

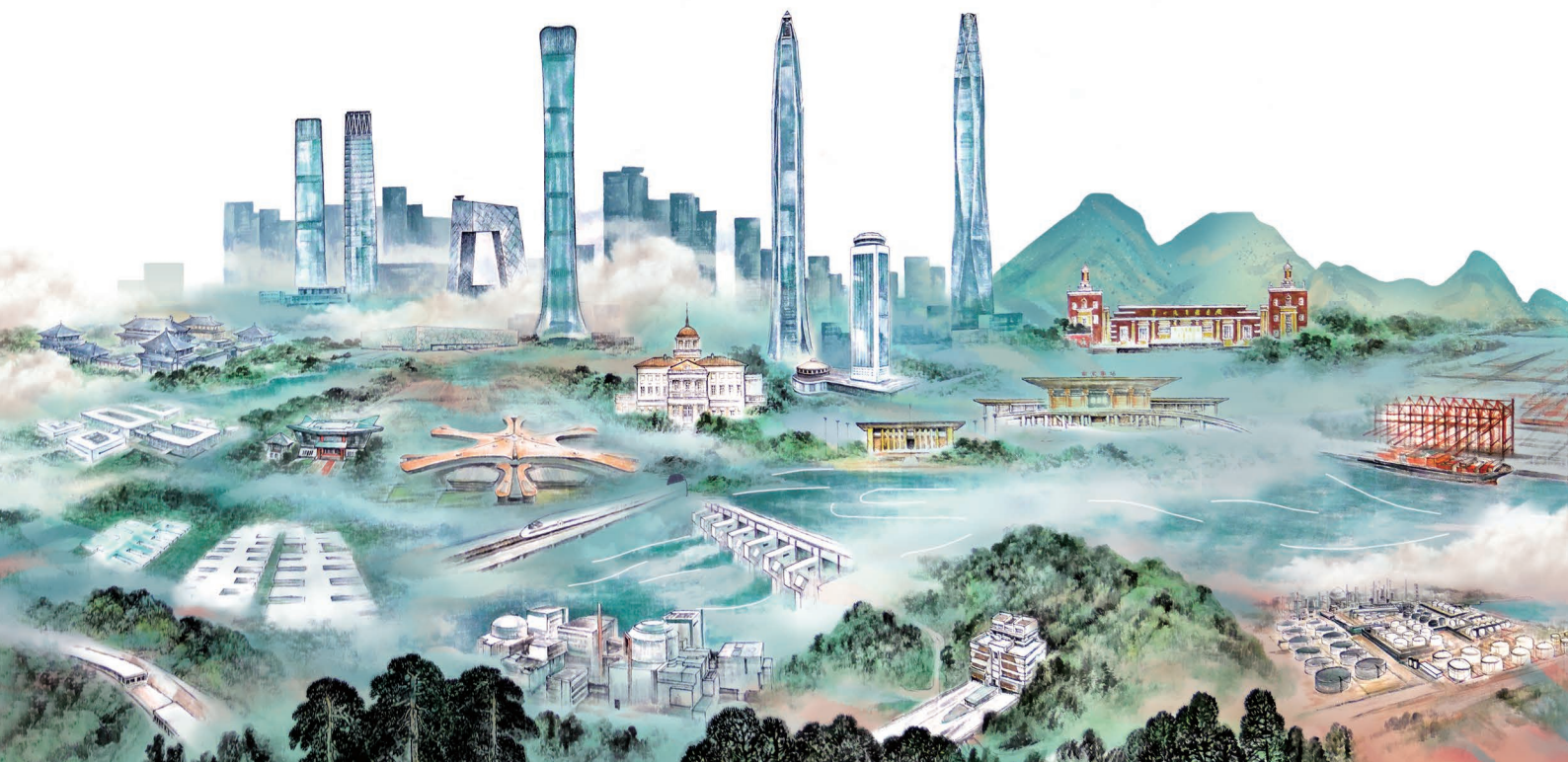


中國建築
CHINA STATE CONSTRUCTION

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2021

Sustainability
Report





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2021 Witness a Glorious History
Sustainability Report





Witness a Glorious History in 2021

The year 2021 marks the beginning of a new journey toward the Second Centenary Goal. At a new starting point, building on the past, CSCEC contributes our reform and growth to the overall development of the country, and makes CSCEC dream a part of the Chinese dream that aims for the great rejuvenation of the Chinese nation. We always move forward in tandem with the times and the country.

Witnessing CSCEC's development

In the past four decades, CSCEC has been a champion of reform, innovation, and high-quality development. We have never slacked off and always forged ahead, realizing transformation and leapfrog development to become the world's largest investment and construction group.

Witnessing the great rejuvenation of the Chinese nation

As a major state-owned enterprise, we have upheld the original mission of seeking happiness for the Chinese people and rejuvenation for the Chinese nation, worked meticulously and relentlessly, and grown ourselves as China develops. We have taken the responsibility to serve China's development and meet people's growing needs for a better life.

Witnessing a community with a shared future for mankind

Guided by the concept of "a community with a shared future for mankind", CSCEC follows the principle of extensive consultation, joint contribution, and shared benefits and prioritizes hard connectivity of infrastructure, supplemented by soft connectivity of rules and "people-to-people connections" to promote high-quality BRI cooperation and shape China's reputation in construction, China's image of friendship, and China's spirit.



Company Honors

CSCEC ranked **13th** in the 2021 Fortune Global 500



- CSCEC has maintained the top ratings in the industry by the three most prominent rating agencies for seven 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 2021 Top 250 International Contractors list by Engineering News-Record (ENR).
- CSCEC has been granted the Best Board of Directors of Golden Round Table Award for the boards of listed companies in China for ten consecutive years.
- CSCEC was listed in the "Central SOE ESG•Pioneer 50 Index" issued by the State-owned Assets Supervision and Administration Commission of the State Council.
- CSCEC received the honor of A-level Enterprise in Business Performance Appraisals of Persons-in-Charge at Central State-owned Enterprises for the sixteenth time.

CSCEC ranked **top** in the industry in 2021 Brand Finance Global 500 ranking and made into the top 50



- CSCEC was listed in the top ten national brands in the 2nd "Chinese Brands for a Strong Nation" by CCTV.
- In the China brand value evaluation list by China Council for Brand Development, CSCEC ranked 1st in the industry with 943 brand strength and RMB 169.576 billion of brand value.
- China Overseas Land & Investment Ltd. won the award of China Leading Real Estate Brands for 18 consecutive years, ranking 1st in the industry with a brand value of RMB 139.2 billion.
- CSCEC ranked No. 1 in the construction category of "Chinese Enterprise Global Image" by China Foreign Languages Publishing Administration for three consecutive years and was included in the 2021 Top 10 Outstanding Cases.

For four consecutive years, CSCEC was rated "good" of the **top rating** in the evaluation of central state-owned enterprises' targeted assistance



- The representative of CSCEC delivered a keynote speech at the 2021 Central State-owned Enterprises' Overseas Social Responsibility Report Release Ceremony held by the SASAC.
- CSCEC Sustainability Report 2020 won a five-star rating from the Chinese Academy of Social Sciences (CASS).
- Three social responsibility cases of CSCEC were included in the 2021 Blue Paper of Central State-owned Enterprises Social Responsibility, the 2021 Blue Paper of Central State-owned Enterprises Overseas Social Responsibility, and the 2021 ESG Blue Paper of Listed Central State-owned Enterprises 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 the 2022 Evergreen Awards for Sustainable Development issued by Caijing Magazine.



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Report Compilation Instruction

Reporting Objectives

The report is the thirteenth 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 16, 2021.

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 2021, 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 2021 of the Company, some historical data are retroactively restated according to changes in accounting standards. 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, *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 *Guidelines to the State-owned Enterprises on Better Fulfilling Corporate Social Responsibilities* released by the SASAC of the State Council, *Environmental, Social and Governance Reporting Guide* issued by the Hong Kong Stock Exchange, *Guidelines on Self-Regulatory Supervision of Listed Companies No. 1 – Standardized Operation Report* issued 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 the “new development philosophy” as the mainline. We put “innovation, coordination, greenness, openness, and sharing” into different CSR topics and demonstrate that at the new development stage, CSCEC implements the new development philosophy and serves the new development paradigm.

“CSCEC Strives for a World-class Enterprise” also runs through the Report. CSCEC’s “one creation and five aspects of strength” strategic goal, which is reflected in relevant chapters, explains CSCEC’s efforts to achieve high-quality development and work toward a world-class enterprise.

The Report follows ESG disclosure requirements. Referring to the ESG guidelines and rating standards of listed companies, we disclose relevant information appropriately to provide information to investors and give play to the leveraging role of ESG on the capital market. We are prepared for increasing ESG information disclosure in the future.

The Report adds the latest topics. We highlight our contributions to China’s strategy of peaking carbon emissions and achieving carbon neutrality, digital transformation, construction, operation, and maintenance for the Beijing 2022, regional coordinated development, rural vitalization, and BRI pursuits.

Under the theme of “Witness a Glorious History”, classic projects in different fields built around the world in the past seven decades are selected to draw the “city of China’s construction” in the Chinese style, highlighting the confidence of CSCEC in Chinese culture and our commitments to bringing more happiness for people.

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.

Contact Us

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Website: <http://www.cscec.com>

Report Compilation Process

Sustainability report is an important tool to help companies to enhance their social communication and boost their operational transparency. The preparation and releasing of sustainability report 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 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.

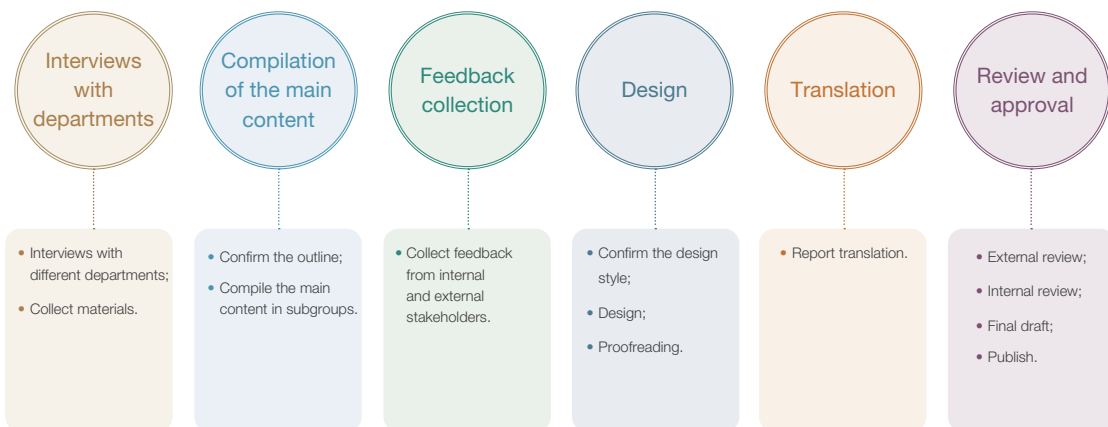


2021 interim results presentation



Questions from investors

Compilation Process

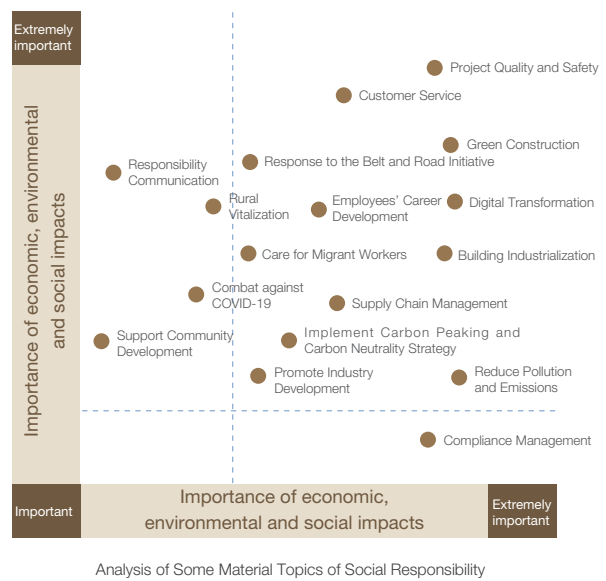
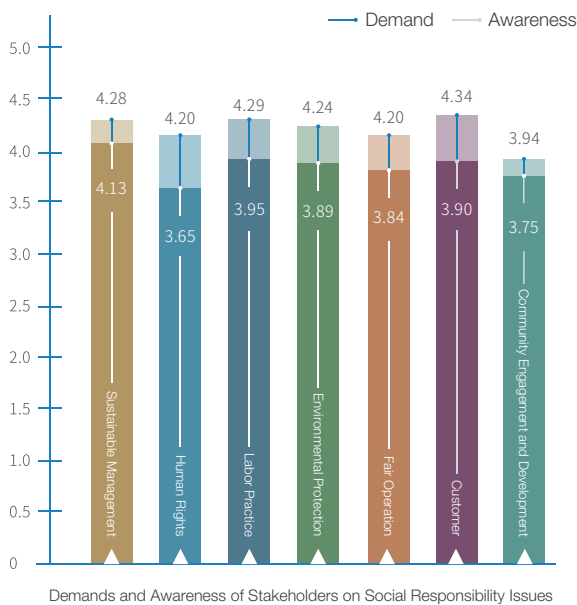


Compilation process of CSCEC 2021 Sustainability Report



Material Topics 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 material topics from the perspectives of “Importance of economic, environmental and social impacts” and “Evaluation and decision of importance for stakeholders” and disclosed material topics in the report.





Smart · Cities

Cities are by and for the people. With an eye to future urban development, CSCEC, guided by the corporate mission of “expanding a happy living environment”, shows the highest level of “Constructed by China” to achieve better urban functions, more resilient and intelligent urban governance, a greener and more livable urban environment, high-quality urban development to meet people’s expectations for a better life.



Planning Sustainable Cities

In response to people’s needs, we give full play to our “four-in-one business model” and coordinate regional development. We focus on the development of areas, large-scale urban renewal, station-city integration, and urban operation. By doing so, we optimize urban space, upgrade urban consumption, and create a comfortable, livable, and easily accessible environment.



Building Sustainable Infrastructure

We contribute to modern infrastructure featuring complete systems, high efficiency, intelligence, eco-friendliness, safety, and reliability. We build mobile communications, industrial Internet, big data centers, integrated transportation channels, transportation hubs, and logistics networks. We also promote urban clusters connected through railways, thus making people’s life more efficient and convenient.



Constructing Sustainable Buildings

Guided by China's strategy of peaking carbon emissions and achieving carbon neutrality, we adopt world-leading new, green, smart, and commercialized construction technologies to construct quality, sustainable, suitable, and disaster-resilient buildings to protect the environment and make people live healthily and safely.



Developing Sustainable Real Estate

We steadily promote the construction of medical and healthcare real estate, industrial parks, cultural tourism real estate, and smart cities. We refine public space planning and construction that put services and quality first and provide individualized and diverse choices for urban residents. This will create a better life and more resilient communities.



Building Sustainable Cities

Guided by the concept of a community with a shared future for mankind, we strengthen global resource allocation, give play to markets at home and abroad and integrated industrial chains, and adopt a sustainable investment and construction model to build sustainable cities, and expand a happy living environment for stakeholders.



Figures CSCEC

 2021

Data of business

Net profit attributable to listed companies

RMB **51.41** billion

Coordination

Creating Value for Shareholders

Disclosed **149** announcements and documents

Legal training covered **12,784** person-time

Legal reviews covered **8,231** projects

Innovation

Empowering Development

National Science and Technology Progress Award

5

Tien-Yow Jeme Civil Engineering Prize

15 projects

the Company was granted

12,233 patents

Quality

Fulfilling Contracts for Customers

China Construction Engineering Luban Prize

35 projects

National Quality Project Award

95 projects

Quality trainings covering

385,962 person-time

	2018			2019			2020		
	China	CSCEC	Ratio	China	CSCEC	Ratio	China	CSCEC	Ratio
Total output of construction industry (RMB 100 million)	242,123	13,058	5.4%	248,443	14,783	5.9%	263,947	15,219	5.77%
Value of newly-contract signed construction (RMB 100 million)	494,409	23,285	4.7%	545,035	24,863	4.6%	595,538	27,721	4.65%
Housing construction area (10,000m ²)	1,371,995	135,778	9.9%	1,441,504	145,671	10.1%	1,494,754	154,229	10.32%
Housing area completed (10,000m ²)	413,509	19,013	4.60%	402,335	23,220	5.8%	384,822	19,079	4.96%

Note: The national data comes from *Statistics Yearbook* issued by State Statistical Bureau

Earnings per share RMB 1.25	Value of newly-signed contracts RMB 3,529.5 billion	Operating income RMB 1,891 billion	Total profit RMB 100.89 billion	Annual investment RMB 443.6 billion
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Greenness

Creating a Clean and Low-carbon World

Decrease in energy consumption per unit of output value YoY

4.6%

Environmental impact assessment rate of new projects invested reached

100%

Environmental protection training sessions

49,000 person-time



Sharing

Stimulating Talent Vitality

Employees on-post
368,327

Employee Training covered
4 million person-time

Investment in employee Training
RMB **950** million



Openness

Pursuing Win-Win Development

Newly signed strategic cooperation agreements
7

Investment in subcontractor training
RMB **250.3** million

Subcontractor trainings covered about
1.74 million person-time



Happiness

Boosting People's Livelihood and Well-being

Volunteer activities more than
8,000 times

Volunteer services accumulated over
160,000 hours

Jobs provided for migrant workers more than
2.4 million

Witness a Glorious History

Chase a Shared Dream

Open Day

In 2021, CSCEC organized the open day of “Witness a Glorious History, Chase a Shared Dream”. We adopted the model of “pre-activity promotion, in-person visits (online live broadcasts), media cooperation, summary and review” and presented a three-dimensional good image of a world-class Chinese constructor. The Open Day activity lasted 8 months and appealed to 50 cities from 7 countries (regions) in Asia, Europe, Africa, and the Americas. We made public 91 super projects, and held 120 Open Day events. The activity was reported by more than 570 mainstream media outlets at home and abroad and was viewed 230 million times.

开放日
OPEN DAY

绿色建筑建造 开启美好生活
绿色建筑大会暨
中国建筑科学大会
绿色建筑大会
国家会展中心（天津）

扫码查看中国建筑亮相中国
建筑科学大会暨绿色建筑智慧建
筑博览会开放日详情

开放日
OPEN DAY

绿色智慧建造 开启美好生活
机场改扩建工程交通中心项目
新疆乌鲁木齐

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改扩建工程交通中心项目开
放日详情

开放日
OPEN DAY

新时代的中国智慧 开启美好生活
暨绿色建筑博览会
中国建筑科学大会
天津

扫码查看国家会展中心（天
津）首展系列中建西部建设
专场开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
国家会展中心（天津）
中国建筑节能大会
中国建筑节能大会
国家会展中心（天津）

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津）首展系列中建西部建设
展区专场开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
国家会展中心（天津）
绿色建筑博览会
国家会展中心（天津）

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津）首展系列中建方展展区
专场开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
江苏南京
浦口污水处理项目

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生活污水

开放日
OPEN DAY

绿色建筑建造 开启美好生活
江苏苏州
第十七届中国国际园林博览会
江苏苏州
第十七届中国国际园林博览会

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中国（徐州）国际园林博览
会项目开放日详情

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OPEN DAY

绿色建筑建造 开启美好生活
浙江杭州
杭州亚运会三馆项目
浙江杭州

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项目开放日详情

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绿色建筑建造 开启美好生活
西藏拉萨
西嘎国际机场T3航站楼项目
西藏拉萨

扫码查看拉萨贡嘎国际机场
T3航站楼项目开放日详情

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绿色建筑建造 开启美好生活
甘肃卓尼
中建卓尼文化商业街
甘肃卓尼

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街开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
湖北武汉
武汉常福医院项目
湖北武汉

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开放日详情

开放日
OPEN DAY

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深圳龙岗
坪地甘园项目
深圳龙岗

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坪地高中

开放日
OPEN DAY

绿色建筑建造 开启美好生活
上海
市北高新项目
上海

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项目开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
香港
时代精神都香江
香港

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开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
河南郑州
只有河南·河南戏剧幻城项目
河南郑州

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戏剧幻城项目开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
内蒙古
内蒙古梁素海山水林田湖草沙生态修复试点工程
内蒙古

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水林田湖草沙修复试点工
程开放日详情

开放日
OPEN DAY

绿色建筑建造 开启美好生活
湖北武汉
武汉黄孝河、机场河
水环境综合治理二期 PPP 项目
湖北武汉

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水环境综合治理二期 PPP 项
目开放日详情

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OPEN DAY

绿色建筑建造 开启美好生活
广东深圳
大圳东圳水源项目
广东深圳

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OPEN DAY

绿色建筑建造 开启美好生活
湖北武汉
中国建筑节能大会暨
中国建筑科学大会
湖北武汉

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神山建设纪实展览馆暨中国
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山东青岛
亚洲杯足球体育场项目
山东青岛

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球场项目开放日详情

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中国
中国自主品牌博览会
中国

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年中国自主品牌博览会开
放日详情

开放日
OPEN DAY

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云南昆明
易扶扶贫搬迁安置区项目
云南昆明

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陕西渭南
陕西延安红街项目
陕西渭南

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浙江杭州
杭州亚运会提升改造工程
浙江杭州

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开放日 OPEN DAY

上海 上海星空间海绵公园DBO项目

扫码查看上海星空间海绵公园DBO项目开放日详情

开放日 OPEN DAY

陕西西安 中国国际贸易中心大厦项目

扫码查看中国国际贸易中心大厦项目开放日详情

开放日 OPEN DAY

四川成都 空港新城企业总部项目

扫码查看成都空港新城企业总部项目开放日详情

开放日 OPEN DAY

云南昭通 昭阳区老旧小区改造项目

扫码查看昭阳区老旧小区改造项目详情

开放日 OPEN DAY

北京 北京环球影城项目

扫码查看北京环球度假区“侏罗纪世界”和“小黄人乐园”主题景区开放日详情

开放日 OPEN DAY

中国 中国国际贸易中心一期项目

扫码查看2021年服贸会中建一局展厅开放日详情

开放日 OPEN DAY

以色列 海法新港项目

扫码查看以色列海法新港项目开放日详情

开放日 OPEN DAY

新疆 乌鲁木齐机场改扩建项目

扫码查看新疆乌鲁木齐机场改扩建项目开放日详情

开放日 OPEN DAY

湖北 南水北调焦作城区段生态保护PPP项目

扫码查看南水北调焦作城区段生态保护PPP项目开放日详情

开放日 OPEN DAY

河北 邯郸峰峰矿区棚户区改造项目

扫码查看河北邯郸峰峰矿区棚户区改造项目开放日详情

开放日 OPEN DAY

湖北 鄂州黄州公园山展园项目

扫码查看鄂州黄州公园山展园项目详情

开放日 OPEN DAY

北京 北京环球影城项目

扫码查看北京环球度假区“未来水世界”和“功夫熊猫盖世之地”主题景区开放日详情

开放日 OPEN DAY

陕西 陕西国际体育之窗项目

扫码查看陕西国际体育之窗项目开放日详情

开放日 OPEN DAY

陕西 西安奥体中心体育场及配套项目

扫码查看西安奥体中心体育场开放日详情

开放日 OPEN DAY

上海 上海北高新项目

扫码查看上海市北高新项目开放日详情

开放日 OPEN DAY

北京 北京市老旧小区改造EPC总承包项目

扫码查看北京市老旧小区改造EPC总承包项目开放日详情

开放日 OPEN DAY

天津 天津市第一中心医院新建项目

扫码查看天津市第一中心医院新建项目开放日详情

开放日 OPEN DAY

陕西 西安幸福林带项目

扫码查看西安幸福林带项目开放日详情

开放日 OPEN DAY

河南 郑州地铁6号线项目

扫码查看郑州地铁6号线项目开放日详情

开放日 OPEN DAY

山西 山西延庆冬奥村项目

扫码查看山西延庆冬奥村项目开放日详情

开放日 OPEN DAY

北京 北京安贞医院项目

扫码查看北京安贞医院项目开放日详情

开放日 OPEN DAY

海南 海口国际免税城项目

扫码查看海口市国际免税城项目开放日详情

开放日 OPEN DAY

北京 中建二局“超越”文化展馆

扫码查看中建二局“超越”文化展馆开放日详情

开放日 OPEN DAY

湖北 中建三局武汉开发建设纪念馆(十三开)

扫码查看中建三局武汉开发建设纪念馆(十三开)开放日详情

开放日 OPEN DAY

湖北 中建四局企业文化展厅

扫码查看中建四局企业文化展厅企业文化

昆明天山大地
云南昆明地铁延伸项目
扫码查看昆明地铁延伸项目开放详情

江苏新孟河延伸拓
前黄枢纽工程
扫码查看江苏新孟河延伸拓前黄枢纽工程开放详情

郑州双湖科技城项目
扫码查看河南郑州双湖科技城项目开放详情

香港故宫文化博物馆项目
扫码查看香港故宫文化博物馆开放详情

香港将军澳海水淡化厂
第一期工程
扫码查看香港将军澳海水淡化厂第一期工程开放详情

香港“两院”项目
扫码查看香港“两院”项目开放详情

阿拉山口-阿布扎伊提哈德铁路二期A标项目
扫码查看阿拉山口-阿布扎伊提哈德铁路二期A标项目开放详情

阿拉山口-阿布扎伊提哈德铁路二期A标项目
扫码查看阿拉山口-阿布扎伊提哈德铁路二期A标项目开放详情

香港迪士尼乐园
扫码查看香港迪士尼乐园开放详情

香港儿童医院项目
扫码查看香港儿童医院开放详情

迁沙田污水处理厂往岩洞工程
扫码查看迁沙田污水处理厂往岩洞工程开放详情

中环湾仔绕道系列工程
扫码查看中环湾仔绕道系列工程开放详情

京秦高速遵秦段项目
扫码查看京秦高速遵秦段项目开放详情

中原科技城会议中心
扫码查看河南郑州中原科技城会议中心项目开放详情

天津地铁7号线肿瘤医院站项目
扫码查看天津地铁7号线肿瘤医院站项目开放详情

长沙悦荟项目
扫码查看长沙悦荟项目开放详情

西安“一带一路”文化交流中心（长安云）项目
扫码查看西安“一带一路”文化交流中心（长安云）项目开放详情

西安“一带一路”文化交流中心（长安云）项目
扫码查看西安“一带一路”文化交流中心（长安云）项目开放详情

上海企业文化展厅
扫码查看中建八局企业文化展厅开放详情

新疆建筑行业文化展馆
扫码查看中建新疆建筑行业文化展馆开放详情

河南郑州企业文化展览馆
扫码查看中建七局企业文化展览馆开放详情

承德企业文化展览馆
扫码查看中建八局企业文化展览馆开放详情

四川成都科技文化展馆
扫码查看中建西勘院科技文化展馆开放详情

四川成都科技文化展馆
扫码查看中建西勘院科技文化展馆开放详情

国家开放日

天津 国家会展中心

扫码查看国家会展中心(天津)一期项目开放日详情

国家开放日

中建八局展厅

扫码查看国家会展中心(天津)首展系列中建八局展区专场开放日详情

国家开放日

访谈直播

扫码查看国家会展中心(天津)首展中国建筑访谈直播详情

国家开放日

香港故宫文化博物馆项目

扫码查看香港故宫文化博物馆项目开放日详情

国家开放日

江苏徐州 华东廉政文化展示馆

扫码查看中建基础中建华东廉政文化展示馆开放日详情

国家开放日

江苏徐州 东五环项目

扫码查看徐州东五环项目开放日详情

国家开放日

北京 北京广安门内大街改造

扫码查看北京广安门内大街改造项目开放日详情

国家开放日

福建福州 烟台山仓前九里项目

扫码查看福建烟台山仓前九里项目开放日详情

国家开放日

北京 世界5G大会

扫码查看中建集团精彩亮相2021世界5G大会开放日详情

国家开放日

深圳 中国钢结构博物馆

扫码查看深圳中国钢结构博物馆开放日详情

国家开放日

中国 中国国际商务贸易交流

扫码查看2021年服贸会中建八局展厅开放日详情

国家开放日

广西 南宁 中国-东盟博览会

扫码查看第18届中国-东盟博览会中国建筑展厅开放日详情

国家开放日

广东 深圳 南山科技创新中心(二标段)项目

扫码查看广东深圳南山科技创新中心(二标段)项目开放日详情

国家开放日

湖北 武汉 中建集团项目党建

扫码查看湖北省广播电视传媒基地开放日详情

国家开放日

福建 厦门 新体育中心

扫码查看厦门新体育中心项目II标段项目

国家开放日

福建 福州 中建海峡“海峡之光”企业文化展厅

扫码查看中建海峡“海峡之光”企业文化展厅开放日详情

国家开放日

江西 吉安 吉安五指峰EPC项目

扫码查看江西吉安五指峰EPC项目开放日详情

国家开放日

安徽 滁州 滁州市起步区1号供水厂

扫码查看滁州市起步区1号供水厂(净水厂)总承包项目开放日详情

国家开放日

重庆 重庆 中共六大会址

扫码查看俄罗斯莫斯科中共六大会址常设展览馆开放日详情

国家开放日

重庆 重庆 金碧正街“剧院”项目

扫码查看重庆1949大剧院项目开放日详情



Spirits of Our Times Shining in Hong Kong – China’s Construction

To celebrate the 72nd anniversary of the founding of the People’s Republic of China and the 24th anniversary of Hong Kong’s return to the motherland, from October 25th to 30th, 2021, the event of China’s Construction under the theme of “Spirits of Our Times Shining in Hong Kong”, hosted by the Hong Kong SAR Government, the Hong Kong Liaison Office, and CSCEC, was held in Hong Kong. The event showed great changes in China’s reform and development from the perspective of the construction industry, making Hong Kong residents more confident in the future of China and more willing to contribute to the development of the motherland and Hong Kong and improving their sense of identity and confidence in the nation. The event attracted over 150 million visitors and was reported by 1,259 original news articles.

“I hope that through this event, we can get to appreciate and feel proud of the Chinese civilization, take pride in a stronger China, and understand our national spirit. The event shows China’s comprehensive national power, economic strength, and innovation and enables us to feel the spiritual power of great rejuvenation. Together, we can also have a better understanding of the Hong Kong culture and ensure that Hong Kong is the place where the East and the West meet as a culture and art exchange center.”

—Lu Xinning,
Deputy Director at the Liaison Office
of the Central People’s Government
in the Hong Kong Special Administrative Region

“Seeing the history and development of China’s architecture, I feel so proud to be Chinese. I believe the construction industry has become a business card in China. The media should also help Hong Kong citizens get to know China’s development and let students have a better understanding of our country.”

—Miss Tang, a Hong Kong citizen

“This lecture adds a lot to our 30th anniversary, allowing us to further understand the technologies behind major projects in China. This is very important and useful for exchanges between the two the mainland and Hong Kong.”

—Prof. Charles NG Wang-Wai,
Dean of HKUST Fok Ying Tung Graduate School

“The successful and efficient construction of the Hong Kong mobile cabin COVID-19 hospital reflects the strong support of the central government for Hong Kong. Hospitals are the most technically demanding among all civil projects. However, the fact that we were able to build our quarantine and mobile cabin hospitals so efficiently when COVID-19 cases surged reflects the strength of ‘One Country, Two Systems’.”

—Luo Xiaochun
Senior Researcher at the Smart Construction Lab
of Hong Kong Polytechnic University



Creating **1** high-level themed exhibition

Spirits of Our Times Shining in Hong Kong – China’s Construction Exhibition, which lasted for five days and a half, attracted over 200 groups and over 30,000 visitors.

Launching **4** “Master Lectures” in Hong Kong’s universities of “China’s Construction for the Future”

Four architectural experts visited the University of Hong Kong, the Hong Kong Polytechnic University, the Hong Kong University of Science and Technology, and the Chinese University of Hong Kong to give lectures on the development and achievements of China’s construction industry for more than 750 Hong Kong university students.

Carrying out **7** on-site media visits of projects related to people’s life

We organized journalists from 21 media outlets to visit seven project sites including the Hong Kong Palace Museum, Hong Kong Infection Control Center (North Lantau Hospital), Hong Kong Tseung Kwan O Desalination Plant Phase I Project, Relocation of Sha Tin Sewage Treatment Works, Hong Kong Children’s Hospital, Central-Wan Chai Bypass Project, and Hong Kong Disneyland.

Organizing **3** youth-themed activities

The Hong Kong Youth Architecture Painting Competition, the “Bay Area Dream” Design Competition, and the Chinese-funded Enterprise Internship Program were carried out. Among them, the “Beautiful City in My Mind” Hong Kong Youth Architecture Painting Competition attracted over 12,000 students from 258 primary and secondary schools. Some schools took the competition as an education opportunity by organizing all students to participate. The “Bay Area Dream” Design Competition, launched in October 2021, is still ongoing. The Chinese-funded Enterprise Internship Program is available to all Hong Kong university students with 100 internship chances each year.



Message from the Chairman

General Secretary Xi Jinping once pointed out that only the wealth for the good of people is truly meaningful and only those companies shouldering social responsibilities are the most competitive and vibrant ones. CSCEC has thoroughly analyzed and implemented the important instructions by General Secretary Xi Jinping and firmly served the overall development of the Party and China. While realizing our development, we are committed to becoming a highly responsible enterprise of the times.

2021 marks the centenary of the CPC and an important juncture of the “Two Centenary Goals.” It is also an extraordinary year in the history of the People’s Republic of China. Facing increasing risks and challenges at home and abroad, under the strong leadership of the CPC Central Committee with Comrade Xi Jinping at its core, CSCEC has faithfully delivered the decisions made by the CPC Central Committee and the State Council and carried out Party history education. We focus on the “one creation and five aspects of strength” strategic goal and implement the “166” strategic measures to accomplish our annual goals to celebrate the Party’s 100th anniversary, help stabilize economic growth, and promote rural vitalization.

In 2021, we carried out in-depth Party history education. Regarding Party history education as a major political task, we put in place distinctive and diverse education to heighten the political awareness of our employees, have a better understanding of “Two Establishes”, and maintain “Two Upholds”. The “serve the people with concrete actions” were advanced. All 165 measures to address problems of “Ten Difficulties” have been delivered and more than 90% of the 426 “Ten Ensures” projects that benefited the people have been completed. The activity of “overall study, general discussions, and comprehensive implementation” to implement the new development philosophy has been carried out in depth, making the majority of our employees have a better awareness of high-quality development.

In 2021, our production and operation picked up both quantitatively and qualitatively. Newly signed contracts exceeded RMB 3.5 trillion yuan and our revenues jumped to a high of RMB 1.8 trillion, making us the “stabilizer” and “ballast” of China’s economy. CSCEC received the honor of A-level Enterprise in Business Performance Appraisals of Persons-in-Charge at Central State-owned Enterprises for the sixteenth time. CSCEC ranked 3rd in the 2021 Fortune China 500 and 13th in the 2021 Fortune Global 500.

In 2021, we showed our might in guaranteeing services for major projects. We have completed several important projects such as building the stage for “The Great Journey” performance, constructing the Central Gifts and Cultural Relics Management Center, and renovating the Red Building of Peking University, adding highlights to the Party’s 100th birthday. We built and guaranteed the maintenance of 28 Beijing 2022 venues and supporting projects. Serving major national strategies, we implement several landmark projects in strategic areas such as the Beijing-Tianjin-Hebei Region, Yangtze River Delta, Guangdong-Hong Kong-Macao Greater Bay Area, and the Yellow River Basin. Our high-quality BRI cooperation has produced many overseas major projects that have been delivered.

In 2021, we secured important breakthroughs in innovation. We have ramped up research input with the R&D investment intensity exceeding 2%. Major R&D tasks have seen important milestones. The 10,000-ton press machine has completed the world's first vertical loading test of 10,000 tons, demonstrating our status as a "powerhouse of China". Keeping China's peaking carbon emissions and achieving carbon neutrality goal (peak carbon dioxide emissions before 2030 and achieve carbon neutrality before 2060) in mind, we analyze our carbon emission baseline, make carbon peaking forecasts, conduct research on carbon reduction technologies, and venture into the green and low-carbon industries. We have won five National Science and Technology Progress Awards, two of which are first prizes. A total of 15 projects by CSCEC have won the Tien-Yow Jeme Civil Engineering Prize. We take home more and better awards.

In 2021, the three-year SOE reform action plan achieved remarkable results. We have met our goals as scheduled. A total of 57 measures have been made to strengthen the Board of Directors, which fully plays the role in "setting strategies, making decisions, and preventing risks" with more standardized and effective operations. Subsidiaries at all levels of substantive operation implement tenure- and contract-based management. A total of 64 subsidiaries adjust the professional management system. We outperform other central SOEs in the "double-hundred action" and the "technological reform demonstration action."

In 2021, we enhanced the Party's leadership and Party building. We urge subsidiaries at all levels to improve the working rules of Party organizations, the "three majors and one large" management, and the rules of procedure of the board of directors, and strengthen the Party's leadership while improving corporate governance. The top leadership plays a bigger role in following regional Party building systems and the Party building activity "Witness Power" becomes more influential. Achievements have been made in improving the Party conduct and ensuring clean governance.

In 2021, our CSR performance was solid. Giving full play to our entire industry chain, we engage in urban renewal, shantytown renovation, urban infrastructure building, and environmental protection projects to fully meet people's needs and improve the people's sense of gain, happiness, and security. We dare to be the leader of the modern industrial chain of the construction industry to drive the common development of upstream and downstream players. We consolidate and expand what has been achieved in poverty alleviation and make every effort to provide targeted assistance to three counties in Gansu, Changting County in Fujian Province, Tibet, and Xinjiang. Sticking to the principle of "four no-removes", we have self-directed and attracted the assistance funds of RMB137 million to implement 123 assistance projects to contribute to rural vitalization. We have recruited 32,000 new college graduates and created more than 2.4 million jobs. We have held 100 sessions of "100 lectures on construction sites" to care about left-behind children across the country, with a total of 400 such events in four years, benefiting 9 million people.

CPC's 100-year journey surges forward with great momentum and its original aspiration remains even firmer one hundred years later. Since the founding of the PRC, we have helped defend the country by the "major three-lines" construction. Since 1978, we have created the "Shenzhen speed" and now we contribute to "Xiong'an quality" in the new era. We have dedicated ourselves to national strategies including the BRI, built the Huoshenshan and Leishenshan emergency hospitals, and contributed to poverty alleviation and rural vitalization. We always follow the Party's instructions and policies. Despite daunting tasks, we fulfill our original mission and forge ahead toward the "one creation and five aspects of strength" strategic goal. We will also contribute our share of efforts to the Second Centenary Goal and a great modern socialist country in all respects.

Chairman Zheng Xuexuan



About Us

Company Profile



Founded in 1982, China State Construction Engineering Corporation (China State Construction) is the largest global investment and construction group in the world with our business networks in over 100 countries and regions. 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 with investments mainly focused on real estate development, infrastructure building, comprehensive urban construction and other fields, providing all-around, whole-process, and all-factor services for urban construction. As the largest project contractor in the world, CSCEC covers all aspects of urban construction and all links of project construction. With strong capabilities in 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.

Serving the development of the Party and the country, CSCEC fully and faithfully implements the new development philosophy and fulfills the responsibilities of a central SOE. We work harder on consolidating the “two foundations” and the “six powers” to serve the country and expand the space of happiness for the people.

We assume our political responsibility. We fully serve regional coordinated development strategies and target local development needs to achieve greater development from serving regional economic and social development. In Beijing-Tianjin-Hebei Region, Yangtze River Economic Belt, Guangdong-Hong Kong-Macao Greater Bay Area, Yangtze River Delta, Yellow River Basin, and Chengdu-Chongqing Region, we undertake iconic projects such as the Xiong’an Station of the Beijing-Xiong’an Intercity Railway, Shenzhen Metro Line 13, renewal of Jianguo East Road, Huangpu District, Shanghai, Shanghai Lingang New Area, Xi’an Happiness Forest Belt. We practice overall frugality, formulate and implement the special action plan of “practicing thrift”, and reduce administrative costs. We also enhance publicity, regularly publicize our achievements, and summarize best practices in a timely manner.

We fulfill our economic responsibility. Our newly signed contracts were worth over RMB3.5 trillion and revenues rose to RMB1.8 trillion. CSCEC received the honor of A-level Enterprise in Business Performance Appraisals of Persons-in-Charge at Central State-owned Enterprises for the sixteenth time, which shows our role as a “stabilizer” and “ballast stone” in China’s economy. In our main business sectors, we adopt digital technologies, pursue digital transformation, and leverage the empowering role of intelligent technologies. We continue to ensure our leading position in housing construction, infrastructure building and investment, real estate development and investment, and survey and design. In 2021, we ranked 13th in the 2021 Fortune Global 500 and ranked top in the 2021 Top 250 International Contractors list by Engineering News-Record (ENR).

We live up to our responsibility in innovation. Taking innovation as the first driving force for development, we have carried out the three-year SOE reform action plan in depth, organized 12 meetings for the three-year corporate reform task force, and set up special reform working groups. We advance 105 reform tasks and more than 3,700 reform measures of subsidiaries have been implemented scheduled. *The Thirty Measures for Strengthening the Innovation Capability* has been issued, which classifies ten major R&D focuses and 153 key tasks. We also accelerate the building of two original technology bases for smart construction and green construction. A total of RMB39.9 billion was channeled for R&D throughout 2021. We have won five National Science and Technology Progress Awards and 15 projects have won the Tien-Yow Jeme Civil Engineering Prize.

We are responsible to customers. Guided by the strategy of building up China’s strength through quality improvement, we always strive for excellence and create high-quality projects. In 2021, 35 projects won China Construction Engineering Luban Prize, 95 projects won the National Quality Project Award, 75 projects won the National Construction Decoration Awards, 59 projects won the Quality Awards for Installation Projects, and 126 projects won the Gold Award of China’s Construction Engineering Steel Structure. We ensure fair marketing, protect customer information, and live to our pledges to customers. The annual joint signing and review rate, contract explanation rate, and contract planning execution rate have all reached 100%, and sampled customer satisfaction stands at 95 points.

We fulfill our environmental responsibility. Guided by China's strategy of peaking carbon emissions and achieving carbon neutrality, we strengthen the green and low-carbon sectors by shoring up, enhancing, and expanding the industrial chain to be the best comprehensive service provider in planning, design, construction, and products in the decarbonization field and contribute to a beautiful China and global ecological security. In 2021, our total investment in environmental protection reached RMB630 million, 100% of construction sites were regreened, and more than 3,200 environmental protection publicity activities were carried out.

We are a responsible employer. Committed to building a talent system with global competitiveness, we build ourselves into an important talent highland for "global construction." We launch the "seven key talent projects" and carry out the "513+X" training project in depth. As of the end of 2021, we had two academicians of the Chinese Academy of Engineering, one winner of the highest science and technology award for engineering construction, 13 national engineering survey and design masters, 277 experts entitled to special government allowances from the State Council, and 33 China skills award winners and national technical experts. We also strengthen safety management, carry out activities such as "safety engineer training camp", "safety pioneer training camp", and "safety lecturer competition", make full use of information technology to improve safety management, and fully protect employees' occupational health and work safety. In 2021, 195 projects under construction were awarded the title of "national work safety standardization learning and exchange projects."

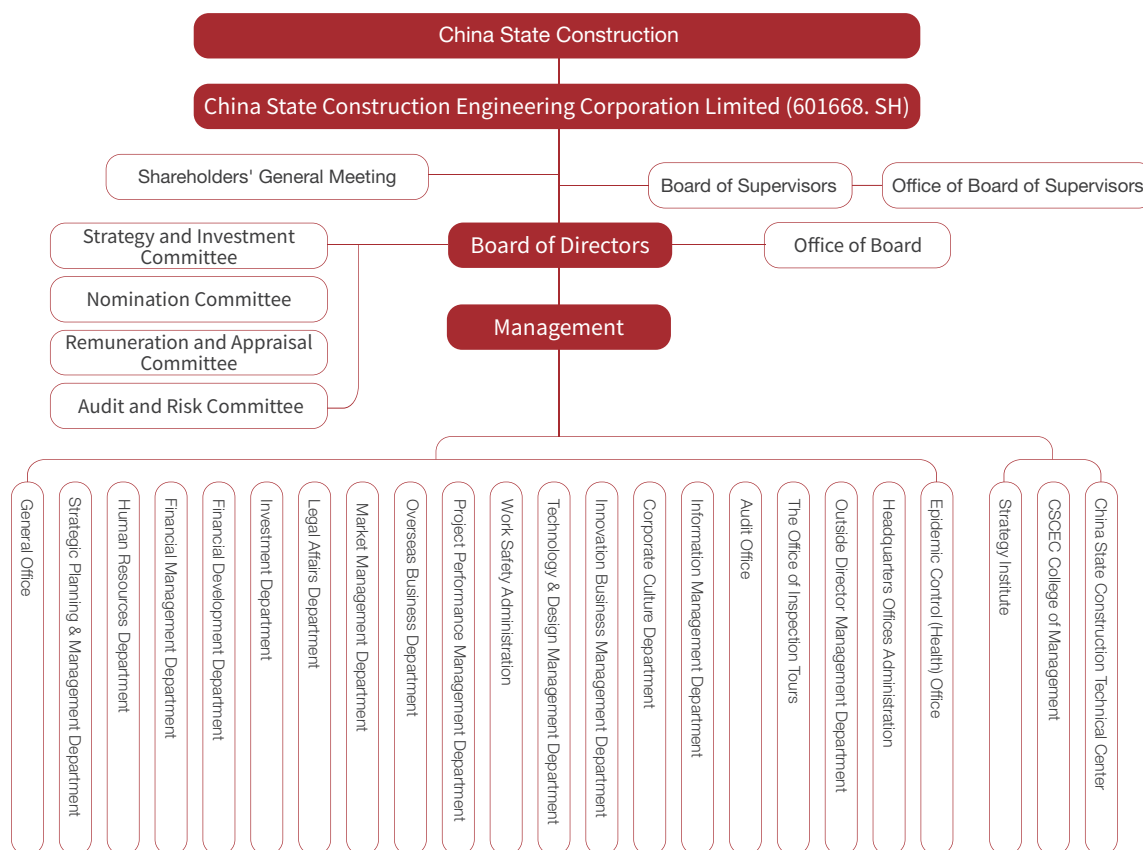
We are a responsible partner. We advance digital development, empower the supply chain, and upgrade supply chains through digital technologies. Based on the yzw.cn procurement platform, we build an e-commerce platform for the construction industry and a "7+N" regional centralized procurement model to improve procurement management and create a responsible supply chain. In 2021, the responsible procurement rate stood at 100% and the centralized procurement rate of building materials reached 99%. We also carry out exchanges and cooperation with stakeholders such as the governments, enterprises, universities, and financial

institutions across the globe to build close partnerships. Throughout 2021, we signed seven strategic cooperation agreements.

We shoulder our responsibilities to communities. We live up to our mission for the country and the people. In 2021 alone, we recruited 32,000 college graduates to ease the employment pressure. More than 2.4 million jobs were provided for migrant workers, which means we helped 6 million people embark on a journey toward moderate prosperity. We monitor migrant workers' wage payment, offer skills training, and turn migrant workers into construction skilled workforce. We have established the brand "Witness Happiness·CSCEC Care", and held 400 sessions under the "100 lectures on construction sites" campaign to care about left-behind children in rural areas across the country. Efforts are made to consolidate what has been achieved in poverty alleviation to help rural vitalization. We also build major infrastructure such as transportation, water conservancy, power projects, airports, and communication networks. We also input or attracted investment of RMB137 million in targeted assistance areas in 2021. We assume our global responsibility, deepen the "1+N" cross-cultural integration model, train cross-cultural messengers, and promote cultural exchanges to see that CSCEC and global stakeholders can achieve greater common interests. By the end of 2021, we had built more than 8,000 projects in more than 140 overseas countries and regions.

CSCEC adheres to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implements the decisions of the 19th National Congress of the CPC and Plenary Sessions, and follows the great tradition in the building of the CPC. We also pass down the valuable principle of "Ten Adherences" and are committed to becoming a world-class group with strong value creation, innovation leadership, brand influence, international competitiveness, and cultural soft power.

Organizational Structure



Business

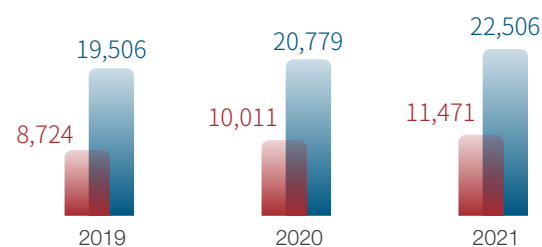
Housing Construction



CSCEC holds the highest performance in housing construction in China, becoming a leader in housing construction in China and even in the world. We give full play to our competitiveness in the entire industry chain to provide customers at home and abroad with one-stop comprehensive services in the design, construction, and implementation of large, sophisticated, advanced, difficult, and special construction projects. Through commercial building projects, green and smart construction, we have improved ecological civilization and green development, reduced energy consumption, and provided a sound living environment, making new contributions to “enhancing people’s sense of gain, happiness, and safety.”



- ◆ Newly-signed contract value (RMB 100 million)
- ◆ Revenues (RMB 100 million)



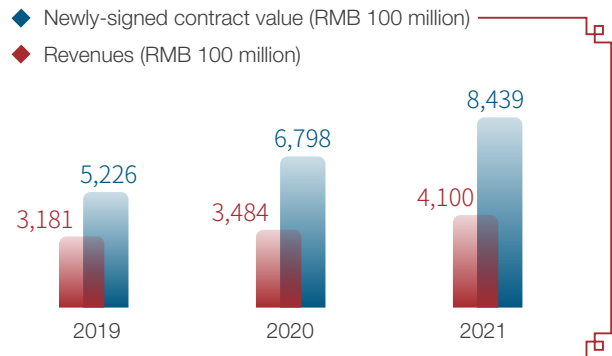
Infrastructure Construction and Investment



CSCEC serves the national strategy, meets the needs of people, and engages in project construction and investment. Leveraging our advantages of technology, talent, and management, we have built iconic projects in domestic and foreign urban rail transit, high-speed railways, extra-large bridges, expressways, municipal roads, urban integrated pipe corridors, ports and waterways, power, mining, metallurgy, petrochemicals, airports, and nuclear power plants. Making use of our sufficient capital, we have rapidly evolved into a first-class infrastructure investor and developer in China. We have invested in and constructed a large number of national and local key projects. We have built our credit in BT, BOT, PPP investment and construction models, striving to offer people a better life and leading China's emerging industries.



Jiaxing Railway Station Project



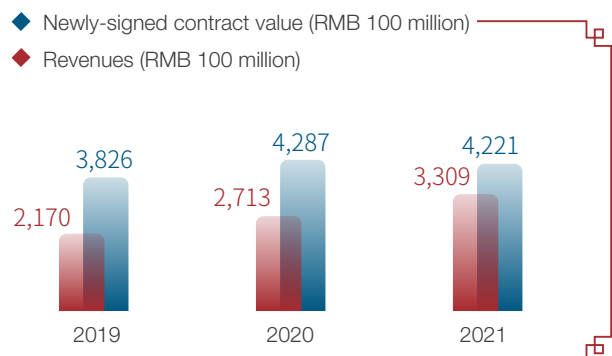
Infrastructure Construction and Investment



CSCEC owns two real estate brands – China Overseas Land & Investment Ltd. (COLI) and China State Construction Land (CSC Land). By bringing more internal resources together and enhancing 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.



One Sino Residences



Survey and Design

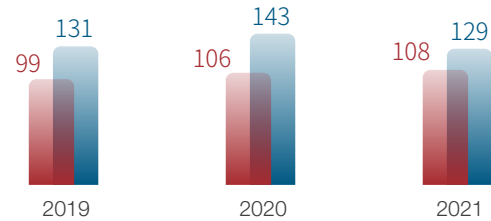


The survey and design sector of CSCEC is mainly composed of seven large-scale survey and design enterprises with Grade-A design qualifications, which covers businesses in areas such as construction design, urban planning, engineering survey, and municipal public engineering design, and ranks top in China 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.



Chengdu Tianfu International Airport

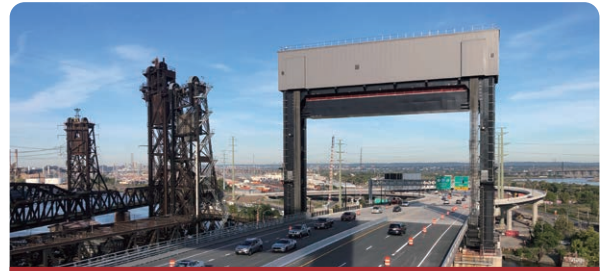
- ◆ Newly-signed contract value (RMB 100 million)
- ◆ Revenues (RMB 100 million)



Overseas Operation

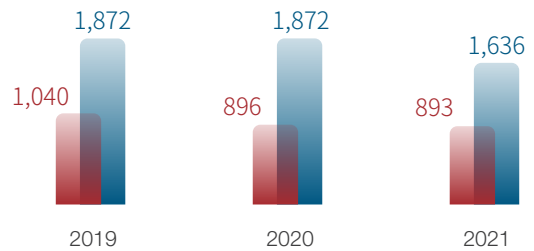


CSCEC is one of the earliest industry brands in China to carry out the international engineering contracting business. The overseas engineering contracting businesses of CSCEC cover various areas including housing construction, manufacturing, energy, transportation, water engineering, industry, petrochemical, handling of hazardous materials, telecommunications, sewage/waste treatment, etc. CSCEC has carried out overseas property development. In terms of project operation, apart from the traditional mode of general contracting, the Company has also explored project operation modes such as general contracting driven by financing and investment, DB, EPC, BOT, and PPP models. Meanwhile, the Company has advanced capital operations such as M&As. The Company will continue to enhance the localized operation and resource integration, implement the BRI, and promote international operation.



Witt penn Bridge

- ◆ Newly-signed contract value (RMB 100 million)
- ◆ Revenues (RMB 100 million)





Sustainability Background

In 2021, confronted with increasing risks and challenges at home and abroad, CSCEC focused on the “one creation and five aspects of strength” strategic goal, and implemented the “166” strategic measures to promote corporate reform and development.

Opportunities and Challenges



Challenges

International

- Far-reaching impact of COVID-19
- A Sluggish world economy and headwinds in globalization
- Threats posed by unilateralism, protectionism, and hegemonism to world peace and development

Domestic

- Prominent unbalanced and insufficient development

Industry

- Slower growth of the construction industry
- Rising labor prices caused by labor shortages in the construction industry
- Intense competition in the construction industry

Opportunities

International

- Deepened scientific and technological revolution and industrial transformation
- Peace and development as the themes of the times

Domestic

- A stage of high-quality development, with significant institutional advantages, improved governance efficiency, long-term economic growth, solid material foundations, abundant human resources, broad market opportunities, strong development resilience, and social stability

- Sustained growth of the construction market brought by the new-type urbanization

Industry

- Significant changes in the development mode of the construction industry in terms of industrialization, digitization, artificial intelligence, and green development
- High efficiency, high quality, low consumption, and low emission in project construction

Weaknesses

- A gap between CSCEC and world-class enterprises
- Falling short of high-quality development requirements

Strengths

- Strong capability of resource allocation
- An improved system of cost control
- Accelerated reform toward the “one creation and five aspects of strength” strategic goal
- Remarkable innovation achievements and engineering excellence
- Consolidated advantages of the whole industry chain

Responses

We seek progress while maintaining stability, which is our priority, fully and faithfully implement the new development philosophy, serve the new development paradigm, and deepen reform and innovation. We also thoroughly implement the strategic plan during the 14th Five-Year Plan period and coordinate COVID-19 response and production. While pursuing steady growth, we strengthen risk prevention and control, maintain harmony and stability, and promote high-quality development to move closer toward a world-class enterprise.



CSR Features



Witness a Glorious History, Showing the Responsibility of CSCEC

In 2021, on the occasion of the beginning of the Second Centenary Goal, we reviewed our contributions to China's reform and development and a better life for Chinese people.



A Leading Enterprise's Responsibility



We put people first in our development, serve national strategies and regional development, and promote technological innovation, green development, and digital transformation. We deepen reform across the board and pursue high-quality development.



The Road to Innovation

Reform and innovation are what characterize CSCEC. In recent years, CSCEC has achieved four major types of transformation. As the world's largest investment and construction group, we have seized the opportunity of integrated digital, networked, and smart development, ensured that the industrial chain and innovation chain reinforce each other, and made key breakthroughs in green, smart, and commercialized construction, water environmental protection, e-commerce, and other business fields. As a result, we have realized core IPR achievements, formulated industry standards, and acted as the leader of the industrial chain, driving the common development of the industry.

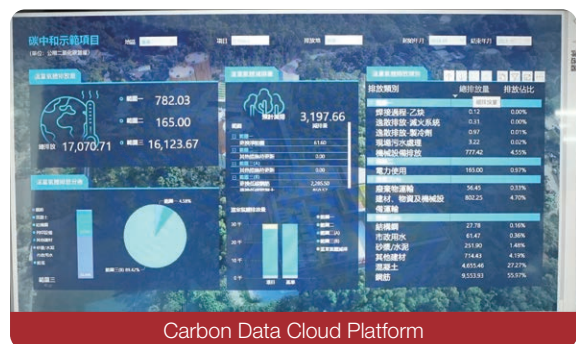
Exploring Green Development Paths

We put the environment first and pursue green development, implement China's peaking carbon emissions and achieving carbon neutrality requirements, explore green and low-carbon development paths, and put in place a green construction system. Green production and lifestyles are integrated into the whole process of production and operation. We play a leading role in China's green construction revolution and engage in global cooperation with the best green construction performance, contributing to a beautiful China and global ecological security.

- We have established the Research Center for Green and Low-Carbon Development to explore the building of a carbon emission database, a statistical monitoring platform, and a smart construction platform integrating BIM + Internet + Internet of Things.
- We have developed "Zero carbon" PEDF technology, BIPV building facades + energy storage technology, and BIPV solar awnings technology.
- We are China's first real estate company to issue the first "green + carbon neutrality" bond as well as a plan for green asset support.

O·PARK2 construction period carbon neutrality commitment

China State Construction International Holdings Limited released the Hong Kong O·PARK2 Construction Period Carbon Neutrality Commitment, making O·PARK2 the first green project in Hong Kong to achieve carbon neutrality during the construction period and the first project in Hong Kong to meet international standards for verified emission reductions (VERs). China State Construction International Holdings Limited is committed to achieving carbon neutrality of O·PARK2 during the construction period through sustainable management, technological innovation, support for VER projects, and regular annual disclosure of relevant research data and results. Taking this pilot project as an opportunity, China State Construction International Holdings Limited analyzed the replicability of its carbon reduction practices and promoted sustainable development in its project sites to advance green, low-carbon, circular, and high-quality development of the construction industry.

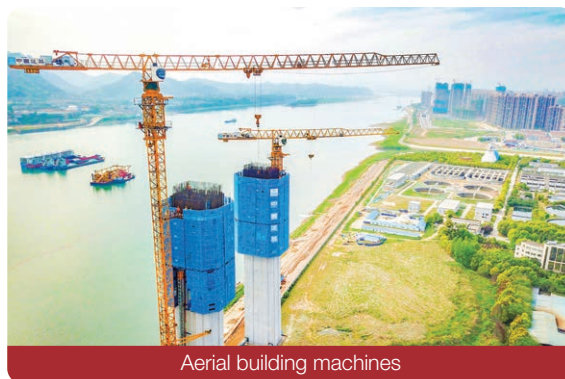


Carbon Data Cloud Platform



A Cradle for Independent Innovation

Since innovation serves as the first driving force for development, we prioritize scientific and technological innovation, accelerate breakthroughs in core technologies, and secure core achievements supported by independent intellectual property rights. We aim to build a cradle for original technologies of the global construction industry and move ahead of others in competition and development to provide strong support for the high-quality development of the Company. We have mastered world-leading construction technologies such as structural moving, large roof sliding, complex steel structure production and construction, and developed 10,000-ton machine presses, aerial building machines, aerial tower machines, as well as vertical shield machines. We have built China's first 5G smart construction site and the first intelligent manufacturing production line for building steel structures to promote green, smart, and commercialized construction.



Aerial building machines

Independent development of the “Overhead Mobile Steel Platform”

CSEEC created the bridge construction concept of “pile made and beams transported overhead” and developed an overhead steel platform that could quickly turn around on the top of piles, realizing aerial construction of bridges throughout the whole process. We also solved environmental protection problems caused by bridge construction in ecologically fragile areas such as virgin forests and swamps. Piling at the front and installation of pile caps and beams at the rear were conducted simultaneously, shortening the 12-day construction period of a single-span bridge to an average of 2.5 days, or 1.8 days at best, which greatly reduced the construction time and saved construction costs. Compared with others, our technologies in this project could reduce the environmental impact by 90%, make the construction five times more efficient than before, and promote bridge construction technologies.



Case



Overhead mobile steel platform



Intelligent assembly bridge machines



Shield machines



The Road to CSR Performance

CSCEC leads as an example in fulfilling our responsibilities, serves regional development, and contributes to the steady and long-term development of our country. In fulfilling social responsibilities, we act as a champion, make our contributions to the country, and people, and shoulder “urgent, dangerous, and daunting” tasks to help rural vitalization.



Empowering Regional Development

We contribute to the regional coordinated development strategy and focus on area development, a country with a strong transportation network, large-scale urban renewal, station-city integration, and urban operation. We meet local development needs, optimize our business, and build a large number of major engineering projects that serve the national economy and people’s life. We are an important force in promoting urban and rural construction.

Serving the Coordinated Development of the Beijing-Tianjin-Hebei Region

We plan our projects at high standards and fully engage in infrastructure building, urban renewal, environmental protection, and other fields in the Beijing-Tianjin-Hebei Region. Projects are delivered step by step. We have built projects including the Xiong’an Business Service Center, the Xiong’an Station of the Beijing-Xiong’an Intercity Railway, the G1 Section of the G Resettlement House Group in the Rongdong Area, and the National Convention and Exhibition Center (Tianjin).

Promoting Ecological Protection and High-quality Development in the Yellow River Basin

In environmental protection, new-type urbanization, transportation infrastructure, digitalization, and other fields, we have invested in several leading projects such as ecological protection and restoration of the Ulansuhai Nur Basin in Inner Mongolia, Xi’an Happiness Forest Belt, pollution control in the Qin Mountain – Jue River Basin, and sewage treatment in Binzhou City.



Constructing the Xiong’an-Beijing Daxing Express Line

The Xiong’an New Area-Beijing Daxing International Airport Express Line (the fifth section) constructed by CSCEC is an integral part of the express railway network featuring “four vertical and two horizontal lines” under the state planning to connect Xiong’an with other regions and the “one artery and multiple branches” express line system in the Xiong’an New Area. The project started in March 2021, with a total length of about 86.21 kilometers.

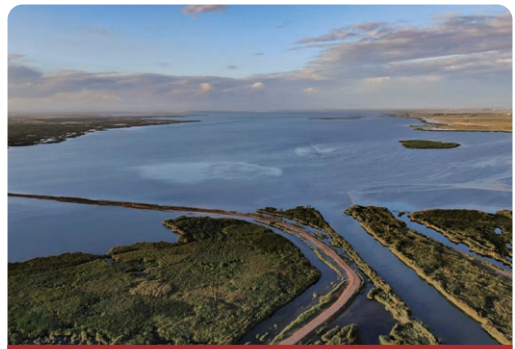


The Xiong’an-Beijing Daxing Express Line (the fifth section)



Turing a desert into an oasis

China Construction First Group Corporation Limited has carried out ecological restoration of mountains, rivers, forests, fields, lakes, and grasses in the Ulansuhai Nur Basin of Inner Mongolia. After completion, the project can prevent 1 million cubic meters of yellow sand from flowing into the Yellow River and 37,000 poor people in the Basin will be lifted out of poverty. It is of great significance to sustainable development and ecological civilization.



The project in the Ulansuhai Nur Basin

Deeply Engaging in the Guangdong-Hong Kong-Macao Greater Bay Area

The Guangdong-Hong Kong-Macao Greater Bay Area is one of the most open economic hubs in China. We dare to be the champion in building the Guangdong-Hong Kong-Macao Greater Bay Area, the Shenzhen Metro Line 13, Shenzhen World Convention and Exhibition Center, Shenzhen Guangming Science City, and Shenzhen Qianhai International Convention Center. We also renovate old villages in Huangpu District of Guangzhou and the Chengxiang District of Putian City to help build the Guangdong-Hong Kong-Macao Greater Bay Area into a world-class bay area and a world-class city cluster.



Case

Building the world's first super high-rise data center with smart technologies

The landmark project of Qianhai's "new infrastructure" – Shenzhen Qianhai Telecommunication Center, is the command and dispatch center of Qianhai's "smart city" and "digital Qianhai" programs and the first high-rise data center of over 100 meters in China. China Construction First Group Corporation Limited adopts the construction pit automatic monitoring platform and the construction pit automatic monitoring robot to conduct 24-hour synchronized monitoring of displacement points and the data is sent to the smart platform in real time, which provides "double guarantees" for the project.



The Shenzhen Qianhai Telecommunication Center Project

Contributing to the Integrated Regional Development of the Yangtze River Delta

We analyze the functions of cities in the integrated regional development of the Yangtze River Delta and serve the "dual circulation" development paradigm. We set up regional headquarters and sign strategic cooperation agreements with multiple central cities. A total of RMB 59 billion has been invested in the urban renewal project of Jianguo East Road in Huangpu District to better upgrade Shanghai's urban functions and serve its urban development. We also invest in the construction of the world's top scientist community in the Shanghai Lingang New Area, which can make Shanghai an innovation center with global influence. We have implemented strategic cooperation agreements and obtained the Suzhou CSCEC International Operations Headquarters and the Lize Road Subway Station in Wujiang District, Suzhou, and other investment projects.



Case

Jiangsu LNG Expansion Project

The Jiangsu LNG expansion project is located on Sunshine Island, Yangkou Port Economic Development Zone, Rudong County, Jiangsu Province. In this project, China Construction Second Engineering Bureau Ltd. undertakes the external concrete structure of a 200,000m³ LNG storage tank. It is also the first 200,000m³ LNG project with high-rise piles in China. After the overall project is completed, it will optimize the energy mix in the Yangtze River Delta region, reduce the emission of air pollutants, and help build a "beautiful Yangtze River Delta."



Jiangsu LNG Expansion Project

Serving the Development of the Yangtze River Economic Belt

Promoting the development of the Yangtze River Economic Belt matters a lot to the development of China. We explore new business sectors such as water environmental protection and ecological governance to make the environment better with “clearer water, bluer sky, greener land, and more beautiful scenery.” In 2021, the Jinggangshan navigation and power hub of the Gan River was fully put into operation, injecting new momentum into the local economic and social development. The Ningbo Zhoushan Port main channel project was completed and opened to traffic, which ended the separation of Daishan Island.



Case

Making way for the Chinese Sturgeon

The Wujiagang Yangtze River Bridge in Yichang is located 15 kilometers downstream of the Gezhouba Dam. It is the buffer zone of the Yangtze River Chinese Sturgeon Nature Reserve. It is also where finless porpoises and Chinese high-fin banded sharks are often found. In order to maintain the water quality of the Yangtze River and its biodiversity and fully realize environmental protection, China Construction Third Engineering Bureau Group Co., Ltd. adopted a suspension structure spanning 1,160 meters across the river and no piers were built in the river to make way for the Chinese sturgeon. As a result, the migration of Chinese sturgeon was not affected and the Yangtze River waterway was facilitated.



The Wujiagang Yangtze River Bridge in Yichang

Promoting the Chengdu-Chongqing Economic Circle

We continue to ramp up investment in Chengdu and Chongqing, give full play to the advantages of the entire industry chain, and serve the Chengdu-Chongqing economic circle. We also help the local government to “propose new ideas, build new patterns, and shape new spaces.” In 2021, the western section of the second horizontal line of the Chongqing expressway was completed and the Chongqing expressway network was further accelerated.



Case

Building green transportation railways

The first phase project of Chongqing Rail Transit Line 9 constructed by China Construction Infrastructure Co., Ltd. and China Construction Fifth Engineering Division Corp., Ltd., with a total length of about 32.3 kilometers, spans five districts and crosses five railways. The project is of great significance for improving the network of urban rail transit lines in Chongqing, optimizing urban functions, and alleviating the traffic pressure in the main urban area. The first-phase project applied a variety of green construction techniques such as the deep-water cofferdam foundation without covering layer by mechanical excavation, which minimized disturbance and noise to surrounding buildings and effectively protected the water environment of the Jialing River.



The first phase project of Chongqing Rail Transit Line 9

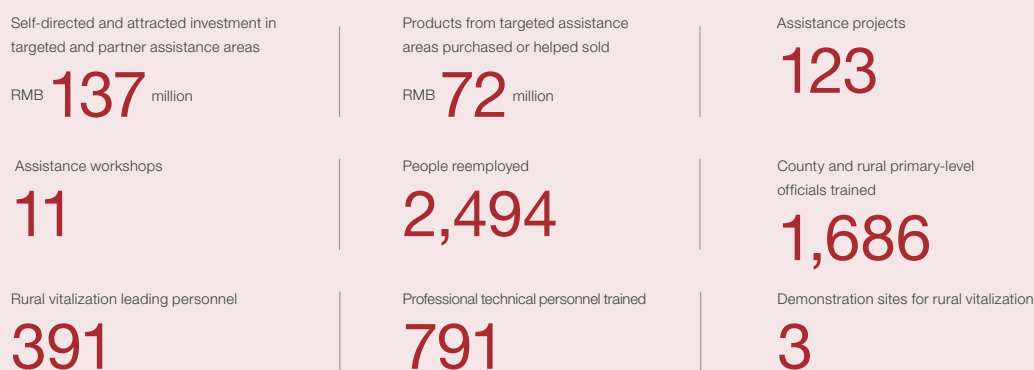


Contributions to Rural Vitalization

In 2021, we offered targeted and pragmatic assistance to Kangle County, Zhuoni County, and Kang County (referred to as the three counties of Gansu), to Changting County in Fujian Province, and saw that poverty alleviation policy measures and systems could ensure rural vitalization.

We were invited to share our practices at the Gansu rural vitalization industry development project workshop, the Gansu provincial press conference, and the symposium on leading enterprises helping rural vitalization and high-quality development in Gansu. Recognized as one of the best units in the Central SOE poverty alleviation assessment for four years in a row, CSCEC had one subsidiary awarded the “advanced unit in China’s poverty alleviation” and five groups and individuals receiving the awards for poverty alleviation in Gansu province.

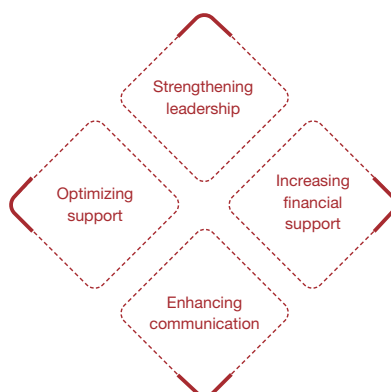
In 2021, actions and investment of CSCEC and its controlling shareholder China State Construction in targeted and partner assistance areas



Implementing the “Four No-Removes” and Enhancing Guarantee

We have established a leading group and a task force for rural vitalization, held rural vitalization meetings where decisions are made, and formulated documents involving annual rural vitalization priorities, work lists, and assistance action plans. The members of the top management of China State Construction visited four counties for on-site surveys.

We have required 17 subsidiaries to offer targeted assistance, introduced other stakeholders such as the China Women’s Development Foundation, and built a “1+X” targeted assistance pattern. Seven employees have been assigned to work as deputy county directors or first secretaries.



We have formulated a targeted assistance investment plan during the five-year transition period to ensure that financial support is still provided in full and implemented 123 assistance projects in industrial development, employment, education and consumption.

We have held eight exchanges for officials from the assisted areas, organized visits involving 780 person-time at all levels to the assisted areas such as the three counties in Gansu and Changting County in Fujian, and started 27 symposiums.



Helping 91 villages in Kangle County to formulate rural vitalization village plans

Supporting “Three Major Industries” and Helping Industrial Revitalization

Industrial revitalization is the key to rural vitalization. Focusing on the weaknesses of the three counties, we help draft the rural vitalization plan, take into consideration local characteristic resources, and build three major industries of tourism, labor services, and farming according to local conditions. We also elevate the ability of the assistance areas to achieve economic growth, injecting strong momentum into rural vitalization. A total of 35 subsidiaries engage in consumption-driven assistance and e-commerce empowers 125 leading enterprises (cooperatives).



A mushroom stick workshop of Kangle County

Sticking to Skills Improvement to Train More Professionals

The development of human capital should be prioritized to produce more talent for rural areas. We support local areas and their people by improving their skills, which in turn supports rural vitalization and finally boosts common prosperity. We have also helped train 2,868 primary-level officials, rural vitalization leading personnel, and technicians in three counties in Gansu, organized the CSCEC advanced skilled worker training sessions with Gansu Vocational College of Architecture, undertaken the training of 131 students in need, and built 67 demonstration villages providing construction labor services.



Employing people from assistance areas

Promoting Cultural Revitalization

Rural vitalization cannot be separated from cultural development. We place an equal emphasis on economic growth and cultural development and improve the education in mountainous areas and cultural activities for farmers, thus putting in place a sound educational and cultural atmosphere and enhancing rural soft power. We have invested RMB 13.1 million to build two Hope Primary Schools. A total of RMB 720,000 has been channeled to build three AI innovation classrooms. We have introduced AI courses and organized 20 teachers to carry out 3-day training. We have organized experts to give four live educational lectures to teachers in three counties in Gansu. Together with Shenzhen ME College, we have created three “future education experimental classes” to introduce future-oriented and international science courses for students in the three Gansu counties.

Practicing the “Two Mountains Theory” to Achieve Ecological Revitalization

Guided by the idea that “lucid waters and lush mountains are invaluable assets”, we leverage our expertise in planning and design to help Kangle and Zhuoni counties build beautiful scenic spots and livable villages. We have invested RMB 26.74 million and assigned seven design institutes to help Kangle County formulate the overall tourism development plan, the Chengguanfang area controlled plan, the “Linxia Flower” bed and breakfast plan, and 91 rural vitalization village plans. We have also invested RMB 10 million to help Zhuoni county compile a tourism development plan and help Dayugou design a national 5A-level tourist attraction plan, throughout which environment is always our priority.



Developing red tourism resources and protecting ancient villages in Changting county

CSCEC has provided planning, design, operation and maintenance, and other support for the development of red tourism resources in Changting County and the protection of ancient villages. CSCEC’s nine subsidiaries have launched a tourism planning competition for Tongmu Village in Changting County, collecting excellent planning and design proposals that emphasize protection, sustainability, innovation, functions, distinctive features, and easy implementation.



Deepening Joint Building to Revitalize Rural Governance Organizations

We give full play to the core role of primary-level officials governance building, create new models of joint building. We invigorate rural vitalization organizations, help establish a more effective and dynamic new rural governance mechanism, and improve the rural living environment to drive the sustainable development of the rural economy.



Creating a new model of joint building

CSCEC has assigned eight outstanding subsidiaries to partner with 19 village in three counties of Gansu to support joint building and explore the model of “joint building, resource sharing, member co-education, and cultural exchanges.” We have held 35 joint building meetings, special classes, and member voluntary activities, and visited 138 members. We have jointly built a rural vitalization workshop with Wugu Village, Zhuoni County, an agricultural product exhibition and sales area, and three studios for building alliance, coordination, and trade union services to solidify the defense in rural vitalization.





No Fear of Difficulties, CSCEC's Responsibilities

Amid times of dangers and risks, CSCEC has shown the responsibility by following instructions with careful planning and acting at all costs to accomplish all major tasks. In 2021, CSCEC built major projects and contributed to Beijing 2022 Winter Games. CSCEC constructed 28 Beijing 2022 Winter Games venues and supporting projects by following high standards and guaranteed operation and maintenance.



Ensuring Steady and Long-term Development of Hong Kong

In June 1979, China Overseas Land & Investment Limited, the predecessor of China Overseas Holdings Limited (COHL), a subsidiary of CSCEC, made its debut in Hong Kong. Over the past 42 years, COHL has engaged in urban development, boosted economic growth, and ensured a better life in Hong Kong and Macao, becoming the largest project contractor, the largest Chinese-funded real estate developer, the largest public facility manager, and a leading mainland real estate company in Hong Kong and Macau. The company served the national strategy of the Hong Kong-Macao Greater Bay Area, contributing to the long-term prosperity and stability of Hong Kong.

Assisting Hong Kong to Tide Over the Pandemic

In 2022, amid the fifth wave of COVID-19 in Hong Kong, which dealt a heavy blow to people's health and the local economy. CSCEC made overall arrangements, and acted quickly. We helped build community quarantine and treatment facilities (mobile cabin hospitals) to assist Hong Kong in fighting the virus.



Fanling mobile cabin hospital project



Hung Shui Kiu community quarantine facilities



Case

Completing the Tsing Yi Mobile Cabin Hospital

On February 22, 2022, China State Construction International Holdings Limited made every effort to build the Tsing Yi mobile cabin hospital supported by the central government. The number of workers on site reached over 1,800, including about 300 mainland employees and more than 1,500 Hong Kong workers. The construction was advanced 24/7. The Tsing Yi mobile cabin hospital covers an area of about 60,000 square meters. After a week of construction, it was officially completed on February 28, providing 3,900 isolation beds for Hong Kong. The project was put into operation upon delivery. On the afternoon of March 1, the first group of COVID-19 patients were admitted into the Tsing Yi mobile cabin hospital.



Tsing Yi mobile cabin hospital

Valuing Projects in Hong Kong to Help Each Other

CSCEC attaches great importance to COVID-19 projects in Hong Kong. Zheng Xuexuan, Chairman of China State Construction, and Chairman of CSCEC, immediately instructed the whole group to complete the projects and organized special meetings. On February 27, 2022, CSCEC held a meeting involving members of the top management to support projects in Hong Kong and tried our best to deliver high-quality projects. We sent a task force to coordinate projects and help solve the problems. We also selected experienced employees to form a COVID-19 task force for relevant work.

CSCEC undertook ten central-government-supported projects including six mobile cabin hospitals in Tsing Yi, the former Boxes shopping mall, Hong Kong Port, Fanling Ma Sik Road, Hung Shui Kiu, and Yuen Long Tam Mei, two permanent community quarantine and isolation facilities in Penny's Bay and Kai Tak, and the Lok Ma Chau emergency hospital and the mobile cabin hospital. To facilitate the organization of construction resources for the Lok Ma Chau Loop emergency hospital, CSCEC Bridge erected two steel bridges on the Shenzhen River within seven days, connecting Shenzhen and Lok Ma Chau Loop by utilizing mainland resources.



Building a Mobile Cabin Hospital in the Former Boxes Shopping Mall

On February 22, 2022, China State Construction International Holdings Limited braved the elements and started to build a mobile cabin hospital in the former Boxes shopping mall. The project took 14 days and was completed on March 7 and accepted on March 8. The former Boxes shopping mall mobile cabin hospital consisted of modular cabins. Each room was equipped with basic furniture, bedding, air conditioners, smoke detectors, fire extinguishers, and other facilities. The hospital covered an area of about 38,000 square meters with a construction area of about 15,000 square meters. There were 720 isolation rooms providing over 2,800 isolation beds. The project, after completed, would help Hong Kong better treat COVID-19 patients.



A mobile cabin hospital in the former Boxes shopping mall



Building the First Phase of the Lok Ma Chau Emergency Hospital

The Lok Ma Chau emergency hospital project constructed by China Construction Steel Structure Corp. Ltd is located in the Lok Ma Chau Loop. The first phase covers an area of about 28,400 square meters, with 4,109 cabins and ancillary facilities. The construction lasts 30 days. The first phase of the hospital is equipped with operating rooms, CT rooms, ICU wards, as well as a negative pressure ward with 500 beds. This can effectively help Hong Kong treat COVID-19 patients. On April 7, 2022, the first phase of the project was officially delivered.

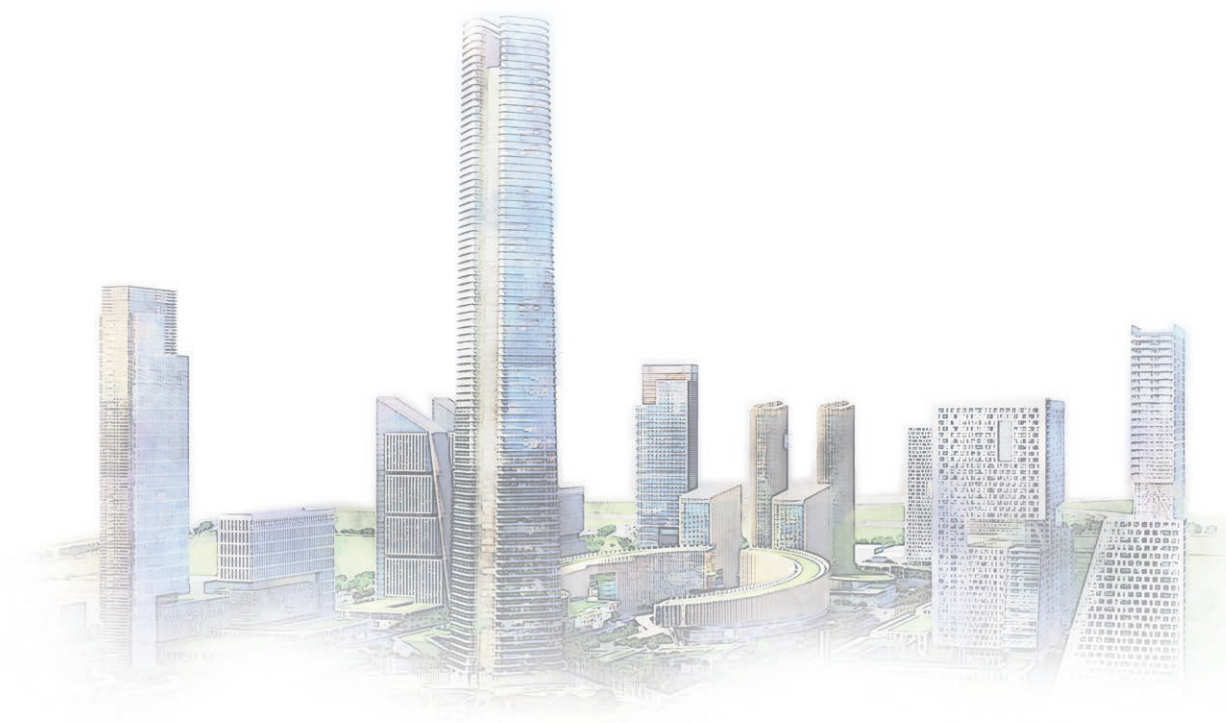


The First Phase of the Lok Ma Chau emergency hospital

Go aboard for BRI Development



CSCEC is the earliest investment and construction company in China to go global. After decades of overseas development, we have established more than 100 branches around the world with over 8,000 construction projects in more than 140 countries and regions. Based on our faithful contract performance, CSCEC has repeatedly won the trust and recognition from international partners with excellent quality and service, shaping CSCEC's golden image across the world.



CSCEC's Overseas Development

The period of the "great overseas" strategy: In response to the Belt and Road Initiative, we seize opportunities, leverage the power of the whole group, adjust overseas business, and build a "great overseas platform." We consolidate and expand overseas business, become more internationalized, and improve our core competitiveness in the international arena.

After 2013

The period of regional focus. We concentrated resources on several areas with stable output such as North Africa, the Middle East, Southeast Asia, Hong Kong, Macao, and North America.

Between 2000 and 2013

The period of development and exploration. Our business gradually shifted from diplomacy-oriented to business-oriented. Building on the original economic aid business, we rapidly expanded to the Middle East, North Africa, Southeast Asia, Hong Kong and Macao, and other countries and broke into developed economies such as the United States and Singapore.

Between 1979 and 2000

Before 1979

In 1979, We signed the first labor export contract with the Iraqi government after the founding of the People's Republic of China, marking the first step of a Chinese constructor into the international construction market.



We implement the “overseas first” strategy by promoting pragmatic and win-win cooperation with relevant countries and regions and following the principle of extensive consultation, joint contribution, and shared benefits. Based on major infrastructure and projects for people’s life, we give full play to the advantages of our complete industry chain, serve the economic development of the host country, and contribute to high-quality BRI cooperation. China Construction America (CCA) ranked 54th in the list of ENR 2021 Top 100 Green Building Contractors. China Construction (South Pacific) Development Co Pte Ltd received three “BCA Construction Excellence Awards” and one “Platinum Award” for quality construction firms.

Building Landmark Projects, Making Happy Environment

By contributing China’s wisdom, technology, and standards, we have delivered multiple overseas landmark projects to help renew local cities, improve the functions and quality of local cities, and build high-quality projects. As a result, we have been highly recognized by local governments and people, setting up a great image of CSCEC.



Case

Building the New Alamein City Super High-rise Complex project

The New Alamein City super high-rise complex constructed by CSCEC is located on the Mediterranean coast of northern Egypt, with a total construction area of about 1.1 million square meters. CSCEC designed and built a well-decorated 300-meter tower building and four 200-meter apartment buildings, and some small municipal projects. It is the largest spot exchange project signed by a Chinese company in Egypt. Once completed, it will become another new landmark of Sino-Egyptian cooperation under the BRI.



The New Alamein City Super High-rise Complex project



Case

Building the Israel Haifa New Port Project

The Israel Haifa new port project (phase I) built by China Construction Harbor and Channel Engineering Bureau Group Co., Ltd. is the first large-scale port newly opened in Israel in the past 60 years. It was successfully opened in September 2021. The company overcame multiple difficulties such as the raging COVID-19 and labor shortages and efficiently built Haifa port into an advanced and green terminal on the east coast of the Mediterranean. The project, known as “the construction project by a Chinese-funded enterprise with the fastest progress during COVID-19 in Israel”, will become Israel’s largest container center and an important trade hub for exports to the European market after being put into operation.



The Israel Haifa New Port project

Building Projects for People, Making Comfortable Environment

We build and invest in projects, construct overseas infrastructure and projects for people's life, and create high-quality overseas aid projects. We also facilitate infrastructure connectivity, drive economic development, and create a happy space for local areas that gives people benefits.



Case

Expanding the Suvarnabhumi Airport in Thailand

In July 2021, the Suvarnabhumi Airport expansion project constructed by CSCEC International Operations, China Construction Eighth Engineering Division Corp., Ltd., and China Construction Steel Structure Corp. Ltd was handed over. The expansion project is one of the important projects under Thailand's "Eastern Economic Corridor" and the "Thailand 4.0" economic strategy. The new terminal building covered an area of 216,000 square meters and could accommodate 60 million per year from the previous 45 million. It could effectively reduce excessive passenger pressure in the old terminal and boost the tourism industry in Thailand.



The new terminal project at Suvarnabhumi Airport

Supporting Industrial Development, Achieving Win-win Results

During the construction, we cooperate with local partners such as building material suppliers, machinery and equipment lessors, professional subcontractors, and local labor service providers to meet the needs of the project site. By doing so, we stimulate the development of local upstream and downstream construction players and train construction professionals, achieving mutual benefits and win-win outcomes.



Case

Supporting the Bangladesh-China Friendship Exhibition Center project

In October 2021, in Dhaka, the capital of Bangladesh, the Bangladesh-China Friendship Exhibition Center constructed by CSCEC, was officially opened. The project covers an area of 80,000 square meters, including the exhibition hall of 800 booths, public and technical supporting facilities. It is a project aided by the Chinese government and serves as a landmark BRI project. Meanwhile, during the construction, the project provided more than 2,000 jobs for locals and carried out technical training for more than 1,000 person-time. We also trained a group of construction professionals, who have become an important force in local infrastructure building.



The Bangladesh-China Friendship Exhibition Center project



A Friendship Card of China

CSCEC promotes high-quality BRI development, fully respects the culture of host countries, and studies recognized CSR standards at home and abroad and cross-cultural integration based on the needs of stakeholders in different regions and cultures. We also deepen people-to-people and cultural exchanges and demonstrate the friendship between China and other countries.



Inviting international friends to participate in the open day

Building an International Communication Structure

We continue to enhance the “113” international communication structure, create high-standard cross-cultural integration pilot programs in Egypt, Singapore, and Malaysia, and promote international communication in 20 countries (regions).

Building an International Communication Brand

Based on the “Witness Happiness” CSR brand, we have organized 65 CSR events, cultural exchanges, and open day activities and established the “CSCEC Happiness Library” in countries along the BRI where our projects are located, effectively promoting cultural sharing and people-to-people exchanges.

Improving the Cultural Integration Mechanism

We continue to deepen the “1+N” (one guide for top-level design + n country-based implementation guides) new model to study and promote cultural integration.

Developing International Communication Teams

We carry out cultural integration training and conclude the “Three-Year Hundred Talents Training Program”. We also select and train 340 employees in charge of overseas communication, “Belt and Road” storytellers, and messengers of Chinese culture.



Carrying out the “CSCEC Happiness Library” activity



Carrying out international communication training



A Spiritual Card of China

When going global, CSCEC encountered risks such as the Gulf War, Algeria's earthquake, and the Asian financial crisis. However, with our grit, resilience, and persistence, we forged ahead and continued to be innovative and meticulous in our overseas development, showing China's spirit to the world.



Overseas COVID-19 control

Since the outbreak of COVID-19, CSCEC has made pandemic control the top priority, guided employees to strictly abide by COVID-19 protocols, coordinated COVID-19 response and business activities, and normalized COVID-19 prevention and control to build a strong defense.

We establish and improve the COVID-19 prevention mechanism. After the outbreak, we soon established an overseas pandemic control task force, set up a special fund, and put in place a 24-hour emergency liaison mechanism, a joint working mechanism for key countries, and an unnoticed inspection mechanism for overseas institutions and projects. We have convened ten group-wide overseas pandemic control meetings to detail prevention measures. Under the normalized COVID-19 response, overseas institutions and projects have taken practical and meticulous measures to ensure the health and safety of front-line employees.

We build a solid healthcare defense. We were among the first to send medical teams overseas. In total, we have sent 47 medical staff in 9 groups, effectively improving COVID-19 response and effect and playing the role of a "stabilizer". Based on the actual situation, various overseas institutions and projects have built isolation sites in project camps, deepened cooperation with local medical institutions, and formulated emergency plans in advance to boost confidence in fighting the virus.

We send care to employees. We have created a new medical service plan for overseas employees and their family members, providing nearly 14,000 overseas employees and their families with video consultation, medical assistance, and other special services and creating an overseas exclusive medical service system. Enterprises at all levels have provided work shifts, pandemic allowances, psychological counseling, and family care so that employees and their families can feel at ease.

We strengthen project performance. Affected by factors such as COVID-19 and clogged supply chains, we faced increasing pressure on project performance and multiple challenges in controlling the construction length, project quality, and cost-effectiveness. Recognizing that project performance is vital overall and in the long run, subsidiaries and projects have delivered their project performance responsibilities as scheduled.



Fighting the virus together abroad



Coordination

Creating Value for Shareholders

Coordination is essential for the sustainable and sound development. Benchmarking against world-class enterprises, CSCEC fully implements the new development philosophy with corporate governance, so as to transform its growth model and prevent and defuse major risks. CSCEC also optimizes its business structure to realize the coordinated development of multiple businesses as well as improve business quality and efficiency. CSCEC strives to improve in profitability, operating capacity and solvency, while enhancing the value creating capability of “Constructed by China”.

General Meetings
of Shareholders

4 times

Legal reviews

8,231 projects

Legal training covered

12,784 person-time

Project audit
completion rate

153 %

- Standardizing the corporate governance structure
- Building a world-class law-based enterprise
- Accelerating the digital transformation of the construction industry



Modern Corporate Governance

CSCEC has established a corporate governance mechanism with legal and transparent powers and responsibilities in coordinated and balanced operation. Paying close attention to the key parts of corporate governance reform, CSCEC determines the powers, responsibilities and working procedures of the Board of Directors and the management all based on its actual situation, so as to ensure the effective role of each governance body in improving the efficiency of corporate governance.



Corporate governance

We have established the institutional framework of “four rules and five lists” and formulated 57 measures to strengthen the Board of Directors and give full play to its function in “setting strategies, making decisions and preventing risks”, so that the independent directors have put forward several guiding opinions for the reform and development of the Company with the more standard and effective daily operation. In 2021, we held 4 General Meeting of Shareholders, 15 meetings for the Board of Directors and 17 meetings for specialized committees of the Board of Directors. We were selected as Shanghai Stock Exchange’s sample stock in the “corporate governance” sector for 11 consecutive years.



The launch of action on corporate governance



Information disclosure

We improve the information disclosure system in accordance with the new *Securities Law* and other new regulations. For the needs of investors, we disclose the Company’s major decision-making matters and development timely, accurately and completely to protect the rights and interests of investors. We disclosed 149 announcements and documents throughout the year, with a compliance rate of 100%, realizing “zero inquiry”. We also continue to publish regular reports in Chinese and English to meet the needs of international investors and partners and make the Company increasingly internationally recognizable, as the English version of the 2020 annual report won the international ARC Award. We released our first report on investor protection, organized 5 anti-road show activities, answered over 200 phone calls from investors, replied to over 30 emails, and answered 307 questions from investors.



Case

Investors Open Day

On July 22, 2021, the 36th session of CSCEC’s “New Infrastructure Construction” Investors Open Day and Public Open Day of “Witness a Glorious History, Chase a Shared Dream” was held in Xuzhou, Jiangsu Province. Hosted by CSCEC and undertaken by China Construction Infrastructure Co., Ltd., the event invited more than 40 participants, including shareholders, securities analysts, fund managers and news media reporters from more than 30 enterprises and institutions such as CICC, CITIC Securities and Guosheng Securities.



“New Infrastructure Construction” Investors Open Day

Preventing and Defusing Risks

With the idea of “comprehensive security” and guided by the goal of building a world-class law-based enterprise, CSCEC focuses on risk management to build an honest and compliant enterprise with compliance management as the basis and legal system construction as the support, so as to ensure corporate security and contribute to national security.

Risk control

Sticking to the bottom line, we strengthen the awareness of risk management, fulfill the responsibility of risk management, and establish a complete risk management system to improve the efficiency of risk management and control, and build the “three lines of defense” for risk management.

Carrying out regular questionnaire survey on major risks and preparing the major risk assessment report.

Conducting the investigation and rectification of potential risks in ten areas, clarifying the investigation focus and responsibilities, urging the responsible units to formulate measures and make effective rectifications.

Issuing the *Notice on Further Strengthening the submission of Major Risk Compliance Events* to clarify the reporting scope and mechanism, optimize the reporting procedures, and carry out regular risk monitoring.

Case

The preparation of the *Standard for Hierarchical Management and Control of Construction Quality Risks*

In order to standardize the risk management and control of project quality, China Construction Eighth Engineering Division Corp., Ltd. started the preparation of the *Standard for Hierarchical Management and Control of Construction Quality Risks*, including the quality risk description, control measures, risk level, control level, responsible department, risk improvement, etc. The subordinate units responded quickly and set up a preparation team to clarify the division of responsibilities and make a preparation plan, so as to ensure that the standard to be released by the end of June 2022.



The preparation of the Standard

Law-based governance

We have completed the *Special Plan for the Law-based Governance During the 14th Five-Year Plan Period* after a systematic study of the new tasks of law-based governance, setting the goal of “becoming a world-class enterprise in law-based governance. We have also formulated the *8th Five-Year Plan for Publicity and Education on the Rule of Law (2021-2025)* to determine the direction of the law-based governance in the next five years. In 2021, we completed 8,231 legal reviews and organized legal training for 12,784 participants.

Law popularization

China Construction Second Engineering Bureau Ltd. integrated the emergency management and law popularization knowledge competition with the emergency skills publicity and voluntary service to expand the coverage of law popularization. It carried out both online and offline emergency skills training for young volunteers and organized law popularization by interpreting emergency legal knowledge and on-site simulation. It assessed the volunteers in knowledge and practices and young volunteers went to communities and squares after obtaining the certificate to publicize emergency skills, thus forming a good atmosphere of respecting, learning, abiding by and using the law.



Constitution popularization

Compliance management



We fully integrate compliance management, risk management, internal control and the safety, quality and environment system, incorporating compliance management into the Company's management system, management process, business process and daily management with full implementation. We combine compliance management with the Company's comprehensive internal control, so as to carry out various business activities in accordance with the law.

- Incorporating compliance management into the Group's planning during the 14th Five-Year Plan period and the special plan for the law-based governance during the 14th Five-Year Plan period, improving the special systems related to compliance management, and guiding subsidiaries to formulate the *Compliance Management Measures*, *Compliance Management Manual* and other systems.
- Promoting informatization and sorting out the compliance control processes for the investment system, "three majors and one large" system (Decisions on major issues, appointment and removal of major officials, decisions on major investment projects, and use of large amounts of funds), audit system, supervision and accountability system, inspection system, financial system and so on.
- Setting up part-time posts on compliance management to strengthen the compliance management talent team, strengthening compliance management training and integrity training, and assigning compliance officers in overseas branches to integrate compliance management into the whole process of overseas market and project management.

Overseas work conference and compliance management meeting

The meeting stressed that CSCEC shall cultivate more large-scale output by optimizing the market layout, promote the transformation and upgrading by highlighting its core advantages and improving the industrial chain where we fall short. Also, the Company shall consolidate the foundation of overseas high-quality development with high-quality performance, ensure stable and sustainable overseas development with good risk prevention and compliance management, and strengthen the intensive and efficient management support of the two-grade headquarters while further enhancing the development of overseas branches.



The overseas work conference



Case

Overseas training on compliance management

China Construction America (CCA) held the annual compliance training in the form of online training and distance video learning, for more than 140 management backbones and employees from the United States, Canada, Panama, Bahamas, Argentina and China to learn and exchange on key issues of compliance,



The compliance training by CCA



Strengthening Internal Audits

CSCEC has built a centralized, comprehensive, authoritative and efficient audit and supervision system, and enhanced the internal audit management mechanism to continuously improve the supervision efficiency. In 2021, we carried out 2,400 project audits, with a completion rate of 153%.

Strengthening the development of the audit system and building a multi-dimensional assessment system for the annual audits of the subsidiaries through the fine examination of 9 major items and 36 sub items.

Establishing a training mechanism that could be shared online within a certain region and strengthening the management of audit principals to promote the all-round development of audit talents.

Strengthening rectification to improve the quality and efficiency of audit management, with 304 systems revised and 180 new systems formulated.



Case

A company fails to hold cost analysis meeting as scheduled

The business management department of a certain company shall hold cost analysis meetings on a quarterly basis according to regulations to analyze and summarize the cost management. The inspection found that the company should have held four quarterly cost analysis meetings from October 2020 to the end of September 2021, but there were actually two meetings. The fourth quarter meeting in 2020 and the first quarter meeting in 2021 were even held together as one. We immediately set rectification measures and urged relevant departments, person in charge and project managers to complete the rectification according to the requirements and strictly abide by relevant regulations.

Optimizing Business Structure

To optimize its business structure, CSCEC focuses on quality, efficiency and innovation to enhance prospective studies and empower our construction business with informatization, digital transformation as well as smart technologies. We set targets for the industrial transformation and upgrading while investing more resources into promising emerging businesses, so as to form a diversified business pattern with new supporting industries.



Smart operation system for agricultural sewage treatment

The Smart operation system for agricultural sewage treatment developed by China Construction Eco-friendly Group Co., Ltd. turns the on-site sewage treatment terminal to be an automatic one and ensures the security of the site with the cloud platform as the data center and the smart inspection equipment as the support. With the advantage of its smart data analysis technology, the system has promoted the digital transformation of multiple business operation and management, and expanded the application of the digital smart operation system, achieving ecological, social as well as economic benefits. It has provided the sewage treatment solutions for 37 towns, 3,095 villages and more than 250,000 households, thus improving the rural living environment. In 2021, the Smart operation system for agricultural sewage treatment was selected as an excellent case among typical cases of SOEs' digital transformation by the SASAC.

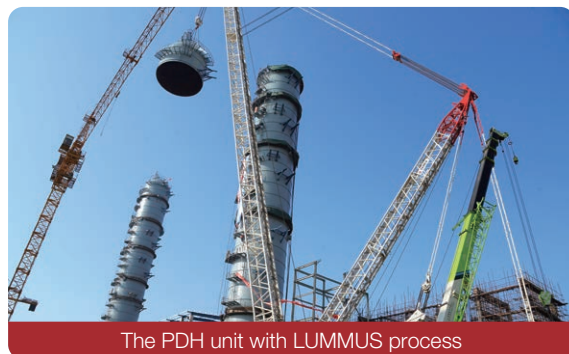


The Smart operation system for agricultural sewage treatment



PDH unit with LUMMUS process

The PDH unit with LUMMUS process developed and produced by China Construction Equipment & Engineering Co., Ltd. has the highest market share in the world for three consecutive years and has won the title of "single champion product in manufacturing industry" jointly issued by the Ministry of Industry and Information Technology and China Federation of Industrial Economics. It is China's first large-scale PHD units by field manufacturing and the company is leading the chemical equipment manufacturing industry in terms of the field manufacturing of large towers and reactors. As of November 2021, the company's PDH unit with LUMMUS process owned a market share of 59.8%.



The PDH unit with LUMMUS process



Innovation

Empowering Development

CSCEC is committed to the innovation-driven development strategy, as innovation is the primary driving force for development. Taking the national strategy and market demand as the guide, CSCEC promotes its comprehensive innovation by scientific and technological innovation, model innovation and management innovation, aiming to become an innovative world-class enterprise.

R&D investment

RMB **39.9** billion

National Science and
Technology Progress Award

5

Tien-Yow Jeme Civil Engineering Prize

15 projects

- The first batch of 8 CSCEC scientific and technological innovation platforms were established
- CSCEC's Special Plan for Science and Technology during the 14th Five-Year Plan period was formulated

Deepening SOE Reform

CSCEC takes innovation as the primary driving force for development and leverages the key role of reform to further the three-year action plan for SOE reform and enhance its competitiveness, innovation, control, influence as well as anti-risk ability.

- By the end of 2021, the Group had organized 12 meetings of the leading group for the Group's three-year action plan (10 meetings in 2021), and set up special working groups for reform.
- We have achieved phased objectives as scheduled in the Group's 105 reform tasks and 3,700 reform measures of its subsidiaries. Operating subsidiaries at all levels implement the tenure system and contractual management, and 64 subsidiaries have launched the reform of the professional manager system.
- We won five "benchmarks" in SASAC's management benchmarking action, and our two "demonstration enterprises for technological reform" were both rated as "benchmarks" in the special evaluation.



CCSTC rated as AA benchmark among SASAC's demonstration enterprises for technological reform

Taking the SASAC's "action plan for technological reform of demonstration enterprises" as an opportunity, China Construction Science & Technology Group Co., Ltd. (CCSTC) explores reform mainly in corporate governance, market-oriented employment, incentives and restrictions, technological innovation. In November 2021, CCSTC was rated as an AA benchmark among SASAC's demonstration enterprises for technological reform, contributing to the SASAC's "action plan for technological reform of demonstration enterprises".



Symposium of demonstration enterprises



New "urban operation +" business management mode

China Construction Seventh Engineering Division Corp., Ltd. established a new "urban operation +" business management mode. Known as the "3 + 2" mode, it covers three mature sectors: basic urban operation, value-added asset operation and landscape construction & operation, as well as two emerging sectors: industrial investment promotion service and industrial investment financial service. The "urban operation +" business management mode has been applied in the international eco-aquapolis project in Zhengzhou, good social, economic and brand benefits.



The international eco-aquapolis project in Zhengzhou

Signing of tenure system and contractual management of managerial members

To promote the tenure system and contractual management of the managerial members, China Construction Science and Industry Corporation Ltd. completed the signing of the post appointment agreement, the tenure as well as the letter of responsibility for the annual business performance objectives with the chairman and the managerial members, making contractual agreements on the tenure, scope of responsibilities, annual and periodical performance indicators, assessment contents and methods of the managerial members based on the fixed tenure and contractual relationship, so as to realize the tenure system and contractual management of the managerial members.



The press conference

Enhancing Technological Innovation

CSCEC pursues an innovation-driven business model to realize connotative growth. Being industry-orientation, CSCEC strengthens the research on key technologies, common technologies and cutting-edge technologies in the construction industry, striving to be the source of original technologies and the leader of the modern industrial chain. In 2021, the Company invested RMB 39.9 billion in research and development, and had 104,000 employees in intermediate technical positions and above, accounting for 28% of the total. In 2021, the Company was granted 12,233 patents, of which 876 were patents for inventions. We won 5 National Science and Technology Progress Award, including 2 first prizes, and 15 projects won the Tien-Yow Jeme Civil Engineering Prize. We hit a record high in both the number and quality of awards.

Strengthening the leading role of strategies

Focusing on the “one creation and five aspects of strength” strategic goal and “strong innovation leadership”, we have held the annual meeting of leading group on technological innovation to deliberate on major technological innovation issues of the Company. Guided by the development needs of the country, industry and the Company, we have compiled the Special Plan for Science and Technology during the 14th Five-Year Plan period and also established 8 CSCEC scientific and technological innovation platforms, striving to build a core CSCEC scientific and technological innovation platform with independent innovation ability, value creativity and innovation leadership.



The launching ceremony of CSCEC scientific and technological innovation platforms

Strengthening talent cultivation

We have issued the talent plan during the 14th Five-Year Plan period and launched the “seven key talent projects. To promote the cultivation talent teams in key fields, we provide customized training plan for reserve academicians and masters, and support young technologists to undertake major tasks, so as to stimulate the creativity of all kinds of talents. We also hire and train high-caliber talents, especially strategic scientists and high-level talents with the potential of becoming strategic scientists, thus creating an innovation atmosphere and enhancing our competitiveness in scientific and technological innovation. The Yang Ying master studio of China Construction Fifth Engineering Division Corp., Ltd., opened in December 2021, which was of great significance for the Company to build its original design ability and design innovation leadership in the survey and design industry.



Technological innovation

Making full use of rich application scenarios and massive data resources, we have implemented digital upgrading and smart transformation by taking the “CSCEC 136 project” as an opportunity to transform our advantages in traditional industries into the core competitiveness in the development of digital industry, thus promoting green, smart and industrialized construction and contributing to a greener, smarter and more efficient brand of “Constructed by China”.

Smart construction

Starting from construction, we actively renovated and optimized production equipment, promoted the advanced production control system, and facilitated the upgrading of smart factories and smart construction sites. In 2021, we launched the “smart construction site” campaign in more than 1,000 demonstration projects to realize digital, smart and lean construction management.



Case

5G smart construction platform

With the overall objective of building a “construction brain”, China Construction Third Engineering Division Corp., Ltd., has gradually realized the full production factors, full data connection and full management service by building a 5G smart construction platform. With the eight key factors of site control and safety, quality, technology, time limit, environment, equipment, labor and material management, the platform equips enterprises with the five smart abilities including smart management, smart data collection, smart decision-making support, smart knowledge sharing and smart site control.



The 5G smart construction platform



Case

Digital twin city

The CIM twin basic platform of CSCEC Electronic Information Technology Co., Ltd. reconstructs the three-dimensional model of cities through the digital twin technology. The digital twin CIM platform maps the roads, buildings, waters, vegetation, facilities and other objects of the physical city in the digital twin city, restoring every detail of the city while realizing the reprocessing and innovation of urban construction, operation, management and service. Through the integration with the perception data of IoT, the platform can fully perceive, interconnect and analyze cities with full response and application, so as to achieve efficient allocation of public resources and proper handling of urban events, with increasingly delicacy and smart urban governance.



Digital twin city

Prefabricated construction

Prefabricated building is an effective path to realize industrialized construction. We actively invest in high-quality resources to cultivate professionals and develop the service ability that can cover the whole life cycle of prefabricated buildings. We integrate digital technologies with factory production and embed the concept of digital development into dozens of smart prefabrication bases in China, so as to ensure component quality and improve efficiency with standardized production while meeting individual needs with customized design to broaden industry boundaries. We have set up China's first technological innovation alliance for prefabricated buildings and issued the "white paper" of prefabricated buildings, gathering authoritative scientific research institutions, well-known universities and benchmarking enterprises in the upstream and downstream of the industrial chain to jointly promote the industrialization of the construction industry.



The "CSCEC smart construction" base of prefabricated buildings put into operation

In 2021, the first "CSCEC smart construction" base of China Construction Fourth Engineering Division Corp., Ltd., was put into operation in Huadu District, Guangzhou. It is committed to becoming a prefabricated construction industrialization base integrating design, production, construction and scientific research, through the development strategy of extending the industrial chain of prefabricated buildings and building a construction industrialization base. The base has 7 smart and advanced component production lines, which can realize smart management, three-dimensional storage and transportation, one-stop logistics and green operation. After it reaches its design capacity, it can undertake EPC projects with a construction area of about 1 million square meters every year, promoting the high-quality development of green building industry in Guangdong-Hong Kong-Macao Greater Bay Area by giving full play to the leading role of China Construction Fourth Engineering Division Corp., Ltd., in the whole industrial chain of the construction industry.



The green construction science and technology Park



Smart production line of steel structure

In the steel structure production base of China Construction Science and Industry Corporation Ltd., in Guangdong, the smart production line of steel structure integrates seven functional modules including smart blanking, component processing, automatic milling, horizontal assembly, welding and straightening, sawing, drilling and locking, robot welding as well as shot blasting and spraying, realizing the joint application of 80% of smart equipment in the process. Each machine has a unique "smart core", which makes each process step smarter, more efficient and interconnected, and promotes the automation of the production of building steel structure.



The smart production line of steel structure



Leading Industry Transformation and Upgrade

Striving to become a leader of the modern industrial chain, CSCEC strengthens the cooperation of the industrial chain to consolidate our foundation and enhance technology, integration and optimization. We integrate the innovation chain with the industrial chain, aiming to become an industrial leader and a supporter for the improvement of industrial basic capacity. In 2021, we formulated 4 national standards and 5 industrial standards and obtained 1,089 certificates for scientific and technological achievements.



The midair building machine



Case

AECMate series BIM software

China State Construction Technical Center has independently developed a series of software and hardware equipment in digital construction, including the AECMate series software, independent and controllable 3D graphics platform, smart construction site management platform and integrated construction management system, smart measurement and control system as well as some hardware equipment. With independent intellectual property rights, the AECMate series BIM software incorporates software and platforms like forward design, reverse rapid modeling, construction process management and etc. to provide solutions to ensure industrial data security. The software has been applied to nearly 1,000 engineering projects.



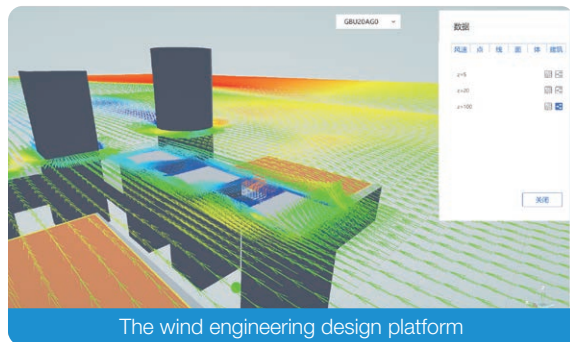
The AECMate series BIM software



Case

Developing independently the wind engineering design platform

China Northeast Architectural Design & Research Institute Co., Ltd. (CNADRI) has mastered the key technology of simulation cloud service and independently developed the "wind engineering design platform", China's first online simulation service platform for structural wind load and wind comfort analysis of buildings -. The platform enables designers to complete the professional numerical wind tunnel simulation with a few simple clicks on the browser. With the digital technology as its core, the platform with typical features of the digital business and development can provide high-quality, low-cost and easy-to-use professional simulation software for the industry.



The wind engineering design platform



Quality

Fulfilling Contracts for Customers

Putting quality first, we strengthen contract fulfillment with integrity based on our valuable investment, meticulous design, ingenious construction and lean management, offering good projects for customers and building a better life while providing high-quality services that support social and economic development and benefit the national economy and the people's livelihood.

China Construction
Engineering Luban Prize

35 projects

National Quality
Project Award

95 projects

Construction contract
performance rate

100 %

Project acceptance rate

100 %

- Strengthening quality management
- Building ingenious projects
- Improving construction services

Creating Excellent Projects

Implementing the strategy of building up China's strength through quality improvement and carrying forward the craftsman spirit, CSCEC is committed to providing high-quality projects that serve social progress and people's livelihood, striving to be a global quality benchmark and create the brand of "Constructed by China".

Quality management

We have implemented the system of *Agreement on Quality Responsibility Objectives of Project Posts*, improved the evaluation mechanism and standards of high-quality projects, distributed the *Manual of Standard Project Quality Management* and compiled the *Guide for Major Quality Risks Management of Key and Special Processes*. We have also organized quality observation tours and seminars on high-quality projects. In 2021, we organized 10,637 quality trainings for our enterprises covering 385,962 participants and won 470 excellent QC achievements by China Construction Industry Association as well as 279 excellent QC achievements by China Association for Construction Enterprise Management.

Water Cube turned into Ice Cube

China Construction First Group Corporation Limited turned the National Aquatics Center into a curling venue with four standard tracks by building the convertible structure and the detachable ice making system. The new smart building management system can not only save more than 30% power by adding ventilation to the membrane structure cavity, but also control and monitor the changes of temperature, humidity, lighting and acoustics in the venue. The transformed National Aquatics Center became the largest curling venue in the history of the Winter Olympics, the world's first venue with curling tracks set up on a swimming pool, and also the world's only Olympic venue that can hold both ice and water sport events.



China's largest carbon fiber cable-stayed highway bridge

The bridge over Tuhai river at Xinghua Road project, Liaocheng, constructed by China Construction Eighth Engineering Division Corp., Ltd., is China's first 1,000-ton carbon fiber cable-stayed vehicular bridge, with a total length of 388 meters. With the first application of carbon fiber cables in domestic vehicular cable-stayed bridges, the bridge has some cables made of carbon fiber reinforced plastics(CFRP), making it the largest carbon fiber anchor system in China. It will become the longest carbon fiber cable-stayed bridge in the world after its completion.





Ingenious projects

We strive to build high-quality projects with strict construction technology and quality control. In 2021, 35 projects won China Construction Engineering Luban Prize, 95 projects won National Quality Project Award, 75 won National Construction Decoration Awards, 59 won China Installation Engineering Quality Awards and 126 won Gold Award of China's Construction Engineering Steel Structure. The Jingdezhen Imperial Kiln Museum built by China Construction First Group Corporation Limited won the Future Architecture Award in Cannes, France and the jury award of Architizer under the Cultural-Museum category, which is known as Oscar in the construction industry.



Universal Studios Beijing

CSCEC has built the first Universal Studios in China, which is the sixth and the largest in the world with the most themed lands. We developed 4D BIM modeling and adopted all-round digital simulation to apply the digital construction technology and modern surveying and mapping technology in the whole life cycle management, so as to reproduce the "famous scenes" in films into the real world for tourists and set a new benchmark for China's cultural tourism".



Kung Fu Panda Land of Awesomeness project



Providing Quality Services

Honoring every commitment to customers, CSCEC continuously improves its professional skills to provide customers with the best solutions and comprehensive services for integrated construction. CSCEC continues to meet and exceed customer needs to win customers' trust and build a long-term and win-win relationship with customers.



Fair marketing

Upholding fair marketing, we inform customers of the credit status, historical performance, engineering construction experience and technical services, etc. to protect the legitimate rights and interests of customers, and build up a good image of the Company in contract fulfillment with integrity. The annual joint signing and review rate, contract explanation rate, and contract planning execution rate have all reached 100%.



High confidentiality

We continue to perform the responsibility for confidentiality by carrying out special inspections on confidential projects. We set the standards for inspection with 8 categories and 36 sub items, and have completed 16 inspections on 13 projects to improve the primary-level confidentiality.

- Carrying out publicity and education on confidentiality and the Confidentiality Month activity to strengthen confidentiality awareness and knowledge.
- Setting up special posts for confidentiality to ensure that customers' bidding information is kept from disclosure.
- Confidential projects shall be equipped with hardware facilities for confidentiality, and the confidentiality work must be checked during project inspection.



Satisfactory services

Based on the interests of customers, we timely respond to customer demands with the help of new media platforms, regularly carry out satisfaction surveys, and cooperate with customers to solve problems affecting project progress to achieve customer satisfaction. After winning a bid, we will match the project management team and determine the main managers of the project, and then issue the project management authorization. The main managers, after taking the posts, will get to know the needs of customers to establish the communication channel with customers. Before the commencement of the project, we will organize relevant experts and project management team to carry out investigation and survey on the construction site, so as to make an all-round project planning, analyze the keys and difficulties of the project, realize reasonable resource allocation and ensure the quality of project management. During the construction, we will establish a whole life cycle project plan, use the plan control platform to conduct regular real-time evaluations, and carry out the multi-dimensional performance supervision of the project to protect the interests of customers. After the completion and delivery of the project, we will provide customers with the delivery quality assurance and operation instructions. Customers can contact us if there is any question so that we can provide services. In 2021, the sampling customer satisfaction scored 95.



Future smart city

CSCEC headquarters (Yizhuang New Town) builds the CSCEC Jiahui Town project, a demonstration project of smart city and carbon neutrality, in the east of Yizhuang new town, Beijing Economic-Technological Development Area. The project will also build a green energy center, an ecological innovation center and a smart municipal service center. Based on 5G technology, the project will make transportation, municipal services, communities and buildings as well as urban operation all into smart ones, thus building a digital twin city. With an area of about 10 square kilometers, the project plans to build a leisure sports center, a culture and art center and a commercial leisure island, making a smart community with high-tech industries.



CSCEC Jiahui Town project



“1 + 3 + N” smart community

China Construction Third Engineering Bureau Group Co., Ltd. has invested in CSCEC Star town, a pilot project of smart community in Hubei Province. Aiming to meet the people's needs for a new lifestyle, the project makes an overall plan for the building of a smart community and a “digital government”. With the “1 + 3 + N” smart community structure, the project explores demonstration and application scenarios such as community culture, community health, volunteer service, community development, government service and social service. The project is going to establish a new operation and service mode of the smart community and set up a local smart system of community service by utilizing smart equipment, providing online service and implementing delicacy management, which can also improve property management and integrate into people's lives by transforming from traditional property management to a digital community operator.



The digital screen



Greenness

Creating a Clean and Low-carbon World

Green is necessary for the orderly development of enterprises. CSCEC implements China's strategy of carbon peak and carbon neutrality, and actively explores the path of green and low-carbon development to form of a green construction system. CSCEC aims to integrate the green ways of working and living into the whole process and fields of our production and operation, thus contributing to a beautiful China and to the global ecological security.

Environmental investment

RMB **630** million

Greening rate for construction sites

100 %

Environmental protection publicity activities organized

3,200

Environmental emergency drills organized

522

- Implementing China's strategy of peaking carbon emissions and achieving carbon neutrality
- Improving the environmental management system
- Promoting ecological progress with green construction



Implementing China's Strategy of Peaking Carbon Emissions and Achieving Carbon Neutrality

CSCEC follows the national requirements for peaking carbon emissions and achieving carbon neutrality goal from the overall and long-term perspective. To cultivate and expand our businesses in green and low-carbon emerging industries, we strengthen the green and low-carbon sectors by shoring up, enhancing, and expanding the industrial chain to be the best comprehensive service provider in planning, design, construction, and products, so that we can play a leading role in promoting the national action plan for peaking carbon emissions in urban and rural construction. The Company's China Overseas Holdings Limited (COHL) added smart control to 5,807 air-conditioners in 2021, and a total of 11,156 have been added by far, with a coverage of projects over 91%, which could save 9.036 million kwh of electricity and reduce carbon dioxide emissions by about 9,000 tons of per year.



Smart and ecological demonstration nuclear power

The Taiping Mountain Nuclear Power Plant in Guangdong constructed by China Construction Electric Power Construction Co., Ltd. realized efficient and green construction by utilizing the full-stage and professional BIM model building and the automatic welding of embedded parts and steel structure. Unit 1 and unit 2 of Taiping Mountain Nuclear Power Plant phase I, after being put into operation, will have an annual power generation capacity of 15 billion kwh, equivalent to reducing carbon dioxide emissions by about 14.82 million tons, sulfur dioxide and nitrogen oxides emissions by about 136,400 tons as well as planting about 98,200 hectares of forest, compared with that of a coal-fired power station of the same capacity. It will provide clean energy for the Guangdong-Hong Kong-Macao Greater Bay Area.



Dome hoisting of the Nuclear Power Plant project



Application of PEDF

The office building project of Shenzhen-Shantou Green Industrial Park constructed by China Construction Science & Technology Group Co., Ltd. (CCSTC) is the world's first operating building with PEDF (photovoltaic, energy storage, direct current and flexibility). As a demonstration for PEDF buildings, the project is able to adjust its own power in a wide range and is compatible with renewable energy power generation facilities, realizing direct current and flexible energy consumption in construction. It can consume a large proportion of renewable energy, generating good social benefits in achieving carbon neutrality for buildings.



The office building project



Strengthening Environmental Management

With the environmental management policy of pursuing a green and coordinated development, CSCEC enhances the investigation and rectification of potential risks to ensure environmental compliance, increases resource investment to promote the application of advanced technical measures, and strengthens training and education to improve environmental protection.



Environmental protection system

We have established a regular working mechanism to hold environmental protection meetings to ensure the implementation of environmental protection requirements. We have formulated the *List of Environmental Protection Responsibilities of CSCEC Headquarters and the Management Measures for Environmental Protection*. Also, we have started the preparation of the *Manual of Standard Environmental Management on Construction Site*, and issued the *Special Work Plan for Environmental Protection*. We have independently developed the smart cloud platform for green construction to conduct real-time monitoring of environmental data with automatic early warning and processing. We have also organized the observation and exchange activities on environmental protection and industrialized construction to improve environmental protection management.



Environmental protection 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, striving to raise employees' environmental management awareness and capabilities. In 2021, we organized 1,500 environmental protection training sessions with more than 49,000 participants, as well as over 3,200 environmental protection publicity activities.



The "Green Call" mobile phone recycling project



The map of the Earth Protection Plan



Green office

To implement the national comprehensive resource conservation strategy, we have carried out the special action of resource conservation to strengthen the conservation awareness of all employees and advocate a simple, moderate, green and low-carbon lifestyle. We have been promoting the intensive use and recycling of resources to improve delicacy management and our cost control ability.



Case

Saving food

The headquarters of China Construction Third Engineering Bureau Group Co., Ltd. makes the "daily food procurement plan" and the "daily meal preparation plan" in strict accordance with the number of employees. The canteen purchases a reasonable amount of food and provides meal in batches and in smaller size to prevent waste of food. It has also established a Food Committee to collect the opinions from representatives of all units and set up a special post to supervise and remind employees of any food waste.



Saving food while cooking

Sticking to Green Operation

Guided by green construction, environmental protection and energy conservation, CSCEC aims to build demonstration projects by exploring in new construction methods, green construction technology and green modern building materials, striving to play a leading role in promoting the development of green buildings.



Pollution prevention and control

In response to the national call for green development, and with the concept of “green construction and ecological coordination”, we choose green construction technologies to minimize construction pollution and beautify construction sites, striving to be a demonstration of green construction and improve the environmental management of the industry.

Dust reduction measures

We conduct real-time monitoring of the dust concentration and implement closed management of the surroundings of the construction site. We equip all operation areas with water sprinkling and dust reduction equipment, harden roads of the site, and ensure that the loaded dust of construction vehicles is not exposed, scattered and overloaded and construction vehicles must be washed when they get in and out of the construction site.

Solid waste control

We control the production of solid waste from the source, upgrade and transform the concrete plant, develop the disposal process of waste slurry and slag for ready-mix plants and promote the recycling of solid waste materials to make the best use of excess materials as well as residual slag and gas.

Noise reduction measures

We use noise testers to monitor the decibel, use machines and tools with low noise and vibration, take sound insulation and vibration isolation measures, adjust the process structure and optimize the working time to reduce construction work at night.

Drainage control

We set up a complete and independent drainage system for rainwater, sewage and flushing water, establish water circulation systems such as building reclaimed water facilities and rainwater reuse, set four levels of sedimentation tanks and regularly clean the sediment in the tanks.

Light pollution control

During construction work at night, we strictly abide by relevant national regulations, add lampshades to the outdoor lighting at night to ensure the light is controlled around the construction site, and take shielding measures for electric welding operation to avoid the leakage of arc flash.

Soil protection

We timely cover the bare soil with sand and gravel or plant fast-growing grass to reduce soil erosion, take measures such as setting surface drainage systems, stabilizing slopes and planting vegetation to reduce soil loss, and set up a separate warehouse for toxic and hazardous materials with waterproof treatment to prevent soil pollution.

Beautifying construction sites



Based on meticulous planning and a reasonable layout of the construction site, we 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, minimizing the negative impact of the construction site on the appearance of the city. 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. We also strengthen the greening of the construction site and enclose and cover the construction site properly.



The environmental construction site by China West Construction Group Co., Ltd.



Case

Green construction combining permanent and temporary facilities

The Qianhuang junction of the Xinmeng River extension project constructed by the Port Company of China Construction Harbour and Channel Engineering Bureau Group Co., Ltd. is a key water conservancy and environmental protection project of the State Council and the also first batch of demonstrations of water transportation quality projects of Jiangsu Province. With the construction concept of “combining permanent and temporary facilities”, the project hardened the temporary access and greened the construction site in light of the later planning of the project, so as to turn the original “one-time investment” into permanent facilities and avoid resource waste and repeated construction to the greatest extent.



The Qianhuang junction of the Xinmeng River extension project

Improving resource utilization efficiency



In the process of project construction management, we have established the green construction management system based on “four savings and one protection” (energy saving, land saving, water saving, material saving and environmental protection), and formed a green construction scheme to save resources to the greatest extent and reduce the negative impact on the environment.



Case

Jasmine on the Bank of Minjiang River

The Strait Culture and Art Center built by the Strait Company of China Construction Seventh Engineering Division Corp., Ltd. carries out green construction in accordance with the concept of “four savings and one protection”. It designs the Minjiang river water source heat pump system based on the geographical advantage of the project , which can save one third of the power cost per year. Also, the project uses water-saving and energy-saving measures such as modular rainwater and storage tank and introduces “sponge” elements such as the rainwater garden, permeable pavement and sunken green belt, so that “green” can be seen everywhere.



The Strait Culture and Art Center project



Case

Green exhibition space in the hometown of pandas

With the concept of integrating design into nature, the giant panda national park built by China Southwest Architecture highlights the integration and openness with the surrounding environment, and collects and filters the rainwater by means of invisible eaves gutters in light of the rainy weather in Ya’an, so that the utilization rate of non-traditional water sources reaches 30.5%, which is more than twice that of normal projects. Integrating green construction into architectural design, the passive measures such as covering the roof with soil, ventilating naturally and storing heat through thick walls enhance its value for ecological demonstration and form an interactive high-performance green building.



The giant panda national park project

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 identify the carrying capacity of the ecological environment where our projects are located, create idyllic urban areas that blend mountains and rivers and protect the natural environment and biodiversity of the local community through assessments of geological impacts and climate risks.



Case

Comprehensive environmental enhancement project

The Third Branch of China Construction Third Engineering Bureau Group Co., Ltd. undertook the PPP Project-Pollution Elimination and Environment Enhancement of Huangxiao River and Jichang River (Phase II), the largest comprehensive water environmental enhancement project in Wuhan and the first shallow sewage transmission tunnel in Central China, and the Jichang River sewage interception box culvert project was completed in March 2021. It is a key project to prevent flood, drain waterlogging, treat sewage and ensure water supply as well as restore the waterfront ecology in Wuhan. It connects the water cycle of the Yangtze River, covering about 130 square kilometers and benefiting more than 2 million residents. After its completion, the sewage of the Jichang River can be treated and discharged up to the standard, which will effectively improve the overall appearance of the water environment in the Jichang River basin and contribute to the great protection of the Yangtze River. The project has been selected into the Global Infrastructure Hub.



The breakthrough of the shield tunnel



Case

Bahe River greenway construction

As a key supporting project for the 14th National Games, the Bahe River greenway construction of the PPP project for the upgrading of the right bank area of the Bahe River in Xi'an's Chanba Ecological District invested by China State Construction Silkroad Construction Investment Group Co., Ltd. is a specific practice to implement the concept of green development, an important part of the Xi'an Sanheyishan Greenway construction, and also a key measure to promote the water treatment in Xi'an. With a length of about 9 kilometers and an upgrading area of about 1.8 million square meters, the project is responsible for the upgrading of urban greenways, squares, existing docks, as well as the building and greening of pedestrian bridges.



The Starting Square



Sharing

Stimulating Talent Vitality

Sharing is the essential requirement for the development of enterprises. Hence CSCEC is committed to building an employee development system with global competitiveness. We hire high-caliber talents worldwide for proper posts and encourage the flow of talents, striving to attract globally competitive talents as many as possible. We form a business community with employees, provide a sustainable career development platform for employees, and share our development fruits with them, so as to drive the common development of employees and the enterprise.

Staff training

4 million person-time

Enjoy special government allowances of the State Council

277 experts

National work safety standardization learning and exchange projects

195

- Optimizing the talent recruitment, employment and training system to build a high-quality talent team
- Strengthening the safety awareness training of employees to create a safe and stable working environment



Strengthening Talent Training

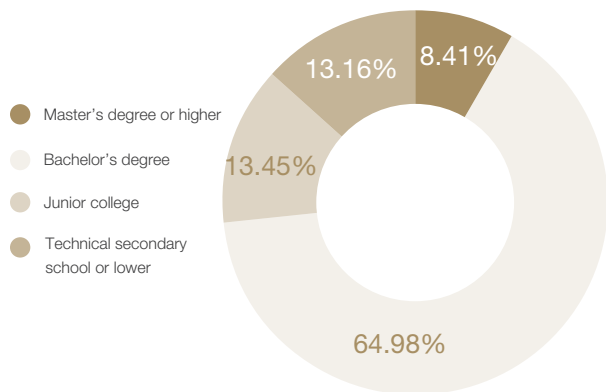
Putting people first, we safeguard the legitimate rights and interests of employees, set promotion channels for them, strengthen talent introduction, and enhance talent training, aiming to build a high-level talent team and give full play to the strategic and decisive role of talent resources in the Company's development.



Protecting the rights of employees

Equal employment

We keep our efforts to ensure equal employment and equal pay for equal work, sign labor contracts according to law, oppose employment discrimination, forced labor and child labor, and maintain a fair and just work environment, so as to protect the legitimate rights and interests of employees. In 2021, CSCEC had 368,327 employees in total, of which 32,075 were overseas employees, 21% were female employees, and female managers accounted for 21% of the management team. In 2021, the turnover rate of employees was 5.94% and we signed labor contracts with all employees.



Democratic management

We keep deepening the democratic management and improving the democratic management system to protect the rights of employees to be the owners of the enterprise, striving to build harmonious and stable labor relations and maximize the vitality and creativity of employees. In 2021, the establishment rate of the labor unions at each level reached 100%, and the employee membership rate was 99%. We play the role of the Workers' Congress to protect employees' rights to be informed about, to participate in, to make decisions on, and to oversee major issues. We have improved the disclosure of corporate affairs to make public the hot issues concerned by employees, which can let employees get to know the development of the Company and is supported by employees.

Remuneration management

Being market-oriented, we continuously improve the remuneration distribution system and promote the market-oriented reform of remuneration. We provide competitive benefits for employees while paying our dues on endowment insurance, medical insurance, unemployment insurance, employment injury insurance, maternity insurance, and housing provident fund schemes for all employees.



Improving the training system

We have established a systematic talent training plan with corresponding talent training measures to improve our human resources management, ensure standard and sustainable talent training, and create a good working environment for talents. We have issued the talent plan during the 14th Five-Year Plan period, launched the "seven key talent projects" and carried out the "513+X" training project in depth. Also, we implemented the "CSCEC Young Entrepreneur Training Program", and established a pool of high potential talents in various professional fields to stimulate the creativity of all kinds of talents.



"Advocate reading in CSCEC" Lecture

Training young employees with TOD tutorial system

The TOD (Training on Duty) tutorial system is a training method in which experienced senior employees teach the necessary business knowledge, skills and working methods to new young employees. CSCEC Middle East L.L.C. (CSCEC ME) has implemented the TOD tutorial system since 2017. Through regular training, young employees will master various skills required for senior positions within three years. After several years of practice, the TOD tutorial system has covered more than 100 young employees, and 24 young employees have completed the training. The TOD tutorial system provides a solid talent guarantee for the long-term development of the Company.



Training young employees with the TOD tutorial system

Unlocking channels for employee development



We adhere to the strict assessment and promotion system to tap the potential of employees and discover countless talents for the Company. We promote specialization and professionalization, and all subsidiaries have been running the new posts rank system. We get to know employees' demands, guide their career development, conduct promotion and assessment and optimize evaluation methods to encourage employees. By the end of 2021, we had two academicians of the Chinese Academy of Engineering, 13 national engineering survey and design masters, 277 experts entitled to special government allowances from the State Council and 33 China skills award winners and national technical experts.



Zou Bin, a model employee of central SOEs



Ding Weihua, a Chinese person with good deeds



Chen Chongsi, a national moral model



Case

“3 + 1” training system

The Xinhe School of China Construction Fifth Engineering Division Corp., Ltd. has established a “3 + 1” training system covering all levels, lines and aspects of the company’s talent team. By improving the quality and ability of employees and ability of excellent partners for mutual benefit and win-win results, the school has trained and assessed over 600 officials, forming more than 110 professional training summaries and innovative management practice materials for the whole company. The school has also developed more than 700 courses and cases, supporting the talent training for the high-quality development of the company.



Employee training

Building the Line of Defense for Safety

The year 2021 was for CSCEC to strengthen work safety management. Putting people’s safety in the first place, we enhance safety awareness, promote the safety supervision with service management, coordinate safety and development with the guidance of management, and ensure the implementation of safety measures with supervision and assessment.



Strengthening safety management

Focusing on the core idea of “rooting out hidden dangers of accidents”, we issued *CSCEC’s Special Plan for Work Safety during the 14th Five-Year Plan Period* and established the “1312” work safety governance model to effectively prevent all kinds of work safety accidents, and promote the modernization of our work safety governance system and capability. We have established three governance systems, namely, the work safety responsibility system for all employees, the scientific risk prevention and control system and the standard work safety supervision system. We have also improved our professional governance and social governance capabilities, In 2021, CSCEC invested RMB 31.65 billion in work safety. We implemented the requirements of the three-year action plan for workplace safety, made work plans for the year and assumed our due responsibility of work safety.



Building a safety team

Upholding the philosophy of “putting life and safety in the first place”, we continue to carry out activities such as “safety engineer training camp”, “safety pioneer training camp”, and “safety lecturer competition”, “safety engineer lifelong learning plan”, “safety innovation studio” and “safety lecture”, so as to effectively improve the abilities of the full-time safety supervision team, and build an experienced CSCEC safety engineer team that keeps learning, innovating as well as sharing. In 2021, 195 projects under construction were awarded the title of “national work safety standardization learning and exchange project”.



Regular checks on the safety warning signs



Building a safety culture

We held multi-layer safety meetings, opened live classes on infrastructure safety management, carried out activities such as the “Behavior Safety Star” and “Three Iron Laws and Six Disciplines”, integrating the CSCEC safety culture into employees’ awareness, behavior and habits to implement the safety culture of “enhancing safety through positive incentives and keeping in mind the worst-case scenarios”.



Work safety Cartoon



Ensuring safety through technology

We strengthen safety management and pursue a safe development through information-based approaches. We have completed the development of 10 functional modules of “CSCEC smart safety platform”, and applied them in projects to realize real-time supervision, warning and improvement of human behavior, material status, environmental factors and management measures. We strengthen research on safety technology topics to help improve the control of risks and hidden dangers. In 2021, 12 research projects were awarded the second “National Science and Technology Progress Award”, including 1 first prize, 1 second prize and 10 third prizes.



The command center of the smart safety platform



Hazard identification and handling

We strengthen process management and supervision, continue to carry out special work safety governance, and implement various risk prevention and response solutions to prevent any safety accidents and defuse potential risks in advance. In light of our business characteristics, we conduct risk prevention and control, hazard identification and special supervision in important periods, and also carry out re-examinations to strengthen the investigation and rectification of potential safety hazards. In 2021, we identified 3,254 problems and hazards, and issued 280 rectification notices and 19 shutdown notices.



Letting the alarm bells keep ringing

In 2021, a mechanical injury 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, sent the injured personnel to the hospital for 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 mechanical equipment. 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.



Balancing Work and Life for Employees

We pay attention to employee care, provide different kinds of leisure and entertainment activities to support them in developing their own hobbies, so that we can enhance team cohesion and create a pleasant, fair and dynamic workplace. We carry out model worker recuperation, hold group weddings for employees, issue “honorary retirement medals”, and have established 11 cultural and sport associations to organize related activities at regular intervals. In 2021, we took “serve the people with concrete actions” as an important practical lesson to solve the most concerned and realistic problems of employees, formulated 165 measures for the “Ten Difficulties”, and completed the “Ten Ensures” projects that benefited the people, bringing more development fruits to all employees in a fair way.



The brisk walking activity



Group weddings for employees



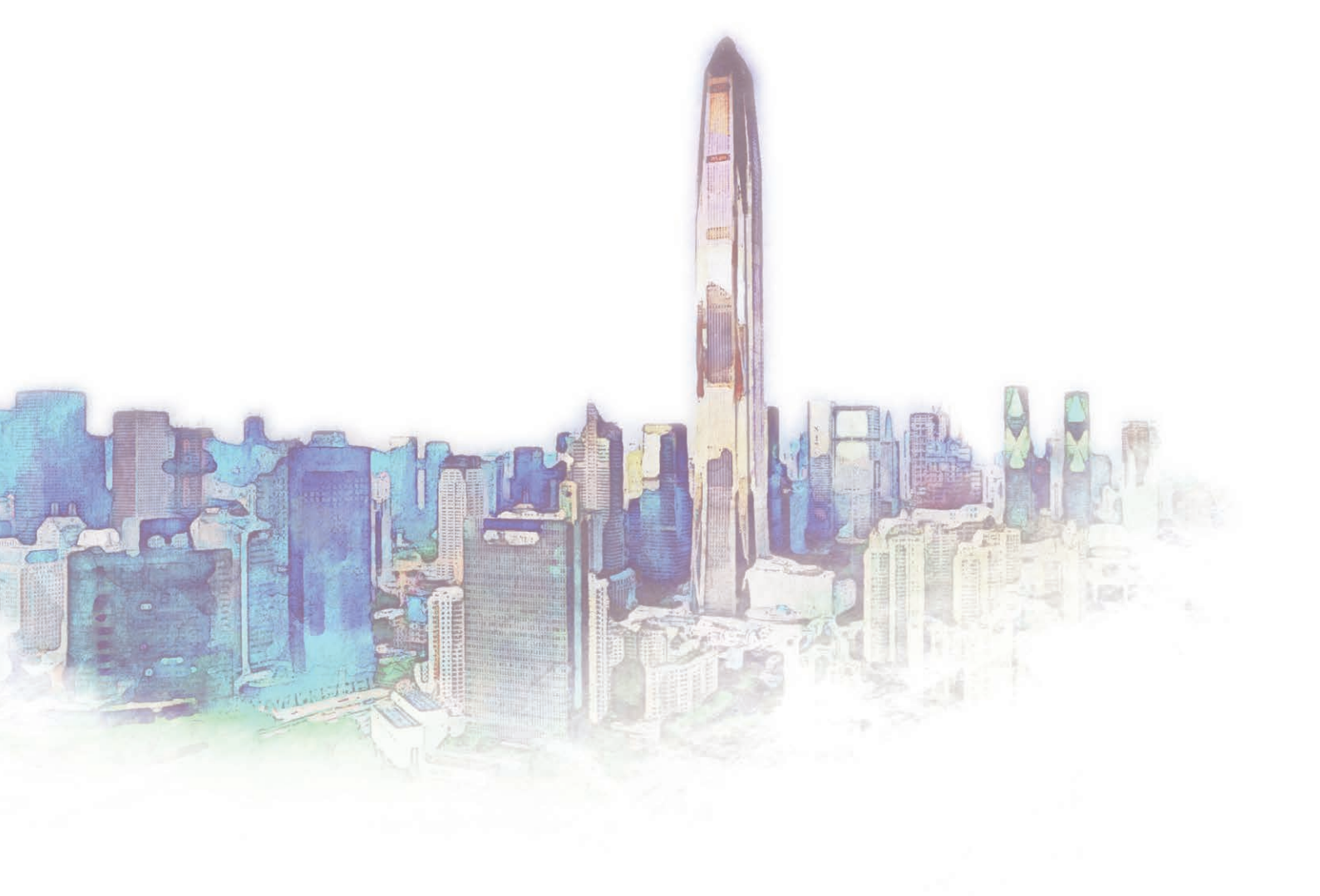
Eid al-adha dinner

Summer tutorial class

China Construction Fifth Engineering Division Corp., Ltd. opened the summer tutorial class for 41 school-age children to go to work with their parents. With the “1 + N” mode, the summer class focused on homework tutoring while also offering courses such as logical thinking, handwriting and painting, as well as some free courses set up in collaboration with external institutions such as dental care and eye care. Also, the summer class organized talent competitions, rope skipping competitions and history story-reading competitions to provide all-round learning services for children.



The summer tutorial class



Openness

Pursuing Win-Win Development

Openness is the only way for the booming development of enterprises. With an international and win-win mindset, CSCEC has improved the system and mechanism of shared development, made efforts to carry out multi-party exchanges and cooperation with global stakeholders and built a value and industrial ecosystem, thus collaborating with each other to assume responsibilities, create values, share interests, as well as serve and integrate into the new development pattern.

Green purchase rate
of bulk commodities

100 %

Newly signed strategic
cooperation agreements

7

Investment in subcontractor training

RMB **250.3** million

- Promoting the modernization of the industry chain and supply chain
- Deepening exchanges and cooperation with stakeholders



Building a Responsible Supply Chain

We work with our partners to explore and build an “open, shared, cooperative and win-win” supply chain, so as to improve the overall supply chain management in the whole industry and further the modernization of the supply chain of the construction industry. In 2021, we reviewed all suppliers and all suppliers/subcontractors of key products passed the certification of the quality, environment and occupational health and safety management system. The responsible procurement rate of CSCEC reached 100%, and the green procurement rate of bulk materials reached 100%.

We promoted the use of information technology in the supply chain. We have established the new e-commerce platform for the construction industry based on the yzw.cn procurement platform. Also, we have established the “7+N” centralized procurement model covering various regions, and set up the “centralized procurement center for all regions.”, so as to optimize the procurement process, reduce procurement cost, provide solutions for the procurement management of small-quantity materials, and improve the overall supply chain management of the whole industry. In 2021, the centralized procurement rate of building materials reached 99%.

We strengthen exchanges and cooperation with suppliers to integrate advantageous resources of both sides and jointly explore efficient cooperation fields and modes in digitalization and informatization with the Internet thinking. 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.



Case

Green “digital procurement and supply chain management” information system

CSCEC Algeria’s digital procurement management system provides a standard procurement process, digital resource and smart compliance control. The system covers supplier development and sourcing, evaluation, risk management, performance management, relationship management, etc., and it also constructs a sustainable and win-win supply chain system through comprehensive supplier review and evaluation process and all-round supplier communication and interaction.



Supplier data analysis demonstration



Case

Circular elevators manufactured through cooperation

China Construction Third Engineering Bureau Group Co., Ltd. has established a deep strategic partnership with Joinhand Construction Machinery Co., Ltd., a hoisting machinery manufacturing enterprise in Hubei Province, to draw on each other’s strengths in the industrial chain. Joinhand Construction Machinery trial manufactures and processes the building materials and construction machinery of China Construction Third Engineering Bureau Group and the latter promotes the new equipment produced by the former, so that the two sides work together to accelerate the transformation of scientific and technological achievements.



Circular elevators manufactured through cooperation



Deepening Mutual Trust and Benefits

CSCEC actively builds platforms for cooperation, and strives to cooperate with local governments, enterprises, universities, research institutes, financial institutions and other global stakeholders to achieve close partnerships, draw on each other's strengths and promote mutual benefits. In 2021, the Company signed seven strategic cooperation agreements.



Government-enterprise cooperation

With our advantages in the construction industry, we strengthen interaction and exchanges with governments at all levels to explore development paths, innovate cooperation methods, expand cooperation fields and promote businesses like urban renewal, renovation of old communities, sewage treatment, and smart city construction with high standard and quality, building win-win government-enterprise cooperation.



Strategic cooperation with Beijing Economic-Technological Development Area

Since CSCEC's signing of the strategic cooperation framework agreement with the Management Committee of the Beijing Economic-Technological Development Area in March 2021, the two sides have made every effort to implement the coordinated development strategy of the Beijing-Tianjin-Hebei Region and serve the capital's construction of the political center, cultural center, technological innovation center and international exchange center. The two sides explore innovative cooperation modes, promote urban construction in a systematic way, and boost industrial development. The enterprises in the area have improved both in number and quality, and the comprehensive development of the area is in steady progress.



Deepening cooperation



University-enterprise cooperation

To actively integrate ourselves into the national basic research innovation system, we have cooperated with Tongji University, Southeast University, Beijing Institute of Technology and etc. to build national key laboratories and research institutes and cultivate high-caliber interdisciplinary talents in fields of discipline development, scientific research achievement transformation, informatization, talent training and so on. We provide topics as well as incentives to scientific research achievements from universities, thus drawing on each other's strength in the industry-university- research cooperation to promote technological innovation of the construction industry and further enhance university-enterprise cooperation.



Strategic cooperation with Tongji University



Cooperation with businesses

We have collaborated with a number of companies in exploring cooperation potentials, improving cooperation levels and innovating cooperation mechanisms based on our respective strengths, so as to draw on each other's strength to jointly serve the national strategy and achieve win-win results.



Strategic cooperation with Beijing Investment Group

In October 2021, CSCEC and Beijing Investment Group signed a strategic cooperation framework agreement. The two sides have maintained good cooperative relations and made fruitful achievements over the past years. In the future, based on our advantages along the entire industry chain, CSCEC will fully implement the coordinated development strategy of the Beijing-Tianjin-Hebei Region, constantly innovate the cooperation mode, jointly gather high-quality resource elements with Beijing Investment Group, and deepen our cooperation in engineering construction, project investment, asset operation and other fields, thus promoting the construction of the Beijing municipal administrative center and serve the high-quality development of the capital.



Signing of the strategic cooperation framework agreement



Bank-enterprise cooperation

We have actively deepened all-round cooperation with banks in supply chain finance, credit consulting and industry-finance integration. We maintain close contact with financial institutions like Bank of China, PICC, China Development Bank, and China Export & Credit Insurance Corporation and so on. Also, we seek support from China Construction Bank, China Everbright Bank and China CITIC Bank, striving to promote the bank-enterprise cooperation for mutual benefit and common development.



Cooperation with associations

Industry Associations Joined by CSCEC (Partial)	Identity
China Enterprise Confederation (China Enterprise Directors Association)	Vice-president Unit
China Chamber of International Commerce	Vice-president Unit
China Construction Industry Association	Vice-president Unit
China Association of Construction Enterprise Management	Vice-president Unit
China International Contractors Association	Vice-president Unit
China Association for Quality	Vice-president Unit
China Association of Work Safety	Vice-president Unit
The China Association For Labour Studies	Vice-president Unit
China Association of Building Energy Efficiency	Vice-president Unit

Industry Associations Joined by CSCEC (Partial)	Identity
The Investment Association of China	Vice-president Unit
Architectural Society of China	Vice-chairman Unit
China Civil Engineering Society	Vice-chairman Unit
China Association for Engineering Construction Standardization	Vice-chairman Unit
China Highway Construction Association	Vice-chairman Unit
China Engineering & Consulting Association	Vice-chairman Unit
Accounting Society of China	Chairman Unit
China Association For Public Companies	Chairman Unit
China Group Companies Association	Chairman Unit



Happiness

Boosting People's Livelihood and Well-being

People's happiness is the ultimate value of enterprises. Striving to become a responsible central SOE, CSCEC ensures and improves people's livelihood while pursuing development, protects the rights and interests of migrant workers and cares for left-behind children. We engage ourselves in local communities to improve infrastructure and participate in social public welfare activities, thus promoting the development of regional communities while continuing to "expand a happy living environment" for people around the world.

Jobs created for migrant workers
2,400,000 +

Fresh college graduates recruited
32,000

Volunteer activities organized
8,000 +

- Taking multiple measures to protect the rights and interests of migrant workers
- Caring for left-behind children
- Participating in public welfare



Protecting the Rights of Migrant Workers

Taking the services and guarantee for migrant workers as a strategic project, CSCEC manages the salary of migrant workers in a separate account, and protects the rights and interests of migrant workers along the whole process. Focusing on the improvement of vocational skills, we deepen the reform of industrial worker cultivation. We have built China's first "learning community for industrial workers", established 191 vocational skills training sites for industrial workers at our key projects, set up 15 provincial industrial workers training bases, and built 3 national demonstration bases for construction workers training (labor bases). Two subsidiaries were selected into the national pilots for the reform of industrial worker cultivation in the transportation construction industry, aiming to build a knowledgeable, skilled and innovative team of high-quality industrial workers.



Case

Constructors' Town

With 1 community service center, 4 residential areas and 2 canteens, the Constructors' Town of the Lin-gang Special Area built by China Construction Eighth Engineering Division Corp., Ltd accommodated over 5,000 construction workers in the peak period. China Construction Eighth Engineering Division Corp., Ltd has built a digital management platform for the Constructors' Town and introduced a third-party property management company. the Constructors' Town also provides services like legal consultation, complaint reception and security guarantee by the joint efforts of police and residents, and organizes colorful cultural activities to build a "standard and smart" community with its own features. To create a livable environment, the Constructors' Town is equipped with multi-function halls, reading rooms, supermarkets, as well as permeable pavers and 5G base stations. And a special bus route also has been set for the convenience of constructors.



Constructors' Town



Case

Afterwork school for migrant workers

The Beijing Branch of China Construction Third Engineering Bureau Group Co., Ltd. uses the afterwork school for migrant workers to organize trainings and has set up a teaching team in collaboration with the local housing and urban-rural development department as well as labor dispatch service providers, helping migrant workers obtain vocational certificates through theoretical knowledge courses, skills training and experience exchange. In 2021, the Beijing Branch organized over 60 professional training sessions on construction, molding, electrical engineering and tower crane through the afterwork school, and nearly 100 migrant workers obtained vocational certificates in the training, which makes the afterwork school for migrant workers a "gas station" to improve professional skills and lay a solid foundation for migrant workers' entrepreneurship and employment.



The afterwork school for migrant workers

Caring for Left-behind Children

CSCEC provides guarantees for children through multiple measures, and guides social forces to strengthen cares for targeted children groups, making CSCEC's efforts in protecting the future of the nation. In 2021, the female workers' committee of the labor union of China State Construction was selected as the national advanced group for the care and protection of rural left-behind children and children in distress.



Zhang Zhaoxiang, General Manager of China State Construction, Director and President of CSCEC, awarded certificates to volunteers

Continuous activities

With the guidance and help of the Ministry of Civil Affairs and the SASAC of the State Council, CSCEC has since 2018 launched the publicity activity to care and protect rural left-behind children at our key project sites nationwide. It has been held for four consecutive years, with a total of 400 sessions and 9 million children have benefited. Subsidiaries at all levels innovate the forms of activities to promote the caring for rural left-behind children in a multi-dimensional and in-depth manner, establishing a "CSCEC model" of caring for rural left-behind children with the characteristics of the construction industry.

In 2021, focusing on the newly revised *Law of the People's Republic of China on the Protection of Minors*, CSCEC organized 100 publicity activities on left-behind children care and protection for migrant workers, so as to gather social forces to create a safer and better environment for the growth of left-behind children and maintain their family ties and cares.



The launch of the publicity platform

Colorful activities

COHL, China Construction Second Engineering Bureau Ltd., CSCEC Xinjiang Construction & Engineering (Group) Co., Ltd. and China Construction Communications Engineering Group Corp., Ltd., invited legal experts, medical experts and volunteers to go to project sites to popularize policies and regulations, physical and mental health, safety knowledge, parent-child communication skills and so on, so as to comprehensively strengthen the liability of guardian of migrant workers for minor children.

China Construction Third Engineering Bureau Group Co., Ltd., China Construction Fangcheng Investment & Development Group Co., Ltd and China Construction Science & Technology Group Co., Ltd. (CCSTC) gave gifts to left-behind children and held a group birthday party for rural left-behind children both online and offline to spread cares from CSCEC.

Volunteer representatives of China Construction Fifth Engineering Division Corp., Ltd., China Construction Industrial & Energy Engineering Group Co., Ltd. (CCIEE), and China Construction Harbour and Channel Engineering Bureau Group Co., Ltd. read out the *Proposal for Caring for Left-behind Children*, and organized migrant workers to jointly launch the initiative of "I am the legal guardian" to call on all social forces to care for rural left-behind children.

China Construction Infrastructure Co., Ltd., China Construction Fourth Engineering Division Corp. Ltd., China Construction Sixth Engineering Bureau Corp., Ltd., China Construction Eighth Engineering Division Corp., Ltd. and China Construction Science and Industry Corporation Ltd. enhanced parent-child interaction by organizing the summer class and the summer camp for left-behind children as well as some family games such as "Dream House" and "Wearing Outfit for My Father".



The initiative of "I am the legal guardian"



Volunteers drawing together left-behind children



Parent-child activities



Left-behind children visiting the East Lake Greenway in Wuhan

To implement "I do practical things for the masses", China Construction First Group Corporation Limited, China Construction Seventh Engineering Division Corp., Ltd., China State Decoration Group Co., Ltd. and China Construction Science and Industry Corporation Ltd. carried out "serve the people with concrete actions" activities to provide assistance for poor families to get rid of poverty and ensure the healthy growth of rural left behind children.

High recognition



"The Ministry of Civil Affairs will continue to implement the key instructions of General Secretary Xi on children as well as the decisions and arrangements of the CPC Central Committee and the State Council. We will promote the care for rural left-behind children and improve our ability of caring and serving minors, ensuring that migrant workers can work without any worries and their children can grow healthily at home."

—Li Wanli, Deputy Director of the Child Welfare Department of the Ministry of Civil Affairs

"SASAC will continue to call on central SOEs to fulfill their social responsibilities and devote themselves to the heartwarming cause of caring for rural left-behind children. We will constantly deepen, enrich and improve the ways to care for rural left-behind children with innovative activity forms and increasing cares, coordinating with all social forces to send more cares to left-behind children."

—Liu Changsen, Deputy Director of the Bureau of Sci-Tech Innovation and Social Responsibility of the SASAC of the State Council

Engaging in Community Development

With the concept of collaboration, participation and shared benefits, CSCEC has organized the activity of “serve the people with concrete actions”, and actively participated in community development. Being detail-oriented, we focus on removing people’s worries and providing services for them, thus showing CSCEC’s mission and responsibility in the new era.

Public welfare

Committed to being a responsible central SOE, we highlight the creation of public welfare value, actively participate in social welfare undertakings and organize various social welfare activities to ensure people’s livelihood, improve people’s life, and contribute to social development. In 2021, CSCEC and its controlling shareholder China State Construction donated a total of RMB165.4 million.

Case

Creating a barrier-free environment

Committed to the research and practice of the construction of a barrier free environment, China Construction Engineering Design & Research Institute Co., Ltd. has established the “CSCEC-barrier-free love” brand with its own features, and set up a designer volunteer team. The *Guidelines for Barrier-free Environment Design and Construction in Jiaxing City* compiled by the volunteer team was released in September 2021 to provide systematic planning guidance, design standards and technical support for the construction of a barrier-free environment in Jiaxing, it also serves as a typical case that can be copied and promoted for the construction of urban barrier-free environment in China.



Research on barrier-free environment

Case

Comprehensive service station for outdoor workers

China Construction Fourth Engineering Division Corp. Ltd. has built comprehensive service stations at the Times City Garden project and Wengma Railway project and etc. for outdoor workers such as sanitation workers, traffic police and on-site operators, so as to provide them with toilets as well as a place for them to drink water, heat meal and have a rest. We have also upgraded the service station with more and more practical services for outdoor workers such as the free haircut service, legal consultation and free physical examination and pulse checking. The service station won the title of “the best site of labor unions for outdoor workers” by the All-China Federation of Trade Unions in 2021.



The comprehensive service station for outdoor workers



Volunteer activities

To promote the volunteer spirit featuring contribution, friendship, mutual support and progress, we continue to carry out institutionalized volunteer service projects regularly and organize volunteers to participate in the frontline of reform and development, economic construction and social services, building volunteer service brands such as Witness Happiness· CSCEC Care, Lanbao Public Welfare and Ten Codes and Nine Rules. In 2021, we organized over 8,000 volunteer activities with more than 160,000 hours of volunteer service.



Volunteer services of the Beijing 2022 Winter Games

CSCEC organized young volunteers to participate in the volunteer services of the Winter Games. They popularized the knowledge about the Olympic sports and the Winter Olympics and contributed to the safety and success of the Winter Games. A total of more than 470 CSCEC employees provided volunteer services and O & M support in 28 venues and various urban volunteer service stations. Besides that, we have one employee who served as a torchbearer, and four employees transferred temporarily to support the Beijing 2022 Winter Games.



Volunteer services of the Beijing 2022 Winter Games



Rescue and relief

Many a little makes a mickle. In the face of the disaster, we actively responded to the government's disaster prevention and emergency notice, and helped in disinfection and the rescue of the affected people, so as to prevent any secondary disasters, minimize casualties and property losses and assist the people back to normal work and life as soon as possible, which was a demonstration of the responsibility of CSCEC in times of crisis.



Disaster relief in Henan

In July 2021, the continuing heavy rainfall brought Henan severe challenges of flood control. More than 7,100 employees from over 100 projects of 19 units of China Construction Seventh Engineering Division Corp., Ltd. in Henan went to the front line of flood control and disaster relief. China Construction Seventh Engineering Division Corp., Ltd. cooperated with the local government to resettle the trapped people and vehicles near the projects, and provided them with free boiled water, quick meals, raincoats, ferries, rest places and so on. For those who failed to return home, the company accommodated over 1,000 affected people in its headquarters, project departments and sales departments.



Disaster relief in Henan



Serving overseas communities

In overseas places in which our projects are operating, we actively fulfill our social responsibilities, strengthen community communication, organize various social welfare activities and enhance voluntary services. We give back to local communities and promote people-to-people connectivity, showing the national image with a good corporate image.



China State Decoration Group Co., Ltd. built the first library in the village with the villagers of Sepekulama



The Cambodia- China Friendship Medical Building



Case

Caring for Nepali children

Most students in the Jianake Primary School are from local poor families while many of them are still using school bags made of leftover clothing, and the teaching conditions of the school are also poor. After knowing that, the Nepal Project Department of CSCEC sent stationery such as schoolbags, as well as sporting goods such as footballs, basketballs and skipping ropes to the children. Chinese employees organize Chinese classes there in their spare time, so that they can get to know about the outside world. Sharma, the headmaster, said, “the gifts sent by Chinese friends have brought happiness to the children. Thank them for their contribution to our local education!”



Chinese classes for Nepali children



Case

Upgrading and reconstruction of rural roads

In order to improve people’s travel conditions, the Sri Lankan government has carried out road reconstruction and road network upgrading. CSCEC’s rural road reconstruction project in Northern Province, Sri Lanka is responsible for the reconstruction of roads distributed in various villages, with a total length of about 100 kilometers. The rural road reconstruction project not only improves the travel conditions for residents, but also creates jobs for them. In order to encourage female employment, the project has set up 30% of posts exclusively for local women.



Upgrading and reconstruction of rural roads

CSR Management

CSR Culture



Taking “expanding a happy living environment for stakeholders” as our own responsibility, we continue to deepen the brand-geared CSR management model, carry out the Witness Happiness-Global Action, contributing to global sustainable development. We regard the country and the people as 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 and doing whatever the people need. We stay confident in our culture, carry forward the profound traditional Chinese culture, and enhance the foundation of CSCEC Spirit, the great national spirit and the spirit of the times as the basis, with core socialist values as the core. We take this as the guide to revise the *Credo of CSCEC* and the *Code of Conduct and Protocol*, and develop a series of cultural education courses and videos.



Credo of CSCEC 2021



Code of Conduct and Protocol 2021

CSR Dissemination



We produced the Remarkable Construction, a 6-episode documentary, together with CCTV and held the “Witness a Glorious History” photography contest to focus on the performance of CSCEC’s responsibility for the country and the people with the best “Constructed by China” works over the past 70 years.

Following the Group’s reform and development strategy, we launched the special publicity on high-quality development and the “Month typical case” publicity of the results of the three-year action of SOE reform. We set up a column on high-quality development and reform & innovation, and published media products such as “business performance on one picture” to show the development trend of CSCEC.





CSR Governance

Based on the *Strategic Plan for the Responsible Brand of CSCEC During the 14th Five-Year Plan Period* and the *CSCEC CSR Management Regulations*, we guarantee the CSR work firstly in our business lines and extend to subsidiaries, covering every layer of the whole system. We incorporate the CSR concept and requirements into the Company's various assessment systems and management methods, and strengthen the guiding role of evaluations by adding CSR into various performance evaluations.

We have benchmarked against the internationally renowned investment and construction companies to explore future development strategies and priorities of CSCEC. We further improved the *Management Manual of CSR Indicators of CSCEC*, and compiled the *Management Manual of ESG Indicators* and the *Management Manual of Overseas CSR Indicators*.



CSR Communication

We ensure CSR information disclosure, striving to be a model for fulfilling global social responsibility. We participate in the planning of the Exposition on China Indigenous Brand, China Building Science Conference and Green Intelligent Building Expo and "Exhibition on High-end Equipment Manufacturing Achievements of Central SOEs".

We launched the *Witness a Glorious History, Chase a Shared Dream*, a special CSR issue to tell the story of CSCEC. We promote the brand-gearred CSR management model in more than 20 countries and regions through overseas communication, guiding overseas branches to carry out the Witness Happiness · Global Action focusing on issues such as human rights protection, compliance operation, local employment, cultural integration, low-carbon environmental protection as well as people's well-being.



Witness a Glorious History, Chase a Shared Dream, a special CSR issue



Zheng Xuexuan, Chairman of China State Construction and Chairman of CSCEC, introducing CSCEC's booth to Ren Hongbin, member of the Party Committee and Deputy Director of the SASAC of the State Council, at the Exposition on China Indigenous Brand



CSCEC Sustainability Report 2020

We have compiled and issued the sustainability report for 13 consecutive years and won the highest grade of the CSR rating of the Chinese Academy of Social Sciences for 9 consecutive years. We have formed a “1 + 3” mode for report compilation and issuance (the Group for the comprehensive report + subsidiaries for special reports + overseas branches for country reports + large projects for project reports, which effectively enhances the transparency of corporate operation and social communication ability.



China Overseas Holdings Limited Sustainability Report 2020



China Overseas Land and Investment Ltd. ESG Report 2020



China Overseas Property Holding Limited ESG Report 2020



China State Construction International Holdings Limited Sustainability Report 2020



CSCEC Egypt Sustainability Report



CSCEC Singapore Sustainability Report



CSCEC Malaysia Sustainability Report



CSCEC Congo (Brazzaville) Sustainability Report



CSCEC Zambia Sustainability Report



CSCEC Maldives Sustainability Report



Case

CSCEC exhibition hall of “Road of Constructed by China”

Taking “world-class design, world-class exhibition and world-class content” as the general requirements, CSCEC has built a modern multimedia exhibition hall as well as a green and low-carbon multi-functional exhibition hall with 5G technology from the perspectives of “the significance and value to the society, the people and even the global people’s livelihood”.

The exhibition hall displays 1,837 pieces of graphic, audio-visual, physical and model materials. With three sections including “Original Aspiration and Mission”, “Central SOE Responsibility” and “World-class Enterprise”, the exhibition shows the brilliant history of CSCEC, the patriotism and hardworking of all CSCEC employees, as well as the significance and value of CSCEC, the country, the society, the people and even the global people’s livelihood.



“Original Aspiration and Mission” reviews the brilliant history of CSCEC from before the founding of the People’s Republic of China with 11 stories and 64 materials. “Central SOE Responsibility” shows the outstanding achievements of CSCEC in implementing national strategies and leading industry development since 2012 with the big sand table of “city of China’s construction”, “zero carbon space” and 16 groups of models. “World-class Enterprise” displays CSCEC’s high-quality development through three multi-media screens and focuses on the “one creation and five aspects of strength” strategic goal as well as its development blueprint in the new era.



CSCEC exhibition hall of “Road of Constructed by China”

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 2022

The year 2022 will witness the 40th anniversary of the founding of China Construction Group. We will encourage all employees both in mind and action to work for the national development strategy, the Company's high-quality development and the three-year action plan on SOE reform, so as to build a better future and expand a happy living environment

Deepening reform to stimulate development. We have completed all tasks of the three-year action plan and summed up experiences. We will continue to deepen reform by carrying out three actions (benchmark against world-class management, model enterprise establishment and value creation) and improving four abilities (value creation ability, global competitiveness, management and control ability and sustainability, stimulating endogenous power to promote greater development.

Optimizing the business structure to fuel development. We vigorously develop and increase the proportion of infrastructure business. We explore the segments of infrastructure, continue to expand in roads and subways, and develop in the fields of railways, water networks, water conservancy projects, large bridges as well as new energy construction. We undertake overseas high-quality projects with good performance, foster more overseas areas for projects, thus promoting the high-quality development of overseas business.

Creating a source of original technologies to boost development. We accelerate the building of two original technology sources (green construction and smart construction) and promote the innovation-driven development to contribute to the national strategic sci-tech force. We have formulated the overall strategy of digital transformation to transform traditional industries with digital technologies while also exploring the industrialization of digital technologies. We also implement the "CSCEC 136 project" to continuously strengthen informatization and make a consolidate the foundation for digitalization.

Promoting peaking carbon emissions and achieving carbon neutrality for long-term development. We actively participate in the formulation of national standards and start the development of the carbon emissions monitoring platform to lay a solid foundation for carbon peak and neutrality. We establish a professional comprehensive service agency, cultivate low-carbon management service business and set up a mature carbon reduction technology library to provide external enterprises with professional consultations including carbon emissions monitoring, low-carbon planning and system construction, striving to become a comprehensive low-carbon management service provider in the construction industry.

Preventing and defusing various risks for better development and safety. We strengthen risk awareness and draw clearer redlines for risk prevention and control. With a clear understanding of the complex external environment, we enhance the forward-looking research and prediction of risks to identify the new problems and challenges for reform and development, so as to make and take new prevention and control strategies in advance. Focusing on risk prevention in key areas, we effectively prevent empirical risks and work safety risks to ensure the stable and long-term development of the Company.



Responsibility Performance

Category	Indicators	2019	2020	2021
Economy	Operating Revenue (RMB 100 million)	14,198	16,151	18,913
	Total Pre-tax Profits (RMB 100 million)	1,432.6	1,467.4	1,492
	Gross Profit (RMB 100 million)	814.7	942.7	1,008.9
	Net profit attributed to the listed company (RMB 100 million)	418.8	449.2	514.1
	Value of Newly-signed Contracts of Construction Project (RMB 100 million)	24,863	27,721	31,074
	Annual Accumulated Construction Area (10,000 m ²)	145,671	154,229	169,283
	Annual Accumulated New Construction Area (10,000 m ²)	38,301	34,239	38,479
	Annual Accumulated Completed Area (10,000 m ²)	23,220	19,079	24,176
	Annual Real Estate Sales Agreement (RMB 100 million)	3,826	4,287	4,221
	Term-end Land Reserve (10,000 m ²)	12,166	11,637	10,395
	Asset Liability Ratio (%)	75.3	73.7	73.2

Category	Indicators	2019	2020	2021
Environment	Environmental Management Certification Pass Rate of New Project (%)	100	100	100
	Environmental Training (person-time)	>21,000	>38,000	>49,000
	Green Procurement Ratio of Bulk Commodities (%)	100	100	100

Category	Indicators	2019	2020	2021
Society	Total Number of Employees	335,038	356,864	368,327
	Female Staff Ratio (%)	21	20	21
	Female Manager Ratio(%)	21	20	21
	Coverage of Labor Contracts (%)	100	100	100
	Staff Turnover Rate (%)	5.78	5.45	5.94
	Coverage of Social Security (%)	100	100	100
	Establishment Rate of Labor Unions (%)	100	100	100
	Coverage Rate of Employees Participating in Labor Union (%)	99	99	99
	Gross Investment for Employee Training (RMB 100 million)	5.0	6.8	9.5
	Employee Training (10,000 person-time)	129	>100	400
	Training Investment for Subcontractors (RMB 10,000)	31,135	23,176	25,030
	Subcontractors Participating in training (10,000 person-time)	160	160.95	173.83
	National Patent Licenses (Item)	4,446	8,951	12,233
	Mortality Value Per Output Value of RMB 100 Million (%)	0.0031	0.000875	0.00107
	Total amount of external donation by CSCEC and its shareholders (RMB 10,000)	12,588	14,654	16,540
	The Number of Volunteer Activities	>6,000	>7,000	>8,000
	Accumulated Volunteer Services (10,000 hours)	>13	>14	>16

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

In 2021, due to the impacts of multiple uncertainties such as the spread of COVID-19 and the global economic downturn, the international infrastructure industry was faced with increasing risks, challenges and pressures. China's international engineering contractors have taken the initiative to innovate their business models, accelerate the green, low-carbon and digital transformation and strengthen ESG capacity, so as to promote the transformation and upgrading of the industry. A number of major sustainable infrastructure projects have been implemented, making the industry full of resilience and vitality for development.

As a leading enterprise among China's international engineering contractors, CSCEC always keeps the concept of high-quality sustainability and actively participates in the construction of infrastructure projects at home and abroad. With the theme of "Witness a Glorious History", the *CSCEC Sustainability Report 2021* reviews the history of CSCEC's entrepreneurship as well as its responsibility of serving the country and benefiting Chinese people. The Report discloses in detail the actions and results of CSCEC in strengthening its sustainability capacity and influence based on national strategies and global concerns, which demonstrates the leading and exemplary role of large central SOEs in promoting the sustainability of international infrastructure. The Report shows the leading actions of CSCEC in the development of the ESG governance and management system, and discloses CSCEC's efforts for China's peaking carbon emissions and achieving carbon neutrality goal and the construction of green and carbon-neutral engineering projects, which leads the green development of the industry.

The Report tells CSCEC's contribution for the high-quality development of the Belt and Road Initiative. The "Overseas Development" section focuses on CSCEC's serving the economic and social development of the countries where its projects are located by leveraging its advantages in all fields and the whole industrial chain. It tells China's stories and promotes people-to-people connectivity, serving as a model for the CSR communication of Chinese enterprises going global.

With increasing international cooperation along the Belt and Road, the "going global" enterprises, including CSCEC, keeps expanding their overseas businesses and strengthening their capacity of global resource allocation. They are becoming the main force of global infrastructure construction. It is expected that CSCEC continue to follow the international development strategy, explore more experiences for the transformation and upgrading of China's international engineering contractors and contribute to the sustainability of international infrastructure!



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

General Secretary Xi Jinping put forward China's goals of peaking carbon emissions and achieving carbon neutrality at the 75th United Nations General Assembly, which set the direction for China's green and low-carbon development. As the main participants in the national economy, industrial and commercial enterprises play a significant role in achieving China's 30·60 Decarbonization Goal and they are an important force to further promote China's green development.

CSCEC Sustainability Report 2021 ("the Report") discloses the Company's efforts in implementing the national requirements for peaking carbon emissions and achieving carbon neutrality from a global and long-term perspective. The Company established the Research Center for Green and Low-carbon Development to explore the building of a carbon emission database, a statistical monitoring platform, and a smart construction platform integrating BIM + Internet + Internet of Things. The Company developed the "zero carbon" PEDF technology, BIPV building facades + energy storage technology, and BIPV solar awnings technology, and it was China's first real estate company to issue the first "green + carbon neutrality" bond as well as a plan for green asset support.

CSCEC takes actions. It has carried out a number of practical cases on carbon reduction. For example, the *Hong Kong O-PARK2 Construction Period Carbon Neutrality Commitment* released by China State Construction International Holding Limited disclosed in the Report will become the first green project in Hong Kong to achieve carbon neutrality during the construction period and the first project in Hong Kong to meet international standards for verified emission reductions (VERs). Also, the Company's China Overseas Holdings Limited (COHL) added smart control to 11,156 air-conditioners, with a coverage of over 91%, which could save 9.036 million kwh of electricity and reduce carbon dioxide emissions by about 9,000 tons of per year.

Moreover, CSCEC fosters and expands green and low-carbon emerging industries, and strengthens the green and low-carbon sectors by shoring up, enhancing, and expanding the industrial chain to be the best comprehensive service provider in planning, design, construction, and products in decarbonization field, playing a leading role in promoting the national action plan for peaking carbon emissions in urban and rural construction.

From the Report, we can see that Chinese construction enterprises represented by CSCEC are accelerating the establishment of a green and low-carbon modern industrial system, and actively integrating into the construction of a green and low-carbon circular economic development system, so as to realize the win-win results for enterprises, society and the environment.



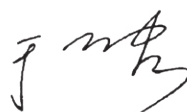
Yu Zhihong, President and Editor-in-Chief of
China Sustainability Tribune

CSCEC Sustainability Report 2021 (hereafter referred to as “the Report”) is the 13th sustainability report released by CSCEC. Starting with “Witness a Glorious History” and “Spirits of Our Times Shining in Hong Kong – China’s Construction”, the Report shows the significant changes brought by China’s reform and development from the perspective of the construction industry. CSCEC has strengthened its confidence in its culture, gathered strength to forge ahead, served the national strategy, and facilitated the rapid development of the construction industry.

The main body of the Report is composed of one feature and seven chapters. The feature “Witness a Glorious History, Showing the Responsibility of CSCEC” shows the contribution of CSCEC to celebrating the Centenary of the founding of the CPC. “Central SOE Responsibility” demonstrates CSCEC’s pursuit of a green development and independent innovation, as well as its responsibility in regional development, rural vitalization, emergency rescue and battles against the epidemic. “A World-class Enterprise” introduces CSCEC’s global business and what it does to shape China’s reputation in construction, China’s image of friendship, and China’s spirit. Focusing on the new development philosophy, the Report elaborates on CSCEC’s responses to the expectations and demands from stakeholders including the government, shareholders, customers, environment, partners, employees and the public etc. Based on its own development and the overall social development. It sets an example for large construction enterprises to move forward in tandem with the times, the country and the people.

This is an excellent sustainability report with CSCEC’s commitment to sustainable development and creating a discourse system and cooperation opportunities for groups with different interests to balance interests and achieve cooperation. The Report selects a large number of pictures, touching stories, and accurate data to display the key projects and cases of CSCEC in fulfilling its economic, social and ecological responsibilities in 2021.

We hope that CSCEC could strengthen its original aspiration from history, create sustainable economic and social values for China from a long-term perspective, serve the national development strategy, practice corporate social responsibility for the environment, society and ecology, and continue to improve its ability of sustainability information disclosure.



Report Rating



中国企业社会责任报告
评级专家委员会
Chinese Expert Committee on CSR Report Rating

《中国建筑股份有限公司 2021 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 2021 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》编写组提交的《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（党建工作部）牵头成立报告编制工作组，统筹具体编制工作并把控关键节点，党组书记、董事长审阅报告内容，董事会、董高会负责报告审议批准；将报告定位为强化利益相关方沟通、推进品牌文化建设的重要工具，功能价值定位明确；根据国家宏观政策、国际国内社会责任标准、行业发展趋势、公司发展战略、利益相关方调查等识别实质性议题；发布国别专项报告，并推动下属企业中海集团、中海地产、中国建筑国际、中海物业独立编发社会责任/ESG 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 版的形式呈现报告，过程性表现卓越。

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性议题，叙述详细充分，具有卓越的实质性表现。

完整性 (★★★★★)

《报告》主体内容从“协调·为股东创造价值”“创新·让发展充满动力”“品质·对客户完美履约”“绿色·建清洁低碳世界”“共享·育生机活力队伍”“开放·聚伙伴合力同行”“幸福·增普惠民生福祉”等角度系统披露了工程与建筑业核心指标的 90.51%，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”“问题和隐患项数”等负面数据，并详细描述未按期召开成本分析会、某项目发生机械伤害事故的处置情况，平衡性表现卓越。

可比性 (★★★★★)

《报告》披露了“利税总额”“建筑业务新签合同额”“对外捐赠金额”“志愿者活动次数”“环保培训人次”“大宗材料绿色采购比例”等 42 个关键指标连续 3 年的对比数据，并通过“位列 2021 年度 ENR（《工程新闻纪录》）‘全球承包商 250 强’首位”等进行横向比较，具有卓越的可比性表现。

可读性 (★★★★★)

《报告》以“建证百年”为主题，紧扣新发展理念谋篇布局，从七大篇章全面展现了关键履责议题上的年度进展与成效，框架结构清晰；封面设计以国风形式绘出“中国建筑之城”，融入七十年经典项目，呼应报告主题，增强了报告的辨识度；章节跨页嵌入叙述性引言及重点绩效，提纲挈领，利于读者快速把握关键信息；多处引入利益相关方感言佐证履责成效。



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可读性表现卓越。

创新性 (★★★★★)

《报告》设置“初心使命”“央企担当”“世界一流”三大责任专题，展现企业在坚持党的领导、投身国家建设与改革发展、海外履责等方面的行动成效，彰显了中央企业的责任担当；设置“建证百年 同心筑梦”专栏，立体展示年度履责亮点，凸显了企业的责任引领与价值追求；修订《中国建筑社会责任指标管理手册》，编制《ESG 指标管理手册》《海外社会责任指标管理手册》，进一步完善社会责任管理体系，创新性表现卓越。

综合评级 (★★★★★)

经评级小组评价，《中国建筑股份有限公司 2021 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“五星佳”级，是企业社会责任报告中的典范。



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中国建筑可持续发展报告连续七年获得五星级、连续第三年获得五星佳级评价

四、改进建议

增加行业核心指标的披露，提升报告的完整性。



黄显
评级专家委员会副主席



钟文武
评级小组组长



徐华
评级小组专家



出具时间：2022 年 4 月 12 日 扫码查看企业评级档案



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 2021 (the "Report") against the AA1000 AS (V3).

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 user of this Statement. The assurance engagement 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

- Reporting the CSCEC' performance data, case studies and related systems of economic, environmental, and social indicators; the year of activities covered in the Report is from Jan 01st,2021 to Dec 31st,2021;
- The data, cases, and management information which related to the Company' sustainability development or CSR KPI;
- Evaluate the management process of data and information collection, analysis and inspection in the Report;
- The economic data is audited by other third party, so no repeated verification.

Due to the impact of the COVID-19 this year, as confirmed by CSCEC, the audit conducted by remote audit on March 14th,15th,2022.

Assurance Methodology

Assurance process including following activities:

- Review the document information provided by CSCEC;
- Interview the person who collected the Report information;
- View the related websites and media reports, verify the data and information through sampling method;
- Refer to GRI Sustainability Reporting Guideline(GRI Standards) on balance, comparability, accuracy, timeliness, clarity, reliability, and give the evaluation;
- Refer to Information on inclusiveness, materiality and responsiveness and stakeholder engagement in accordance with the AA1000 Auditing Standards (V3);
- 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 in 2021. The data in the Report are reliable and objective, TUV NORD didn't find the system error or substantial error, which meets the disclosure requirement of GRI Standards core option.

- **Balance:** The Report objectively discloses the number of employee turnover rate, Mortality rate of output value of 100 million yuan, case of alarm bell ringing, etc., with a certain balance;
- **Comparability:** "Responsibility Performance" reveal performance of three years across a range of economic, social and environmental indicators, which is comparable;
- **Accuracy:** Through sampling audit, it is found that the cases and data disclosed in the report are basically objective and accurate;
- **Timeliness:** The disclosure period of this Report is the sustainable development performance in 2021. The company regularly publishes the Report for thirteen consecutive years with good timeliness;
- **Clarity:** Various forms such as pictures, charts, cases are used in the report to make the information in



The report easy to understand;

- **Reliability:** The social responsibility management team of CSCEC is responsible for collecting, recording, arranging and analyzing the information and processes used in the preparation of the Report. The data sampled during the verification process can provide traceability, which ensures the quality and substance of the information to a certain extent.

Suggestion for improvement

Through assurance and evaluation, we had following improvement suggestion on social responsibility practice and management:

- It is recommended to attach links to the sustainable development reports of subsidiaries and project locations so that stakeholders can learn more about the molecular companies and projects;
- In the field of environment, it is recommended that more environmental performance data be disclosed to facilitate peer benchmarking.

Special statement

This statement excluding:

- 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 :April 11th .2022

The Authorized person:Mr. Song Haining

Date: April 11th .2022

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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