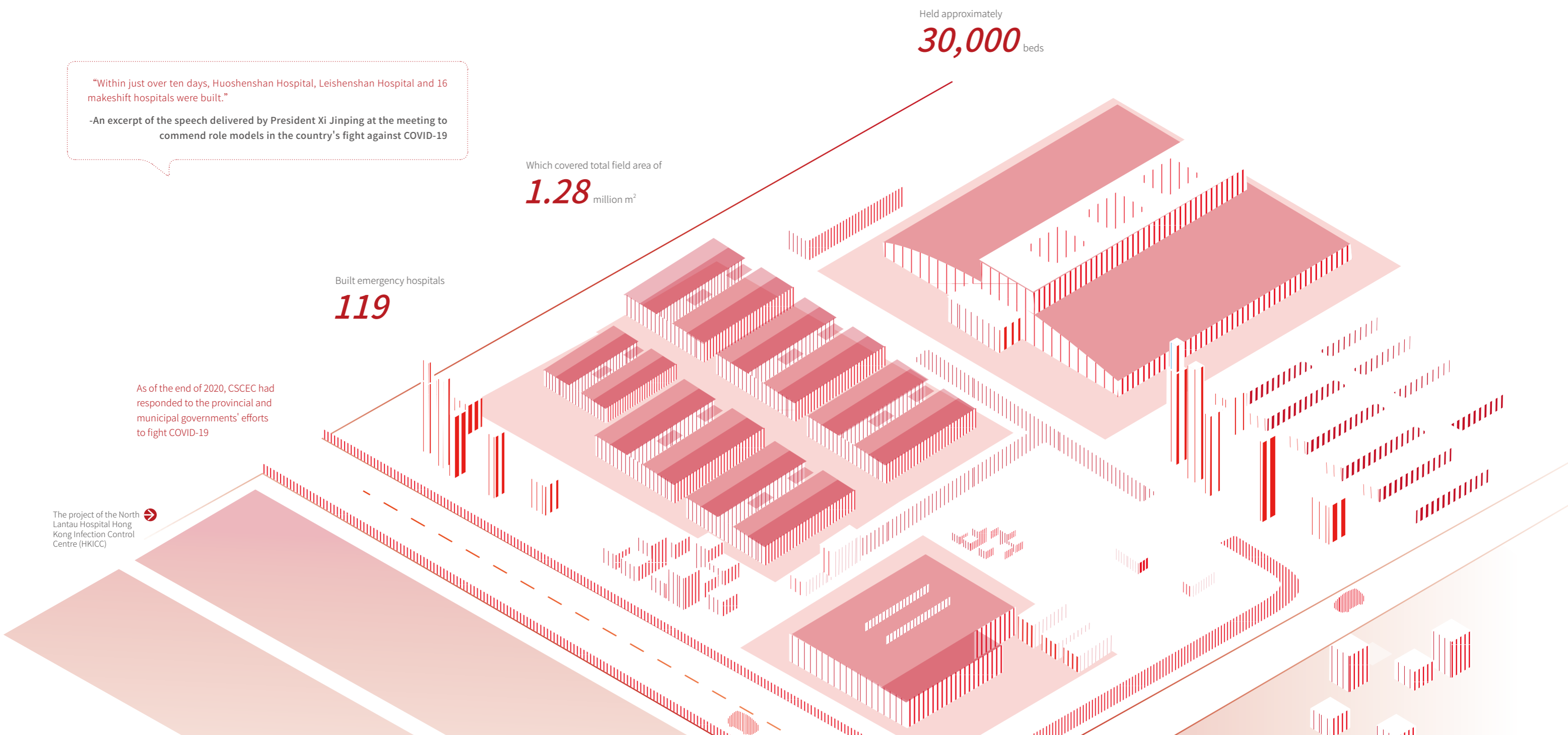
Held approximately
30,000 beds

Which covered total field area of
1.28 million m²

Built emergency hospitals
119

As of the end of 2020, CSCEC had responded to the provincial and municipal governments' efforts to fight COVID-19

The project of the North Lantau Hospital Hong Kong Infection Control Centre (HKICC)



Emergency Medical Facility Projects (partial)

Hubei

- The Huoshenshan Hospital Project
- The Leishenshan Hospital Project
- The Guanggu Branch Project of Tongji Hospital, Tongji Medical College Huazhong University of Science & Technology
- The Guanggu Branch Project of Wuhan Third Hospital
- The Sino-France New City Branch Project of Tongji Hospital, Tongji Medical College Huazhong University of Science & Technology
- The Eastern Branch Project of Renmin Hospital of Wuhan University
- The Mobile Cabin Hospital Project of China Optics Valley Convention & Exhibition Center
- The Mobile Cabin Hospital Project of Wuhan Gymnasium
- The Medical Center Project in Dabieshan Area, Huanggang City, Hubei Province
- The Project of Union Hospital, Tongji Medical College of Huazhong University of Science and Technology
- The Project of Wuhan Union Hospital
- The Mobile Cabin Hospital Project of Wuhan International Conference and Exhibition Center (a cultural complex known as the "Wuhan Living Room")
- The Taikang Tongji (Wuhan) Hospital (preparatory) Renovation Project
- The Mobile Cabin Hospital Project of Dajiankou Logistics Warehouse
- The Mobile Cabin Hospital Project of AIFEIKE Wuhan Base
- The Guanggu Branch Project of Hubei Maternity and Child Healthcare Hospital
- The Gedian Branch Project of Hubei Provincial Hospital of TCM
- The Project of Changjiang Polytechnic, Gedian
- The Jingbei New Branch Project of Jingzhou Central Hospital
- The Dongjin Branch Renovation Project of Xiangyang Central Hospital
- The Ankanglou Project of Hubei General Hospital
- The Mobile Cabin Hospital Project in Jiangxia District
- The Mobile Cabin Hospital Project in Wuhan Dongxihu District
- The Mobile Cabin Hospital Project in Wuhan Changjiang New Town
- The Zigui County People's Hospital Project
- The Mobile Cabin Hospital Project of Hubei University of Chinese Medicine
- The C5C6 Cabin Project of Long March Mobile Cabin Hospital
- The Medical Waste Transfer Warehouse Project of Long March Mobile Cabin Hospital



The Huoshenshan Hospital Project



The Leishenshan Hospital Project

Beijing

- The Quarantine Wards Project of Fuwai Hospital, CAMS & PUMC
- The Respirator Manufacturing Factory Project of Shijieweishi Company in Beijing Economic-Technological Development Area

Tianjin

- The Champagne Hotel Renovation Project
- The Pod Inn Renovation Project
- The Fever Clinic Project of Tianjin Hospital of Traditional Chinese Medicine
- The Fever Clinic Project of Tianjin Medical University Cancer Institute & Hospital
- The Project of Tianjin First Central Hospital
- The Pandemic Prevention and Fever Clinic Project of Tianjin Huanghe Hospital in the Nankai District, Tianjin
- The Fever Clinic Renovation Project of Teda International Cardiovascular Hospital, Tianjin
- The Biological Bank Project of Tianjin First Central Hospital

Guangdong

- The Emergency Branch of Phase II Project of the Third People's Hospital of Shenzhen
- The Emergency Wards Project of Phoenix Mountain Area, the Fifth Affiliated Hospital Sun Yat-Sen University
- The Novel Coronavirus Wards Project of the Ninth People's Hospital of Dongguan City
- The Novel Coronavirus Wards Project in Humen Town
- The Novel Coronavirus Wards Project of Dongguan Nancheng People's Hospital
- The Project of Pingdi People's Hospital of Shenzhen
- The Project of Longgang Hospital of Traditional Chinese Medicine, Shenzhen
- The Fixed-point Pandemic Prevention Hospital Construction Project of the People's Hospital in Pingshan District
- The Project of Pingshan Women and Children Healthcare Hospital
- The Project of Shenzhen Samii Medical Center
- The Makeshift Pandemic Prevention Wards Project of Zhongshan City
- The Quarantine Wards Project of the Ninth People's Hospital of Dongguan City
- The Novel Coronavirus-Infected Pneumonia Quarantine Wards Project of Guangdong Second Provincial Central Hospital
- The Emergency Wards Project in Sian, Dongguan City

Sichuan

- The Expansion Project of Jinniu Hospital, Sichuan Provincial People's Hospital
- The Phase II Renovation Project of Public Health Clinical Center of Chengdu
- The Project of People's Hospital of Mingshan District, Ya'an
- The Quarantine Wards Project of Tian Quan People's Hospital
- The Project of Zizhong County Hospital of Traditional Chinese Medicine
- The Project of Sancha Town Hospital
- The Makeshift Wards Project of the Northern Branch of Sichuan Integrative Medicine Hospital
- The Quarantine Wards Project of Public Health Clinical Center of Chengdu
- The Inpatient Building Renovation Project of the People's Hospital of Jianyang City
- The Negative-pressure Isolation Wards Project of Tianfu Branch of Chengdu Seventh People's Hospital
- The Project of West China Second University Hospital, Sichuan University
- The Negative-pressure Isolation Wards Project of the Infectious Disease Center in the New Area Branch of Affiliated Hospital of North Sichuan Medical College

Henan

- The Project of Zhengzhou Qiboshan Hospital
- The Pandemic Prevention Wards Project of the Fifth People's Hospital of Anyang
- The Novel Coronavirus Emergency Wards Project in Sanmenxia City
- The Project of the First Affiliated Hospital of Henan University of CM

Shaanxi

- The Project of Xi'an Public Health Center
- The Quarantine Wards Project of Kunlun Hospital
- The Quarantine Area of the Lanjia Village Subway Project

Anhui

- The Makeshift Hospital Project in Chuzhou
- The Novel Coronavirus Quarantine Center Project in Yongqiao District, Suzhou City

Hong Kong

- The Hong Kong Emergency Observation Center Project
- The project of the North Lantau Hospital Hong Kong Infection Control Centre (HKICC)
- The additional community treatment facility at Hong Kong's AsiaWorld-Expo (AWE)

Fujian

- The Negative-pressure Isolation Wards Project of the Affiliated Hospital of Putian University

Jiangxi

- The Novel Coronavirus Quarantine Wards Project of Fengcheng People's Hospital

Zhejiang

- The Expansion Project of the First People's Hospital of Longwan District, Wenzhou City

Shandong

- The Project of the No. 4 Hospital of Jinan, Shandong
- The Suspected Case Quarantine Wards Project of Laoshan Branch of the Affiliated Hospital of Qingdao University
- The Project of Shandong Shanxin Hospital
- The Project of Jiankou Branch of Zhucheng People's Hospital

Hebei

- The Renovation Project of Baoding No.1 Hospital

Guizhou

- The Emergency Project of Guiyang Public Health Clinical Center

Liaoning

- The Renovation, Expansion and Construction Projects of the Sixth People's Hospital of Shenyang
- The Air-conditioning Ventilation System Renovation Project of C Zone of the Sixth People's Hospital of Dalian
- The Medical Center Project in Jinzhou New District, the First Affiliated Hospital of Dalian Medical University

Chongqing

- The Novel Coronavirus Wards Project of Chongqing Prison Center Hospital

Guangxi

- The Project of Nanning Maoqiao Hospital

Jiangsu

- The Project of Tangshan Public Health Center
- The Expansion Project of Nanjing Jiangbei People's Hospital
- The Project of Jiangsu Province Hospital
- The Fever Clinic Project of Jiangsu Women and Children Health Hospital
- The Emergency Wards Project of Xuzhou Infectious Disease Hospital

Hainan

- The Fever Clinic Expansion Project of Hainan Hospital of PLA General Hospital



The project of the North Lantau Hospital Hong Kong Infection Control Centre (HKICC)



The additional community treatment facility at Hong Kong's AsiaWorld-Expo (AWE)

All of the above information is from public reports by August, 2020

Braving the Frontline to Build Huoshenshan Hospital and Leishenshan Hospital

On January 23 and January 25, 2020, at a time when COVID-19 was raging and special hospitals were in urgent need for COVID-19 patients in Wuhan, Hubei, CSCEC was assigned the task of building Huoshenshan Hospital and Leishenshan Hospital in Wuhan. This was a pressing life-saving project. Without hesitation, CSCEC shouldered this glorious and arduous task, and completed the construction of Huoshenshan Hospital within 10 days and Leishenshan Hospital within 12 days, making a record of China Speed and World Miracle.

Investment in the projects of Huoshenshan Hospital and Leishenshan Hospital

Builders

over **40,000**

Suppliers

1,608

Sub-contractors

925

Over **2,500** sets of large-scale equipment and transportation vehicles

Over **4,900** container houses

200,000 m² of anti-seepage film

Completing the tough work within limited time

Huoshenshan Hospital covers an area of 70,000 m², and its total field area reaches 34,000 m², accommodating 1,000 beds; Leishenshan Hospital covers an area of 220,000 m², its total field area reaches 79,900 m², accommodating 1,600 beds. Since Huoshenshan Hospital is built nearby waters, the maximum difference in elevation reaches nearly 10 meters. The construction of Huoshenshan Hospital requires the work of demolishing existing buildings, desludging in reeds and backfilling fish ponds; the volume of earth excavation, and sand and gravel replacement totals nearly 400,000 cubic meters. Since both hospitals are emergency projects, the construction process covers times of updated designs, improved usage standards and more engineering contents. Amid the pandemic and during the Spring Festival holiday, CSCEC encountered great difficulties in personnel organization, materials procurement, and facilities and equipment allocation, such as workers' holiday leave, factories' scheduled shutdown and Wuhan lockdown. The construction periods of the two hospitals are reduced from at least two years on a normal schedule to 10 days and 12 days respectively, which adds to the arduousness of the projects. Many people comment, "This is almost an unattainable task!"



Commencement of the Huoshenshan Hospital project

Saving life in an amazing speed

The "backbone" must withstand pressure and complete the task ahead of a normal schedule, turning "impossibility" into "possibility". CSCEC has rapidly established an efficient and sound on-site management system to ensure COVID-19 prevention and control, work safety, quality control, and schedule management. CSCEC rapidly mobilized the whole system to support the construction of the two hospital projects. The headquarters of CSCEC implemented the 24-hour emergency duty system; the subsidiaries of China Construction Third Engineering Bureau Group Co., Ltd. rapidly participated in the construction; 11 other subsidiaries of CSCEC rushed to the frontline to support Wuhan's fight against COVID-19, including China Construction First Group Corporation Limited, China Construction Second Engineering Bureau Ltd., China Construction Fourth Engineering Division Corp. Ltd., China Construction Fifth Engineering Division Corp., Ltd., China Construction Seventh Engineering Division Corp., Ltd., China Construction Eighth Engineering Division Corp., Ltd., China State Decoration Group Co., Ltd., China Construction Science and Industry Corporation Ltd., China Construction Industrial & Energy Engineering Group Co., Ltd. (CCIEE), China West Construction Group Co., Ltd., and China Construction Science & Technology Co., Ltd.



Rushing to Wuhan for frontline command and field guidance

Zhou Naixiang, Chairman of China State Construction, Chairman of CSCEC, and Zheng Xuexuan, General Manager of China State Construction, Director and President of CSCEC, hurried Wuhan in time for frontline command and field guidance. With precise judgment and decisive deployment, the top management guided frontline workers of CSCEC in Wuhan to formulate the hourly work schedule and organize work shifts on an hourly base, realizing simultaneous planning and design, plan compilation, on-site construction and resource allocation. Despite difficulties and challenges such as an extremely shortened schedule, CSCEC has made concerted efforts to complete the two hospital projects in line with the standards for the construction of infectious disease hospitals, with a strong supply system, efficient construction service and prefabricated construction technology.



The construction site of Huoshenshan Hospital



Prefabricated construction

Frontline command and coordination

In the construction of Huoshenshan Hospital and Leishenshan Hospital, the management at all levels of CSCEC took the lead to give frontline command. A total of 40,000 builders braved the frontline to support the construction of the two projects, putting the interests of the country ahead of their own, with their own actions to show the feelings of home and country, national spirit. All construction units involved in the projects, supported by operational teams and builders, worked day and night to ensure construction progress and quality. They have made record highs in China Speed, manifesting the four great spirits of the Chinese nation, i.e., the spirit of creation, the spirit of struggle, the spirit of unity, and the spirit of the Chinese dream.



Workers carried anti-seepage film

Scientific construction driven by digitalization

Science and technology are sharp weapons to defeat the COVID-19 pandemic. CSCEC has innovatively adopted a mix of technologies such as staged reversal design, modern logistics improvement, modular construction and rapid project acceptance to form the integrated construction technology for emergency hospitals. Such a technology package, characterized by the highly integration of design, construction, logistics and process optimization, enabled the Company to build and deliver the two emergency hospitals on a tight schedule.

Moreover, CSCEC has applied its independently developed BIM application platform to ensure that the BIM models can be used via the internet for manufacturing in factories, construction on site, and whole-process operation & maintenance. In doing so, CSCEC simulated the process in advance to lay 360,000 meters of various pipelines and build over 6,000 information points, and ensured that the on-site installation was in place. With the integration of intelligent technologies, supported by 5G, AI, cloud computing, big data and other modern information

technologies, CSCEC developed the intelligent operation and maintenance management platform that connects with 17 hospital information systems in five categories, realizing smart security, smart logistics, smart review, "zero-contact" operation & maintenance, and the remote consultation between Huoshenshan Hospital and Beijing 301 Hospital.



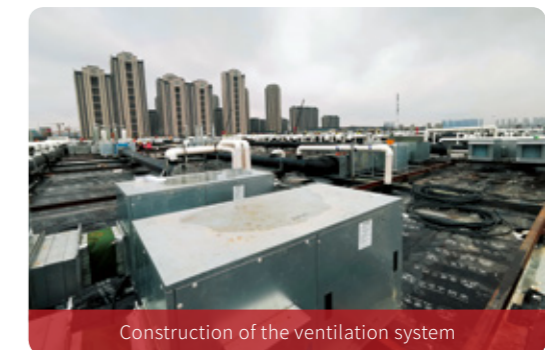
Laying 4,000 kilometers of wires and cables

Guaranteeing stable operation

Upon project delivery, Huoshenshan Hospital and Leishenshan Hospital were put into operation. Guaranteeing the stable operation of the two hospitals is an inevitable responsibility of CSCEC. After the two hospitals were delivered, CSCEC dispatched a 70-person maintenance team to Huoshenshan Hospital and a 350-person maintenance team to Leishenshan Hospital. Leveraging professional advantages, CSCEC offered thoughtful and timely maintenance services to ensure the highly efficient operation of the two hospitals. For many maintenance operations, the personnel needed to enter infectious disease quarantine wards. Despite higher exposure and infection risks, the maintenance personnel stayed on their post to check circuits, intensify ventilation pipes, repair air conditioners and dredge toilets, so as to ensure the stable operation of the hospitals.

During the 73 days since the operation of Huoshenshan Hospital and during the 68 days since operation of Leishenshan Hospital, nearly 5,000 COVID-19 patients were cured. CSCEC's maintenance personnel stood behind the medical workers till the last COVID-19 patient was discharged.

With the careful maintenance of CSCEC, the negative pressure wards of the two hospitals maintained the standard negative pressure of 20Pa. All wards tested negative for COVID-19 and none of the medical staff and maintenance personnel was infected. This has created a miracle in the treatment of infectious diseases, proving the excellent quality of construction and maintenance of the two hospitals.



Construction of the ventilation system

Providing humanistic care to ensure zero infection

The migrant workers are the main force of CSCEC's construction teams. They worked day and night to support Wuhan's fight against COVID-19, making them the Most Charming Builders in Wuhan amid the pandemic. CSCEC spared no effort to protect the legitimate rights and interests of the migrant workers. All personnel who were about to enter or leave the construction site were required to measure body temperature. All sites were disinfected no fewer than 4 times per day, and the body temperature of all operators were monitored no fewer than 4 times a day. Paying much attention to migrant workers' salaries and benefits, CSCEC made special research and deployment on the payment of migrant workers' salaries, which was authentically implemented by all construction units involved in the project. In addition, nutrition subsidies and other high-quality services of clothing, food, accommodation and transportation were provided for on-site operators on an ongoing basis.

Upon the completion of the two hospitals, CSCEC helped the migrant workers go through medical observation and evaluation before returning to their hometowns. Quarantine

or isolation subsidies were offered to every migrant worker. And thoughtful services such as one-stop chartered buses were provided to facilitate migrant workers to return to the cities, counties, towns or villages where they originally lived or worked. To ensure that every migrant worker could go home or return to original posts safe and sound, CSCEC also provided them with one-time subsidies for lockdown stranding and return transportation.



Random temperature measurement and spot check

Delivering Emergency Hospitals in Hong Kong

In August 2020, the third wave of the COVID-19 pandemic raged in Hong Kong. In response to the request of the Government of the Hong Kong Special Administrative Region of the People's Republic of China (the HKSAR Government), the central government urgently mobilized resources to implement three major aid projects in order to help Hong Kong SAR win the battle against COVID-19. Among them, the two projects designed and constructed by China Overseas Holdings Limited (COHL), the project of the additional community treatment facility at Hong Kong's AsiaWorld-Expo (AWE) and the project of the North Lantau Hospital Hong Kong Infection Control Centre (HKICC), were completed and delivered respectively on October 9, 2020 and January 20, 2021.

Design and construction of the additional community treatment facility at Hong Kong's AWE

The additional community treatment facility project undertaken by COHL was exhibited at Pavilions 8-11 of AsiaWorld Expo Convention Center in Hong Kong. The project had a total field area of around 30,000 m² and accommodated 952 beds, including 160 negative pressure beds (40 negative pressure wards), 792 ordinary beds, and 32 public facilities including nurses' stations. The construction period of the additional community treatment facility project, earmarked for COVID-19 patients, was 28 days.



Completion and handover ceremony of the additional community treatment facility at Hong Kong's AsiaWorld-Expo (AWE)

Design and construction of the project of the HKICC

In strict accordance with Hong Kong's regulations and standards, and the requirements of the HKSAR Government, COHL leveraged technological innovation, accumulated resources, mature designs and construction models to complete the design, construction and delivery of the North Lantau Hospital HKICC within only four months. Earmarked for centralized treatment of COVID-19 patients, the project covered an area of around 30,000 m², with total field area of around 44,000 m². It included six ward buildings, one medical center and supporting facilities; 136 rooms and 816 negative pressure beds were provided, which substantially eased the pressure on Hong Kong's medical system.

COHL equipped the project with humanized facilities and equipment: fully-automatic nucleic acid testing (NAT) devices, contactless doors, building-scale ubiquitous facilities of cleaning and disinfection, instructions on protective equipment posted in corridors, etc. During construction, the entire construction site was divided into grids and the smart construction site system was employed to build an Internet of Things (IoT) on the construction site, better ensuring COVID-19 prevention and control.

Supporting Hebei's Fight Against COVID-19

In January 2021, in order to contain the spread of COVID-19, Shijiazhuang City in Hebei Province was put under lockdown. CSCEC once again raced against time to fight against the pandemic, becoming the first central SOE doing on-site construction in Shijiazhuang City during lockdown. China Construction Second Engineering Bureau Ltd. was the major construction unit in the project responsible for building centralized quarantine and isolation spaces in Huangzhuang, Shijiazhuang City, supported by China Construction First Group Corporation Limited, China Construction Third Engineering Bureau Co., Ltd., China Construction Fourth Engineering Division Corp. Ltd., China Construction Fifth Engineering Division Corp., Ltd., and other affiliated companies of CSCEC. After five days and nights, the first batch of 748 prefabricated rooms were built.



Shijiazhuang Zhengding Centralized Quarantine and Isolation Spaces Project

Responding to COVID-19 and Promoting Social and Economic Development

The COVID-19 prevention and control of the pandemic matters to the people's life while the resumption of work and production matters to the people's livelihood. While continuing to carry out COVID-19 prevention and control on an ongoing basis, CSCEC gave priority to stabilizing operation, industrial chain and the enterprise, and ensuring national economy, the people's livelihood, implementation of major engineering projects, work safety and high-quality development. CSCEC mobilized forces as many as possible to resume production and make up for the losses incurred by the pandemic. These efforts helped improve business performance and contributed to stable economic growth.



Gradient pressure isolation ward

Improving routine COVID-19 control measures

We always put the safety and health of employees first. Amid the pandemic, we spared no effort to help employees return to work, established routine control mechanisms, and ensured the effective implementation of COVID-19 prevention and control measures in regions where we operated business. One of the focuses was our projects in Beijing. We established 8 coordination working groups, formulated special measures, and carried out special inspections to safeguard the safety of Beijing. Moreover, we established the COVID-19 Prevention and Control (Employee Health) Office of the Group and improved routine control mechanisms. Priority was given to the routine COVID-19 prevention and control of more than 14,000 projects under construction in China, so as to protect the 350,000

employees and over 2 million migrant workers in these projects. No concentrated outbreak occurred at CSCEC and the projects undertaken by CSCEC.



Disinfection for COVID-19 prevention



Protecting employees' health with science and technology

China Construction First Group Corporation Limited independently developed the COVID-19 prevention and work resumption applet to oversee the overall situation of projects under construction amid the pandemic. The Beijing Shichuang (Strong) Medical Valley Industrial Park project upgraded its original real-name channel to a technology-based COVID-19 prevention channel integrating intelligent temperature measurement, atomization disinfection, hand sterilization and other functions. The Shenzhen Qianhai International School project innovatively employed AI temperature measurement at the entrances and exits of the workers' living quarters to achieve rapid facial temperature

monitoring, send immediate alerts, and upload the data in real time to the customer-end temperature monitoring platform of Qianhai Administration Bureau.



CSCEC's smart remote management platform for work safety

Driving the industrial chain to resume work and production

Acting as the main force of central SOEs, we promoted resumption of work and production while carrying out COVID-19 prevention and control on a continuing basis. Through implementing targeted control measures in different regions, we consolidated the anti-pandemic results in key regions, optimized the construction project plan in a scientific way, and improved the efficiency of work and production resumption, striving to minimizing the COVID-19 impact on CSCEC and ensuring safety and performance fulfillment on schedule. These efforts enabled us to contribute "CSCEC Power" to the accelerated recovery of the national economic and social order. As of the mid of April, 2020, China Construction First Group Corporation Limited has resumed work and production in 1,142 projects, with the rate for projects under construction reaching 96%; China Construction Second Engineering Bureau Ltd. has resumed work and production in over 1,300 projects, with

the rate for projects under construction reaching 90%; China Construction Third Engineering Bureau Group Co., Ltd. resumed work and production in 1,521 projects, with the rate for projects under construction reaching 97%.



The Zhuhai Hengqin Science City project promotes resumption of work and production amid the pandemic



Ramping up efforts to promote the Datang-Pubei Expressway project

The Datang-Pubei Expressway (Dapu Expressway) project, constructed by China Construction Communications Engineering Group Corp., Ltd., is an important part of the "Longitudinal 4" Beiliu (Qingwan) to Nanning (Suxu) Expressway in the Guangxi Expressway Network. After the Dapu Expressway is completed, it becomes the most convenient expressway passage connecting Nanning, Qinzhou and other northern bay areas to Guangdong, Hong Kong and Macao. The preparation of plans for COVID-19 prevention & control and work during the rainy season, and the active participation of over 2,500 builders provided strong guarantee for project progress and quality. The Dapu Expressway was opened to traffic at the end of 2020, more than four months ahead of schedule.



The Datang-Pubei Expressway project

China State Construction Finance Co., Ltd. (CSCFC) makes every effort to ensure that fund transfer channels are unblocked and funds are used with zero delay and zero error. CSCFC has built a special fund pool of RMB 5.17 billion for COVID-19 prevention & control, resumption of work and resumption, and special projects that require substantial financial support; CSCFC has also implemented the exemption policy for special loan interests and services. At the same time, China Construction Seventh Engineering Division Corp., Ltd. has issued RMB 2 billion perpetual bonds to drive the coordinated development of upstream and downstream companies and speed up the resumption of work and production in the entire industry chain.

Intensifying COVID-19 Control in Overseas Projects

CSCEC enhances international cooperation in full swing. With concerted efforts, we join hands with our stakeholders to strive to win the battle against the severely infectious disease. To date, we have projects under construction in over 80 countries and regions across the world. Protecting the safety and health of overseas employees is our top priority. Throughout the year, we provided strong guarantee in this aspect; no concentrated outbreak occurred in 186 overseas organizations and over 630 overseas projects of CSCEC.

Top-level design for anti-virus efforts

In line with the country's efforts to guard against inbound cases and domestic resurgences, we have taken targeted measures and strictly fulfilled the main responsibilities to ensure effective COVID-19 prevention and control in different countries and regions.

We have set up an overseas work team of COVID prevention and control and a special fund to ensure the sufficient allocation of medical personnel and medical supplies; we have also established an internal mechanism for joint prevention and control, compiled and released the *CSCEC Guidelines on COVID-19 Prevention and Control for Overseas Projects*, and improved emergency facilities to intensify the anti-virus capability of overseas projects. To ensure effective execution, we have implemented the employee rotation plan for overseas projects, and carried out virtual and on-site inspections of key projects and those undertaken in key countries and regions.



Five language versions of CSCEC Guidelines on COVID-19 Prevention and Control for Overseas Projects released

CSCEC insists on implementing routine measures for overseas projects. We have produced the video of *CSCEC Guidelines on COVID-19 Prevention and Control for Overseas Projects* in five language versions. The Guidelines provide anti-virus guidance for overseas employees and local employees of overseas projects, ensuring stable production and keeping employees safe and sound amid the pandemic.

The video consists of seven parts, covering disinfection, on-site COVID-19 prevention, pandemic prevention in office areas, pandemic prevention in dining halls, etc. It has been released simultaneously in five language versions namely Chinese, English, French, Russian, and Arabic.



The video of CSCEC Guidelines on COVID-19 Prevention and Control for Overseas Projects

Refining measures to intensify anti-virus efforts

We have adopted comprehensive measures to ensure normal life and work in overseas organizations, and to ensure public health and safety in all locations where we operate overseas business. We carry out health checks for employees who are about to go to overseas projects, adopt stricter quarantine measures, and intensify health monitoring of dispatched personnel. Moreover, we incorporate subcontractors, suppliers, and local partners into our COVID-19 prevention and control system, so as to ensure full coverage anti-virus efforts.



Conducting multi-dimensional management of COVID-19 prevention and control

Since the outbreak of the pandemic, CSCEC Algeria has immediately established a work team of COVID-19 prevention and control, which was responsible for overall deployment and implementation. It has built over 25 quarantine and isolation spaces for over 500 employees returning to work in Algeria, and launched a health information online reporting system for over 5,000 employees from CSCEC Algeria and its partners. At the same time, it has formulated a trilingual (Chinese, Algerian and French) COVID-19 prevention manual, and put up special posters to help employees quickly

acquire knowledge of the virus and anti-virus response. This move helps employees respond to COVID-19 in a scientific way and avoids panic.



Inviting external experts to give training on COVID-19 prevention before work resumption

Joining hands with our stakeholders amid the pandemic

We pursue the philosophy of building a community with a shared future for mankind, and work with local stakeholders to fight against the COVID-19 pandemic. We have successively assigned work teams with medical personnel to Egypt, Algeria, Cambodia, Ethiopia and other countries and regions to support local anti-virus efforts. We spare no effort to promote local COVID-19 prevention and control by donating anti-virus materials and responding to local government's efforts to improve emergency facilities, carrying forward CSCEC Spirit and enabling global citizens to know CSCEC's mission of "expanding a happy living environment".



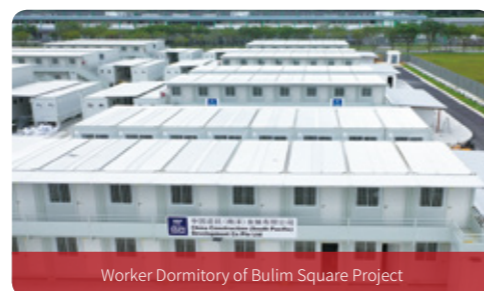
Cementing the safety line for migrant workers

The placement of migrant workers is an important part of Singapore's anti-pandemic work. Responding to the call of the Housing & Development Board (HDB) of Singapore, China Construction (South Pacific) Development Co Pte Ltd overcame obstacles caused by the pandemic, intensified internal resources integration, and implemented refined designs and high-quality construction of the SPH QBDS Quick Build Dormitory Choa Chu Kang Grove project. These efforts improved the living conditions of migrant workers and advanced the resumption of work and production in the construction industry.

SPH QBDS Quick Build Dormitory Choa Chu Kang Grove: The new dormitory is designed to meet Singapore's Improved Standards of New Dormitories for Migrant Workers. Each fully furnished room has bathrooms, bedding, cabinets, etc. Other services include indoor

fitness centers, barbershops, prayer rooms, free WiFi, etc.

Worker Dormitory of Bulim Square Project: Modular rooms, same as the ones in constructing the Huoshenshan Hospital in Wuhan, were prefabricated in China and shipped to Singapore for the worker dormitories. After an eco-friendly and flexible construction process, the dormitories are equipped with necessary living facilities.



Worker Dormitory of Bulim Square Project

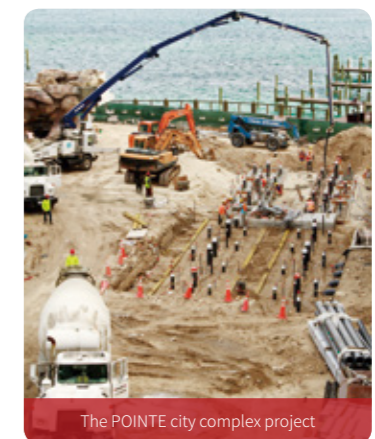
Promoting project construction on schedule

We attach great importance to project performance. Despite the impact of COVID-19, we ensure the progress, safety and quality of key overseas projects, health and safety of overseas employees, and orderly production and operation, facilitating local economic and social development to return to normal. In 2020, among our overseas projects, a few buildings in the Central Business District (CBD) of the New Administrative Capital of Egypt were completed, Brunei's Temburong Bridge was open to traffic ahead of schedule, and the Algeria's Grand Mosque, the world's third-biggest by area, was put into operation.



Supporting the resumption of work and production in the POINTE city complex project

The POINTE city complex project, undertaken by China Construction America (CCA), was suspended due to the pandemic. As the construction industry was incorporated by local government in the first batch of industries to promote resumption of work and production, CCA formulated plans for employee mental health in advance, so as to ensure that timely guidance and assistance can be provided for employees on mental health in special times. Moreover, CCA developed scientific plans to resume project construction. After the project was restarted, CCA conducted COVID-19 prevention & control and supervision to protect the health and safety of employees while promoting production resumption to ensure project completion on schedule. The POINTE city complex project will drive local tourism and act as a "catalyst" to promote economic recovery of the Bahamas Islands in the post-pandemic era.



The POINTE city complex project

Boosting the economic development of Bosnia and Herzegovina at a China Speed

The 5C Corridor Expressway project constructed by CSCEC is the first expressway and bridge built by a Chinese company in Bosnia and Herzegovina (BiH), and it is also the first three-way cooperation project between BiH, the EU and a Chinese company. Facing the challenges of the pandemic, we have formulated multiple sets of emergency response plans and adopted 24-hour closed-loop management to ensure that key construction nodes are not affected, and that tunnel construction is advanced steadily. In July 2020, as the representative of the construction units of the Chaplina section of the Pan-Europe 5C Corridor Expressway project, CSCEC won the Enterprise of the Year Award from BiH's *Evening News*, a top media outlet in the country.



Donating masks to the Government of the Federation of Bosnia and Herzegovina



CSCEC in Fight Against Poverty

At the end of 2012, the CPC Central Committee emphasized that "the key to a moderately prosperous society depends on farmers, especially on whether those poor can shake off poverty", and promised that "no poor area or a poor person would be left behind", embarking on the journey of poverty alleviation in the new era. In 2020, China scored historic achievements in securing a full victory in building a moderately prosperous society in all respects, and attained a decisive victory in the fight against poverty, reaching the poverty reduction target in UN's 2030 Agenda for Sustainable Development ten years ahead of schedule. CSCEC has intensified organizational leadership, increased resources input, and made targeted efforts to promote poverty alleviation. We created a "CSCEC Model" of targeted poverty alleviation and helped lift the three designated poverty alleviation counties (Zhuoni County, Kangle County, Kang County of Gansu Province) out of poverty, contributing to a complete victory in the fight against poverty.

For 8 years, CSCEC and its controlling shareholder China State Construction

RMB **1.6** billion capital contribution to the Central Enterprise Poverty Alleviation Fund (ranking top among central SOEs)

RMB **278** million self-directed investment and attracted investment in poverty alleviation

24 officials assigned to serve temporary positions of poverty alleviation

RMB **103.3** million worth of products from poverty-stricken areas we purchased or helped sold

6,955 primary-level officials and technical personnel participating in vocational skills trainings

3,218 poor people employed or covered in labor transfer

196,000 registered poor people we lifted out of poverty

345 poor villages we lifted out of poverty

Recognized as one of the best units in the Central Enterprise poverty alleviation assessment for three years in a row, CSCEC has also been awarded the "Responsible Central Enterprise on Poverty Alleviation of the Year" and "Advanced Group for Poverty Alleviation in Gansu Province".

The three designated poverty alleviation counties of Gansu were lifted out of poverty one year ahead of schedule.

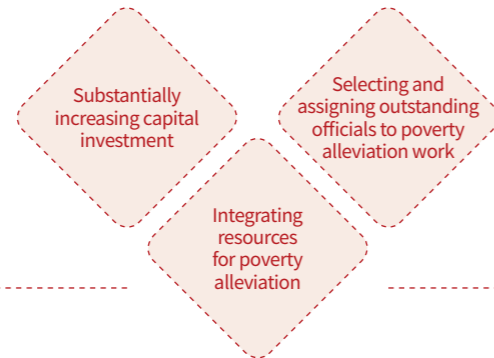
Enhancing Resource Guarantee

CSCEC fulfills its responsibility of fixed-point poverty alleviation by conducting special research, deployment and implementation at all levels. In 2020, the headquarters of China State Construction held six high-level special meetings to discuss measures to win the battle against poverty and review the list of key projects of fixed-point poverty alleviation. Six members of the top management of China State Construction went to the frontline to urge the fulfillment of major responsibilities of poverty alleviation, including 8 field tours in the three designated poverty alleviation counties of Gansu and 11 symposiums or talks with heads of local governments at county, city and prefecture levels. Human resources, materials, funds and other resources were integrated in line with the tasks and targets of attaining a victory in the fight against poverty.



Zhou Naixiang, Chairman of China State Construction, Chairman of CSCEC, conducted a field tour to review poverty alleviation efforts in Kangle County

Self-directed investment and attracted investment in poverty alleviation: RMB 109.4496 million (year-on-year increase of 43.94%); Value of agricultural products from poverty-stricken areas we purchased or helped sold: RMB 68.44 million (year-on-year increase of 159.33%).



Number of officials selected and assigned to serve temporary positions of poverty alleviation: 14 (including 3 Deputy County Chief, 1 Deputy Director of County-level Poverty Alleviation Office, 5 First Secretary, and 5 members of the village-based poverty alleviation work team).

A total of 12 secondary subsidiaries paired up with the three poverty-stricken counties to promote poverty alleviation and 34 subsidiaries participated in poverty alleviation through consumption. At the same time, we collaborated with China Foundation for Poverty Alleviation, China Women's Development Foundation (CWDF), Guo Mingyi, Gansu Vocational College of Architecture, as well as *Man and Nature* and *Animal World* CCTV shows, forming a multi-party mechanism for poverty alleviation.

In 2020, overcoming the impact of COVID-19, CSCEC continued to support the country's fight against poverty and endeavored to ensure that rural poor people are free from worries over food and clothing and have access to compulsory education, basic medical services and safe housing. Throughout the year, CSCEC helped lift the remaining 4,885 registered poor people and 3 impoverished villages out of poverty, accomplishing the tasks of fixed-point poverty alleviation and reducing the poverty rate to zero.



Registered poor people holding cultivated mushrooms wear a smiley face



Procurement of agricultural products from the three designated poverty alleviation counties of Gansu

In 2020, CSCEC and its controlling shareholder China State Construction invested in the three designated poverty alleviation counties (Zhuoni County, Kangle County, Kang County of Gansu Province)

RMB **109.4496** million
self-directed investment and attracted investment in poverty alleviation

4,885
registered poor people we helped lift out of poverty

4,694
poor people participating in vocational skills trainings

2,799
poor people we helped through transfer of employment

45,578
poor people we helped through compulsory education projects

113,607
poor people we helped through basic medical support

3,595
poor people we helped through housing safety projects

12,866
poor people we helped through drinking water safety projects

RMB **68.44** million
worth of agricultural products from poverty-stricken areas we purchased or helped sold

Adopting Multiple Measures to Expand the Results of Poverty Alleviation

Under the guidance of the new development vision, CSCEC has innovatively created a "CSCEC Model" of targeted poverty alleviation, which covers industrial development, employment, education, consumption and other ways of poverty alleviation. CSCEC's practices in this regard have been included in the *50 Typical Comprehensive Cases of Targeted Poverty Alleviation by Chinese Enterprises (2019)*.

Optimizing the tourism sector through "entire industry chain"

"The development of industries is an essential way to eradicate poverty." Leveraging the advantages of the entire industry chain, we strive to benefit from lucid waters and lush mountains, and help the three designated poverty alleviation counties of Gansu shake off poverty and achieve prosperity through the development of the tourism.

With the advantages of the entire industry chain (investment, design and construction), we help the three designated poverty alleviation counties of Gansu develop cultural and tourism projects. We invited experts from Peking University to give training on the operation of the tourism sector, with 1,596 person-time participating farmstay businesses; we guided subsidiaries to carry out tourism-based poverty alleviation activities such as model worker recuperation, and collaborated with CCTV shows and hotels, property management companies and media convergence platforms of CSCEC to promote publicity. In 2020, the three designated poverty alleviation counties of Gansu received 4.634 million visitors, and the overall tourism income reached RMB 2.08 billion.



The CSCEC Zhuoni Characteristic Industry Demonstration Area

Zhuoni has a long history, beautiful scenery and rich products. China Construction Eighth Engineering Division Corp., Ltd. has taken targeted measures to promote poverty alleviation. Relying on the Zhuoni Characteristic Industry Demonstration Area project, China Construction Eighth Engineering Division Corp., Ltd. has continued to innovate and expand poverty alleviation models, and succeeded in building the CSCEC Zhuoni Characteristic Industry Demonstration Area into a demonstration base covering exhibition and experience of characteristic industries, online and offline trade, research and development of characteristic products, and tourism services. At the same time, China Construction Eighth Engineering Division Corp., Ltd. actively supported the local

government to explore the link between industry-driven poverty alleviation and job creation, offering jobs to local registered poor households. The income distribution of the project is tilted to poor households for repaying debts or purchasing production materials, contributing to poverty eradication in a sustainable way.



Building the Kang County Tourism-driven Poverty Alleviation Demonstration Park

In order to improve tourism experience and the development of the tourism industry in Kang County, China Construction Third Engineering Bureau Group Co., Ltd. undertook the Kang County Tourism-driven Poverty Alleviation Demonstration Park, which was funded by China State Construction and designed by CSCEC AECOM Consultants Co., Ltd. With a total field area of 4,618 m², the project was completed in three phases. With rural tourism and homestay experience as the focal points, the project integrated tourism resources in Kang County that

are small, distant and scattered, and helped impoverished villages apply to be national 4A tourist attractions, directly benefiting 1,976 poor people.



"In recent years, Kang County has made great achievements in poverty alleviation, ranking top in Gansu in terms of contributions to building a beautiful rural countryside and boosting county-wide tourism. This attributed to the massive targeted assistance of CSCEC to our county."

- Li Tingjun, Secretary of Kang County Committee of Gansu Province

The "Whole Process Service" Employment Model

We provide poor people with the whole process employment support of "job vacancy-skills training-follow-up guarantee", ensuring that the results of corporate development can be shared with the poor. With special funds and personnel, we have built 34 construction labor export demonstration villages and formed a long-term effective mechanism of labor transfer of "labor enterprises + labor transfer heads + workers", solving the unemployment problem of poor people through efforts of the whole organization. In 2020, 26 recruitment fairs were organized for employment-based poverty alleviation and labor transfer, employing 2,799 local poor people in total.



Blocking intergenerational transmission of poverty through "whole-system guarantee"

To get rid of poverty, we must win the ideological fight against poverty. Convinced that poverty alleviation requires a change of attitude and the support of education, we leverage the advantages of corporate culture and invest in building schools and allocating teachers to education-based poverty alleviation projects. In doing so, we help the people in poverty-stricken areas get rich and educated.

We invested more than RMB 20 million to build Santiagou Primary School, Shaleng Primary School in Kangle County and Women and Children's Activity Center in Zhuoni County, as well as 8 Sunshine Bookstores, and helped over 135 primary and middle schools improve hardware facilities to achieve higher level of informatization. Moreover, we carried out the CSCEC Happy Class Program, organizing 110 village teachers from the three designated poverty alleviation counties to participate in teaching training in the GBA, and selecting 41 teachers of CSCEC to do volunteer teaching in 26 schools in Zhuoni County, Kangle County, Kang County of Gansu Province, covering more than 6,000 teachers and students. We also organized three schools of CSCEC to pair up with four primary schools to launch the "Future Education Experimental Class" in Zhuoni County, Kangle County and Kang County. With six years, we have built a model of future science courses, and continued to improve the physical environment, hardware and software for education in poverty-stricken areas.

In addition, we carried out "Spring Bud Project" to promote education-based poverty alleviation. We established the CSCEC Happy Living Environment Scholarship and held skills training to prevent dropout and ensure compulsory education. Moreover, we organized student assistance programs such as Rainbow Yilu and Zhuoni Inspiration Summer Camp for the third year, helping 573 students from poor households in pairs. Besides, we participated in funding projects such as the Love Package and Self-improvement Class of China Foundation for Poverty Alleviation, benefiting more than 10,000 poor students.



Inspiration Summer Camp

In line with the unified deployment of "Spring Bud Project" of China State Construction, China Construction Eighth Engineering Division Corp., Ltd. continued to enhance education-based poverty alleviation efforts in Zhuoni County and Zhouqu County. China Construction Eighth Engineering Division Corp., Ltd., has organized the Inspiration Summer Camp for three years under the theme of "Expanding a Living Happy Environment". A total of 90 students from poor farmer and herdsman households in Zhuoni County and Zhouqu County were organized to participate in the Summer Camp activities in Shanghai, Shenzhen, Jinan, Xi'an, etc. across the country, which were designed to help students increase knowledge and foster a great vision. The Northwest

Company of China Construction Eighth Engineering Division Corp., Ltd. was awarded National Outstanding Unit for Fighting Poverty.



Improving consumption-driven poverty alleviation through "total factor management"

The consumption-driven poverty alleviation is conducive to mobilizing all sectors of society to expand the consumption of products and services from poverty-stricken areas, promoting steady progress in poverty alleviation, and supporting the sustainable development of industries in poverty-stricken areas. Leveraging our brand edges, we have built online and offline sales systems and endeavored to tackle the obstacles in terms of "platform, brand and channel", and built a consumption-driven poverty alleviation mode in which everyone is able to and willing to engage in the cause.

We have established two e-commerce platforms - CSCEC Yunzhu Poverty Alleviation Mall and Haihui Youxuan, opened brick-and-mortar stores of Zhonghai Youjia, and launched online shops free of charge for 132 enterprises (cooperatives) in Zhuoni County, Kangle County and Kang County, putting more than 600 categories of poverty-alleviation products on the shelf; we have also unblocked the links of design, production, trademark registration, quality supervision, promotion and sales, etc., and invested in building more than 50 characteristic brands such as Kangle Mushroom, Zhuoni Tao Ink Slab and Kang County Walnut.

The products were sold to enterprise canteens and construction sites, and promoted among 350,000 employees of CSCEC, 3 million owners of COHL property, and nearly 10 million field sales customers. At the same time, the poverty-alleviation

products were sold online via benlai.com, taobao.com and other platforms, exhibited on Shenzhen Charity Fair, promoted via several hundred publicity activities such as real estate marketing, customer discount, and food appraisal, and recommended to Yanglian and central SOE poverty alleviation e-commerce platforms. Besides, they were promoted on livestream marketing activities such as the Central SOE Promoting the Sales of 100 Products from 100 Poverty-stricken Counties held by SASAC. Through the Internet, agricultural products are sent to more cooperation partners and appear on the dining tables of common people. Since 2018, agricultural products worth RMB 103.3 million have been purchased and sold with the support of CSCEC.



Participating in the livestream marketing activity held by the official WeChat account of News Center of SASAC (Guozi Xiaoxin)

Exploring the Ways of Rural Vitalization

As President Xi Jinping points out, rural vitalization is an important task of fulfilling the Chinese Dream of national rejuvenation. CSCEC actively fulfills its social responsibilities, and leverages its professional advantages to serve the country's rural vitalization strategy. With tireless efforts, CSCEC takes concrete action to accelerate modernization of agriculture and rural areas, contributing to high-quality and high-efficiency agriculture, liveable and industry-friendly villages, richer farmers, and a better life for all farmers.

- **We make a systematic summary of poverty alleviation experience and continue to optimize the assistance model.** The industry-based assistance strengthens operational support for poverty alleviation; the employment-based assistance improves vocational skills and realizes stable employment; the education-based assistance continues to promote a change of attitude and the support of education so as to block intergenerational transmission of poverty; the consumption-driven assistance improves the poverty eradication mechanism and contributes to mutual benefits.
- **We resolutely implement the requirements of poverty alleviation, consolidate and expand the results of poverty alleviation.** We keep our intensity and scope of assistance to ensure a united team and consistent efforts. At the same time, we enhance exchanges of officials assigned to temporary positions of poverty alleviation, and actively introduce social resources to consolidate and expand the achievements of the battle against poverty.
- **We give full play to the advantages of the entire industry chain to effectively align with rural vitalization.** We make every effort to respond to the new situation and requirements of the country's efforts in the new development stage, apply the new development philosophy, and create a new pattern of development. Specifically, we seize the development opportunities brought about by controlling non-point source pollution from agriculture, improving public infrastructure in rural areas, optimizing and implementing village planning and construction, etc., contributing to the industrial development, livability, civilization, governance and prosperity of the three designated poverty alleviation counties of Gansu.



Boosting rural vitalization through renovation projects

COHL and China Construction Fifth Engineering Division Corp., Ltd. invested RMB 18 million in the village appearance improvement and renovation project of Shibadong Village, Huayuan County, Xiangxi Tujia and Miao Autonomous Prefecture, Hunan Province. The project mainly covered the construction of the village service center, shops, public toilets, and renovation of gatehouse buildings, etc. The location of the project is the first place to carry out targeted poverty alleviation proposed by President Xi Jinping. Upon the project was delivered and put into operation, it considerably promoted industrial development and rural vitalization, enabling local farmers to live a better life and consolidating the achievements of poverty alleviation.



The village appearance improvement and renovation project of Shibadong Village



Becoming a benchmark for rural vitalization in Beijing

China Construction Engineering Design Group Corporation focuses on the new opportunity of the cultural and tourism industry, and builds a quality homestay project in Huang'antuo Village, Mentougou District, Beijing - CSCEC • Baihuashan Residence. The development model featuring "a project platform company + a rural tourism villager alliance + a rural vitalization training school" makes full use of the humanistic and natural resources in the village, boosting rural vitalization through rural tourism. Through this model, local villages are provided with access to rent, employment, dividends, appreciation in real estate, and sales of agricultural and cultural & creative products. At the end of 2020, Huang'antuo Village was successfully lifted out of poverty.



The Baihua Residence project



Serving Major National Development Decision

Taking resolutely serving national Development Decision as the most crucial development strategy, CSCEC always plans for corporate development, distributes superior resources, optimizes its business structure, and undertakes significant tasks with national interests in mind. By fully tapping the strength of "Constructed by China", we work to transform the image of China and witness the happiness of the people.

The Historic Preservation and Urban Renewal Project of Parcel 67-71, Jianguo East Road, Huangpu District, Shanghai



Serving China's Major Regional Development Strategies

CSCEC deeply engages in coordinated regional development, and has developed a large number of landmark projects in the Beijing-Tianjin-Hebei region, the Yangtze River Economic Belt, the GBA, the Yangtze River Delta, the Yellow River Basin and the Chengdu-Chongqing region to help build powerful engines for China's economic growth.

Integrating into the coordinated development of the Beijing-Tianjin-Hebei Region

The coordinated development of the Beijing-Tianjin-Hebei region allows Beijing, Tianjin, and Hebei to share their strengths, and drives the development of the Bohai Economic Rim and the northern hinterland of China. We set up dedicated organizations to coordinate superior resources of different regions, help relieve non-capital functions of Beijing, build the venues of the 2022 Winter Olympics and other major national projects, and assist Xiong'an New Area in constructing infrastructure and affordable housing projects.



Constructing Xiong'an Railway Station of Beijing-Xiong'an intercity railway

Xiong'an Railway Station of Beijing-Xiong'an intercity railway is CSCEC's first major infrastructure project in Xiong'an New Area. With a total construction area of 475,200 m², the station is the first in China to adopt the construction technology of fair-faced concrete on a large scale. Equipped with a "smart brain", the station can monitor all electricity meters, water meters, escalators, elevators, and other facilities throughout their operation, and repair faulty equipment in a timely manner to provide a convenient passenger experience. Xiong'an Railway Station was officially opened on December 27,

2020. It improves the Beijing-Tianjin-Hebei regional high-speed railway network and enhances Xiong'an New Area's influence on the whole country.



The Xiong'an Railway Station project



Reconstruction and expansion of the Capital Gymnasium

China Construction Eighth Engineering Division Corp., Ltd. has integrated the concept of "repair the old as before" into the renovation project of the Capital Gymnasium for the 2022 Beijing Winter Olympics. The renovation retained the original structural materials, and the façade of the gymnasium was reprinted with imitation stone paint with traditional Chinese characteristics and aesthetic and practical value. Each piece of stone used in the renovation project is a legacy of the original building. To ensure green construction and create the "Most Beautiful Ice" for the 2022 Winter Olympics, the project, for the first time, applied the transcritical CO₂ ice-making technology and successfully made the first piece of the "Most Beautiful

Ice". The ceiling of the gymnasium hangs an ultrathin films system powered by a new acousto-optic projection technology. The film material of the screen is a high-strength base fabric for aerospace-grade fiberglass, which creates a dreamy experience at the competition site and provides an excellent atmosphere and visual guide for the mass public to enjoy snow sports in the future.



The renovation project of the Capital Gymnasium

Implementing the Yangtze River Economic Belt development strategy

The development of the Yangtze River Economic Belt is of strategic importance to the country's overall development. We unswervingly implement the new development philosophy and explore new businesses related to water and environmental protection, ecological governance, and so on, and contribute to building a beautiful China with "clearer waters, bluer skies, greener land, and more beautiful scenery".



Zhoushan-Daishan Bridge, the main channel project of Ningbo Zhoushan Port, Ningbo, completed and opened

The 16.34 km Zhoushan-Daishan Bridge undertaken by China Construction Sixth Engineering Division Corp., Ltd. is the main channel project of Ningbo Zhoushan Port, Ningbo. In February 2020, the construction of the Changbai Interchange of Zhoushan-Daishan Bridge was completed. By then, the entire bridge had been completed, marking a crucial step of Changbai Island towards the era of expressways. The Changbai Interchange of Zhoushan-Daishan Bridge is the fourth large maritime interchange in China with the highest degree of prefabrication and the most complex structure. The project team adopted a series of intelligent equipment and independently developed spreaders that can automatically adjust the position of the center of gravity to alleviate the impacts of unfavorable

conditions, such as surges and strong winds, which may deflect the centers of gravity of steel box girders. At the end of 2020, concrete pouring of all piers of the Changbai Interchange was completed.



The Changbai Interchange of Zhoushan-Daishan Bridge



Helping Hubei restore economy after the pandemic

CSCEC resolutely responded to President Xi Jinping's concerns for Hubei Province with concrete actions and repaid the sacrifice of people from Hubei Province. According to the requirements of the provincial government of Hubei, CSCEC made targeted efforts to meet Hubei's needs in economic and social development and continued to increase investment in the province. Leveraging our strengths in the entire industry chain, we participated in major livelihood-benefiting and infrastructure projects, and successively invested in the construction of the Wujiagang Yangtze River Bridge in Yichang City, the Wuhan Dadonghu Deep Tunnel Project, the Wuhan Regional Concrete Ready Mixing Plant, the

Optoelectronic Industrial Park Project in the East Lake Comprehensive Bonded Zone, etc., effectively boosting Hubei's economic and social development and post-pandemic economic recovery, and promoting Hubei's high-quality development.



CSCEC signs a strategic cooperation agreement with Wuhan City

Promoting the development of the GBA

The GBA is one of the regions with the highest degree of openness and the strongest economic vitality in China. CSCEC has been a pioneer in the construction of the GBA, and has built a large number of national key projects, such as the new Hengqin Port, the Hong Kong Palace Museum, and Shenzhen Metro Line 13, aiming to build the GBA into a model of high-quality development and a world-class bay area.



Promoting interconnectivity of the GBA

The first and second phase (north extension) of Shenzhen Metro Line 13 project undertaken by CSCEC run through Guangming District, Baoan District, and Nanshan District of Shenzhen, connecting Hong Kong in the south and Dongguan in the north. The project further deepens the integrated development of Shenzhen and Dongguan, and accelerates the interconnection and integration of metropolitan areas in the GBA. CSCEC has mobilized resources actively. In addition, through meticulous organization, scientifically planning, delicacy management, efficient construction, as well as great efforts to ensure quality control, work safety, and responsible construction, CSCEC strives to build the second phase (north extension) of the Shenzhen Metro Line 13 project by the highest standards, set a model for other central SOEs in subway construction, and improve the green travel experience of citizens.



The second phase (north extension) of the Shenzhen Metro Line 13 project



Smart construction of the Hong Kong Palace Museum

In 2017, the Hong Kong Palace Museum project was officially launched, and in November 2020, its main structure was capped. During project construction, COHL comprehensively applied BIM technology and established a three-dimensional virtual model for the project. BIM technology guided whole-process management of the project, covering design and drawing generation, simulated production and construction, simulated progress of the project, construction inspection, etc. A cloud-based smart construction site platform integrating 50 surveillance cameras as well as 70 IoT sensors and AI analysis applications was created to realize real-time monitoring of eight environmental indicators, such as PM2.5, PM10, noise, and temperature with the support of the latest IoT technology. Moreover, there was an optical fiber real-time monitoring system to monitor the safety of important structures, an AI

monitoring system to monitor fire alarms and dangerous behaviors of workers, and a 3D laser scanning system to record all complex conditions at the project site. , generate a model of the completed project and check up structural defects. All these contributed to the smart construction of the Hong Kong Palace Museum.



The Hong Kong Palace Museum project

Engaging in the integrated development of the Yangtze River Delta

We have carefully studied the functions of cities in the integrated development of the Yangtze River Delta and established regional headquarters to accurately respond to the specific needs of different cities in project construction. Leveraging our strengths in the entire industry chain, we provide integrated solutions for the whole lifecycle of projects and participate in the integrated development of the Yangtze River Delta from all aspects.



Constructing the Yangtze River Delta Green and Integrated Development Demonstration Zone

Qingpu District of Shanghai, Wujiang District of Jiangsu, and Jiashan County of Zhejiang co-built the Yangtze River Delta Green and Integrated Development Demonstration Zone, a characteristic and pioneering work for the integrated development of the Yangtze River Delta. The new-type urbanization PPP project in Chonggu Town, Qingpu District, built by China Construction Eighth Engineering Division Corp., Ltd. within the demonstration area, is the first large integrated development-oriented project implemented in Shanghai. Covering 300,000 m² of the land of Chonggu Town, the project focuses on three major aspects, namely urban renewal, rural vitalization, and industry upgrade. The project aims to build Chonggu into a "a national model for new-type urbanization," "an integrated rural vitalization demonstration project in the

Yangtze River Delta" and "a green, smart, and innovative demonstration base in Shanghai." Some livelihood-benefiting constructions under the project, including resettlement houses, nursing homes, municipal roads, have been delivered to the owners and put into use, bringing positive changes to the town. The Cultural Center and the Science and Technology Agriculture Park in Zhangyan Village have been put into operation, creating



The new-type urbanization PPP project in Chonggu Town



Contributing to urban renewal

COHL invested RMB 59 billion in the development of the Historic Preservation and Urban Renewal Project of Parcel 67-71, Jianguo East Road, Huangpu District, Shanghai. While preserving the original texture of the old urban area, the company added new elements and vitality to the project to create a livelihood block and a new landmark for Shanghai and promote the upgrade of Shanghai's urban functions and development.



Comparison between the original and the renewed Parcel 67-71, Jianguo East Road, Huangpu District

Promoting ecological preservation and high-quality development in the Yellow River Basin

To protect the Yellow River is fundamental for the great rejuvenation and sustainable development of China. To this end, we invested in and constructed a large number of leading projects, such as the project of ecological preservation and restoration in the Ulansuhai Nur Basin, Inner Mongolia and the Binzhou sewage treatment project, to promote ecological preservation and high-quality development of the Yellow River Basin.



Constructing the Happy Forest Belt project in Xi'an

The Happy Forest Belt project in Xi'an undertaken by China State Construction Silkroad Construction Investment Group Co., Ltd. is the world's largest underground project for multiple purposes and China's largest urban landscape forest belt project. With a 5.85 km length from north to south, the project covers a total area of about 1,843mu and brings together landscapes, underground spaces, municipal roads, utility tunnels and subway facilities on a piece of land 200m wide. It sets a model for the integrated development of modern cities that incorporate intensive and efficient production spaces, diversified living spaces, green and sustainable ecological spaces, distinctive historical heritage, and other features. In addition, China State Construction Silkroad Construction Investment Group Co., Ltd. builds an information-based, digital, and intelligent

forest belt management, operation and maintenance platform, which reserves interfaces for the access of municipal infrastructure projects and land parcels to be developed. The platform helps build up a network for the construction industry and promotes the coordinated development of the intelligent construction of forest belt projects and building industrialization.



The Happy Forest Belt project in Xi'an



Water pollution control of the Chang'an Section of Juehe River Basin

The ecology of the Juehe River, which originates from the northern foot of the Qinling Mountains, was damaged. China Construction Seventh Engineering Division Corp., as the contractor of municipal projects in Changning New District of Xi'an City, raised water levels of waterbodies in parks by building water blocking weirs, thus increasing the total area of waterbodies. China Construction Seventh Engineering Division Corp. changed the flow direction of the river by planting fir piles and setting up stone retaining walls to enable the river to flow smoothly, and planted aquatic plants along the river to bring out the vitality of the aquatic ecology. After proper treatment and dredging work, the ecology of the Chang'an Section of Juehe River has been significantly improved.



The Chang'an Section of Juehe River Basin after being restored

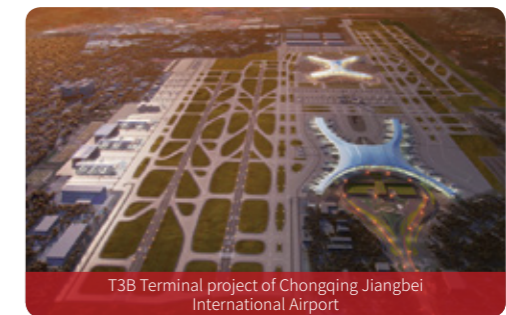
Promoting the construction of the Chengdu-Chongqing regional economic zone

We continue to increase our investment in promoting the construction of Chengdu-Chongqing region. Based on our advantages along the entire industry chain, we participate in the construction of infrastructure, urban renewal, ecological and environmental protection projects of the region and serve the construction of the Chengdu-Chongqing regional economic zone. With such efforts, we aim to assist local governments to "develop new ideas, build new patterns, and create new spaces".



Designing T3B Terminal of Chongqing Jiangbei International Airport

China Southwest Architecture led the design of T3B Terminal of Chongqing Jiangbei International Airport in an integrated design with the existing T3A Terminal. T3B will be built into the world's largest single satellite terminal facility with a structure that can bring out the largest comprehensive value of the terminal, ensure convenient and efficient passenger services, and fully reflect regional characteristics in its appearance and indoor spaces.



T3B Terminal project of Chongqing Jiangbei International Airport



Constructing the Runze (Southwest) International Information Port Project

The Runze (Southwest) International Information Port Project constructed by China West Construction Group Co., Ltd. is the big data headquarters base of Chengdu-Chongqing region and even the whole Southwest China. Once completed, it will become a high-standard and high-level data center based in Chongqing and serving the southwest, and a national functional center of Gonghuijia smart logistics of the All-China Federation of Trade Unions. It can provide important technical support and impetus for the rapid development of strategic emerging industries and the digital economy in Chengdu, Chongqing, and Southwest China.



The data center under the Runze (Southwest) International Information Port Project

Promoting New Infrastructure Construction

New infrastructure covers information infrastructure, integrated infrastructure, innovative infrastructure, and so on. Being a key player in the new infrastructure sector, CSCEC works to foster new drivers and facilitate the "new integration" of "new infrastructure" with industrial applications, thus building efficient traffic networks for cities and create "new integration smart brains". We promote the construction and integrated infrastructure from multiple aspects to inject new vitality into urban ecological progress.

Innovative infrastructure

Innovative infrastructure plays a crucial role in supporting scientific research, technological development, and product development, enhancing national scientific and technological development, and improving the scientific and cultural literacy of the whole society. We strive to seize new opportunities to contribute to new infrastructure construction, and continuously build up our new competitive advantages and create new drivers to open up new spaces for development.



Cuiheng New District Biomedical Intelligent Manufacturing and Innovation Center Project in Zhongshan City

Cuiheng New District Biomedical Intelligent Manufacturing and Innovation Center Project undertaken by China Construction Fourth Engineering Division Corp. Ltd. is an innovation platform that serves the biomedical industry chain of the east bank of the Pearl River and drives the clustering of Zhongshan's biomedical industry. China Construction Fourth Engineering Division Corp. Ltd. applies the BIM + smart construction site technology to the project: Based on the BIM model, 4D BIM scheduling, evacuation simulation, steel structure hoisting, equipment hoisting and other specific simulations are carried out. Various types of information provided by the "digital management platform" of the smart construction site enable unified command, rectification, monitoring, and resource allocation, and provide

a management platform for systematic problem solving for construction management. Large intelligent temperature measurement systems are put in place, which have sensors to measure, collect, and analyze temperatures, and quickly calculate temperature changes of large volumes of concrete, thus guaranteeing the highest quality of project construction.



Cuiheng New District Biomedical Intelligent Manufacturing and Innovation Center Project in Zhongshan City



The National Innovation Center for Synthetic Biotechnology

The National Innovation Center for Synthetic Biotechnology built by China Construction Eighth Engineering Division Corp., Ltd. is the first biotechnology research and development base of China. With the support of BIM technology, China Construction Eighth Engineering Division Corp., Ltd. makes every effort to optimize the designs of prefabricated components by improving their accuracy, becoming a leader in the construction method of modular computer rooms built upon the DMPO model. In compliance with principles of standardization, modularization, and factory production of some prefabricated components, we put the "building blocks" together according to the drawings on the

construction site, realizing comprehensive collaboration of refined design, factory production and precise assembly. Supported by information-based construction, we control all construction errors at the millimeter level.



The National Innovation Center for Synthetic Biotechnology

Information infrastructure

As digital technology becomes increasingly popular, computing power has been a key contributor to productivity, and data centers have become the "new infrastructure" in the digital age. Focusing on whole-lifecycle services covering project design, construction, mechanical and electrical installation, equipment commissioning and maintenance, we continue to step up efforts to build new-generation data centers and "smart brains" of cities.



Alibaba Cloud headquarters project in Hangzhou

The Alibaba Cloud headquarters project in Hangzhou undertaken by China Construction First Group Corporation Limited occupies 198,000 m² of land and has a gross floor area of 449,000 m². The project is one of the "4+1" key investment projects approved by Zhejiang Province in 2017 and the first project in the West Hangzhou Science and Technology Innovation Corridor. Once completed, the project will create a new engine for the development of world-class cloud computing and big data technologies and the transformation of Hangzhou into a smart city, and provide fresh opportunities for the information economy. It will also provide computing services for leading companies in various fields, such as

finance, government affairs, transportation, healthcare, telecommunications, making cloud computing and artificial intelligence inclusive technologies.



Alibaba Cloud headquarters project in Hangzhou

Integrated infrastructure

In response to relevant requirements in the *Outline for Building a Powerful Transportation Country*, we have promoted the integration of new infrastructure and smart transportation, and improved grid-style urban traffic management by enhancing comprehensive transportation coordination, contributing to the substitution of new pure electric buses for old ones, and building charging stations and new-energy comprehensive parking structures.



Integration of new infrastructure and smart transportation

Guangzhou's first 5G smart bus station project constructed by China Construction Second Engineering Bureau Ltd. includes the substitution of new pure electric buses for old ones and the construction of charging stations and comprehensive parking structures for new-energy buses. During the construction of the Jumbo Bus New Energy Parking Structure, the project department covers the residential area with a huge "helmet" to provide more space for construction, and adopts emery-aggregate concrete one-step slope finding technology for building and ground surfaces. With nearly a thousand charging piles planned to be installed in the parking structure, the project introduces waterproof materials that can recover automatically. After completion, the

project will be able to meet the charging, parking and maintenance needs of about 800 buses and become the largest electric bus charging station in Guangzhou.



The Jumbo Bus New Energy Parking Structure project



Contributing to the BRI Development

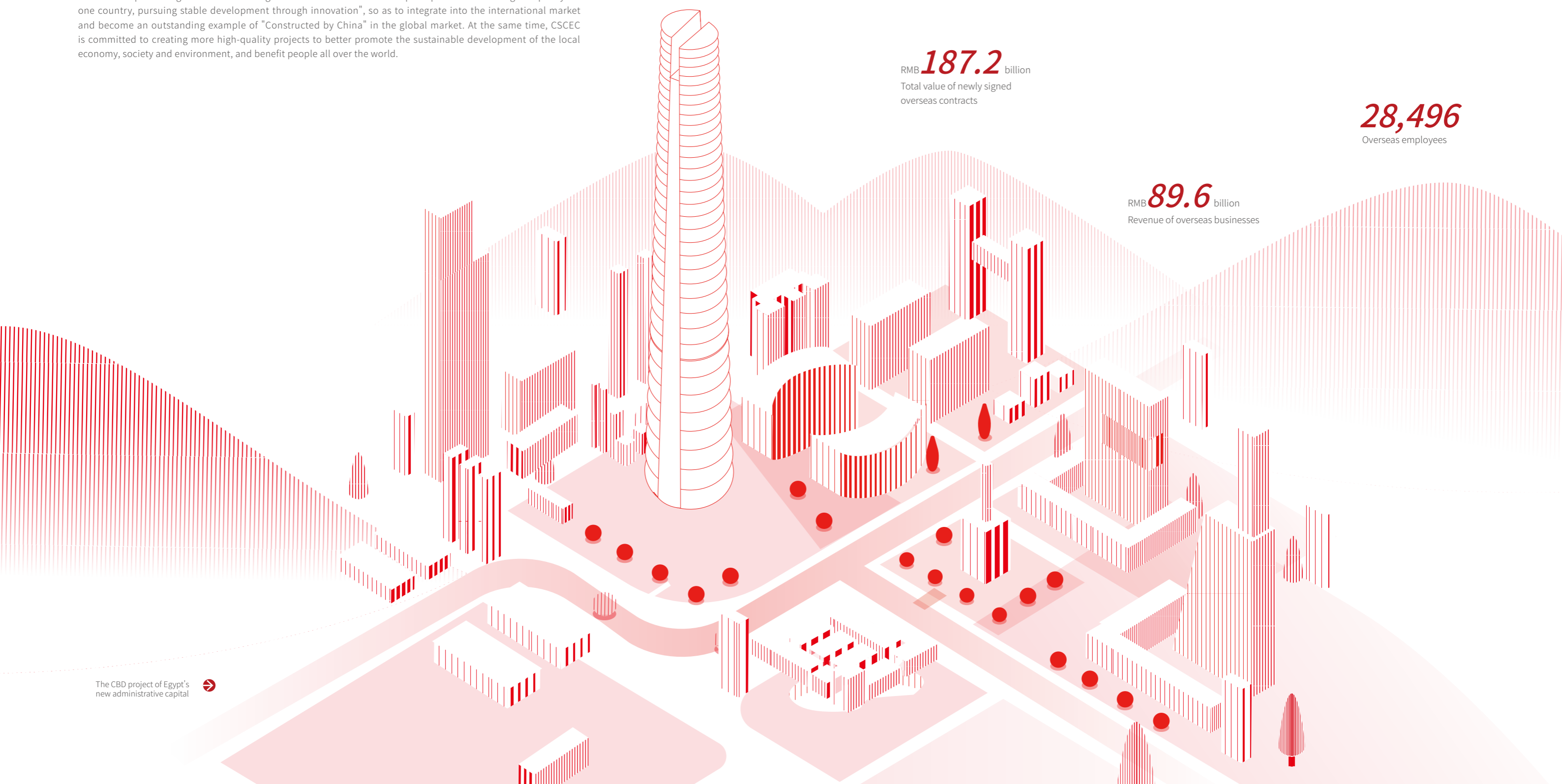
Promoting cross-cultural integration is a key measure to enhancing brand influence and the soft power of Chinese culture, and creating a world-class company. Therefore, CSCEC upholds the vision of a global community of shared future while promoting cross-cultural integration in accordance with the principle of "introducing one policy for one country, pursuing stable development through innovation", so as to integrate into the international market and become an outstanding example of "Constructed by China" in the global market. At the same time, CSCEC is committed to creating more high-quality projects to better promote the sustainable development of the local economy, society and environment, and benefit people all over the world.

RMB **187.2** billion
Total value of newly signed
overseas contracts

28,496
Overseas employees

RMB **89.6** billion
Revenue of overseas businesses

The CBD project of Egypt's
new administrative capital 



Enhancing Mutual Learning Among Civilizations to Promote Cross-Cultural Integration

We need to grasp the characteristics of local politics, economy, society, and cultures. CSCEC focuses on the "one creation and five aspects of strength" strategic goal, continues to implement the "113" overseas communication framework system to promote cross-cultural integration in a systematical and orderly manner. This enables us to share Chinese stories globally, build a trustworthy international brand image, and create a good overseas business environment.

Carried out the work of cross-cultural integration

CSCEC is one of the first Chinese companies to "go global" and is one of the first central SOEs to compile and release the *Cross-Cultural Integration Guide* after having effectively combined the world's leading theories of cross-cultural integration with its typical practices of overseas cultural integration over the past 30 years or so, and carried out research on the cross-cultural integration practices of world-class companies with a focus on promoting cultural exchanges and supporting people around the world in pursuing their dreams. The purpose is to guide the cooperation among 20 overseas organizations and international think tanks, as well as among local universities and non-governmental organizations. The Company has also compiled, tested and updated the country/region-based versions of the *Cross-Cultural Integration Guide*. The "1+N" cross-cultural integration research mode is established, which combines the one guide for top-level design + n country-based implementation guides.



The newly-established "1+N" cross-cultural integration research model



Strengthening research on cross-cultural integration

The cooperation between CSCEC Egypt and Al-Ahram Center for Political and Strategic Studies (ACPSS), the largest think tank in the Arab world, has brought about two research results on CSCEC's cultural diversity management in the country. The first paper has been officially released and published on the official website of ACPSS, and the second has been compiled and translated. CSCEC and the Housing and Building National Research Center of Egypt co-authored the *Plate load test on rock with soaking under a massive raft foundation*, which has been published in the peer-viewed international journal of *Innovative Infrastructure Solutions*.



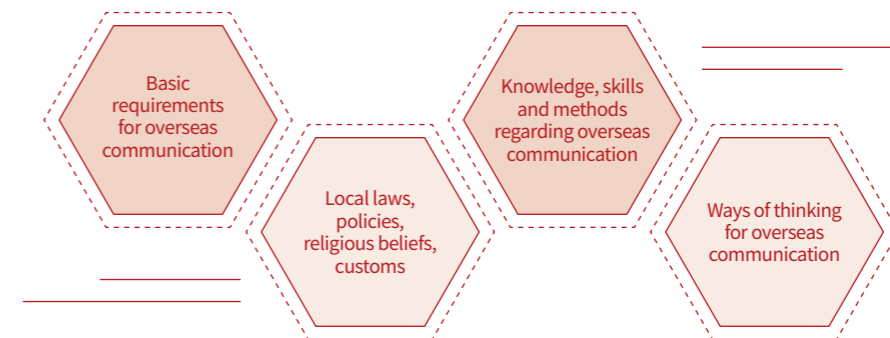
Results of cross-cultural integration

Foster a team of cross-cultural integration

We have encouraged overseas subsidiaries to build cross-cultural management teams with a total of 159 full-time and part-time members at "the domestic headquarters, overseas organizations, and overseas projects." We have also implemented the second phase of the "One Hundred Talents Three-Year Training Program" to offer cross-cultural integration training through "live streaming, remote seminars, and review of recordings" with a focus on training modules such as the explanation of policies and theories, changes in thinking, and skill training. The training program has helped the teams get a better understanding of the local religion, laws, preferences, taboos, folk cultures and public opinions. Through the training, we have further improved the capabilities of overseas communication professionals and teams.



Opening ceremony of the training program for overseas communication professionals



Building the "CSCEC Happiness Library"

CSCEC Egypt has built the "CSCEC Happiness Library" to promote cultural integration between China and Egypt. The library covers an area of 500 m² and offers spaces for reading, cultural salons, video viewing, and tea break. The design of the library incorporates the cultural elements of the two countries, and there is a courtyard outside the library. In the courtyard, there is the "Knowledge Pavilion," whose name was inspired by both Chinese Confucian culture and Prophet Muhammad's adage - "Seek knowledge even if you have to go as far as China". The library also has a "China-Egypt Cultural Wall," which displays the cultures and customs of both countries and the corporate culture of CSCEC. The library has 2,000 books and can accommodate 130 people when the social distancing rules are followed during the pandemic. CSCEC Happiness Library demonstrates

the efforts of the Chinese company to promote cultural exchanges between the two countries, said Banner, an Egyptian Construction supervisor.



Egyptian employees read books in the library

Promoting cross-cultural integration management

We take the attitude of "upholding diversity, equality and inclusiveness, as well as respecting and learning from other cultures" while promoting cross-cultural integration, and guide overseas organizations to grasp the "differences in nationality, values, religion, the awareness of laws and policies, customs, behaviors, the way of communication," so that they can avoid cultural conflicts. On this basis, we follow the *Credo of CSCEC* and the *Ten Codes and Nine Rules*, and explore cultural integration tools and methods that meet the requirements and wishes of local employees. Meanwhile, we improve practices around the theme of "Witness Happiness" to facilitate cultural integration and further enhance the inclusiveness and cohesion of CSCEC's corporate culture.



The open day event



A messenger of cultural exchange between China and Egypt

Mary works in the Design Department of CSCEC Egypt, and her bond with China dates back to 40 years ago. At that time, Mary's mother became one of the first Egyptian college students to learn Chinese. Forty years later, Mary joined CSCEC Egypt and participated in the CBD project of Egypt's new administrative capital. During the spare time, Mary actively takes part in CSR and cultural exchange activities organized by the company, such as the Red Sea Protection Action, visits to orphanages, the "Sing in Egypt" Chinese Songs Singing Competition, the Chinese Film Week, etc. She has become a messenger of cultural exchanges between the two countries.



Mary, an employee of the Design Department of CSCEC Egypt

Strengthening cross-cultural communication

While contributing to the BRI, we exchange ideas with stakeholders by organizing and planning various cultural exchange activities. Taking into consideration of the cultural, social, educational and economic backgrounds of stakeholders, we make every effort to meet their specific demands. Through our own media platforms and local mainstream media, think tanks, and non-governmental organizations, we innovatively and accurately communicate CSCEC's typical practices in improving the well-being of people around the world, and strive to build up the business card of "Constructed by China", the friendship card and spiritual card of China. In 2020, CSCEC operated 45 overseas social media platforms and 28 official websites in foreign languages in 17 countries and regions, covering nearly one million fans overseas.



Conducting cross-cultural exchange with universities

CSCEC Egypt and Ain Shams University jointly held the Confucius Classroom 2020 Chinese New Year Party, where Chinese employees displayed traditional Chinese paper-cutting and calligraphy. The company and the Faculty of Engineering of Cairo University held an online exchange about the construction technology for super high-rise buildings applied in the CBD project of Egypt's new administrative capital, and also invited more than 100 teachers and students from the German University in Cairo, Ain Shams University, Suez Canal University, and the British University in Egypt to visit the project for four times.



Students from Ain Shams University in a cultural exchange activity

"This event allows us to gain a new understanding of Chinese culture and Chinese construction technology."

- Doctor Ebrahim Sami, Professor at the Faculty of Engineering of the German University in Cairo

Promoting public welfare

Committed to improving people's well-being, we strengthen communication with stakeholders, proactively identify major problems related to local livelihoods, and assess basic transportation, healthcare, and education facilities in areas around our projects so that we can grasp the local needs for charity. Meanwhile, we assist disaster reliefs, conduct poverty alleviation, support the disabled, help prevent and treat diseases, improve local education conditions and infrastructure, etc.



Donating supplies to victims of natural disasters in Cambodia

In the wake of disasters caused by severe typhoons and floods in Cambodia, the New Phnom Penh International Airport project team of China Construction Third Engineering Bureau Group Co., Ltd. donated RMB 200,000 of disaster relief and pandemic prevention supplies purchased with funds raised from its employees. The project team also cooperated with the local embassy and government, and provided them with supplies. Khieu Sopheak, Secretary of State and Spokesperson of the Ministry of Interior, attended the donation ceremony on behalf of Sar Kheng, First Deputy Prime Minister of Cambodia, who also wrote to express his gratitude to the company.



Donation ceremony of anti-pandemic supplies

"We are deeply grateful to the China-Cambodia Joint Association, Sino-Cambodia Phnom Penh Industrial Parks and CSCEC for providing disaster relief supplies to Cambodia and supporting us in fighting diseases and floods. You have offered great help to the Cambodian people in hardships. We sincerely wish your company great development in Cambodia."

- Sar Kheng, First Deputy Prime Minister of Cambodia

Stimulating Local Development to Accelerate the BRI Development

Based on the local development strategy, CSCEC continues to promote the strategy of overseas development through cross-cultural integration while deepening its international business model and establishing strategic alliances with overseas partners. By jointly building bridges, roads and cities in a mutually beneficial and win-win manner, we will further stimulate local economies and industrial progress, improve people's livelihood, and effectively enhance the happiness and security of local communities and people.

Building sustainable cities

We pay attention to the needs of overseas people for a better life, and give full play to our capabilities in investing in, constructing, operating and serving the entire industry chain to build inclusive, safe, disaster-resistant and sustainable cities that can make local residents happier.



The topping-out ceremony for several high-rise buildings of the CBD project of Egypt's new administrative capital

With the support from stakeholders such as the Ministry of Housing, Utilities & Urban Communities of Egypt, all Chinese and Egyptian employees from the CBD project of Egypt's new administrative capital resumed construction amid the pandemic and ensured the stable progress of the project. By the end of 2020, construction of the main structures of eight high-rise buildings of the project was completed, and the exterior glass curtain walls were installed later. The project was rated as an "Outstanding Overseas Project Camp of Chinese Companies in 2020" at the annual party of the China International Contractors Association (CHINCA).



Topping-out ceremony for the C07 tower

Improving infrastructure

Attaching great importance to the needs of local people, we simultaneously promote engineering construction and project investment, and vigorously apply Chinese standards and technology to local infrastructure construction to bring a good development environment and investment space to the local areas, and enhance the local people's livelihood.



The PKM Expressway Project in Pakistan was officially completed and open to traffic

The Sukur-Multan Section of the Pakistan PKM Expressway (the Peshawar-Karachi Expressway) built by CSCEC Pakistan is 392 kilometers long with a designed speed of 120 km/h. It is the largest transportation infrastructure project on the China-Pakistan Economic Corridor, and also the first intelligent two-way six-lane expressway in the country. Since its completion, the expressway has shortened travel time from Peshawar to Karachi from 11 hours to less than four hours, which has greatly improved local traffic conditions, directly stimulated the local social and economic development, and helping local people improve their livelihoods. In December 2020, the PKM Expressway project was officially accepted and opened to traffic.



Signing of the TOC certification

Driving the development of local industries

We focus on the development needs of the local construction industry and establish strategic partnerships with local stakeholders. We draw on our world's leading managerial expertise and technical reserve in helping our suppliers improve their technical management capabilities, so that we can jointly create a high-quality construction industry chain. In order to cultivate talents for the local construction industry, we build career development platforms for local employees, and offer management skills training.



Promoting cross-cultural integration by supporting local employees' career development

Drawing upon the Company's rich experience in international talent training, CSCEC Egypt has established the "Luban Institute" to help Egyptian youths who aspire to success in the construction industry realize their career dreams. With two major teaching areas, the training area and the theoretical learning area, the Luban Institute can meet trainees' needs for practical teaching, skills training and pre-job training. Having already launched its first training course, which covers civil engineering, installation and decoration, the Institute will help promote cross-cultural integration, build a career development platform for the trainees, and develop construction teams with rich technical reserve, solid theoretical knowledge and stable operational know-how, thus injecting new vitality into Egypt's construction industry.



The Luban Institute is established

Seeking Steady and Long-term Development and Demonstrating Value-Creating Capabilities

CSCEC upholds the new development philosophy while seeking high-quality development. Focusing on the "one creation and five aspects of strength" strategic goal and improving the quality and efficiency of development, we optimize corporate governance, strengthen the management system, improve the management and control model, and prevent and defuse major risks to ensure the sustainable development of the Company.

4 General Meetings of Shareholders
7,108 Legal reviews
12,132 Participants in legal training
26,000 Letters of responsibility signed



- Accelerating the improvement of information management
- Tightening the investigation of risks in overseas operations

Optimizing Corporate Governance

Corporate governance

We clarify the division of responsibilities between the Board of Directors and the management, and constantly improve our rules of procedure and decision-making process. This ensures that the decision-making process, governance body, and rules of procedure of the Board of Directors, the General Meeting of Stakeholders, the Chairman's executive meeting, and the General Manager's executive meeting are put clearly in lists, standardized, and proceduralized. To improve our governance system and the operation of the Board of Directors, we have completed the revision of 31 systems, promoting the overhaul of the governance system and improving the modernization of our corporate governance system and governance capabilities. To prevent and defuse compliance risks of directors, supervisors, and senior management, CSCEC has taken the lead to introduce the "director's liability insurance." In 2020, we held 4 General Meetings of Shareholders, 18 meetings for the Board of Directors, and 23 meetings for specialized committees of the Board of Directors.

Information disclosure

We are committed to building good investor relations by disclosing corporate information truthfully, accurately, comprehensively and duly, and establishing a mechanism for effective protection of the rights and interests of shareholders. We offered suggestions to and communicated with regulatory agencies actively, disclosed 187 pieces of corporate information, and were rated A in Shanghai Stock Exchange's annual information disclosure performance evaluation. In 2020, CSCEC organized three performance roadshows and two reverse roadshows, participated in 54 surveys and telephone exchanges initiated by other institutions, answered 208 questions on the SSE E-interactive platform, positively and effectively responding to the expectations and suggestions of small and medium investors.



- We released our English version of 2019 Annual Report and 2020 Interim Report to the world for the first time and published briefings on CSCEC's annual performance and business situations on the Company's overseas official media platforms, such as Facebook and Twitter. It has made our regular reports increasingly internationally recognizable and helped our international partners and foreign investors to gain deeper insights into CSCEC.
- We organized the Investors Open Day campaign, when 44 institutional investors and media outlets were invited to visit CSCEC's subsidiaries to learn about the Company's advancements in smart construction and smart construction businesses, enhancing investors' right to know.
- Through Q&As on the General Meetings of Shareholders, one-on-one communication with small and medium investors following the performance results announcement, exchanges with investors through the SSE E-interactive platform and investor hotline, we ensured that all shareholders have equal access to corporate information of CSCEC, small and medium investors can receive better services, and the rights and interests of investors can be protected. CSCEC's Chairman, President, Secretary of the Board and other key leaders responded to investors' concerns face to face, which provided investors with a convenient and efficient channel to understand the Company and participate in corporate governance.
- Always stressing the importance of investing in social responsibility, we engaged with agencies who compiled major social responsibility indexes, and communicated with analysts and investors on index compilation, ESG ratings, and hotspot issues of the capital market.

Return to shareholders

By constantly improving our profitability and strengthening risk prevention and control, we strive to create long-term and continuous returns for shareholders and realize maximum and sustainable shareholder value through excellent business performance. During the 13th Five-Year Plan period, we distributed over RMB 33.7 billion of dividends among shareholders.



2020 New Building Industrialization Investors Open Day Campaign

Deepening Informatization

With the goal of building the Internet of the construction industry, we have built three platforms of technology, big data, and cloud computing, and developed six major clusters of projects to facilitate digital command and decision-making, industry chain digitization, informatization of overseas business, collaboration in corporate management, foundation laying for the industrial Internet, and cloudification of informatization infrastructure respectively. We strive to further deepen informatization, accelerate the Company's digital transformation, and build a world-class enterprise with global competitiveness.



Improving quality and efficiency through informatization

China Construction Science and Industry Corporation Ltd. attaches great importance to informatization and the application of information technology. It has built a cloud platform and a management cockpit for the construction of steel structures to provide the information needed by project managers in making decisions. Based on the latest technologies of big data, cloud computing, and IoT, China Construction Science and Industry Corporation Ltd. builds a smart construction site platform to conduct comprehensive, three-dimensional, and real-time supervision of project management via a controllable, data-based and visualized intelligent system. The innovative steel structure full-lifecycle information management platform developed by the company, with BIM models as the carrier and supported by such information technologies as IoT and

business intelligence, is a pioneer in applying industrial management to steel structure engineering. The platform has been certified up to the world's leading standards and applied to all projects under construction to enable visual management, comprehensive traceability, information feedback and early warning.



The information management platform

Tightening Risk Control and Compliance Management

CSCEC strictly abides by national laws and regulations and international practices and business ethics, continues to improve the comprehensive risk management and control system and corporate compliance system, and promotes full coverage of compliance management. We have established the first responsible person system for law-based corporate governance and enhanced our legal compliance in international operations.

Law-based governance

We conducted a comprehensive review of our achievements in law-based governance during the 13th Five-Year Plan period, summarized our experiences in building a law-based central SOEs and re-examining the first responsible person system for law-based corporate governance, and stepped up efforts in building the Company according to the law. We organized the law popularization review and acceptance work (2016-2020) to summarize our results and experience in law popularization and rectify problems found and make improvements correspondingly. We further consolidated our long-term law popularization mechanism and raised employees' awareness of the rule of law. In 2020, our legal training covered 12,132 employees.



A meeting on the rule of law

Risk management

We continue to identify potential dangers, draw clearer redlines for protecting the ecosystem, and integrate risk and compliance management into the entire process of business operations. We have compiled and published the *Regulations on Comprehensive Risk Management, Internal Control, and the Management of the Quality, Environment, Occupational Health & Safety System*, according to which we carried out annual risk identification and assessment, investigated various hazards, and improved the Company's comprehensive risk management system. In addition, we have further improved the contract management mechanism, formulated management and control measures and contingency plans, thus strengthening our risk prevention and control capabilities. In 2020, the contract review rate reached 100% and we conducted 7,108 legal reviews.



Building a strong "security network" for overseas development

China State Construction International Holding Limited, based on its mature international business operation model, customizes policies and measures according to the specific conditions of each country, improves overseas regulations and internal control mechanisms, and strengthens the top-level design for overseas compliance management by improving institutional mechanisms and systems. Focusing on maintaining security in business operations, we draw red lines and build defense lines for overseas investments and projects of our subsidiaries at all levels to prevent major compliance management risks and regulate overseas investment and decision-making procedures. To strengthen employees' compliance management and risk prevention awareness, we carry out systematic, targeted, professional and practical compliance management

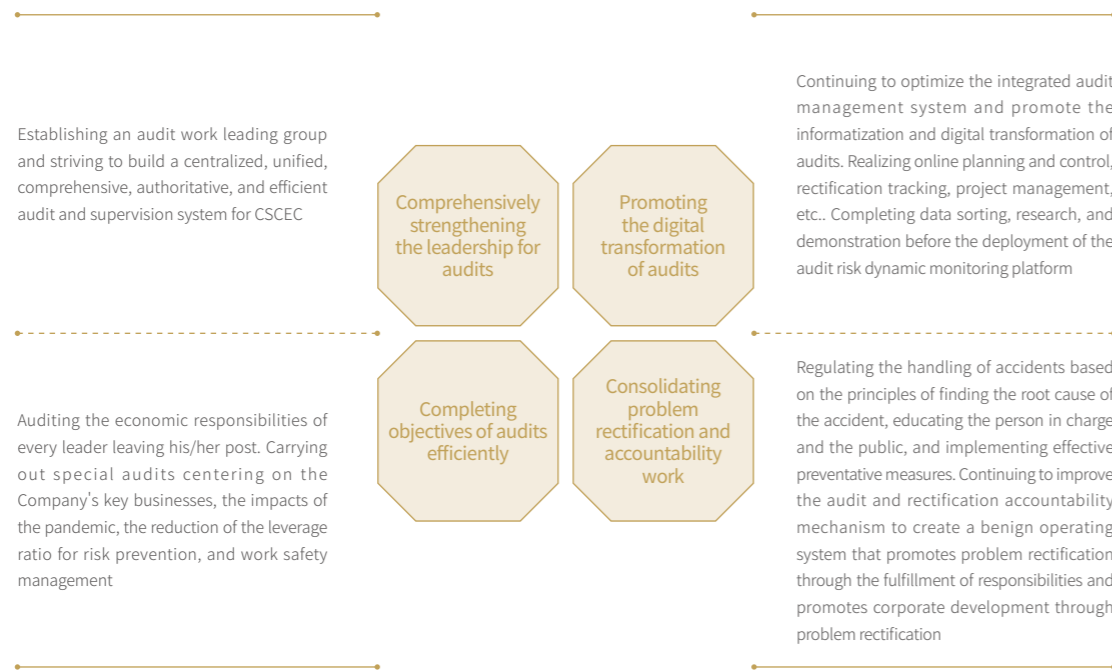
training for employees from different countries, positions and links, aiming to strengthen their ability to identify, judge and handle potential compliance risks, follow market rules and industry norms, and honor the spirit of contract, and enhance the consciousness of overseas organizations to operate in compliance.



Compliance management training

Strengthening Special Audits

CSCEC has developed an excellent top-level design, improved the audit and supervision system, and carried out special audits in key areas. In addition, we have strengthened problem rectification and continuously improved and implemented the accountability system. In 2020, the project audit completion rate reached 122%.



Tightening project objectives responsibility management

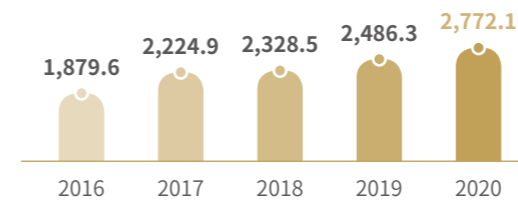
Complying with the requirements of external regulatory agencies, we have established a long-term internal control mechanism and tested our internal control capabilities regularly. In 2020, we found in an internal control test that the management staff of a project department violated relevant provisions in the *Project Management Objectives Responsibility Letter*. Then, we immediately put forward the rectification measures and urged relevant departments, responsible persons and project managers to complete the rectification in strict compliance with relevant requirements and regulations.

Review of Achievements During the 13th Five-Year Plan Period

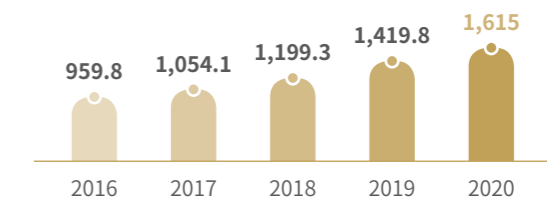
During the 13th Five-Year Plan period, CSCEC worked wholeheartedly for the people. Adhering to the new development philosophy, we deepened the reform and opening up, deeply engaged in regional coordinated development, and advanced the implementation of the BRI, contributing to building a community with a shared future for mankind.

- CSCEC maintained its status as the global largest construction and investment group. In 2020, CSCEC's rank in Fortune Global 500 rose from 37th to 18th.
- The revenue of CSCEC nearly doubled, overseas business has maintained steady growth, and new business has accelerated growth.
- CSCEC made significant achievements in technological innovation and engineering construction, and led ten national key R&D projects. In 2020, we won 12 National Science and Technology Progress Awards. In addition, a total of 25 projects of CSCEC won Tien-Yow Jeme Civil Engineering Prize, 142 projects won China Construction Engineering Luban Prize, and 301 projects won National Quality Project Award.
- We accomplished targeted assistance tasks and lifted 196,000 poor people from 345 registered poor villages in the three counties of Gansu out of poverty.

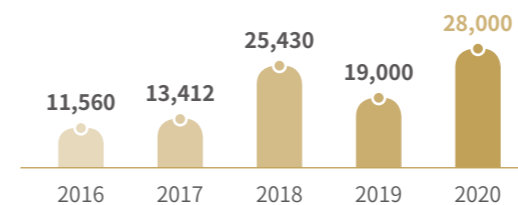
Value of newly-signed contracts of construction project (RMB billion)



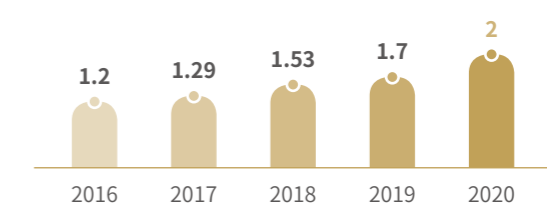
Revenue (RMB billion)



Fresh college graduates recruited



Jobs provided for migrant workers (million)



Shifting the Momentum for Innovation-Driven Development

Innovation is deeply rooted in CSCEC's "corporate DNA." The Company pursues innovation-driven, high-quality development, and promotes the development of substance in business operations. By enhancing our independent innovation capabilities, we strive to master key technologies, and lead the formulation of industry standards and the application of information and intelligent technology. CSCEC is committed to driving the common development of other companies in the industry chain, and becoming a pioneer in the field of global investment and construction.

RMB **29.39** billion
R&D investment

6 Projects
that won the Tien-Yow Jeme
Civil Engineering Prize

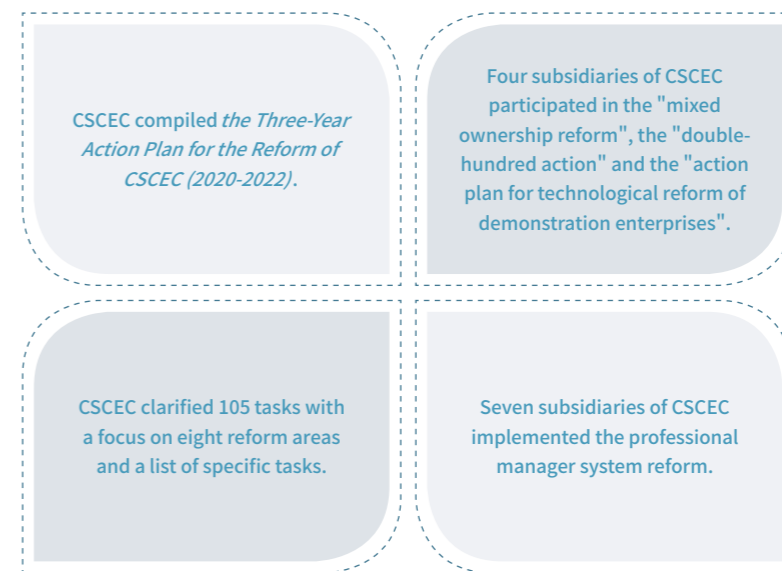
6
Compulsory national
standards with CSCEC
as a chief editorial unit



- Implementing the three-year action plan for SOE reform
- Exploring green, smart, and industrialized construction
- Enhancing CSCEC's advantages in undertaking the industry-leading engineering and construction projects

Deepening Management Innovation

We regard innovation as the primary driving force for development, and attach significance to the key role of reform to effectively enhance our competitiveness, innovation capabilities, as well as the ability to take command of various situations, influence, and anti-risk capabilities. CSCEC has established a leading group, a working group and a plan preparation group for further implementing the three-year SOE reform action plan, and has taken "action to improve management capabilities to a world-class level" with the establishment of a comprehensive system in the business sector and management fields. We strive to break the bottleneck restricting the high-quality development of the Company, and endeavor to become stronger, do better, and grow bigger.



Steadily carrying out the reform of the tenure system and contractual management of managerial members

As an enterprise listed on the "action plan for technological reform of demonstration enterprises," China Construction Science & Technology Group Co., Ltd. (CCSTC) attaches great importance to the three-year action plan for SOE reform, and implements specific tasks of the "action plan." The company has launched the reform of the tenure system and contractual management of managerial members to stimulate the vitality of the management. According to the annual objectives of performance appraisal of managerial members, the board of directors grasps their progress in completing their tasks by means of debriefing and appraisal scheduled at a six-month interval. The entire process is also monitored. In December 2020, with the Chairman of CCSTC and the management signing letters of responsibility, the company took the lead in completing a key step in the SOE reform.



Signing ceremony of the tenure system and contractual management of managerial members

Enhancing the Role of Technological Innovation

Technological innovation is the key to the establishment of a new development pattern, and also to the sustainable development of CSCEC. Therefore, we regard technological innovation as the core in the overall corporate development while promoting the application of R&D results. Our layouts in the industrial chain and the innovation chain complement each other, which is conducive to us making breakthroughs in technological development and gaining momentum for achieving new development. We emphasize the leading role of planning and design as we are building the core competitiveness in conducting survey and design, and strive to draw on technological innovation to drive comprehensive innovation and achieve high-quality development.

In 2020, the Company invested RMB 29.39 billion in research and development, and had 96,000 employees in intermediate technical positions and above, accounting for 27% of the total. In 2020, the Company was granted 8,951 patents, of which 505 were patents for inventions. Six projects won the Tien-Yow Jeme Civil Engineering Prize, and we also won one first prize, a second prize, and two third prizes of the Excellent Urban Planning and Design Award.

Strengthening the leading role of strategies

Focusing on the "one creation and five aspects of strength" strategic goal and "strong innovation leadership", we have compiled and implemented the *Special Action Plan for Scientific and Technological Innovation*, established the leading group for scientific and technological innovation, and issued a series of documents, such as the *Thirty Measures for Enhancing Scientific and Technological Innovation Capabilities* and the *Opinions on Further Increasing the Incentives for Scientific and Technological Talents*, to strengthen the role of technological innovation in promoting the Company's strategic development.

We have accelerated the development of platforms for scientific and technological innovation, and given full play to the leading role of those platforms. We promote the deep integration of the industrial chain and the innovation chain to facilitate the industrial application of innovative technologies. By the end of 2020, CSCEC has established five national-level enterprise technology centers (including sub-centers), and a total of 31 provincial and ministerial-level innovation platforms, including five provincial and ministerial-level engineering research centers, 23 engineering technology research centers, two key laboratories, and one engineering laboratory. The Company boasts 59 provincial and ministerial-level enterprise technology centers.

Cultivating technological talents

We are committed to building high-level technological teams by establishing a hierarchical internal talent cultivation mechanism and enhancing the introduction of academicians and masters. Meanwhile, we strengthen the development of core professional teams, accelerate the training of young technologists, and actively build a culture of innovation. In 2020, we established 966 model worker (craftsman) innovation studios, which generated nearly RMB 2 billion in comprehensive economic benefits for the Company. The Shen Jian Construction Model Workers Innovation Studio of China Construction Eighth Engineering Division Corp., Ltd. was awarded the title of "National Demonstration Model Workers Innovation Studio".



Holding the scientific and technological innovation conference

CSCEC pursues innovation-driven development, and strives to become a model for the improvement of technological innovation capabilities among state-owned enterprises in the same industry. In 2020, the Company held the scientific and technological innovation conference to enhance employees' awareness of innovation and its own independent innovation capabilities, and achieve breakthroughs in key technologies. The conference was held at one main event venue and 5,764 sub-venues online, involving nearly 106,000 attendees from all levels of sub-enterprises and key projects at home and abroad.



The scientific and technological innovation conference

Areas of technological innovation

We carry out research and development of key technologies with a focus on the national needs, the needs for major engineering technologies, and emerging business sectors, and actively explore the three directions of "green construction, smart construction, and industrialized construction, so as to lay a solid foundation for the expansion of new business and the industrial transformation and upgrading, and support "Constructed by China" in becoming greener and more efficient.

▪ Prefabricated construction

Prefabricated construction involves strict standards of techniques and processes, and is an effective path towards industrialized construction. We conduct research and development of prefabricated construction, and take the lead in relevant national key research and development projects with independent research studies covering the design and construction methods of prefabricated buildings, new structural systems, the efficient construction of new prefabricated buildings, etc. Meanwhile, we invest high-quality resources in the training of technical personnel, provide services covering the entire lifecycle of prefabricated construction, and strive to make prefabricated construction a synonym for construction speed and a potent guarantee of construction quality.

We seize opportunities in the rapid development of the global prefabricated building market, and take advantage of the new and efficient prefabricated structural system with "dry connection" developed under the initiative of the national special platform for key research and development of green building during the "13th Five-Year Plan" period to break the technical bottleneck in the prefabricated building structural system.



Applying the precast prestressed efficiently fabricated frame PPEFF system



Tongxin Garden Kindergarten Project

China Construction Third Engineering Bureau Group Co., Ltd. has applied the PPEFF system to the construction of the south building of the Tongxin Garden Kindergarten Project in Wuhan. With the new technique, 82% of the building structures were prefabricated. The construction of the north building adopted the traditional wet-joint prefabricated frame system, with prefabricated parts accounting for 69%. After comparison and verification, the PPEFF system has delivered reliable quality, and during the construction phase, the building efficiency has been tripled, the amount of labor used, scaffolding and carbon emissions have been reduced by 32%, 49.1% and 34.9% respectively.



Building the largest sustainable community with the REMPC construction mode in China



Shenzhen Changzhen Public Housing and Ancillary Project

China Construction Science & Technology Group Co., Ltd. (CCSTC) has applied the REMPC construction mode to the Shenzhen Changzhen Public Housing and Ancillary Project (also known as the Changzhen Project). The project is currently the largest prefabricated public housing project under construction and the largest prefabricated decoration and landscape community project in China. It is also a pilot project for the reform and innovation of Shenzhen's construction management model. CCSTC comprehensively applies green and smart prefabricated building techniques in the construction of high-quality public housing, and is committed to building three national demonstration projects and eight industry benchmarks. The project is seen as a new example of urban construction that practices new development concepts in the new era.

▪ **Smart construction**

Smart construction sites are an extension and the "cornerstone" of smart cities in the construction sector. Therefore, we steadily press ahead with smart construction sites by innovating in the IT-based engineering management technology, and facilitating the deep integration of the construction site and new technologies such as mobile Internet, IoT, AI, and big data. In 2020, we compiled the *CSCEC Smart Construction Site Application Standards*.

We integrate information technology and factory production, and embed the concept of digital development in the entire industrial chain. We standardize production to ensure the quality of components and improve manufacturing efficiency, meet customer demand with customized designs, and broaden the boundaries of the industry, upgrading "Constructed by China" with "intelligent manufacturing in China".



Building intelligent production lines

The automated prefabricated component production line adopted by CCSTC has truly realized the digital construction covering the entire process from prefabricated component production to project delivery. In the production workshop, technicians import the project's BIM data into the production management system, which identifies the QR code of each component and converts it into its production information. The information is then classified and transmitted to the corresponding production line for efficient and automated manufacturing. At the construction site, all component information can be traced throughout the entire process, which improves the overall management efficiency of the project. When a project is being delivered, the physical space can be displayed through

VR technology, and services such as panoramic building instructions and panoramic property management navigation are also provided, bringing convenience to operation at a later stage.



The rebar production lines of CCSTC



Creating the first 5G smart construction site in China

China Construction Eighth Engineering Division Corp., Ltd has built China's first 5G smart construction site at the second phase project of the JD headquarters in Yizhuang, Beijing. Based on 5G technology that boasts the advantages of large bandwidth, low latency, and wide connectivity, as well as multiple advanced technologies such as AI, big video, BIM, blockchain, and IoT, the project team takes quality, safety, progress and cost as the four core driving forces of smart construction. According to the concept of "one connection, multiple functions, four drivers," 5G technology has been applied to ten major scenarios at the smart construction site, such as 5G real-name dual surveillance system, 5G movable building

construction occupational health analysis system, 5G dual 360-degree three-dimensional real-time monitoring system.



5G smart construction site

 **Leading Technological Progress in the Industry**

We serve the needs of national development, facilitate major national research projects, hold exhibitions of scientific and technological innovation achievements, and attend forums and conferences hosted by authoritative institutions at home and abroad. At the same time, we take the initiative to undertake national research projects, compile domestic and foreign standards, and actively apply for various awards to promote the global development of construction technology. In 2020, to offer a healthy, efficient and environmentally friendly medical engineering product system and industrialized services to enhance public health, as well as standardization solutions for the improvement of public health and emergency management and handling system, CSCEC officially released three corporate technical standards, including the *Pandemic Prevention Emergency Hospital Engineering Construction Standards*, the *Pandemic Prevention Emergency Hospital Engineering Design Standards*, and *Pandemic Prevention Emergency Hospital Engineering Module Product Standards*. We also edited six full-text compulsory national standards, compiled and issued three national standards, and obtained 1,732 provincial and ministerial-level construction methods.

Our advantages in top-notch engineering and construction, such as super high-rise building construction and large-span structure have been enhanced. With major technological innovations, such as 10,000-ton press machines, residential building construction machine, midair tower-building machine, and vertical shield tunneling machine, we continue to lead the industry in areas such as the development and manufacturing of major equipment and large bridge construction technology.



The 10,000-ton multifunctional experimental system developed by CSCEC



CSCEC's 10,000-ton multifunctional experimental system

The 10,000-ton multifunctional experimental system developed by CSCEC's research institute boasts the world's leading large tonnage, large space, and six-degree-of-freedom loading capacity. It can perform full-scale structural testing of components and scientifically verify their mechanical properties, which is conducive to the research and development of new structural systems, standard formulation and product development in the engineering field. The system can meet the needs for the full-scale testing of giant structures, complex structures, vibration isolation substructures, etc., providing technical support for the design, construction and manufacturing of major projects and equipment, and contributing to engineering structure research and innovation in China.



Five swivel bridges over three railway lines completed synchronous rotation and set a series of new world records



Swivel construction of five bridges on three major transport lines completed

Five swivel bridges on the second horizontal line of the Chongqing Expressway Project constructed by China Construction Fifth Engineering Division Corp., Ltd. completed synchronous rotation and docking on the early morning of August 21. It is the world's first construction that synchronized five bridge sections and swiveled them to complete an overpass, all of it above three railway lines. With a total weight of 21,500 tons, equivalent to the total weight of 15,000 cars, the five bridges which were built separately and spanned 383.5 meters over three railway tracks completed a synchronous rotation on the same plane, setting a series of new world records in the construction of complex projects, including the largest number of swivel bridges in a large-span cluster, rotation of the heaviest structure involving more than three bridges, and the first docking of multiple T-structure swivel bridges.

Enhancing Brand Influence with Ingenuity

CSCEC implements the strategy of building up China's strength through quality improvement, and is committed to meeting the people's aspirations for a better life with every bit of effort. We provide high-quality products and services to support social and economic development, benefit people's livelihoods, shape a world-renowned corporate image, create the business card of "Constructed by China", and lay the foundation for "Chinese Quality".

32

Projects that won China Construction Engineering Luban Prize

74

Projects that won National Quality Project Award

100%

Construction contract performance rate

100%

Project acceptance rate



- Promoting comprehensive quality management
- Creating the business card of "Constructed by China"
- Improving customer service based on intelligence

Building Quality Projects with Ingenuity

Relying on the most valuable investments, the best designs, professional construction processes, lean management, and independent innovation, CSCEC continues to enhance its contract compliance and delivers the best projects, management, and services to customers. In addition to serving customers' current needs, CSCEC meets customers' anticipated needs in a professional manner and creates excellent projects and wonderful lives for customers. In 2020, the coverage rate of CSCEC's quality management system reached 100%.

Optimizing quality management and control

Upholding comprehensive quality management, CSCEC continues to improve the quality management system, promote standardized quality management, and carry out special quality improvement actions. At the same time, we actively explore intelligent quality management solutions. With the support of information-based and high-tech approaches, we strive for quality improvement, work all out to enhance our brand influence and set quality benchmarks, and lead continuous improvement in basic management of the industry.



Jinggangshan Navigation and Power Hub Project, Ganjiang, Jiangxi

The first unit of Jinggangshan Navigation and Power Hub Project, the first large water project undertaken by China Construction Infrastructure Co., Ltd. and China Construction Fifth Engineering Division Corp., Ltd., was connected to the grid for power generation. By then, the project had achieved the three major goals of "navigation, water storage, and power generation", creating new momentum for the economic and social development of regions along the banks of the Ganjiang River. A comprehensive quality assurance system was established to provide organizational guarantees, systems, and measures for project construction. Besides, an initial inspection system, a three-inspection system, a quality education system, and a quality inspection system were established and implemented to ensure comprehensive regular and irregular inspections and daily inspections by quality inspectors to strengthen

project quality supervision. As many complex and hidden construction tasks were involved in the project, we applied the BIM technology in establishing a single-body BIM model and simulating construction processes, which made the presentation more vivid and intuitive. Dedicated equipment was also introduced to strictly monitor the stability of the cofferdam structure.



Jinggangshan Navigation and Power Hub project

Enhancing quality awareness

We carry out various forms of quality control activities to raise employees' quality awareness, and conduct hazard control as early as possible to prevent common quality problems. In 2020, we organized 3,683 quality training sessions which involved 90,381 participants. A total of 465 QC achievements of CSCEC were awarded as outstanding QC achievements by China Construction Industry Association (CCIA) and 194 QC achievements were awarded as outstanding QC achievements by the China Association of Construction Enterprise Management (CACEM).



Participating in the kick-off meeting of the Quality Month campaign

In September 2020, Zhou Naixiang, Chairman of China State Construction, Chairman of CSCEC, attended the 2020 "Quality Month" of the National Housing and Urban-Rural Construction System and the Meeting on Building up National Strength Through Quality Improvement and Improving Construction Quality organized by the Ministry of Housing and Urban-Rural Development. At the event, representatives of CSCEC learned how to prevent and control common quality problems of projects, follow the project quality and safety manual, and improve project quality from on-site demonstrations. They also experienced intelligent construction solutions, including intelligent monitoring of construction sites, intelligent construction of data centers, immersive BIM+VR function simulation and process robots.



The Manual of Prevention and Control of Common Engineering Quality Problems book giving ceremony

Building quality works

We steadily promote project construction and create satisfactory projects for customers with high-quality design, construction, and delivery. In 2020, 32 engineering works of CSCEC won China Construction Engineering Luban Prize, 74 engineering works won National Quality Project Award, 71 won national construction decoration awards, 51 won quality awards for installation projects in China, and 68 won Gold Award of China's Construction Engineering Steel Structure.



CSCEC's first subway operation project opened

In December 2020, the first phase of the Zhengzhou Rail Transit Line 3 constructed by CSCEC was officially put into operation. Passing through six districts and commercial areas of Zhengzhou, the project applies standardized construction processes and is an excellent underground rail transit project with "no damage, no wrong platform, no leakage and no pollution". The tunnel in the project passed the acceptance inspection at one go. It is the first subway project invested, constructed and operated by CSCEC, and its successful launch marks CSCEC's entry into the era of subway operation.



The first phase of Zhengzhou Rail Transit Line 3 project

Shaping a quality brand

We enhance our brand influence from all aspects and work to make CSCEC widely recognized by the domestic market and the international community. We strive to be a loyal, well-known, and reputable world-leading enterprise with high market share and high customer satisfaction, making ourselves a business card of "Constructed by China".



The CITIC Tower project is a winner of the Award of Excellence of CTBUH Awards.



The third-generation command center project of Shenzhen Municipal Public Security Bureau

China Northeast Architectural Design & Research Institute Co., Ltd. (CNADRI) adopts the EPC model in the construction of the third-generation command center project of Shenzhen Municipal Public Security Bureau. By applying BIM technology in forward design, CNADRI carries out design simulation analysis through 3D oblique photography, 3D geological exploration, and BIM modeling, effectively promoting 3D collaborative design and parameter-based material provision, and greatly improving the precision of the design. CNADRI also explores and applies the BIM technology to the development of technological solutions for large-span structures, the design of steel truss structures, the integrated design of utility tunnels for spaces with complex structures, the prioritized detailed design

of electromechanical facilities, the integrated design and construction of steel structures, etc., enabling professional BIM-powered forward design in the whole process and providing basic data needed in the whole-lifecycle of the building.



The third-generation command center project of Shenzhen Municipal Public Security Bureau



Makati Metro Transport EPC Project, the Philippines

The Makati Metro Transport EPC Project undertaken by China Construction Second Engineering Bureau Ltd. is located in the CBD of the capital city of the Philippines. As the first metro line in the city, the project applies "Chinese technologies, Chinese standards, and Chinese equipment", contributing to China's export of subway-related technologies.



Makati Metro Transport EPC Project, the Philippines

Providing Quality Services

CSCEC abides by business ethics and market rules, focuses on customer needs, and is committed to providing high-quality products and full-lifecycle services across the entire industry chain. Attaching great significance to the protection of personal privacy, we avoid any leakage of customer information. In addition, we conduct regular satisfaction surveys and protect the legitimate rights and interests of customers.

Upholding fair marketing

In 2020, CSCEC issued and implemented the *Regulations on Tendering and Bidding*, the *Regulations on the Use of Qualifications and Bid Coordination*, and other bidding-related rules. We reinforced our focus on projects matching national strategies, comprehensively strengthened honest marketing and bottom-line management, and followed the ten bans for marketing. In addition, we informed customers of the credit status, engineering performance, staffing, technical consultation, etc., enhancing customers' comprehensive understanding of the Company.

Providing high-quality services

Capitalizing on our advantages in the entire industry chain, we provide customers with a full range of high-quality services covering engineering quality, safety, environmental protection, and time limit on construction work. We also help our clients with clean-up acceptance inspection and handover, warranty services and pay return visits in the final stage of a project to build long-term partnerships with customers.



Reconstruction of the Huashan Mountain Shantytown, Jinan

The Huashan Mountain shantytown reconstruction and resettlement project in Jinan, developed and constructed by COHL, is the largest and most complicated shantytown reconstruction project in Shandong Province. With a total construction area of 2.36 million m², the project involves the resettlement of 24,000 residents and the relocation of over 1,700 enterprises from 19 villages. COHL, based on the Huashan Mountain development model centering on government-led market operations and resource integration and coordination, created a green, environmentally friendly, and livable new urban area integrating "mountains, springs, lakes, rivers, and urban areas," effectively solving problems found during the urbanization process. The new urban area helps create a better space for Jinan's urbanization, solve problems in the resettlement of villagers, and provide complete production and living facilities.



Comparison of the original and the renovated Huashan Mountain Shantytown

Focusing on changes in the market environment and the needs of VIP customers, we improved the *Regulations on VIP Customers Management*. We pay return visits to major customers on an annual basis to learn about and summarize their needs and opinions. Relying on the VIP customer management committee, the marketing team, the contract compliance team, main players, and project departments as the axis of our work, we hold VIP customer service joint meetings regularly to ensure smooth internal management of VIP customers. We conduct customer information management and set up multi-level management organizations to provide customers with quality services in time, and further improve customer satisfaction. In 2020, the customer satisfaction rate of sampled projects during the warranty period reached 100%.

After bid winning

Negotiating contracts with customers; Providing optimal solutions for customers based on their needs and signing contracts with them; Actively cooperating with customers to obtain construction permits; Preparing professional teams and resources and establishing the project departments to provide professional services.

During project construction

Organizing project construction meticulously; Developing a rational construction schedule, implementing construction quality control, practicing energy conservation and environmental protection, insisting on safe and responsible construction, and improving construction efficiency with technological innovation; Regularly disclosing project construction information to the project owners.

After the project is completed

The project owner, supervisor, constructor, and design unit conduct an acceptance inspection of the project according to the law to check whether the project meets the requirements of the contract.

After the project is delivered for operation

Solving related problems in a timely manner and ensuring high-quality repair service for products involved in the project before and after sales.



Better customer service based on "construction + intelligence"

Since CSCEC first started the construction of smart communities in 2014, China Overseas Property Management Co., Ltd. has been exploring smart community solutions based on service scenarios. By working with Huawei, China Overseas Property Management Co., Ltd. developed the "Wu Kan" smart community solution, which has been introduced by many communities under its management. The solution guarantees interconnection of communities through edge-cloud collaboration, enhances communities' data precipitation and sharing capabilities and their full-stack scenario AI capabilities. Supported by the smart community solution, China Overseas Property Management Co., Ltd. is able to provide technological services under all scenarios, which makes property services more convenient and considerate.



The release of paradigmatic smart communities

Enhancing Ecological Competitiveness Through Green Construction

CSCEC always prioritizes ecological protection and green development. Giving full play to our own strengths, we enhance our green construction capabilities from all aspects, makes targeted efforts to strengthen environmental governance, promote carbon neutrality, and practice the concept that "lucid waters and lush mountains are invaluable assets." In addition, to realize high-quality development, we work to integrate ecological protection with industry development, and promote the transformation and upgrade of enterprises while building a green economy.



4.3%

Decrease in energy consumption per unit of output value year on year

2,700+

Environmental protection publicity activities organized

312

Environmental emergency drills organized



- Preventing pollution and improving resource utilization efficiency
- Making every effort to promote the realization of the goals of peaking CO₂ emissions and achieving carbon neutrality
- Developing environmental protection sectors and striving for ecological protection

Enhancing Environmental Management

Closely following the *Guiding Opinions on Building a Modern Environmental Governance System* issued by the state council, CSCEC continues to strengthen the environmental protection system and team, sets up incentives and punishments mechanism to stimulate employees' enthusiasm for environmental protection, and tightens environmental protection assessment and supervision. By shifting from passive environmental protection practices to active practices, we have accelerated the modernization of the Company's environmental governance system and capabilities. In 2020, no environmental accidents happened at CSCEC.

Strengthening system construction

We have strengthened the organizational leadership and master design for environmental protection work. The environmental protection leading group coordinates and promotes environmental protection work comprehensively. By promoting the establishment of environmental management leading organizations at all levels of subsidiaries of CSCEC and appointing full-time and part-time management personnel, we strive to guarantee a strong leadership, organizational structure, and staff for environmental management work. In addition, we have formulated the Environmental Protection Management Regulations to continue to expand the coverage of our environmental management system. Based on established contingency plans, we carry out hazard identification and handling as well as special supervision and inspections on a regular basis to continue to improve our environmental risk prevention and emergency response capabilities. In 2020, CSCEC organized 312 environmental emergency drills, involving 17,500 participants in total.

Raising environmental awareness

We developed an environmental management training plan and organized environmental protection training activities through various forms, including offline lectures, experience communication, case sharing, internal observation and learning, and participation in environmental protection training organized by external institutions, striving to raise employees' environmental management awareness and capabilities. In 2020, we organized over 2,700 environmental protection publicity activities, of which 1,350 fell in the Energy Conservation Promotion Week and on the National Low-Carbon Day. Besides, we organized 1,200 environmental protection training sessions, which attracted more than 38,000 participants. To build a paperless workplace, we reduced the number of business tours through telephone and video conferences, effectively cutting carbon emissions while promoting green office buildings. In 2020, the headquarters of CSCEC saved 98 MWh of electricity.



Improving environmental data management

China State Construction International Holding Limited has strictly followed environmental protection requirements in business operations and established a cloud platform for sustainable development, enabling precise and digital control of environmental data during the design, construction and operation of the projects of the Company.

We have established a professional data collection team for each project with dedicated positions to organize regular training and track and enter environmental information of the project. Third-party professional institutions are hired to conduct evaluations and audits of environmental data, laying a foundation for continuous and transparent environmental performance with accurate environmental data.

In addition, we have implemented a set of environmental construction guidelines and compiled the *China*

State Construction Engineering (Hong Kong) Limited Environmental Management Manual, which is continuously updated. The manual emphasizes practical procedures and quantifiable results, which guarantee accurate control of environmental impacts even during the construction of large-scale projects which involve thousands of workers and a construction period of several years.



Online environmental protection training

Working on Ecological Protection

Building ecological civilization is vital for the sustainable development of the Chinese nation. Adhering to the "harmonious coexistence of man and nature," we try to develop new businesses related to water environment improvement and ecological governance, and create idyllic urban areas that blend mountains and rivers. Through assessments of geological impacts and climate risks, we identify the carrying capacity of the ecological environment where our projects are located and protect the natural environment and biodiversity of the local community.



Turning the desert in northern Inner Mongolia into an oasis

The pilot project of ecological restoration of mountains, rivers, forests, fields, lakes and pastures in the Ulansuhai Nur Basin in Inner Mongolia is the largest of its kind in terms of the area of desert to be restored. China Construction First Group Corporation Limited has applied the "4233" construction mode in ecological restoration work. Once completed, the project can prevent one million cubic meters of sand from entering the Yellow River each year and help 37,000 poor people in the Yellow River basin out of poverty and become rich, which is of great significance to sustainable development and ecological progress. China Construction First Group Corporation Limited has paved grids of rice and wheat straw squares, which, supplemented by polylactic acid

(PLA) sand barriers, help control desert effectively. Straw square paving equipment has also been introduced to increase the work efficiency by more than twice and drones have been used for aerial reforestation on over 10,000 mu of land providing useful experience for desertification control.



The pilot project of ecological restoration in the Ulansuhai Nur Basin



The ecological restoration demonstration area covering the upstream and downstream of the Three Gorges Dam

In partnership with China Three Gorges Corporation (CTG), China Southwest Geotechnical Investigation & Design Institute Co., Ltd. launched the project of the ecological restoration demonstration area covering the upstream and downstream of the Three Gorges Dam. Based on the characteristics of the distribution of plant communities and soil in hydro-fluctuation belts, the institute summarized experiences in restoring the vegetation of hydro-fluctuation belts and experimented on the selection and cultivation of water-tolerant plants. The institute also formulated technical standards for ecological protection in different hydro-fluctuation belts of the Three Gorges Reservoir and finally built the ecological restoration demonstration area covering the

upstream and downstream of the Three Gorges Dam. This project can help improve the quality of the environment, enhance the quality and stability of the ecosystem, and promote the green development of the Yangtze River Economic Belt.



The project of the ecological restoration demonstration area covering upstream and downstream of the Three Gorges Dam

Developing Environmental Protection Industries

CSCEC practices green development earnestly and insists on driving development with innovation. Relying on our strong expertise, we actively enhance our environmental protection businesses, such as sewage and garbage treatment, striving to shape an environmental protection brand for CSCEC. Through all our environmental protection efforts, we aim to contribute to building a beautiful China with clearer waters, bluer skies, greener land, and more beautiful scenery.



Water treatment project in the South Lake, Jiaxing

In June 2020, CSCEC Scimee Sci. & Tech. Co., Ltd., in cooperation with Chinese Research Academy of Environmental Sciences, CCCC Shanghai Dredging Co., Ltd., and several other enterprises carried out water treatment in the South Lake, Jiaxing. They adopted the measures of construction of clear water corridors, deepened purification of the estuaries, and improvement of the lake's ecology to improve water quality.

Combining the advanced superconducting magnet separation technology and mature ecological protection technologies, CSCEC Scimee Sci. & Tech. Co., Ltd., has introduced a new model of water ecology protection and restoration to enable efficient water purification. It creates

favorable conditions for the water ecology to heal by itself and water purification in the short term and water ecology restoration in the long run.



Water treatment project in the South Lake, Jiaxing



Building China's Largest Centralized PV Power Generation Base

The No.1 project of the Dalad PV Power Base constructed by China Construction Electric Power Construction Co., Ltd. has an installed capacity 69.03 MW. It has been connected with the first phase of the PV power station in the base since its completion to generate 2 TWh of electricity each year, which means that it can save 660,000 tons of coal equivalent (TCE), cut CO₂ emissions by 1,650,000 tons and reduce 450,000 tons of dust each year, effectively improving the energy mix and the ecology of Inner Mongolia. The project combines forestation with solar power generation, establishes sand barriers on the periphery of the base, sets up green belts on both sides of the main road, and plants dwarf non-wood forests that fit local growth conditions between photovoltaic arrays to stabilize quicksand, resist wind and sand, and enhance

desertification control. In addition to greenery, the project team plants 48,000 mu of red dates and astragalus, which helps improve local ecology and economic income, providing strong support for poverty alleviation.



The No.1 project of the Dalad PV Power Base

Promoting Green Construction

CSCEC has gradually integrated the concept of green construction into the construction techniques. By promoting the application of BIM, Internet of Things, big data, intelligence, cloud computing, and other information technologies in green construction, we have developed green construction technologies, introduced energy-saving and environmentally-friendly construction equipment, and standardized temporary construction facilities. In addition, we have established a green construction evaluation system to minimize pollution, save energy, improve resource utilization efficiency, and beautify construction sites.

Tackling climate change

Following a green and low-carbon development path, we actively participate in the widespread and profound transformation of the economy and society featuring peaking CO₂ emissions and carbon neutrality, reduce the consumption of resources and energy, and cut CO₂ emissions produced by construction and operation. By vigorously promoting the use of renewable energy, such as solar energy, wind energy, and biomass energy, we continue to promote the application of energy-saving equipment and materials, improve energy-saving standards in the construction sector, and strive to provide more high-quality energy-saving green building products to contribute to mitigating and tackling global climate change. In 2020, CSCEC generated 58,700 tons of CO₂ emissions during the construction of projects which directly managed by the Group.



Igloo insulation technology helps build a Snow World

The indoor temperature of Xiangjiang Joy City Snow World, located in Changsha, can be 30°C lower than the outdoor temperature, making the insulation capability of the project a top priority. During the construction of the project, China Construction Fifth Engineering Division Corp., Ltd. used water of the Xiangjiang River and the Snow World to effectively block terrestrial heat and direct sunlight. The interior of the Snow World is covered with 220 mm thick PIR insulation boards to make a large refrigerator. The project applies extra-long insulation boards installed as a whole, and the suspended floating-sink dry-hanging structure, joist-free ceiling plates, automatic gluing, and other installation methods to help effectively prevent thermal bridging effect and reduce

leak points, maximizing the insulation effect. The natural insulation effect guaranteed by the sunken pit helps save up to 30% of energy.



The Xiangjiang Joy City Snow World project

Beautifying project sites

By increasing our investment in the greening of construction sites, we ensure a 100% greening rate for our construction sites. Based on meticulous planning and a reasonable layout, we enclose and cover the construction sites properly, build office areas according to relevant standards, guarantee good hygienic conditions for living areas, and make the scaffolding outside the buildings as neat as possible. At the same time, we clear up the site as soon as the construction is completed, and require the person in charge of each process to submit the handover order when all the garbage is cleaned up.



The enclosure on a construction site displaying the culture and creeds of the CSCEC

Pollution control

We strictly comply with environmental protection laws and regulations and have developed a strict environmental protection management system targeting solid waste, noise pollution, dust pollution, nonpoint source pollution, air pollution, light pollution, wastewater, etc., based on rigorous management measures and advanced technologies. In addition, we try to minimize resource consumption through delicacy management of the workplace, living areas, and construction sites.

In compliance with the "Seven 100%" work requirements, we innovatively introduced tower crane sprayers and other methods to reduce dust and implemented management requirements on establishing enclosures, hardening roads on the construction sites, installing road flushing facilities, and so on to realize refined, grid-based, and full-coverage pollution control.



Reducing dust pollution

To create a good work and living environment, CSCEC Road and Bridge Group Co., Ltd. has put forward the following requirements for the Zhanjiang Avenue Pavement Project to control dust pollution of the mixing station, thus preventing the dust from affecting surrounding residents and crops.

- **Before transportation:** Spraying water on or covering dusty materials before transportation; Designating special personnel to compact soil or other materials that are easy to scatter and conducting an examination before transportation.
- **During transportation:** Overload transportation is strictly prohibited; All vehicles should strictly follow the speed limit; The rear part of the vehicle should be covered and doors on the container should be tightly hinged to prevent dust of the construction site from polluting residential areas and roads; When there are trucks that need to pass by residential areas, a washing area and a settling pond are built at the exit of the construction site to clean each truck before it enters the residential area.
- **After transportation:** Cleaning up sand and gravel carried by the vehicle tires and scattered on the roads during

transportation to prevent flying dust on windy days; Handling accidental scattering of dirt in a timely manner.

- **On the construction site:** Sprinkling water regularly on the roads in the construction sites; Hardening and sprinkling water on temporary roads paved for reducing dust in the surrounding areas; Sprinkling water regularly on the construction site and adopting other dust reduction measures to control the flying dust when there are earthworks placed on the site temporarily.



Zhanjiang Avenue Pavement Project

Supporting Corporate Development by Stimulating Employee Growth

Talents are the cornerstone of corporate development. Hence CSCEC is committed to building an employee development system with global competitiveness. We hire high-caliber talents worldwide, and strive to cultivate a large number of talents with a global vision and world's leading competitive edge. At the same time, we transform our talent advantage into the advantage that promotes the high-quality development of CSCEC towards a world-class, globally competitive company.



276

Experts who enjoy special government allowances of the State Council

37,348

First-level registered construction engineers

Over **1** million
Person-time in staff training

365,000

person-time
Work safety training sessions



- Establishing employee development platforms
- Creating smart safety management systems
- Supporting a better work-life balance for employees

Protecting the Rights and Interests of Employees

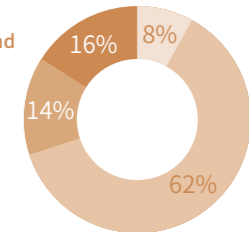
CSCEC always strictly abides by the laws and regulations of China as well as of countries and regions where it operates, and constantly improves various rules and regulations regarding employee management, service, and care. We respect employees, adhere to equal employment and democratic management, optimize the remuneration system, and support employees' reasonable demands to protect their legitimate rights and interests in all aspects.

Equal employment

We keep our efforts to ensure equal employment and equal pay for equal work, oppose employment discrimination, forced labor and child labor, and maintain a fair and just work environment. In 2020, CSCEC had 356,864 employees in total, of which 28,496 were overseas employees, 20% were female employees, and 1.7% were employees with disabilities. Female managers accounted for 20% of the management team, and the turnover rate of employees was 5.45%. In 2020, we signed labor contracts with all employees.

Proportion of employees by educational background

- Master's degree or higher
- Bachelor's degree
- Junior college
- Technical secondary school or lower



Democratic management

We earnestly safeguard the political, economic, and cultural rights of our employees. We attach significance to the roles of labor unions, the Communist Youth League, and the female employee committees in connecting employees with the Company's management, and support the construction of talent team of these organizations, thereby promoting the innovative development of democratic management. In 2020, the establishment rate of the labor unions at each level reached 100%, and the employee membership rate was 99%.

Fully playing the role of the Workers' Congress while improving the way it performs as per laws and regulations, so as to protect employees' rights to be informed and to oversee.

Further improving the disclosure of corporate affairs and the relevant system to standardize the procedures and forms of disclosure.

Improving the system of employee directors and supervisors, and raising employees' awareness of the responsibilities of employee directors and supervisors; training employee directors and supervisors to enhance their ability to make decisions, supervise, and perform tasks.

Remuneration and benefits

We adhere to market-oriented reforms, make precise and effective employee incentive plans, link up employees' remuneration to their performance, and continuously improve the remuneration and benefits system. We strictly abide by laws and regulations while paying our dues on endowment insurance, medical insurance, unemployment insurance, employment injury insurance, maternity insurance, and housing provident fund schemes for employees. In addition, we offer benefits such as medical examinations, holiday visits, wedding wishes, etc., to our employees to improve their enthusiasm at work. In 2020, CSCEC paid social insurance for all employees.

Unlocking Channels for Employee Development

CSCEC employs people on the basis of both their moral integrity and their professional competence with priority given to the former. We have established the talent office to conduct research on the strategic planning of talent development, develop a professional personnel system, hire and train high-caliber talents, etc. We grasp the characteristics and demands of different types of employees, guide their career development, and have formed the "profiling" of key employees. Through career development planning and staff training, we help employees improve their job skills and build a broad career development platform. In 2020, the total number of participants in the Company's staff training reached over one million. As of the end of 2020, CSCEC had two academicians from the Chinese Academy of Engineering, one winner of the State Preeminent Science and Technology Award in Engineering Construction, 12 national engineering survey and design masters, 276 experts who enjoyed special government allowances of the State Council, and 28 winners of the China Skills Award and National High-Skilled Workers.



Training young entrepreneurs

CSCEC has launched the Young Entrepreneur Training Program to meet the need for vigorously selecting and training outstanding young cadres in the new era. Aimed at cultivating entrepreneur teams of SOE, the program strengthens the ideals and beliefs of young cadres, improves their knowledge structure, and enhances their professional capabilities through the effective combination of organizational training and personal practices. A number of general managers from secondary institutions and administrators from the headquarters have been selected for participation in the program. CSCEC has completed training phases in Beijing, Shenzhen, Jinggangshan, Chengdu, and Singapore.



Building the Line of Defense for Safety

CSCEC always puts employee safety first, and always regards ensuring work safety as the most important task in the pursuit of corporate development. We plan, promote and implement measures to enhance work safety based on political awareness, and always keep worst-case scenarios in mind. In 2020, CSCEC invested RMB 26.47 billion in work safety.

Enhancing safety management

We build scientific, professional and standardized technical teams and management teams responsible for work safety, and strengthen accountability for work safety to ensure that the relevant personnel take responsibility for work safety in performing their duties, and to intensify efforts to see that those who fail to uphold safety standards are held accountable. We have improved the three governance systems, including the work safety responsibility system involving all employees, the standardized work safety supervision management system, and the prevention and control system for risk prevention and hidden danger management. We also carry out regular special inspections and hidden danger investigations to fully implement the system of the Company and all projects assuming responsibility for work safety. In 2020, we signed letters of responsibility for achieving work safety targets with all relevant personnel.

Enhancing safety management

Developing action plans

We earnestly strengthen the safety management of construction sites, enhance the safety awareness and technical capabilities of first-line construction workers, and continuously improve the work safety governance system and the modernization of governance capabilities.

Establishing inspection and supervision groups

The groups are responsible for supervising the implementation of various rectification measures for work safety. Deputy general managers or safety directors from the second-level units serve as group leaders, and the group members include personnel specially assigned for safety management from relevant units in places where the business is conducted.

Carrying out special audits and investigations

We carry out special audits and investigations of work safety, pooling oversight forces from all internal departments while attaching great importance to audit quality control. Through this, we can put forward suggestions and measures for improving management, and effectively respond to risks and hidden dangers in project safety management.



Conducting safety training

CSCEC Middle East L.L.C. (CSCEC ME) conducts construction site entry safety training, daily safety education and risk notification, and TBT education (special toolbox), and issues video warning to ensure that every worker can receive safety training in their native languages. The company also conducts assessments through on-site question and answer to ensure the workers' high awareness of work safety. It makes monthly safety education plans, and regards the completion of the plans as a key criterion of the internal audit of work safety. In 2020, CSCEC ME had no workplace accidents throughout the year, and won nine awards issued by

International Safety Awards of British Safety Council (BSC) and the Best Health and Safety Performance in the Year 2020 by the UAE Government.



Letting the alarm bells keep ringing

In 2020, a struck by object accident occurred at the construction site of one of the Company's projects. Leaders of the relevant subsidiary rushed to the scene in the wake of the accident to direct the rescue mission and deal the aftercare work. The project department immediately activated a contingency plan, organized on-site rescue, and reported the accident to the local supervision department. At the same time, they demanded suspension of projects involving the same type of construction method, and meticulously investigated hidden safety hazards. They also standardized the training of personnel before work, taking the construction process, safe operation procedures and emergency response measures as the main content of the training. We have drawn a lesson from the accident, revised the management system, and re-edited the operating procedures to further strengthen the safety management of the removal of the formwork. In addition, we produced an animation about the accident, and filmed a series of videos named the *Line of Defense* to warn all employees against workplace hazards.

Building a safety culture

In order to create a work environment where the worst-case scenarios are always kept in mind and safety is enhanced through positive incentives, we conduct a series of special safety training activities, such as the "Behavior Safety Star", "Three Iron Laws and Six Disciplines," and "Safety Notification." We have produced 45 videos warning employees against safety hazards in the workplace, issued the *Behavior-Based Safety Guide for On-Site Personnel - the Three Iron Laws and Six Disciplines*, and launched online training programs on the safety management of large-scale machinery and equipment to improve employees' safety awareness. In 2020, 169 projects of CSCEC were rated by the Construction Safety and Machinery Branch of China Construction Industry Association as "Projects for the Study and Exchange of Standardization of Construction Site Safety of Civil Engineering Projects," accounting for 32.2% of the total number of award-winning projects and earning the Company the first rank among all central SOEs and companies around the country.

Encouraging young employees to take the lead in ensuring work safety



Themed activity - "Daddy, Come Back Safe and Sound"

Before the arrival of the 19th "Work Safety Month," CSCEC Strait Construction and Development Co., Ltd. made use of the leading role of young employees in ensuring work safety, and launched a series of activities under the theme of "Young Employees Taking the Lead in Enhancing Work Safety." Focusing on the use of technology, the support from employees' family members, and safety training, CSCEC Strait carried out about 20 safety themed activities that combined "theory + practice" to improve the safety awareness of young employees and promote the creation of demonstration positions of work safety held by young employees.

Enhancing occupational health

Paying close attention to the physical and mental health of employees, CSCEC provides annual health examinations. By organizing occupational health-related training and publicity activities, we endeavor to raise employees' awareness of occupational disease prevention, and by providing psychological counseling services for employees, we aim to improve employees' physical and mental health in all aspects. In 2020, CSCEC's special training on occupational health reached 75,000 times.

Ensuring safety through technology

We have embarked on the construction of the CSCEC Safety Management Information System, in order to monitor all hidden workplace hazards around the clock and eliminate them all to ensure the safety of all employees and the Company. The system uses technological approaches to supervise and correct human errors, monitor and warn against the unsafe status of objects in real time, as well as continuously supervise environmental factors and improve management measures. In 2020, the system won two second prizes and three third prizes of the National Science and Technology Progress Award.



Creating a smart safety management system

The smart safety management system

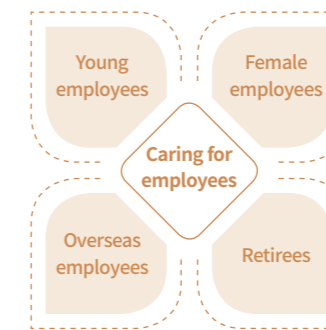
China Construction Sixth Engineering Bureau Corp., Ltd. has built a smart safety management system that covers the entire process and cycle of safety management and is based on "smart safety education, smart risk monitoring and smart safety management." Smart safety education refers to the replacement of traditional "force-feeding" training approaches with approaches that apply new technologies such as virtual reality, human-computer interaction, etc., which can make the training more enjoyable and more effective. Smart risk monitoring refers to the use of the Internet of Things and big data to discover hidden hazards through monitoring sensing and data analysis, and to issue immediate warnings. Smart safety management refers to the elimination of blind spots in safety management through information technology and other technological approaches. It improves the efficiency of safety supervision, and makes safety management more standardized.

Ensuring Work-Life Balance for Employees

Always being people-oriented, CSCEC is committed to creating a comfortable, harmonious and pleasant work environment for all employees. We provide employees with various leisure and entertainment activities to support them in developing their own hobbies, so that we can enhance team cohesion and employees' sense of belonging to the Company. We care about the lives and family members of our employees, and actively help them solve their personal problems. We organize various activities such as parent-child activities and office parties to help employees better manage their work and family life and deal with the pressure caused by the imbalance between work and life, so that they can live and work happily.

Attaching importance to the cultivation of young talents, and innovating in the forms of cultural activities to stimulate their vitality; organizing various activities such as the training camp for outstanding young employees to improve their competitiveness

Caring for overseas employees and their family members in China, improving their benefits and medical insurance, and taking various measures to create better living conditions for them



Earnestly protecting the legitimate rights and special interests of female employees, and providing holidays and benefits, such as menstrual leave and maternity leave; building baby-care rooms, and implementing the provisions on medical assistance for female employees with special diseases

Strengthening the awareness of responsibility, continuously enhancing the ability to serve and unite retirees, and taking good care of them to make sure that they can live in comfort in their old age



Employee sports events



Employee basketball game



Employee collective wedding



Chinese and foreign employees celebrating the Chinese New Year

Pursuing Win-Win Development to Form a More Cohesive Partnership

CSCEC cooperates with various stakeholders, and builds close partnerships with them. We draw on each other's strengths and promote mutual benefits to support the Company in becoming stronger, doing better and growing bigger, and work hand in hand to build a new development pattern.



100%

Green purchase rate of bulk commodities

4

Newly signed strategic cooperation agreements

RMB **231.76** million

Investment in subcontractor training



- Promoting the common development of upstream and downstream enterprises
- Promoting the modernization of the industry chain and supply chain
- Working with stakeholders for mutual benefit

Building Responsible Supply Chains

CSCEC is committed to building a responsible supply chain by strengthening supervision of basic construction techniques and building materials, and guiding construction companies to provide high-quality, environmentally friendly products and services. We drive the development of upstream and downstream enterprises, including private enterprises, and strive to improve the modernization of the industry chain and supply chain. In 2020, all suppliers/subcontractors of key products were certified by related quality, environment and occupational health and safety management systems.

Developing a new procurement model

We have improved the procurement management by building the new "Internet Plus" material procurement model, establishing the "7+N" centralized procurement model covering various regions, and setting up the corresponding virtual organizations - the "centralized procurement center for all regions." These efforts have allowed us to fundamentally optimize the Company's procurement of bulk materials. In addition, we took the lead to explore the digital economy with the new e-commerce platform for the construction industry based on the yzw.cn procurement platform.



The yzw.cn procurement platform

Upholding the principle of quality procurement

We maintain long-term, close cooperation with a large number of high-quality material suppliers with a thorough understanding of their procurement services, and strictly abide by the procurement principles of "centralized procurement, hierarchical management, fairness and justice, selection of the best, strengthened management and control," so as to ensure the "openness and permanent traceability" of procurement while meeting customer demand perfectly. In 2020, the responsible procurement rate of CSCEC reached 100%, and the green procurement rate of bulk materials reached 100%.

Driving development of the industry chain

We pursue supply-side structural reform as our main task, and attach great importance to the new requirements of demand-side reforms, so as to generate new demand with innovation-driven development and high-quality supply, and achieve a dynamic equilibrium on a higher level, in which demand and supply can boost each other. We always regard achieving self-reliance and self-improvement in science and technology as the strategic support for corporate development. At the same time, we strengthen industrial collaboration with upstream and downstream companies, and support them in achieving technological breakthroughs, thus upgrading the modernization of the industry chain and supply chain, and achieving common development.



Promoting development of the industry chain

Zhou Naixiang, Chairman of China State Construction and Chairman of CSCEC, met with Kiyoshi Fushitani, Senior Managing Executive Officer of ORIX in Beijing, where they had a thorough discussion on deepening cooperation in multiple fields, and signed a memorandum of strategic cooperation. The two parties expressed that they would make full use of their respective advantages to build a win-win and sustainable strategic partnership.



CSCEC and ORIX sign a strategic cooperation memorandum

Deepening Mutual Trust and Benefits

CSCEC actively builds platforms for cooperation, and strives to establish ties with local governments, enterprises, universities, research institutes, and financial institutions based on mutual trust to achieve common development and contribute to sustainable national and regional development. In 2020, the Company signed four strategic cooperation agreements to facilitate the implementation of the national strategies.

Government-enterprise cooperation

We have signed strategic cooperation framework agreements with a number of local governments to jointly carry out substantive and in-depth cooperation in an all-around way and create a model for achieving coordinated development through joint efforts between central SOEs and local governments. In 2020, CSCEC strengthened cooperation with the People's Governments of Hubei, Sichuan and Guangxi Zhuang Autonomous Region, as well as with the Municipal Governments of Wuhan, Qingdao and Suzhou.



Contributing to the high-quality development of Qingdao

Zhou Naixiang, Chairman of China State Construction and Chairman of CSCEC, and Wang Qingxian, Member of the Standing Committee of the Shandong Provincial Party Committee and Secretary of the Municipal Party Committee of Qingdao, held talks in Beijing. The two parties stated that they would take the signing of the strategic cooperation agreement as an opportunity, and leverage their respective advantages in innovating in cooperation models and strengthening in-depth cooperation in comprehensive urban development, infrastructure construction, IT application in construction, etc., and promote the implementation of the national strategies in Qingdao.



CSCEC and Qingdao sign a strategic cooperation agreement

Cooperation with businesses

We have cooperated with a number of companies in exploring more efficient, pragmatic and innovative cooperation models based on our respective strengths, so that we can jointly create more high-quality projects and keep improving our competitiveness in the global economy development. In 2020, CSCEC intensified cooperation with State Grid Corporation of China on new infrastructure construction and smart energy use in construction, and conducted strategic cooperation with China Post on the construction of major projects, joint real estate development, integration of industry with finance, express and logistics, etc. The Company also cooperated closely with China Mobile on the integration of 5G technology and the construction industry to promote the digital transformation of the latter.



CSCEC and China Mobile sign a strategic cooperation agreement

University-enterprise cooperation

We work closely with universities and research institutes to promote the implementation of projects, and strive to achieve more research results. In 2020, we established cooperation with Zhejiang University in the fields of "new infrastructure," e-commerce, and smart construction.

Bank-enterprise cooperation

We pursue a higher level of bank-enterprise cooperation by establishing a mechanism for regular communication with financial institutions, broaden the scope of cooperation on business innovation, and promote the in-depth integration of industry and finance. In this way, we can make the best use of our respective advantages, promote mutual benefit, and work together towards high-quality development. In 2020, CSCEC established cooperation with financial institutions such as the Export-Import Bank of China and CITIC Securities.



CSCEC and CITIC Securities sign a strategic cooperation agreement

Cooperation with associations

Industry Associations Joined by CSCEC (Partial)	Identity	Industry Associations Joined by CSCEC (Partial)	Identity
China Enterprise Confederation(China Enterprise Directors Association)	Vice-president Unit	The Investment Association of China	Vice-president Unit
China Chamber of International Commerce	Vice-president Unit	China Association of Building Energy Efficiency	Vice-president Unit
China Construction Industry Association	Vice-president Unit	Architectural Society of China	Vice-chairman Unit
China Association of Construction Enterprise Management	Vice-president Unit	China Civil Engineering Society	Vice-chairman Unit
China International Contractors Association	Vice-president Unit	China Association for Engineering Construction Standardization	Vice-chairman Unit
China Group Companies Association	Vice-president Unit	China Highway Construction Association	Vice-chairman Unit
China Association for Quality	Vice-president Unit	China Engineering & Consulting Association	Vice-chairman Unit
China Association of Work Safety	Vice-president Unit	Accounting Society of China	Chairman Unit
The China Association For Labour Studies	Vice-president Unit	China Association For Public Companies	Chairman Unit

Fulfilling Responsibility in Boosting People's Well-Being

Every company is rooted in society, and has an obligation to fulfill their social responsibilities. CSCEC is the staunchest supporter of the vision of building a community of shared future for mankind. We are committed to leveraging the strength of "Constructed by China" to contribute to regional prosperity, improve infrastructure, support public welfare undertakings, and enhance people's livelihood and well-being, thus continuing to "expand a happy living environment" for people around the world.



2,000,000+
Jobs created for migrant workers

28,000
Fresh college graduates recruited

7,000+
Volunteer activities organized



- Supporting the career development of industrial workers and ensuring their wage income
- Caring for the growth and development of left-behind children
- Participating in community construction and boosting community development

Contributing to Regional Prosperity

With world-leading construction technology, CSCEC vigorously improves local infrastructure, stimulates regional economic development, and injects fresh impetus to regional innovation and development.



The extension of the Southern Expressway in Sri Lanka opens to traffic

In February 2020, the Sri Lanka Southern Expressway Extension contracted by CSCEC Sri Lanka officially opened to traffic. The expressway is expected to be a traffic artery linking western and southern regions of the country, and will greatly promote local economic development, increasing local people's income and improving their living standards.



Sri Lanka's President Gotabaya Rajapaksa unveils and cuts the ribbon for the opening of the whole line of the project

"CSCEC and Sri Lanka shared a long, prosperous friendship, and it has been supporting Sri Lanka's development in many significant ways."
- Mahinda Rajapaksa, Prime Minister of Sri Lanka



CSCEC-built Algeria North-South Highway opens to traffic

The 53km section of CSCEC-built Algeria North-South Highway running through Algeria's major north-south traffic artery officially opened to traffic. The expressway crossing the Atlas Mountains and Chiffa Valley, is the section with the most complicated natural conditions, the highest technical requirements and the extreme high construction difficulties. The expressway which opened to traffic ahead of schedule has closely linked the southern hinterland with the northern coastal areas of Algeria, which is of great strategic significance to the country's security and economic development. Algerian Prime Minister Abdelaziz Djerad praised that the project is a great achievement of strategic significance to the nation.



Algerian Prime Minister Abdelaziz Djerad attends the ribbon-cutting ceremony

Caring for Left-behind Children

Strengthening the care and protection of left-behind children in rural areas is an important decision made by the CPC Central Committee and the State Council. The healthy growth of left-behind children is related to family well-being and social harmony, and also matters to the big picture of building a moderately prosperous society in all respects. CSCEC devotes itself to the care and protection of left-behind children in rural areas. To achieve this goal, CSCEC has strengthened overall planning, innovated activity carriers, and taken targeted actions to enhance care for this group.

Broad impacts

Since May 2018, CSCEC, the Office of the National Inter-ministerial Joint Meeting for the Care and Protection of Left-behind Children and Children in Difficulty, and the Ministry of Civil Affairs have organized the "100 lectures on construction sites" campaign for three consecutive years. For the past three years, CSCEC cumulatively held over 300 voluntary lectures in 31 provinces, autonomous regions and municipalities directly under the administration of the central government, earning national recognition and enhancing social influence on a continuing basis. The campaign has offered a brand new model of voluntary service - working with the government to jointly fulfill social responsibilities and care for children left behind in the countryside. It has also helped form a routine care and protection mechanism and expanded the engagement of social forces in this cause, creating a favorable atmosphere for all sectors of society to care for and protect left-behind children in rural areas.



Father's Day activity - Family Day



Awards for Most Charming Volunteers

High recognition

The Office of the National Inter-ministerial Joint Meeting for the Care and Protection of Left-behind Children and Children in Difficulty, and the Ministry of Civil Affairs sent letters of appreciation to CSCEC for its efforts in the "100 lectures on construction sites" campaign - thoughtful organization and deployment, active response, close collaboration, and successful implementation. Through the characteristic, diverse and intriguing lectures, CSCEC publicized the policies on the care and protection of rural left-behind children on construction sites, into millions of households, and into the mind of migrant workers. As such, people's awareness of family guardianship and care is raised, effectively contributing to work safety and children care.



Group birthday celebrations for left-behind children



The "100 lectures on construction sites" campaign at China Construction Science & Technology Co., Ltd.

Rich activities

In 2020, we organized volunteers to give lectures on construction sites where CSCEC was operating projects. The lectures, focusing on laws, regulations and policies on minors, families, family communication, safety and self-protection, etc., helped raise migrant workers' awareness of family guardianship and improved their care techniques and family care, contributing to building harmonious and civilized families. For example, our volunteers gave lectures to migrant workers and their children on safety and self-protection from the perspectives such as laws, regulations and policies, parent-child communication skills, prevention of drowning, prevention of school violence, prevention of trafficking, prevention of injuries, etc., reiterating the responsibility of family guardianship. In addition, the campaign promoted the implementation of two actions, i.e., incorporating "care and protection of left-behind children in rural areas" into social responsibility management, and including "migrant workers' responsibility for their children as guardians" into the labor subcontract.



Holding publicity activities

China Construction Harbour and Channel Engineering Bureau Group Co., Ltd. organized publicity activities for employees' children on the construction sites, including expert lecture, parent-child interaction, and guardianship initiative. Through the activities, employees' children were invited to visit the places where their parents worked and witness the hard work of their parents, obtaining a better understanding of their parents' job. Moreover, the activity of Dream Express Train for Island Children was organized to help primary school students from Qingdao Island see the outer world, experience the development of the country, and acquire knowledge of cutting-edge marine technology.



Giving away gifts



Holding Diverse Publicity Activities

China Construction Science & Technology Group Co., Ltd held diverse publicity activities under the theme of care for employees' children, including the honor flag giving ceremony, the representative of migrant workers reading the "I am the Legal Guardian" initiative, listening to a letter written by a left-behind child to his/her mother and a letter from a parent; watching the left-behind children micro-film *Waiting for You*, the left-behind children's sign language dance *I Want to Say Thank You to You*, and the representative of left-behind children and his/her father's interaction show *I Have a Candy*, as well as Guizhou's Miao Lusheng Melody and Dance, intangible cultural heritage Tie Dyeing experience activity, playing games, group birthday celebrations, etc. In addition, the leaders of the company gave away gifts such as school bags and stationery to the representatives of left-behind children during the activities, and encouraged them to be independent, strong, and positive.



The left-behind children are invited to experience the intangible cultural heritage - Tie Dyeing

Protecting the Rights and Interests of Migrant Workers

CSCEC guarantees that migrant workers are paid on time and in full, and that their rights and interests are well protected. CSCEC pays much attention to migrant workers' occupational health and safety, knowledge and skills training, and promotes the transformation of them into a new type of workers for the construction sector, helping migrant workers realize self-value and pursue a better life.

Participating in Community Development

The development of an enterprise is inseparable from the support and understanding of the community. CSCEC cultivates and practices core socialist values, actively participates in community development, and leverages its own resources and technological advantages to support the cultural and education development of the community. Moreover, CSCEC is actively engaged in public welfare and disaster relief, creating a good living environment for community residents.

Public welfare

We participate in social governance, highlight the creation of public welfare value, and continue to build voluntary service brands such as Witness Happiness · CSCEC Care and Lanbao Public Welfare. With more than 140,000 hours of volunteer service, we have built a bridge of happiness for community residents and contributed "CSCEC Power" to building a harmonious society. In 2020, CSCEC won several state-level awards for its efforts in public welfare, including two Most Charming Volunteer Awards, two Best Volunteer Organization Awards, and one Best Volunteer Service Project.



The Love Car Fleet escorts students taking the college entrance exam

In the Love Car Fleet and Service Station for Students Taking the College Entrance Exam campaign, China Construction Seventh Engineering Division Corp., Ltd. has set up car fleets and service stations in over 30 cities in 13 provinces across the country for students taking the college entrance exam. During the campaign in 2020, the Company, along with Henan Province Civilization Office, Henan Provincial Committee of Communist Youth League, Traffic Police Corps of Henan Public Security Office, organized a concurrent activity - celebrating the 14th Henan Traffic Radio's and the 10th China Construction Seventh Engineering Division Corp., Ltd.'s anniversary of the campaign, passing on the volunteer love and support for students taking the college entrance exam.



Love car fleet for students taking the college entrance exam

Rescue and relief

Responsibility must be fulfilled in times of disasters. We remain highly vigilant and keep enhancing emergency response preparation. When floods and other geological disasters hit the country, we leverage our highly efficient organization and execution to carry out prevention, emergency rescue and post-disaster relief work, sparing no effort to protect the safety of people's life and property.



Cementing the flood defense line

In July 2020, continuous rainstorm hit Poyang County, Jiangxi Province. The cofferdam of the Xinjiang Shuanggang Shipping Hub project undertaken by China State Construction Port Engineering Group Corp. Ltd. (CSCEC Port) was located along the embankment in Poyang County. Once the cofferdam collapsed, the consequences would be disastrous.

The project department used concrete blocks, stones and sand belts to protect the damaged area of the cofferdam and the protective surface. The 2,400-meter artificial cofferdam built for project construction was urgently elevated and reinforced by about one meter, and a spillway was also built. On July 13, the project department released water into the construction foundation pit at the cost of compromising construction effects, so as to ensure safety along the embankment.

At the same time, Guihu Village, a village located near CSCEC Port's project site in Jiangxi, was seriously

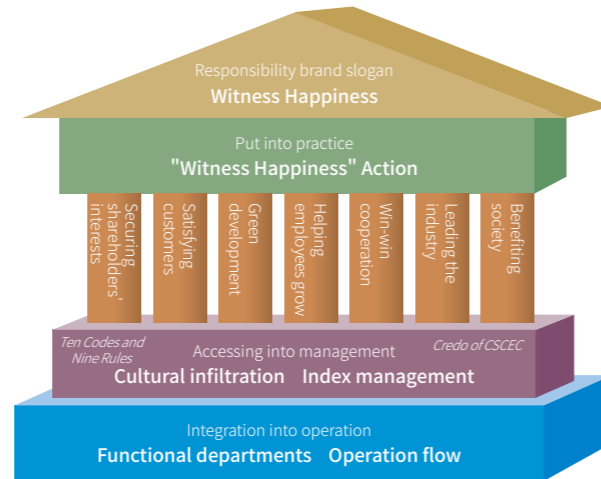
waterlogged, affecting local farmland and houses. Members of the project department drove 20 kilometers to assist local villagers in evacuation and transportation of relief supplies. Besides, in response to the call of the Jiangxi Provincial Government, the project department allocated some mechanical equipment to assist in local rescue work.



The scene after releasing water into the construction foundation pit

CSR Management

We take "expanding a happy living environment for stakeholders" as our own responsibility, align with the philosophy of building a community of shared future for mankind, and strive for a world-class model enterprise. Committed to extensive consultation, joint contribution and shared benefits, we aim to enhance the people's sense of happiness and gain.



CSR Culture

We strengthen cultural self-confidence, carry forward the profound traditional Chinese culture, and enhance the foundation of CSCEC Spirit with the great national spirit and the spirit of the times as the basis, with core socialist values as the core. We continue to implement the *Credo of CSCEC* and develop a series of cultural education courses and videos to promote the education of the history of reform and opening up, the history of the People's Republic of China, and the history of Chinese civilization.

CSR Governance

We have benchmarked against the internationally renowned investment and construction companies to explore future development strategies and priorities of CSCEC.

In this regard, we upgraded CSR management and built a brand-gear CSR management model. Centered on the seven topics of "securing shareholders' interests, satisfying customers, pursuing green development and win-win cooperation, helping employees grow, leading the industry, and benefiting society", we carry out the Witness Happiness·Global Action, proceed the implementation of CSCEC's "one creation and five aspects of strength" strategic goal, and support CSCEC's efforts in responsible investment and construction across the world.



CSCEC: Brand-gear Corporate Social Responsibility Management

CSR Communication

At the 2020 Ceremony of the Collective Release of CSR Reports of Central State-owned Enterprises held by State Council, CSCEC shared its efforts and results in COVID-19 prevention and control. We completed the *CSCEC 2019 Sustainability Report* (Chinese and English versions) with high quality, provided paper and online versions of the sustainability report based on stakeholders' varied needs, and wrote articles for deeper interpretation of the report. In addition, we guided COHL, COLI, China State Construction International Holdings, China Overseas Property Holding Limited and other companies affiliated to CSCEC to compile and publish their sustainability reports (or ESG reports), promoted CSCEC's overseas branches to compile and publish CSR country reports, and continuously improved the operational transparency and social communication of these companies, winning great understanding and support from our stakeholders.

We completed the collection and promotion of the "Excellent CSR Practices of CSCEC" of the year, which guided our subsidiaries to improve CSR management, CSR performance and CSR communication for building CSR brands. We actively participated in the selection of excellent CSR cases and two CSR cases of CSCEC were included in the *Blue Book on Corporate Social Responsibility of Central SOEs (2020)*, the *Blue Book on Overseas Corporate Social Responsibility of Central SOEs (2020)*, and the *Collection of Outstanding Cases of Central State-owned Enterprises in the Fight Against COVID-19* issued by the SASAC.



China Overseas Holdings Limited Sustainability Report 2019



China State Construction International Holdings Limited Sustainability Report 2019



China Overseas Land and Investment Ltd. ESG Report 2019



China Overseas Property Holding Limited ESG Report 2019



CSCEC Egypt Sustainability Report (Chinese, English and Arabic versions)



CSCEC Singapore Sustainability Report

CSR Dissemination

In order to build a world-class enterprise, we made a series of special reports on deepening reform, technological innovation, poverty alleviation, work safety and other topics. Specifically, we planned for news reports on the representative of CSCEC attending the Two Sessions, worked with the mainstream media to publicize CSCEC's achievements during the 13th Five-Year period, and made special reports on technological innovation, the implementation of the three-year action of state-owned enterprise reform, and the achievements of major engineering projects. Besides, we held a photography contest on the theme of "building a new era and embarking on a new journey".

▪ The cloud open campaign on the theme of Witness Happiness·CSCEC's Effort for Building a Moderately Prosperous Society

2020 was the final year of building a moderately prosperous society in all respects and accomplishing the goals of the 13th Five-Year Plan. Amid the COVID-19 pandemic, focusing on CSCEC's "one creation and five aspects of strength" strategic goal, China State Construction organized the cloud open CSR campaign within the whole company under the theme of "Witness Happiness·CSCEC's Effort for Building a Moderately Prosperous Society". The cloud open campaign lasted for four months; 41 cloud open activities and 45 super project open day activities were held in 35 cities of 12 countries (regions) in Asia and Africa.



Launch of the cloud open CSR campaign on the theme of "Witness Happiness·CSCEC's Effort for Building a Moderately Prosperous Society"

In the CSR campaign, we held Project Open Day, Poverty-alleviation Products Promotion, CSCEC in Foreigners' Eyes, and other forms of activities, aiming to tell the stories of CSCEC to expand a happy living environment across the world. Relying on CSCEC's media convergence platforms, we worked with central media, industry media, local media, overseas media and Wemedia (self-media) platforms, and formed a communication pattern with internal and external linkage, ensuring all-round, multi-tiered and multi-voice media convergence communication. Over 380 mainstream media at home and abroad reported this event, with more than 130 million page views.



The Xinhua News Agency is live-streaming the cloud open day event



The cloud open day event

▪ Publicizing CSCEC's efforts in fight against COVID-19

After the outbreak of the COVID pandemic in 2020, CSCEC carried out the thematic publicity under the theme of CSCEC's efforts in fight against COVID-19. Through launching a webpage, a special issue, a series of short films and columns, the media matrix released more than 10,000 news reports, with over 850 million direct views; and the views of the video collection for the construction of Huoshenshan Hospital and Leishenshan Hospital reached 650 million. With the assistance of domestic and foreign media, more than 340,000 news reports were released, including over 5,000 feature reports on the front page of *People's Daily*, headline of Xinhua All-Media and *Xinwen Lianbo*. Through these media platforms, hundreds of millions of netizens were able to look at the progress of the construction project online. The thematic publicity under the theme of CSCEC's efforts in fighting against COVID-19 was included in the list of 100 online positive energy publicity events by Office of the Central Cyberspace Affairs Commission.

The stories of CSCEC's battle against COVID-19 at home and abroad have earned praises from all sectors of society. In the thematic publicity, a total of 2,490 news reports were released on foreign-language official websites, overseas social platforms, and 135 foreign media channels. The representative of CSCEC, on behalf of central SOEs in Egypt, delivered a speech at the press conference of China's embassy in Egypt on COVID-19 fight. Moreover, the Media Open Day event was held for the Egypt's New Administrative Capital project to promote CSCEC's refined measures of COVID-19 prevention and control, winning high recognition from the Egyptian government. Besides, State Councilor Wang Yi remarked at the press conference of Ministry of Foreign Affairs that China and Egypt have carried out close cooperation during the construction of the Egypt's New Administrative Capital project. To appraise CSCEC's efforts in this project, CSCEC was granted the Outstanding Contribution Award for China-Egypt Anti-pandemic Cooperation by the Chinese Embassy in Egypt and the Egyptian government.



Witness the fight against COVID-19 Feature film



Witness the fight against COVID-19 Special Annual

In 2020, seven of our works were rated among the Top Three in the 3rd Central SOEs Stories Competition organized by SASAC, five works were rated as the Top Three of the group of micro films (short videos) on the theme of central SOEs practicing core socialist values, and eight works were granted with awards in the 2nd Belt and Road Short Video Competition: Footprints and Memories. We also won 20 honors in the 7th SOEs Good News Competition, with the largest number of prize-winning works. Besides, we won the Chinese Enterprises New Media Innovation Award of the year and CSCEC was included in the list of 100 Online Positive Energy Selections by Office of the Central Cyberspace Affairs Commission.



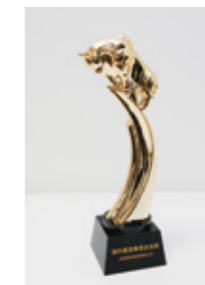
CSCEC wins the Top 10 Excellent Cases Award



CSCEC wins the Award of Excellent Overseas Anti-COVID Cases



CSCEC wins the Chinese Enterprise Social Responsibility Award



CSCEC wins the Award of Model Enterprise with Outstanding Overseas Fulfillment

Stakeholder Engagement

We carry out the identification of stakeholders actively, and enhance our communication with stakeholders through effective communication. By further understanding and responding to the demands and expectations of stakeholders, we aim to make greater achievements in CSR work, expand a happy living environment, and strive to ensure a multi-win situation for all.

Stakeholders	Expectations and Requirements	Communications and Responses
Governments	<ul style="list-style-type: none"> Observing laws and regulations Paying taxes according to law Boosting employment Promoting the brand 	<ul style="list-style-type: none"> Compliance management Active tax payment Support and guidance Brand building and promotion
Shareholders and Investors	<ul style="list-style-type: none"> Return on gains Satisfying market value Protecting rights and interests Learning about business conditions 	<ul style="list-style-type: none"> Improving profitability Strengthening market value management Timely information disclosure Building interaction platforms
Customers	<ul style="list-style-type: none"> Contract fulfillment with integrity Information transparency High-quality products Quality services 	<ul style="list-style-type: none"> Contract execution Demand survey Tailored solutions Suggestions and feedback
Employees	<ul style="list-style-type: none"> Salary and welfare guarantee Equal opportunity Career development Health and safety Humanistic care 	<ul style="list-style-type: none"> Protection of rights and interests Democratic governance Education and training Safeguard measures Cultural and sports activities
Partners	<ul style="list-style-type: none"> Public procurement Resource sharing Win-win cooperation 	<ul style="list-style-type: none"> Execution of contracts and agreements High-level visits Regular meetings Multi-channel cooperation and research Procurement information disclosure Negotiation and communication
Environment	<ul style="list-style-type: none"> Energy conservation and emission reduction Addressing climate change Saving resources Ecological protection 	<ul style="list-style-type: none"> Green design Green construction Green office Green development
Community and the Public	<ul style="list-style-type: none"> Public welfare Driving the development of local industries Enhancing public utilities of local communities 	<ul style="list-style-type: none"> Training and broadcasting Communication activities Public welfare activities

Outlook 2021

2021 is a crucial year for China to advance the modernization. Under the guidance of Xi Jinping Thought on Socialism with Chinese characteristics for a New Era, CSCEC will act on the general principle of pursuing progress while ensuring stability; ground our efforts in the new development stage, apply the new development philosophy, and create a new development paradigm; we will pursue the "one creation and five aspects of strength" strategic goal, advance the implementation of "166" strategic measures, and strengthen routine pandemic prevention and control, promote production and operation, advance high-quality development, get off to a good start in the 14th Five-Year Plan period.

Witness Power in 2021

Keeping routine prevention and control to prevent the risks of COVID-19

Upholding the philosophy of "putting people and life in the first place", we will improve awareness and alertness, pay close attention to routine pandemic prevention and control, and promote effective implementation of various measures at primary-level units. We will fix loopholes, prevent lax control, and take a scientific and targeted approach to proceed the work, especially in high-risk areas in Beijing. Moreover, we will guide our employees to abide by COVID-19 prevention regulations and enhance personal protection in life and work.

Following the trend of the times to support the building of the new development paradigm

We will strive to gain a better understanding of the new development paradigm, advance supply-side structural reform as the main task, value demand-side management, and promote efficiency of key links. We will strive to play a leading role in making the industrial and supply chains more self-supporting and their risks better controlled. We will implement projects to tackle weak links, to upgrade foundational industrial infrastructure, and to improve construction quality. We will actively support the Belt and Road Initiative, develop overseas markets as a way to build the new development paradigm, and advance opening and cooperation.

Fostering new growth drivers and vigorously promoting technology innovation

We will intensify efforts to make major breakthroughs in core technologies in key fields, especially key tasks and core technologies in the construction industry Internet platform and other fields. We will intensify efforts to improve talent development and mechanism building, and strive to build a high-level research team with enhanced innovation and creation potentials. We will intensify efforts to integrate the innovation chain and the industrial chain, create new business modes and market competitiveness in new technologies and new products, and facilitate favorable circulation of industrial development and technological advancement.

Carrying out "Six Actions" to improve quality and efficiency

We will continue to enhance problem rectification without compromise. We will continue to advance foundational management and resolve factors affecting the enterprise's quality and efficiency. We will continue to promote the establishment of rules and regulations, and institutionalize good experience and good practices that prove effective, so as to cement the foundation for high-quality development.

Remaining vigilant to prevent and defuse various risks and challenges

We will effectively prevent COVID-19 risks and promote thorough implementation of various measures at primary-level units. We will effectively prevent work safety risks, and take special rectification and governance as focus to eliminate all kinds of accidents and cement the foundation for safety and development. We will effectively prevent operational risks and ensure financial security for long-term, stable development of overseas operations.



Responsibility Performance

Category	Indicators	2018	2019	2020
Economy	Operating Revenue (RMB 100 million)	11,993	14,198	16,150
	Total Pre-tax Profits (RMB 100 million)	1,271.70	1,432.60	1,467.4
	Gross Profit (RMB 100 million)	717.9	814.7	942.9
	Net profit attributed to the listed company (RMB 100 million)	382.4	418.8	449.4
	Value of Newly-signed Contracts of Construction Project (RMB 100 million)	23,285	24,863	27,721
	Annual Accumulated Construction Area (10,000 m ²)	135,778	145,671	154,229
	Annual Accumulated New Construction Area (10,000 m ²)	37,145	38,301	34,239
	Annual Accumulated Completed Area (10,000 m ²)	19,013	23,220	19,079
	Annual Real Estate Sales Agreement (RMB 100 million)	2,986	3,826	4,287
	Term-end Land Reserve (10,000 m ²)	10,460	12,166	11,637
	Asset Liability Ratio (%)	76.9	75.3	73.7

Category	Indicators	2018	2019	2020
Environment	Environmental Management Certification Pass Rate of New Project (%)	100	100	100
	Environmental Training (person-time)	>15,000	>21,000	>38,000
	Green Procurement Ratio of Bulk Commodities (%)	100	100	100

Category	Indicators	2018	2019	2020
Society	Total Number of Employees	302,827	335,038	356,864
	Female Staff Ratio (%)	20	21	20
	Female Manager Ratio(%)	20	21	20
	Coverage of Labor Contracts (%)	100	100	100
	Staff Turnover Rate (%)	7.47	5.78	5.45
	Disabled Employment Rate (%)	1.7	1.7	1.7
	Coverage of Social Security (%)	100	100	100
	Establishment Rate of Labor Unions (%)	98	100	100
	Coverage Rate of Employees Participating in Labor Union (%)	99	99	99
	Gross Investment for Employee Training (RMB 100 million)	4.9	5.0	6.8
	Employee Training (10,000 person-time)	64	129	>100
	Training Investment for Subcontractors (RMB 10,000)	27,076	31,135	23,176
	Subcontractors Participating in training (10,000 person-time)	143	160	160.95
	National Patent Licenses (Item)	4,435	4,446	8,951
	Mortality Value Per Output Value of RMB 100 Million (%)	0.0023	0.0031	0.000875
	Total amount of external donation by CSEEC and its shareholders (RMB 10,000)	11,760	12,588	14,654
	The Number of Volunteer Activities	>5,000	>6,000	>7,000
	Accumulated Volunteer Services (10,000 hours)	>12	>13	>14

Fang Qiuchen, President of China International Contractors Association (CHINCA)


With an accelerated pace of "going global", China's international engineering contractors have improved the scale, technology, added value and other aspects of their infrastructure projects undertaken across the world. The role of Chinese companies has transformed from contractors to integrated service providers of infrastructure. Pursuing the development featuring strategic guidance, model innovation, technology empowerment, and high quality and sustainability has become a consensus in the industry.

During the 14th Five-Year Plan period, China's international engineering contractors will seize the new opportunities brought about by new infrastructure for their transformation, upgrade and accelerated development. *CSCEC Sustainability Report 2020* discloses CSCEC's practices in promoting green construction, smart construction, and industrialization of construction, and advancing the process of digitalization, informatization, intelligence, etc.; and CSCEC's determination and confidence in transformation and upgrade by advancing the integration of new infrastructure and conventional infrastructure, and expanding a happy living environment.

Countries along the Belt and Road are key markets for China's international engineering contractors, and infrastructure connectivity is one of the priorities to develop the Belt and Road. The feature "Contributing to the BRI Development" of the Report shares the efforts and contributions made by CSCEC to promote infrastructure connectivity. During the construction of overseas engineering projects, CSCEC actively advances cross-culture integration and offers more benefits to local people. All these make CSCEC an outstanding representative of enterprises in the industry to contribute to the building of a community of a shared future for mankind.

In global fight against COVID-19 in 2020, China's international engineering contractors acted as responsible Chinese companies. Among them, CSCEC also played a part in this battle: successively dispatching work teams with medical personnel and donating anti-pandemic materials to Egypt, Algeria, Cambodia, Ethiopia, and other countries and regions. While enhancing COVID-19 prevention and control, CSCEC ensured overseas production and operation, especially key overseas engineering projects, to help local economic and social development return to normal.

The post-pandemic era is full of challenges and opportunities. CSCEC is expected to seize opportunities, meet challenges, and continue to play a leading role in the industry. With the highest level of China's construction practices in international infrastructure markets, CSCEC will expand brand influence and reputation of "Constructed by China" across the world.



Zhai Qi, Executive Secretary-General of China Business Council for Sustainable Development (CBCSD)

CSCEC Sustainability Report 2020 (hereafter referred to as "the Report") is the 12th sustainability report released by CSCEC. The Report takes "Witness Power" as the mainline, and focuses on manifesting CSCEC's role as a key central SOE to serve national strategies, expand brand influence of "Constructed by China", and contribute to the development of China and the whole world as well. In this process, CSCEC witnessed the development and changes of the world and contributed to building a human community with a shared future.

The Report refers to relevant standards for compiling social responsibility reports. Through systematic measures, detailed data and typical cases, the Report responds to the expectations and demands of stakeholders, and demonstrates the image of a responsible corporate citizen.

The main body of the Report is composed of four features and seven chapters. At the beginning of the Report, the in-depth features (CSCEC in Fight Against COVID-19, CSCEC in Fight Against Poverty, Serving Major National Development Decision, and Contributing to the BRI Development) disclose CSCEC's resolute and effective actions to serve major national strategies and national projects. The seven chapters take value creation and other aspects as topics, and elaborate on CSCEC's achievements in supporting the realization of the UN SDGs in China's approach: leveraging the advantages of the whole industry chain and practicing the philosophy of building a community of shared future for mankind to support the world's economic and social development and livelihood with high-quality products and services.

The design of the Report is concise and lively. Apart from the main image, different tones are used for different themes, and infrastructure, real estate and other design elements are added to increase the role and value of the Report's information transmission, achieving efficient communication with stakeholders.

2020 was a year full of challenges and opportunities. I sincerely congratulate CSCEC on overcoming tough challenges and making gratifying achievements. I wish, in 2021, the first year of the 14th Five-Year Plan period, CSCEC can achieve its "one creation and five aspects of strength" strategic goal, and create more values to help achieve China's Vision 2035.



Yu Zhihong, President and Editor-in-Chief of
China Sustainability Tribune

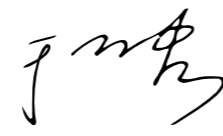
CSCEC Sustainability Report 2020 (hereafter referred to as "the Report") is a strong evidence of CSCEC's efforts to shoulder its responsibilities and build a business card of "Constructed by China". The construction industry is a pillar industry of the national economy. As a key SOE, CSCEC has actively fulfilled social responsibilities and explored a path of fulfilling social responsibilities with CSCEC's characteristics.

The Report inherits the features of the previous years, benchmarks against the good practices of world-class enterprises, and implements the sustainability standards at home and abroad and of the industry. The Report takes "Witness Power" as the mainline, integrates innovative report content, and systematically discloses CSCEC's efforts and achievements in value creation, reform and innovation, quality service, environmental action, employee development, win-win partnership, and community participation. These contribute to the realization of the UN 2030 SDGs.

For China, 2020 was a year full of challenges and fruitful results: China achieved great results in global fight against COVID-19; China was the only major economy achieving positive growth in the year; China achieved a full victory in fight against poverty; under the Belt and Road Initiative, China actively expanded opening up. The four features in the Report, i.e., CSCEC in Fight Against COVID-19, CSCEC in Fight Against Poverty, Serving Major National Strategies, and Contributing to the BRI Development, manifest CSCEC's extraordinary efforts and achievements in the tough year.

This is an excellent sustainability report and an important result of CSCEC's efforts in strengthening CSR management, cultivating a responsible culture, and innovating in CSR communication and dissemination. The Report selects a large number of pictures and touching CSR stories, and uses big data to improve readability, authenticity and novelty. CSCEC also works on cross-culture integration. While promoting cultural dissemination, telling China's stories and driving economic development, CSCEC manifests the image of a responsible corporate citizen with great humanistic care.

On March 12, 2021, the *Outline of the 14th Five-Year Plan (2021-2025) for National Economic and Social Development and the Long-Range Objectives Through the Year 2035* was officially published. It maps out a blueprint for China's new journey toward the full construction of a modern socialist country, and serves as a program of action for Chinese people of all ethnic groups. CSCEC is expected to make deployment on business development in line with the 14th Five-Year Plan in terms of city, ecology, transportation construction, etc.; to actively serve national development strategies, expand a happy living environment for our people, and promote global sustainable development; and to improve the CSR information disclosure mechanism and advance the dissemination of CSR results in an innovative way.



Report Rating

Research Center for Corporate Social Responsibility
Chinese Academy of Social Sciences



《中国建筑股份有限公司 2020 可持续发展报告》评级报告

受中国建筑股份有限公司委托，“中国企业社会责任报告评级专家委员会”推选专家组成评级小组，对《中国建筑股份有限公司 2020 可持续发展报告》（以下简称《报告》）进行评级。

一、评级依据
中国社会科学院《中国企业社会责任报告指南之工程与建筑业（CASS-CSR 4.0）》暨“中国企业社会责任报告评级专家委员会”《中国企业社会责任报告评级标准（2020）》。

二、评级过程
1. 评级小组审核确认《报告》编写过程提交的《企业社会责任报告过程性资料确认书》及相关证明材料；
2. 评级小组对《报告》编写过程及内容进行评价，拟定评级报告；
3. 评级专家委员会副主席、评级小组组长、评级小组专家共同签署评级报告。

三、评级结论
过程性（★★★★★）
公司企业文化部（党建管理部）牵头成立报告编制工作组，统筹推进报告编制工作并把控关键节点；将报告定位为提升企业形象、加强利益相关方沟通的重要工具，功能价值定位明确；根据国家宏观政策、公司发展战略、相关方调研访谈、社会责任研讨会等识别实质性议题；推动下属企业发布报告并编制国别报告，构建了多层次的报告体系；计划通过官方网站发布报告，并将以电子版、印刷品、中英文版、HS 版等形式呈现报告，具有卓越的过程性表现。

实质性（★★★★★）
《报告》系统披露了贯彻宏观政策、建筑质量管理、产品创新、按期交付工程、农民工权益保护、承包商管理、安全生产、建筑垃圾管理、绿色建筑等工程与建筑业关键议题，叙述详细充分，实质性表现卓越。

完整性（★★★★★）
《报告》主体内容从“行稳致远 彰显价值创造力”“动能转换 强化创新驱动力”“匠心品质 提升品牌影响力”“绿水青山 打造绿色竞争力”“队伍建设 培育发展支撑力”“合力同行 增强伙伴凝聚力”“惠泽民生 提高责任担当力”等角度系统披露了工程与建筑业核心指标的 90.48%，完整性表现卓越。

平衡性（★★★★★）
《报告》披露了“员工流失率”“亿元产值死亡率”“等级以上突发环境事件数”等负面数据信息，并详细描述了“公司某项目物体打击事故”的应对过程和处置结果，平衡性表现卓越。

可比性（★★★★★）
《报告》披露了“利润总额”“年度施工面积”“志愿者活动次数”“国家专利授权项数”“环保培训次数”“大宗材料绿色采购比例”等 43 个指标连续 3 年的对比数据；并通过“2020 中国品牌价值百强榜第 17 位”“最佳海外形象建筑行业榜单第一名”等数据进行横向比较，可比性表现卓越。

可读性（★★★★★）
《报告》以“建设力量”为主题，以“力量”为主线，全面展示了企业在关键议题上的履责理念、行动与成效，框架结构清晰，重点议题突出；封面创意依托“建设力量 红色基石”标识延伸设计，既增强了报告的可读性，又凸显了传承红色基因的央企本色；设置“章节导读栏”，便于读者快速把握报告内容，提升了报告的可读性；设计风格简洁清新，配图



配色和谐淡雅，章节体例系统一致，提升了报告的悦读性，可读性表现卓越。

创新性（★★★★★）
《报告》设置“抗击新冠疫情 行动有力”“投身脱贫攻坚 组织有力”“服务国家战略 坚决有力”“助推‘一带一路’建设 支撑有力”四大责任专题，聚焦企业年度履责亮点实践，凸显了中央企业贯彻宏观政策的责任担当；各章节紧扣联合国可持续发展目标（SDGs），披露履责理念和成效，提纲挈领，总领性强，彰显了企业的国际视野和价值追求；持续升级社会责任管理，构建品牌引领型社会责任管理模式，利于进一步强化企业责任治理能力和实践水平；引用利益相关方证言佐证企业履责成效，增强了报告的公信力，具有卓越的创新性表现。

综合评级（★★★★★）
经评级小组评价，《中国建筑股份有限公司 2020 可持续发展报告》的过程性、实质性、完整性、平衡性、可比性、可读性及创新性均达到五星级，综合为“五星级”，是企业社会责任报告中的典范。

中国建筑可持续发展报告连续九年获得五星级，连续第二年获得五星最佳评级

四、改进建议
增加行业核心指标的披露，进一步提高报告的完整性。

评级专家委员会副主席
钟其 徐华
评级小组组长 评级小组专家

出具时间：2021 年 4 月 12 日

扫码查看企业评级档案

CSR Management
Stakeholder Engagement
Outlook 2021
Responsibility Performance
Expert Opinion
Report Rating
Third-party Assurance
Reporting Index
Feedback Form



Assurance Statement of Sustainability Report

TUV Asia Pacific Ltd. ("TUV NORD") has been commissioned by the management of China State Construction Engineering Corporation Limited ("CSCEC" or the "Company") to carry out an independent assurance of the Company Sustainability Report for the year 2020 (the "Report") against the AA1000 AS (2008) and TUV Asia Pacific Social Responsible Report Assurance Protocol for Assurance of Sustainability Report.

CSCEC is responsible for the collection, analysis, aggregation and presentation of information within the Report. TUV NORD's responsibility in performing this work (assurance of the report) is in accordance with terms of reference agreed in the scope of engagement with CSCEC. CSCEC is the intended users of this Statement. This Statement is based on the Report prepared by CSCEC. CSCEC is responsible for the completeness and authenticity of the information and data contained in the Report.

Nature and Scope the Assurance

The Report is assured based on the following contents:

- Reporting the CSCEC's economic, environmental, and social indicators; the year of activities covered in the Report is from Jan 01, 2020 to Dec 31, 2020;
- The data, cases, and management information which related to company sustainability development or CSR KPI;
- Evaluation of the Accountability Principles (Type I) and specified performance information with a MODERATE level of Assurance by referring to AA1000AS (2008);
- The performance indicators are based on the General Framework of CASS-CSR4.0 and CASS-CSR4.0 Engineering and construction Indicators, with reference to the GRI Standards General Indicators and Sector disclosures on construction and real estate.

Due to the impact of the COVID-19 this year, as confirmed by China Construction, the assurance was changed to remote audit, and the remote audit was done on March 15-16, 19, 2021.

Assurance Methodology

Assurance process includes the following activities:

- Review the information of documents provided by CSCEC;
- Interview the person who collected the Report information;
- View the public information published by related websites and media, verify the data and information in the Report through sampling;
- Assessing the Report in terms of balance, comparability, accuracy, timeliness, clarity, reliability in accordance with the GRI Standards;
- Principles of inclusiveness, materiality and responsiveness and the information on stakeholder participation as set out in AA1000 Assurance Standard (2008);
- Assurance activity is based on TUV NORD CSR report assurance management procedure.

Assurance Conclusion

The Report provides an appropriate and objective view of the sustainability & social programs and performances of CSCEC in 2020. The data in the Report are reliable and objective. TUV NORD didn't find any system error or substantial error, which meets the disclosure requirement the core program of GRI Standards.

- The structure of the Report is complete, the disclosed information is clear, easy-understand and available;
- With the theme of "Witness Power", the Report responds to the expectations of stakeholders including customers, employees, supply chain, industries, consumers and the environment, and discloses the



specific practical performance of the Company in various fields of social responsibility in seven chapters, including "Developing stably and demonstrating value creativity".

- The Report discloses to stakeholders the Company's main achievements during the 13th Five-Year Plan period and its response to the impact of major events in 2020 with four topics including "Fight Against Poverty", which help stakeholders to further understand the Company's development.

Suggestion for improvement

Through assurance and evaluation, we have the following improvement suggestions for CSCEC on CSR practice and management:

- It is recommended to pay attention to the social responsibility rating requirements of international organizations, such as the ESG evaluation of MSCI companies, and benchmark their required indicators with the Company's business activities to improve the management level of corresponding topics;
- In the environmental field, it is recommended to increase the research and development of energy-saving innovative technologies, monitor and manage relevant data more carefully, and lead construction companies to perform better in "emission peak" and "carbon neutrality".

Special statement

This statement does not include:

- Activities other than disclosure of information;
- The position, idea, faith, object, future developing direction, and promise which stated by CSCEC.

Statement of Independence and Competence

TUV NORD Group is the world's leader in inspection, testing and verification, operating in more than 70 countries throughout the world and providing services which includes management systems and product certification; quality, environmental, social and ethical auditing and training; environmental; social responsibility and sustainability report assurance.

TUV Asia Pacific Ltd. affirms its' independence from CSCEC and confirms that there is no conflicts of interest with the organization or any of its subsidiaries and stakeholders when performing the assurance of the Report. TUV Asia Pacific Ltd. was not involved in any manner with CSCEC, when the latter was preparing the Report.

The team leader: Ms. Huang Li
Date :06.04.2021

The Authorized person: Mr. Song Haining
Date: 06.04.2021

Note: in case of conflict between the Chinese and English versions of the statement, the Chinese version shall prevail

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Feedback Form

Dear Readers,

To improve CSCEC's CSR performance, we hope you can give us some feedback on this report. Please send the feedback form to us or scan the QR code to fill in the questionnaire. Your feedback will be an important reference to improve our work. Thank you for taking time reading this report and your valuable comments.

1. Who are you?

- Customer Government Employee Supplier NGO
 Community organizations Media The public Other

2. Your overall impression of the report is

- Very good Good Average Poor Very Poor

3. In your opinion, the report is

	Very good	Good	Average	Poor	Very Poor
CSR information disclosed					
Design					
Readability					

4. The part you need most

5. The issues you are most interested in

6. Other comments on our social responsibility work



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CSCEC Official Website



CSCEC Weibo



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CSCEC Kwai



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