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2022

中国铁建社会责任报告

CHINA RAILWAY CONSTRUCTION CORPORATION LIMITED

SOCIAL RESPONSIBILITY REPORT

中国铁建股份有限公司

2022 社会责任报告



中国铁建股份有限公司
CHINA RAILWAY CONSTRUCTION CORPORATION LIMITED

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报告说明

ABOUT THE REPORT

报告组织范围

中国铁建股份有限公司及下属机构。

报告时间范围

本报告为公司第15份社会责任报告，报告时间范围为2022年1月1日至12月31日，部分内容及数据超出上述范围。

报告发布周期

年度报告。

报告参考标准

本报告依据国务院国资委《关于中央企业履行社会责任的指导意见》、上海证券交易所《上市公司自律监管指引第1号——规范运作》，参照全球可持续发展标准委员会(GSSB)《可持续发展报告标准(2021)》、国际标准化组织《ISO 26000:社会责任指南(2010)》、香港联交所《环境、社会及管治报告指引》、中国社会科学院《中国企业社会责任报告指南(CASS-ESG 5.0)》编制。

报告说明

本报告披露的财务数据如与年度报告有出入，以年度报告为准，其他数据来自公司内部统计。本报告中所涉及货币金额以人民币作为计量币种，特别说明的除外。在报告中，为了便于表述和阅读，中国铁建股份有限公司还以“中国铁建”“公司”“我们”等表示。

报告发布形式

本报告以印刷版和电子版两种形式发布。如欲获取报告电子版，请登陆中国铁建网站：www.crcc.cn。

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Reporting Scope

China Railway Construction Corporation Limited and all its subsidiaries.

Reporting Period

The report is the 15th Corporate Social Responsibility Report issued by China Railway Construction Corporation Limited throughout the period from January 1, 2022 to December 31, 2022, and this report includes additional content and information that pre-dates the stated reporting period.

Release Cycle

Annual report.

Reference Standard

This report is formulated in accordance with the *Guiding Opinions on Fulfilling Social Responsibilities of Central State-owned Enterprises* issued by the State-owned Assets Supervision and Administration Commission (SASAC) of the State Council, the *Guidelines on Self-Regulatory Supervision of Listed Companies No. 1 - Standardized Operation Report* issued by the Shanghai Stock Exchange, the *GRI Standards (2021)* issued by the Global Sustainability Standards Board (GSSB), the *ISO 26000: 2010 - Guidance on Social Responsibility* issued by the International Organization for Standardization (ISO), the *Environmental, Social and Governance Reporting Guide* issued by the Stock Exchange of Hong Kong Limited, and the *Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-ESG5.0)* issued by the Chinese Academy of Social Sciences (CASS).

Report Description

In case of any discrepancy between the financial data disclosed in this report and the Company's annual report, the latter shall prevail. Other data are based on the Company's internal statistics. In this report, all currency amounts are in RMB unless otherwise specified. For the convenience of expression and reading, China Railway Construction Corporation Limited is also abbreviated for "CRCC", "the Company", "We", and so on.

Release Form

This report is issued in both printed and electronic versions. To obtain the electronic version of this report, please visit CRCC website: www.crcc.cn.

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董事长致辞



2022年，中国铁建以习近平新时代中国特色社会主义思想为指导，深入学习贯彻党的二十大精神，坚持“实事求是、守正创新、行稳致远”的工作方针，真抓实干，迎难而上，全面完成了全年目标任务，推动企业高质量发展实现新突破。

质效优先，稳中有进

2022年，中国铁建坚持稳字当头、稳中求进，主要经济指标实现持续稳定增长，保持了高质量发展态势。公司新签合同总额、营业收入、利润总额、净利润，较上年分别同比增长15.1%、7.48%、7.6%、8.32%。公司加强全面预算管理与过程督导，优化融资结构，提升资产质量，国金中国铁建REIT成功上市。在资本市场荣膺“金紫荆奖”“可持续发展普惠奖”等多个奖项。

克难奋进，勇担使命

2022年，中国铁建紧跟国家重大决策部署，深入实施区域发展战略，加强资源投入保障，全力畅通产业链、供应链，为客户提供全过程、全周期、个性化、定制化、高质量的“铁建模式”和“铁建方案”，生产运营保持稳定。成昆铁路复线、郑渝高铁、匈塞铁路贝诺段等一大批境内外重难点工程开通运营或投入使用。

深化改革，稳健提质

2022年，中国铁建国企改革三年行动圆满收官，党的领导深度融入公司治理，董事会运作更加规范高效，中国特色现代企业制度更趋完善，经理层成员任期制契约化管理实现全覆盖，厂办大集体改革、教育医疗机构改革、“两非”剥离专项治理基本完成，主责主业更加聚焦，被评为“国有企业公司治理示范企业”，世界一流企业建设有序推进。

多元发展，固本升级

2022年，中国铁建坚持建筑为本、相关多元，着力巩固工程承包基本盘，加快非工程承包和新兴产业拓展，持续优化产业布局。大力发展绿色环保产业，加快拓展水利、新能源等新兴领域；推动规划设计咨询产业

高端化、多元化发展，打造工业制造产业领军企业；巩固拓展海外事业，参建的卡塔尔世界杯主场馆卢塞尔体育场惊艳全球。

科技赋能，创新发展

2022年，中国铁建坚持科技自立自强，重点围绕行业关键共性技术、前沿引领技术、产业高新技术等领域进行攻关，多项科技创新成果获国家级、省部级表彰，一批科研成果实现产业化应用。公司将绿色低碳理念融入项目建设全过程，绿色建造、智能建造试点工作扎实推进，4家企业入选工信部专精特新“小巨人”企业。

关注民生，担当使命

牢固树立“人才是第一资源”的理念，持续优化员工结构，切实保障劳动者职业健康权益，全面提升员工幸福指数和归属感。积极参与并完成北京冬奥会建设运营和服务保障工作，火速驰援泸定地震、重庆山火等救灾前线。全年参与工程抢险救援和防汛抗洪1900次，出动工程抢险力量4.4万多人次，机械设备4520台套，在关键时刻充分展现央企担当。

踏浪前行，只争朝夕

展望2023年，中国铁建将全面贯彻新发展理念，围绕国家重大战略部署和企业中长期发展规划，锚定建设“最值得信赖的世界一流综合建设产业集团”愿景，奋力开启中国铁建高质量发展新征程，以优异的成绩回馈社会、回报股东、造福员工，谱写新时代改革发展的新篇章！

董事长 汪建平

CHAIRMAN'S MESSAGE

In 2022, guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, CRCC fully studied and implemented the guiding principles of the 20th CPC National Congress. Under the working principle of "seeking truth, pursuing innovation and steady long-term development", we took solid actions to overcome all the obstacles. Consequently, we have accomplished our annual goals, achieving a breakthrough in high-quality corporate development.

Improving quality and efficiency while pursuing steady progress

In 2022, as we prioritized stability while pursuing progress, our main economic indicators improved steadily, which indicates a high-quality development trend. Our total value for the newly-signed contracts, revenue, gross profit and net profit secured a year-on-year growth of 15.1%, 7.48%, 7.6% and 8.32%, respectively. We also strengthened the supervision over budget management and process comprehensively, optimized financing structure, and improved asset quality, facilitating the successful listing of Guojin CRCC REIT. With our outstanding performance in the capital market, we won several awards, including the Golden Bauhinia Award and the Sustainable and Inclusive Development Award.

Overcoming difficulties and taking up the responsibilities

In 2022, following the major national decisions, CRCC deeply implemented the regional development strategies. We ramped up investment to enable an unblocked industrial and supply chain and provided customers with tailored, high-quality "CRCC modes" and "CRCC solutions" that cover the entire process and cycle, thus maintaining sound production and operation. A large batch of key and difficult projects at home and abroad were opened for operation or put into use, such as Alternate Chengdu-Kunming Railway, the Zhengzhou-Chongqing high-speed railway, and Belgrade - Novi Sad Section of Hungarian-Serbian Railway.

Deepening reform to steadily improve quality

In 2022, we successfully fulfilled three-year action plan for SOE reform. As a result, the Party leadership was deeply integrated into corporate governance, the operation of the Board was more standardized and efficient, the modern corporate system with distinctive Chinese features was promoted, and the tenure-system contracted management covered all management members. We basically completed the reform on factory-run collectives as well as education and medical institutions, and stripped non-principal businesses and that lack competitive advantages to focus more on primary responsibilities and core business. We thus were awarded as Model SOE in Corporate Governance and advanced our progress towards the goal of being a world-class enterprise in an orderly manner.

Pursuing diversified development while solidifying foundation

In 2022, oriented toward construction and pursuing diversified development, CRCC intensified efforts in engineering contracting and accelerated the expansion of non-construction contracting and emerging industries, thus optimizing the industrial layout. We actively developed environmental protection industry, and explored emerging fields including water conservancy and new energy resources. We also promoted the high-end and diversified development of planning, design and consulting industry to build a leading enterprise in industrial manufacturing industry. Meanwhile, we consolidated and expanded our overseas business and participated in the construction of Lusail Stadium, the main stadium of Qatar World Cup, which amazed the world.

Empowering innovation-driven development with technology

In 2022, upholding technological self-reliance and self-improvement, we devoted our efforts to making breakthroughs on key common technologies in the industry, cutting-edge and leading technologies, and advanced industrial technologies, etc. As a result, our technological innovation results won national, provincial and ministerial-level commendations, and several scientific research accomplishments were successfully put into industrial use. To incorporate green and low-carbon concepts throughout construction project, we promoted the pilot work of green construction and intelligent construction. Four of our subsidiaries were selected as "Little Giant" Specialized and Sophisticated Companies by the Ministry of Industry and Information Technology.

Caring for people's well-being while shouldering responsibilities

Based on the concept of "human resources as the primary resource", CRCC continued to optimize the employee structure and protected worker's occupational health effectively in 2022. Our goal is to enhance their happiness index and sense of belonging in all respects. We participated in the construction, operation and services of 2022 Beijing Winter Olympic Games, and rendered help to disaster stricken areas, such as earthquake region in Luding and areas hit by mountain fire in Chongqing. We participated in 1,900 engineering emergencies and flood control with more than 44,000 rescue personnel and 4,520 sets of equipment, demonstrating central SOE demeanor in critical moments.

Riding the waves while seizing the day

Looking ahead to 2023, CRCC will fully implement new development philosophy and embark on a new journey of high-quality development with a focus on the national major strategies, corporate medium- long-term development plan and the vision of being a world-class infrastructure builder you may rely on. We will give back to the society, reward our shareholders and benefit our employees with excellent results to open a new chapter of reform and development in the new era!

Wang Jianping

Chairman of the Board

总裁致辞



2022年是党的二十大召开之年，也是中国铁建“十四五”规划落地深化之年。一年来，我们坚持以习近平新时代中国特色社会主义思想为指导，坚决贯彻落实党中央、国务院决策部署，稳中求进、改革创新，在推动企业高质量发展的同时，积极履行社会责任，取得了一系列令人瞩目的成绩。

一是主要经济指标再创新高，以扎实的经营业绩回报股东、回报社会。全年新签合同额32450亿元、同比增长15.1%，营业收入10963亿元、同比增长7.5%，净利润318亿元、同比增长8.3%。在2022年《财富》“世界500强企业”排名第39位、“全球250家最大承包商”排名第3位、“中国企业500强”排名第11位，获评国资委年度和任期经营业绩考核“双A”及“业绩优秀企业”。

二是始终胸怀“国之大者”，积极服务国家重大战略，深度融入城乡融合与区域协调发展。参建的黄黄铁路、崇礼铁路、成昆铁路复线、郑渝高铁、和若铁路、北京丰台站、鄂州花湖机场、引汉济渭秦岭输水隧洞等一大批重难点工程开通运营，全年新获国家优质工程奖47项、鲁班奖15项、土木工程詹天佑奖13项。

三是大力推动高水平科技自立自强，关键核心技术攻关卓有成效。城市地下大空间、深地空间开发、北斗铁路行业综合应用等国家重点研发任务取得丰硕成果，自主研发的全球最大竖井掘进机“梦想号”入选2022年度央企十大国之重器，BIM+管理平台入选十大国产BIM软件，首获日内瓦国际发明金奖1项，新获中国专利银奖、优秀奖共7项，新增授权专利7931件。

四是加快推动绿色发展，坚持绿色规划、设计、施工、运营一体化建设，有效推广绿色低碳、环保节能新材料、新设备、新工艺。在高原隧道建设中实现隧道挖、装、运施工装备的新能源改造，打造环保施工典范；成立国内首家“中碳”字号基础设施产业类企业，推动建筑领域实现碳治理能力提质升级，为推进碳达峰、碳中和做出央企表率。

五是深入落实“高水平对外开放”要求，实施“海外优先”战略，当好“走出去”的先锋队和排头兵。一系列海外重大工程相继交付投用，一大批“小而美”项目惠及当地民生，深度融入所在国经济社会发展，加大教育培训、创造就业、帮扶救助力度，以跨越民族、国界、文化的爱与情怀赢得当地民众的认可和拥护。

六是坚持共建共享发展，打造幸福美好生活。保障职工群众权益，积极推动“幸福企业”试点建设，持续提升员工幸福指数；深入开展劳务人员工资“治欠保支”工作，保持下游中小企业无分歧欠款“动态清零”；新招聘应届毕业生1.7万余人，吸纳社会就业200余万人，组织各类培训教育118.2万人次，有效助力稳就业、保民生；扎实开展乡村振兴工作，接续推进援疆援藏援青工作，持续巩固脱贫攻坚成果。

七是关键时刻冲锋在前，努力成为党和国家、社会各界最可信赖的依靠力量。圆满完成冬奥建设运营和服务保障工作，火速驰援泸定地震、重庆山火等救灾前线，广泛参与社区共建、环境保护、志愿服务、慈善捐赠等公益事业，得到地方政府和人民群众广泛赞誉。

征程万里风正劲，重任千钧再出发。2023年，我们将更加紧密团结在以习近平同志为核心的党中央周围，深入贯彻落实党的二十大精神，守正创新、踔厉奋发，奋力开创中国铁建高质量发展新局面，为全球合作伙伴和各界朋友共同发展、共同进步贡献更多铁建力量。

总裁

PRESIDENT'S MESSAGE

2022 witnessed the convening of 20th CPC National Congress and also marked the implementation of our planning set for the 14th Five-Year Plan period. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we implemented the decisions made by the CPC Central Committee and the State Council, pursued progress while ensuring stability, and sought innovation and reforms. We actively fulfilled our social responsibilities while promoting high-quality corporate development, leading to a series of remarkable achievements.

Firstly, our main economic indicators reached new highs, reflecting our solid business performance and our commitment to providing returns to shareholders and society as a whole. The total value for the newly-signed contracts in 2022 amounted to RMB 3.245 trillion, representing a year-on-year growth of 15.1%. Our revenue reached RMB 1.0963 trillion, an increase of 7.5% compared to the previous year, and our net profit grew by 8.3% to reach RMB 31.8 billion. We rose to No. 39 in the Fortune Global 500 list, ranked top three in the Top 250 Contractors of the World, rose to No. 11 in the Top 500 Enterprises of China, and achieved Grade AA and Excellent Performance Enterprise in the annual and service term operational performance assessments of SASAC.

Secondly, we always kept in mind the country's most fundamental interests and actively served major national strategies, while deeply integrating ourselves into the urban-rural integration and the coordinated regional development. A large batch of key and difficult projects were opened for operation or put into use, including the Huanggang-Huangmei high-speed railway, Chongli branch of the Beijing-Zhangjiakou intercity railway, Alternate Chengdu-Kunming Railway, the Zhengzhou-Chongqing high-speed railway, Hotan-Ruoqiang railway, Beijing Fengtai Railway Station, Ezhou Huahu Airport, and Qinling Extra-long Water Transfer Tunnel. In 2022, the Company won another 47 National Quality Engineering Awards, 15 Luban Prize and 13 Tien-yow Jeme Civil Engineering Prizes.

Thirdly, we vigorously promoted the self-reliance and self-improvement of high-level scientific and technological development, and have achieved remarkable results in key core technological breakthroughs. National key research and development missions such as the development of large underground and deep space in cities, and the Beidou railway industry comprehensive application demonstrative project, have yielded fruitful results. The independently developed "Dream" shaft boring machine, which is the biggest in the world, was enlisted among "Top Ten Nation's Machines of Central State-owned Enterprises in 2022". The BIM+ management platform was also selected as one of the top ten domestic BIM software. In 2022, we won 1 Golden prize of Geneva International Invention Award for the first time, and 7 China Patent Silver Awards and Excellence Awards. In the same year, we were authorized for 7,931 patents.

Fourthly, we accelerated green development by adhering to integrated construction of green planning, design, construction, and operation. We effectively promoted the use of environmentally friendly, low-carbon, and energy-saving new materials, devices, and processes. In the construction of high-altitude tunnels, we achieved the transformation of tunnel excavation, installation, and transportation equipment to new energy sources, creating an exemplary model of environmentally friendly construction. We also established the first infrastructure type company with the name of "China Carbon", promoting the upgrading of carbon governance capabilities in the construction industry, and have served as a leading example of central SOEs in advancing carbon peak and carbon neutrality.

Fifthly, we deeply implemented the requirement of "higher-standard opening up" and implemented the "overseas priority" strategy, serving as pioneers and leaders in "going global". A series of major overseas projects were delivered and put into operation, and a large number of "small and beautiful" projects benefited local livelihoods, contributing to the economic and social development of the host countries. We also increased our efforts in education and training, job creation, and assistance and support, and have earned recognition and support from local people with our love and passion that transcends ethnicity, borders, and culture.

Sixthly, committed to co-building and sharing development fruits, we worked to create a happy and better life for all. We ensured the rights and interests of employees and actively promoted the pilot work on building a "happy CRCC", continuously improving the happiness index of our employees. We ramped up efforts to address unpaid wages and to support the payment of wages for labor service personnel, so that the small and medium-sized enterprises can maintain a "dynamic zero" of undisputed overdue bills. We recruited over 17,000 new graduates, provided employment opportunities for over 2 million people in society, and organized various training programs for 1.182 million people, effectively supporting stable employment and people's livelihoods. We firmly carried out rural vitalization work and advanced our assistance programs in Xinjiang, Tibet, and Qinghai, so as to consolidate the achievements of poverty alleviation.

Seventhly, we were at the forefront during critical moments, striving to become the most reliable support for the Party, the country, and all sectors of society. We successfully completed the construction, operation, and service guarantee for the Beijing 2022 Winter Olympics, and provided swift assistance to the frontlines of disaster relief efforts such as the 2022 Luding earthquake and Chongqing wildfires. We engaged in public welfare activities such as community building, environmental protection, volunteer services, and charitable donations, earning widespread recognition from local governments and the general public.

As we move forward on our journey, we are determined to uphold our responsibilities and make progress in the year ahead. In 2023, we will rally even closer around the CPC Central Committee with Comrade Xi Jinping at its core, and fully implement the guiding principles of the 20th CPC National Congress. We will uphold fundamental principles and break new ground, and forge ahead with enterprise and fortitude to achieve new progress in the high-quality corporate development, contributing more to the common development with our global partners and friends from all walks of life.

Zhuang Shangbiao

The President

公司概况 Company Profile

中国铁道建筑集团有限公司是国务院国资委管理的特大型建筑企业，2007年11月5日在北京独家发起成立中国铁建股份有限公司。中国铁建于2008年3月10日、13日分别在上海证券交易所和香港交易所上市（A股代码601186、H股代码1186），是全球最具实力与规模的特大型综合建设集团之一。

公司业务涵盖工程承包、规划设计咨询、投资运营、房地产开发、工业制造、物资物流、绿色环保、产业金融及其他新兴产业，经营范围遍及全国32个省、自治区、直辖市以及全球139个国家和地区。公司拥有科研、规划、勘察、设计、施工、监理、运营、维护和投融资完整的行业产业链，是高原铁路、高速铁路、高速公路、桥梁、隧道和城市轨道交通工程设计及建设领域的领军企业。

公司坚持新发展理念，倾力打造“品质铁建”，强化全产业链服务高地，为客户提供全过程、全周期、个性化、定制化、高质量的“铁建模式”和“铁建方案”，努力发展成为最值得信赖的世界一流综合建设产业集团。

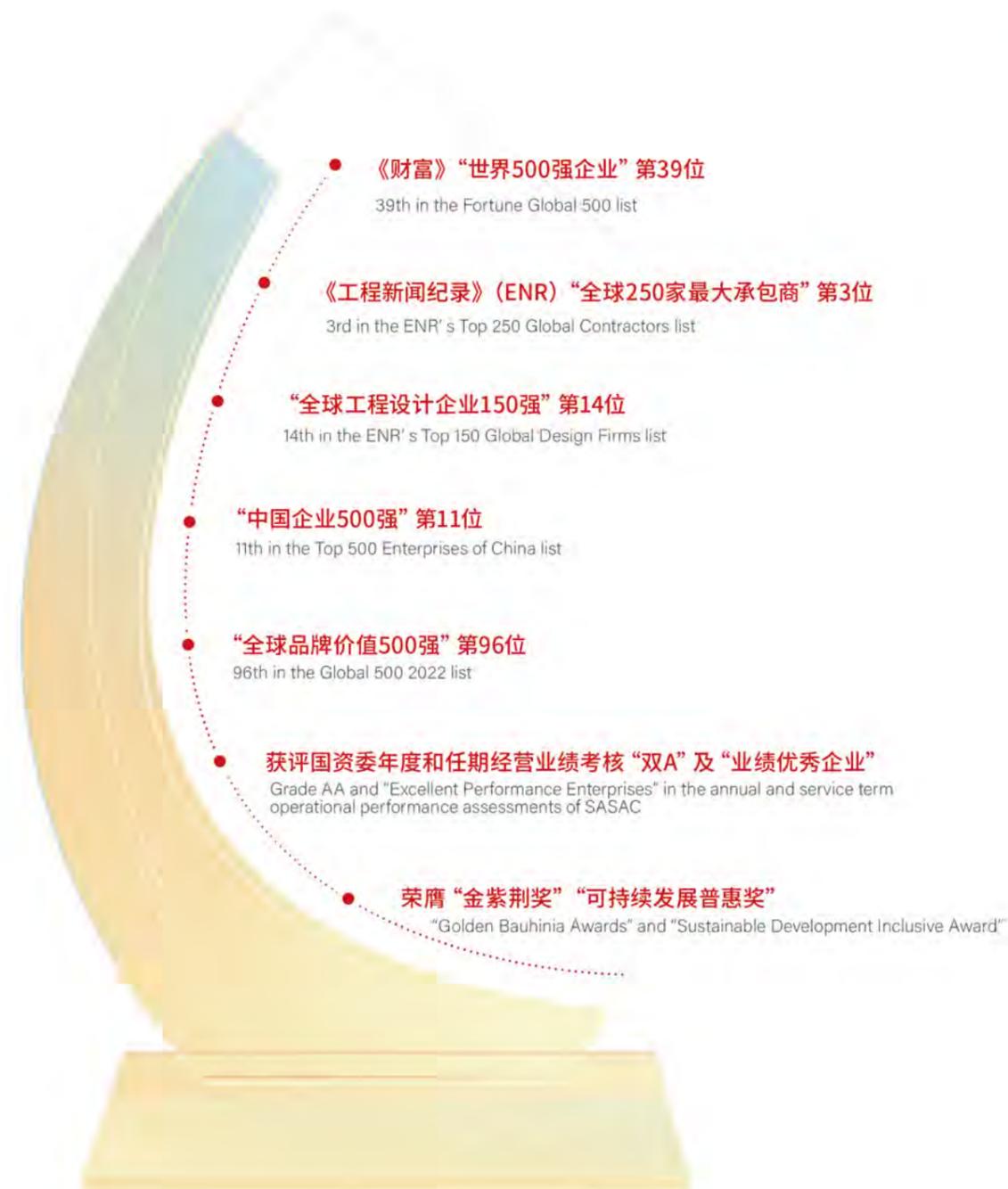
Established on November 5, 2007 in Beijing, China Railway Construction Corporation Limited (hereinafter referred to as "CRCC") is a mega-sized construction corporation under the administration of the State-owned Asset Supervision and Administration Commission of the State Council (SASAC). On March 10 and March 13, 2008, the Company was listed on the Shanghai Stock Exchange and the Hong Kong Stock Exchange, respectively (A-share stock code: 601186; H-share stock code: 1186). CRCC is one of the most powerful and mega-sized comprehensive construction groups in the world.

Our business covers project contracting, planning and design consultation, investment and operation, real estate development, industrial manufacturing, logistics, environmental protection, industrial finance, and other emerging industries. We do business in 32 provinces, autonomous regions and municipalities across China and 139 countries and regions around the world. We boast a complete industry chain of research, planning, survey, design, construction, supervision, operation, maintenance, investment, and financing. We have developed into an industry leader in the design and construction of plateau railways, high-speed railways, expressways, bridges, tunnels, and urban rail transit.

Committed to the new development philosophy, we aim to create "High-Quality CRCC" by bolstering the service excellence of the whole industry chain and provide customers with tailored, high-quality "CRCC modes" and "CRCC solutions" that cover the entire process and cycle. Our vision is to be a world-class infrastructure builder you may rely on.

2022年重要荣誉

Major Honors for 2022

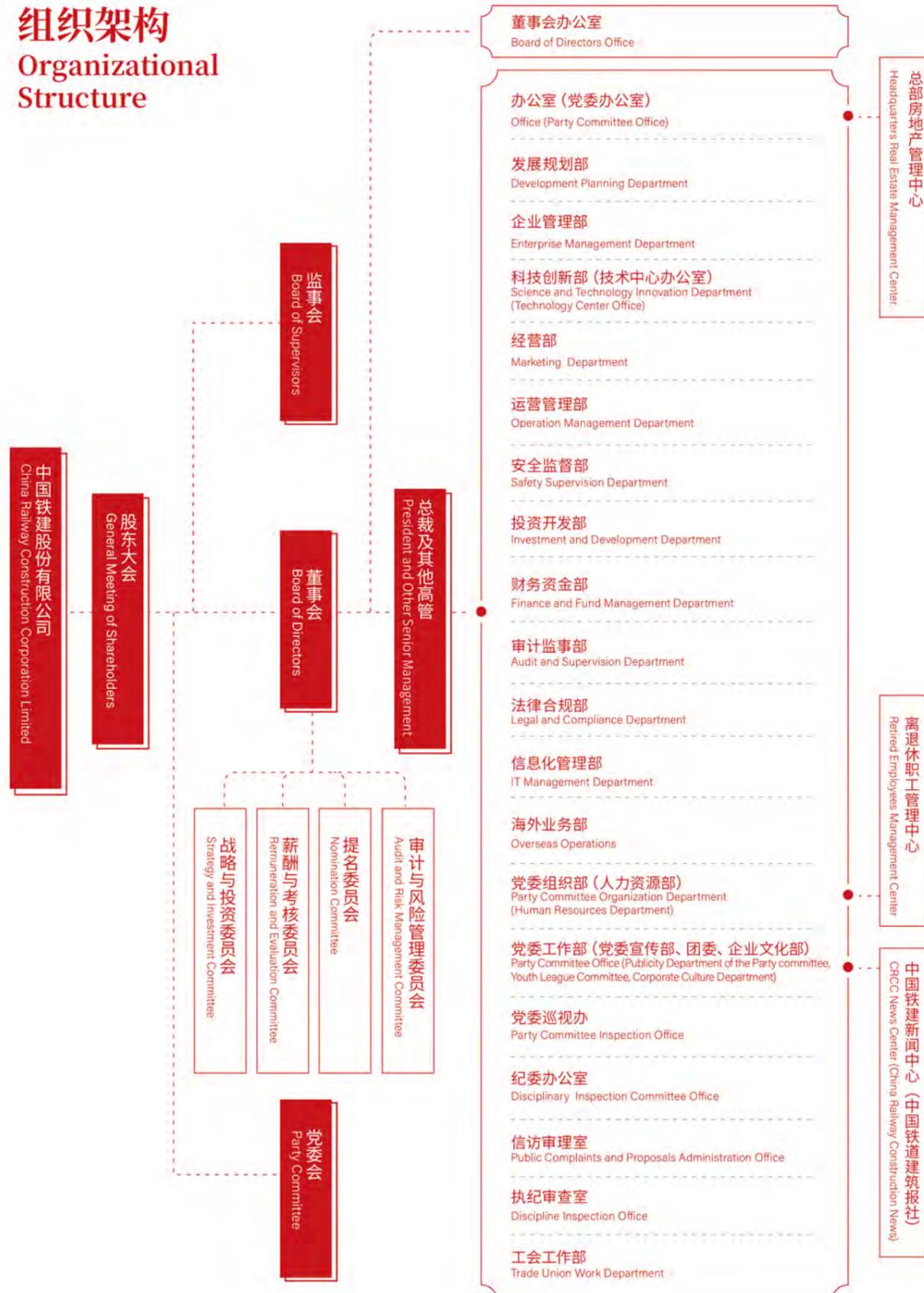


主要子公司 Major Subsidiaries

中国铁路股份有限公司
China Railway Construction Corporation Limited

- | | |
|--|---|
| 中国土木工程集团有限公司 (北京)
China Civil Engineering Construction Corporation (Beijing) | 中国铁建港航局集团有限公司 (珠海)
CRCC Harbour and Channel Engineering Bureau Group Co., Ltd. (Zhuhai) |
| 中铁十一局集团有限公司 (武汉)
China Railway 11th Bureau Group Co., Ltd. (Wuhan) | 中国铁建房地产集团有限公司 (北京)
China Railway Construction Real Estate Group Co., Ltd. (Beijing) |
| 中铁十二局集团有限公司 (太原)
China Railway 12th Bureau Group Co., Ltd. (Taiyuan) | 中铁第一勘察设计院集团有限公司 (西安)
China Railway First Survey and Design Institute Group Co., Ltd. (Xi'an) |
| 中国铁建大桥工程局集团有限公司 (天津)
China Railway Construction Bridge Engineering Bureau Group Co., Ltd. (Tianjin) | 中铁第四勘察设计院集团有限公司 (武汉)
China Railway SIYUAN Survey and Design Group Co., Ltd. (Wuhan) |
| 中铁十四局集团有限公司 (济南)
China Railway 14th Bureau Group Co., Ltd. (Jinan) | 中铁第五勘察设计院集团有限公司 (北京)
China Railway Fifth Survey and Design Institute Group Co., Ltd. (Beijing) |
| 中铁十五局集团有限公司 (上海)
China Railway 15th Bureau Group Co., Ltd. (Shanghai) | 中铁上海设计院集团有限公司 (上海)
China Railway Shanghai Design Institute Group Co., Ltd. (Shanghai) |
| 中铁十六局集团有限公司 (北京)
China Railway 16th Bureau Group Co., Ltd. (Beijing) | 中铁物资集团有限公司 (北京)
China Railway Material Group Co., Ltd. (Beijing) |
| 中铁十七局集团有限公司 (太原)
China Railway 17th Bureau Group Co., Ltd. (Taiyuan) | 中国铁建重工集团股份有限公司 (长沙)
China Railway Construction Heavy Industry Group Co., Ltd. (Changsha) |
| 中铁十八局集团有限公司 (天津)
China Railway 18th Bureau Group Co., Ltd. (Tianjin) | 中国铁建国际集团有限公司 (北京)
China Railway Construction Corporation (International) Limited (Beijing) |
| 中铁十九局集团有限公司 (北京)
China Railway 19th Bureau Group Co., Ltd. (Beijing) | 中铁城建集团有限公司 (长沙)
China Railway Urban Construction Group Co., Ltd. (Changsha) |
| 中铁二十局集团有限公司 (西安)
China Railway 20th Bureau Group Co., Ltd. (Xi'an) | 中国铁建投资集团有限公司 (珠海)
China Railway Construction Investment Group Co., Ltd. (Zhuhai) |
| 中铁二十一局集团有限公司 (兰州)
China Railway 21st Bureau Group Co., Ltd. (Lanzhou) | 中国铁建昆仑投资集团有限公司 (成都)
China Railway Kunlun Investment Group Co., Ltd. (Chengdu) |
| 中铁二十二局集团有限公司 (北京)
China Railway 22nd Bureau Group Co., Ltd. (Beijing) | 中铁建资本控股集团有限公司 (深圳)
China Railway Construction Corporation Capital Holdings Group Co., Ltd. (Shenzhen) |
| 中铁二十三局集团有限公司 (成都)
China Railway 23rd Bureau Group Co., Ltd. (Chengdu) | 中国铁建财务有限公司 (北京)
CRCC Finance Company Limited (Beijing) |
| 中铁二十四局集团有限公司 (上海)
China Railway 24th Bureau Group Co., Ltd. (Shanghai) | 中铁磁浮交通投资建设有限公司 (武汉)
China Railway Maglev Transportation Investment Construction Co., Ltd. (Wuhan) |
| 中铁二十五局集团有限公司 (广州)
China Railway 25th Bureau Group Co., Ltd. (Guangzhou) | 中铁建国际投资有限公司 (广州)
China Railway Construction Corporation International Investment Co., Ltd. (Guangzhou) |
| 中铁建设集团有限公司 (北京)
China Railway Construction Group Co., Ltd. (Beijing) | 中铁建发展集团有限公司 (北京)
China Railway Construction Corporation Development Group Co., Ltd. (Beijing) |
| 中国铁建电气化局集团有限公司 (北京)
China Railway Construction Electrification Bureau Group Co., Ltd. (Beijing) | 中铁建交通运营集团有限公司 (天津)
China Railway Construction Corporation Transportation Operation Co., Ltd. (Tianjin) |

组织架构 Organizational Structure



风险与合规管理 Risk and Compliance Management

中国铁建编制《合规风险评估报告》及《中国铁建2022年合规风险清单》，不断突出战略引领，强化风险防控，构建科学规范的公司治理体系，推动企业依法合规开展各项经营活动。

公司坚持底线思维，贯彻落实《企业内部控制基本规范》的要求，制定《关于构建“大监督”体系的指导意见》，修订《风险管理与内部控制办法》，优化重构风险内控组织体系，建立“纵横结合、协同监督”风险内控组织架构，形成集中管理、高效协同、信息共享、成果共用的风险防控新格局，助力推进公司治理体系和治理能力现代化。

公司进一步健全风险管控机制，深入开展内控执行专项整治，加快推进风险内控信息化建设，助推“大风控”体系建设走深走实，提升堵漏洞、强内控、化风险的能力，不断健全风险预警机制、评估机制、追责机制，把风险管理、合规管理与企业中心工作、业务工作深度融合，推进企业高质量发展。

In order to promote all business activities to be compliant with the law, CRCC has compiled the *Compliance Risk Assessment Report* and the *CRCC Compliance Risk List 2022*. This has highlighted the guiding role of strategies in governance system and our intensified efforts on risk prevention and control, thus contributing to the science-based and standardized corporate governance system.

Upholding the bottom-line thinking, we have implemented the requirements of the *Basic Standards for Corporate Internal Control*, formulated the *Guidance on Building a "Comprehensive Supervision" System*, revised the *Risk Management and Internal Control Measures*, in an effort to optimize and reconstruct the internal system for risk control, and establish a "vertical and horizontal supervision combined" internal risk control system. We have formed a new risk control system with centralized management, efficient coordination, and shared information and results. As a result, we have promoted the modernization of the corporate governance system and governance capabilities.

CRCC further improves the risk control mechanism. We have launched a special rectification of internal control and accelerated the informatization of risk internal control, to promote the establishment of "comprehensive risk control" system and to better prevent loopholes, strengthen internal control and resolve risks. As we constantly refine the mechanism for risk warning, assessment and accountability, and integrate risk management and compliance management into the central and business work of the Company, we have bolstered the high-quality development.

2022
审计风险管理委员会召开会议7次，共听取、审议通过24项议案。

The Audit and Risk Management Committee held 7 meetings, and accepted and approved 24 proposals.



案例 Case

打造“中国铁建云风控监测中心” The "CRCC Online Risk Control Monitoring Center" built

中国铁建以“简单有效、智能分析、实时响应、真实可靠”为建设目标，打造“中国铁建云风控监测中心”系统，融合内部信息收集、外部信息获取、以及风险监测、风险预警、统计分析、报告输出等多项核心功能。公司各级、各业务均可在权限范围内实时查找、分析、利用风险信息，大幅提升风险信息的收集、统计、分析、发布、预警、震慑作用，助推公司持续提升风险管理工作。

CRCC has built the "CRCC Online Risk Control Monitoring Center" in a bid to realize the goal of "simple, effective, real and reliable information with intelligent analysis and real-time response". The system has a number of core functions such as internal information collection, external information acquisition, risk monitoring, risk warning, statistical analysis, and reporting. All levels and businesses of the Company can find, analyze and utilize information about risks in real time once authenticated, which greatly enhances the collection, statistics, analysis, release, and early warning of risk information and helps the Company to continuously improve risk management.

完善公司治理 Corporate Governance Improvement

中国铁建坚持将党的领导融入公司治理，完善“三重一大”和党委前置研究讨论机制，进一步规范明晰党委会、董事会、经理层职责定位，注重发挥董事会集体决策的制度优势，促进各治理主体依法合规协调运转，公司治理效能持续提升。一是优化调整“三重一大”决策事项清单，持续完善董事会建设“1+N”制度体系，构建科学规范的公司治理体系。二是突出战略引领，科学高效决策，强化风险防控。三是以完善现代企业制度专项改革为契机，持续推动公司治理向下贯通，实现纳入应建范围董事会应建尽建、配齐建强、外部董事占多数；建立董事会授权管理制度，落实子企业董事会职权。

CRCC unswervingly integrates the Party leadership into corporate governance, improving the mechanism of "three important and one major (the decision-making system of major issues, major officials appointment, major project arrangements, and use of large-volume capital)" and the research and discussion by Party Committee in advance. We further clarify the responsibilities and positioning of the Party Committee, the Board of Directors (the Board) and the management while leveraging the collective decision-making of the Board. Thus, we have promoted the coordinated operation of each governance body in accordance with the law and enhanced the effectiveness of corporate governance. Firstly, to build a science-based and standardized corporate governance system, we have fine-tuned the list of "three important and one major" decision-making and continued to improve the "1+N" system of the Board. Secondly, guided by strategies, we have made scientific and efficient decisions and strengthened risk prevention and control. Thirdly, taking the opportunity of the special reform on the modern corporate system, we have unyieldingly enabled top-down corporate governance, established the Boards of Directors in subsidiaries when it is necessary with a majority of external directors; and built the authorization management of the Board to enable the Board of subsidiaries to exercise their rights.

2022
公司修订、制订《公司章程》《董事会议事规则》等12个制度
The Company revised and formulated 12 regulations, including the *Articles of Association* and the *Rules of Procedure of the Board of Directors*

召开股东大会1次，对15项议案进行审议并形成决议
The General Meeting of Shareholders was convened once, reviewing and agreeing on 15 proposals

董事会召开会议13次，对69项议案进行审议并形成决议，听取9个汇报事项
The Board held 13 meetings, reviewing and agreeing on 69 proposals while receiving the reporting on 9 issues

董事会各专门委员会召开会议23次，对49项议案进行审议并形成专项意见
The specialized committees of the Board held 23 meetings, deliberated on 49 proposals and formed special opinions

监事会召开会议5次
The Board of supervisors held 5 meetings

审议通过21项议案
Deliberating and approving 21 proposals

公司治理

CORPORATE GOVERNANCE



中国铁建认真贯彻落实党中央、国务院关于加快完善中国特色现代企业制度、促进制度优势更好转化为治理效能的要求，坚持发挥改革示范引领作用，在完善公司治理、依法合规管理、强化风险管控、倡导诚信廉洁等方面，加快提升公司治理水平，切实提升公司治理效能，巩固高质量发展根基。

CRCC implements the requirements made by the CPC Central Committee and the State Council on accelerating the improvement of the modern corporate system with distinctive Chinese features and promoting the process to translate the state's institutional strengths into effective governance. As CRCC resolves to take the lead in the reform, the Company steps up efforts to enhance the level and effectiveness of corporate governance in terms of law-based compliance management, risk management and control, and advocate for integrity and honesty, etc., thereby consolidating high-quality development.

强化信息披露 Information Disclosure

公司严格按照上市地上市规则的要求，真实、准确、完整、及时、公开披露信息，持续提升信息披露质量和透明度，增强披露内容的针对性和有效性。2022年，公司在上海证券交易所、香港交易所共披露各类中英文文件298份，连续第9年获得上海证券交易所信息披露工作最高评级A级。

公司重视与投资者的交流，通过业绩说明会、投资者关系热线电话、专用邮箱、“上证E互动”平台、反向路演等多种途径，及时回复投资者提出的问题，加强与投资者的交流。

Strictly following the listing rules where we are listed, we disclose authentic, accurate, complete, and timely information in a fair manner, make information disclosure more targeted and effective, and improve information quality and transparency. In 2022, we disclosed 298 documents in both Chinese and English on the Shanghai Stock Exchange and the Hong Kong Stock Exchange. For nine years in a row, we have been rated at A, the highest level, in information disclosure by the Shanghai Stock Exchange.

The Company attaches great importance to communication with investors, and responds to the questions raised by investors on time through the performance briefings, investor relations hotline, special email, "SSE E-interaction" platform, reverse roadshow, and other ways to strengthen our communication with investors.

2022

安排投资者和分析师见面会及电话会**32**场
接待来访**555**人次

We arranged 32 meetings and telephone conferences for investors and analysts, and received 555 visits

参加投资者和分析师会议**25**次
接待投资者**727**人次

We attended 25 investor and analyst meetings and received 727 visits from investors

召开业绩发布会**4**次
接待机构投资者**206**人次

We held four performance press conferences and received 206 visits from institutional investors

举办网络业绩说明会**3**场
后台访问量**1331**次

We held three online performance briefings with 1,331 background visits

举办年报路演会议共**19**场，接待**364**名投资者

Arranged 19 roadshows, receiving 364 investors

2022年 我们的荣誉

Honor 2022

第十七届中国上市公司董事会“金圆桌”评选“优秀董事会奖”

The Award for the Best Board of Directors in the 17th "Golden Round Table Award" for Boards of Listed Companies in China

第十三届中国上市公司投资者关系天马奖“投资者关系最佳新媒体运营奖”“投资者关系最佳董事会奖”

Best New Media Operator Award and Best Board of Director Award in the "Tianma Award-The 13th Chinese Listed Companies Investor Relations Selection"

第二十二届中国上市公司百强高峰论坛“中国百强企业奖”“中国百强特别贡献企业奖”

Top 100 Chinese Enterprises Award and Top 100 Chinese Enterprises with Special Contribution Award at the 22nd China Top 100 Listed Companies Summit Forum

第十六届中国上市公司价值评选的“中国上市公司ESG百强”

Top 100 ESG listed companies in China in the 16th China Listed Companies Value Awards

第十二届香港国际金融论坛暨中国证券“金紫荆奖”年度特别奖“最具投资价值高质量发展上市公司奖”

Listed Company with Best Investment Value and High Quality Development Award in the 12th Hong Kong International Finance Forum and China Securities Golden Bauhinia Awards

《财经》杂志第五届长青奖“可持续发展普惠奖”

Sustainable and Inclusive Development Award at the fifth Caijing Evergreen Award





作为联合国全球契约组织的一员，中国铁建持续健全社会责任管理体系，以责任治理为基础，以利益相关方沟通和参与为保障，扎实开展社会责任工作，推动社会责任管理融入工作实践，塑造负责任的品牌形象。

As a member of the United Nations Global Compact, CRCC continues to improve the CSR management system. Based on CSR governance, we work to facilitate stakeholder communication and participation, and take solid actions to fulfill our social responsibilities. By making CSR part of our work, we aim to build an image of a responsible brand.

企业文化与品牌 Corporate Culture and Brand

为更好践行可持续发展理念，中国铁建始终坚持为客户提供满意工程和服务、为员工拓展成长空间、为股东提供丰厚回报、与伙伴共建良性生态、为行业贡献卓越引领、为社会营造绿色和谐。

To better realize sustainable development, CRCC always provides customers with satisfactory projects and services, offers opportunities to employees, and secures high returns for shareholders. We also strive to build a sound ecosystem with partners, lead the development of the industry, and make the world go green and harmonious.

中国铁建文化纲领

CRCC CULTURAL PROGRAMME

理念篇

Concept chapter

企业使命：编织大地经纬 成就美好未来

企业愿景：最值得信赖的世界一流综合建设产业集团

企业价值观：诚信创新永恒 精品人品同在

企业精神：逢山凿路 遇水架桥

Mission: Weaving the longitude and latitude lines on earth to achieve a better future

Vision: To be a world-class infrastructure builder you may rely on

Core Values: Honesty and innovation forever, quality and morality together

Spirit: Surmount all obstacles

行为篇

Conduct chapter

行为总则：尽心尽责 实干实效 向新向前 共进共赢

Code of Conduct: Accountable, pragmatic, progressive, win-win

管理篇

Management chapter

安全理念：生命至上，预防为主

环保理念：绿色发展，和谐共生

质量理念：精益求精，善作善成

人才理念：以人为本，德才兼备

经营理念：品质为基，客户为先

廉洁理念：正道正行，律己律人

Safety: Life and safety first, precaution is crucial

Quality: Keep improving and make good performance

Operation: Quality based, Customer first

Environmental protection: Green development, harmonious coexistence

Talents: People oriented, with ability and virtue

Political integrity: Do what is right with self-discipline

中国铁建品牌宣言

China railway construction brand declaration

品牌定位
Brand positioning

美好生活建造者
Builder of a Better Life

品牌愿景
Brand vision

最值得信赖的世界一流
综合建设产业集团
To be a world-class infrastructure
builder you may rely on

品牌核心价值
Brand core value

品质铁建 连通世界
Quality and Connectivity

品牌个性
Brand personality

重诺 坚毅 品质 共生
Commitment, perseverance, quality,
symbiosis

品牌口号
Brand slogan

建设现在 引领未来/
品质铁建 连通世界
Building the present, leading the
future/Quality Railway Construction,
connecting the world

文化与品牌宣讲活动

Culture and brand promotion campaigns

中国铁建加速推进新时代企业文化与品牌提升工作，推广《中国铁建文化纲领》和《中国铁建品牌宣言》，组织开展“新时代中国铁建文化与品牌理念宣讲活动”，营造出广泛宣传、人人学习、有层次有步骤塑造文化品牌内涵的良好氛围。

《新时代中国铁建品牌提升》案例被评为中央企业优秀品牌案例，10个案例和2个基地被评为中国铁道企业优秀文化建设案例和示范基地。微视频《大城小路》获中宣部、中央文明办二等奖和中央企业优秀品牌故事奖。在中央企业优秀故事创作展示活动中，获1个一等奖、3个二等奖、4个三等奖和5个优秀奖，第4次被授予“优秀组织单位”称号。《峰爆》获中宣部“五个一工程”奖电影类优秀作品奖，斩获中美电影节最佳影片金天使奖，被国家电影局列为党的十九大以来的20部优秀电影作品，在全国院线和上星频道展播半年；被中宣部收入《2021中国电影集锦》。

We have intensified efforts to promote our corporate culture and brand in the new era. For example, we have published the *Cultural Guideline of CRCC and the Brand Declaration of CRCC*, and organized a series of events to spread our cultural and branding concepts in the new era. These activities help create a positive atmosphere for widespread publicity, knowledge sharing, and a systematic approach to shaping the essence of our culture and brand.

Our efforts to enhance our brand in the new era have been recognized through various awards and accolades. In 2022, the case *Brand Enhancement of CRCC in the New Era* was recognized as an outstanding brand case for central SOEs, while ten cases and two bases received awards for outstanding cultural construction cases and demonstration bases for Chinese railway enterprises. The micro-video *Big City, Small Roads* won the second prize from the Publicity Department of the Central Committee of the Communist Party of China (CPC) and the Office of Spiritual Civilization Development Steering Commission of the Central Committee of the CPC, as well as the Outstanding Brand Story Award for Central State-owned Enterprises. In the Outstanding Story Creation and Display Exhibition for Central State-owned Enterprises, we won 1 first prize, 3 second prizes, 4 third prizes, and 5 outstanding prizes, and were awarded the title of "Outstanding Organizer" for the fourth time. The film *Cloudy Mountain* won the national "Five-One Project" award for Outstanding Works in the Film Category from the Publicity Department of the CPC Central Committee, as well as the Golden Angel Award for Outstanding Films at the Chinese American Film Festival. It was also listed as one of the 20 outstanding films since the 19th CPC National Congress by the China Film Administration, and was broadcasted for half a year on national cinemas and satellite channels. It was also included in the *2021 Collection of Chinese Films* by the Publicity Department of the CPC Central Committee.

贡献联合国可持续发展目标

Contribution to the UN SDGs

公司以打造最值得信赖的世界一流综合建设产业集团为愿景，践行创新、协调、绿色、开放、共享的新发展理念，积极履行社会责任，确保企业与社会和谐发展。

为履行社会责任，公司建立健全社会责任组织体系，修订完善社会责任管理制度，开展社会责任培训，全面提升责任意识和履责能力。公司对标落实联合国2030可持续发展目标 (SDGs)，识别出无贫穷，体面工作和经济增长，产业、创新和基础设施，可持续城市和社区，气候行动，陆地生物等六个可持续发展重点目标，融入到企业日常经营管理，系统推进社会责任工作，为联合国SDGs的实现贡献力量。

Committed to the vision of being a world-class infrastructure you may rely on, we uphold the new development philosophy of innovation, coordination, green, openness, and sharing, and actively fulfill our social responsibilities to ensure the harmonious development with society.

As part of our CSR commitment, we work to establish a sound CSR organization system, and have revised the CSR management system, and carried out CSR training to improve employees' CSR awareness and capability. Benchmarking against the United Nations' 2030 Sustainable Development Goals (SDGs), we identify six key goals associated with our business and integrate them into our routine management, including No poverty; Decent Work and Economic Growth; Industry, Innovation and Infrastructure; Sustainable Cities and Communities; Climate Action; and Life on Land. By systematically advancing CSR work, we aim to contribute to the realization of the UN SDGs.

目标1: 无贫穷 目标8: 体面工作和经济增长 目标9: 产业、创新和基础设施 目标11: 可持续城市和社区 目标13: 气候行动 目标15: 陆地生物



实质性议题分析

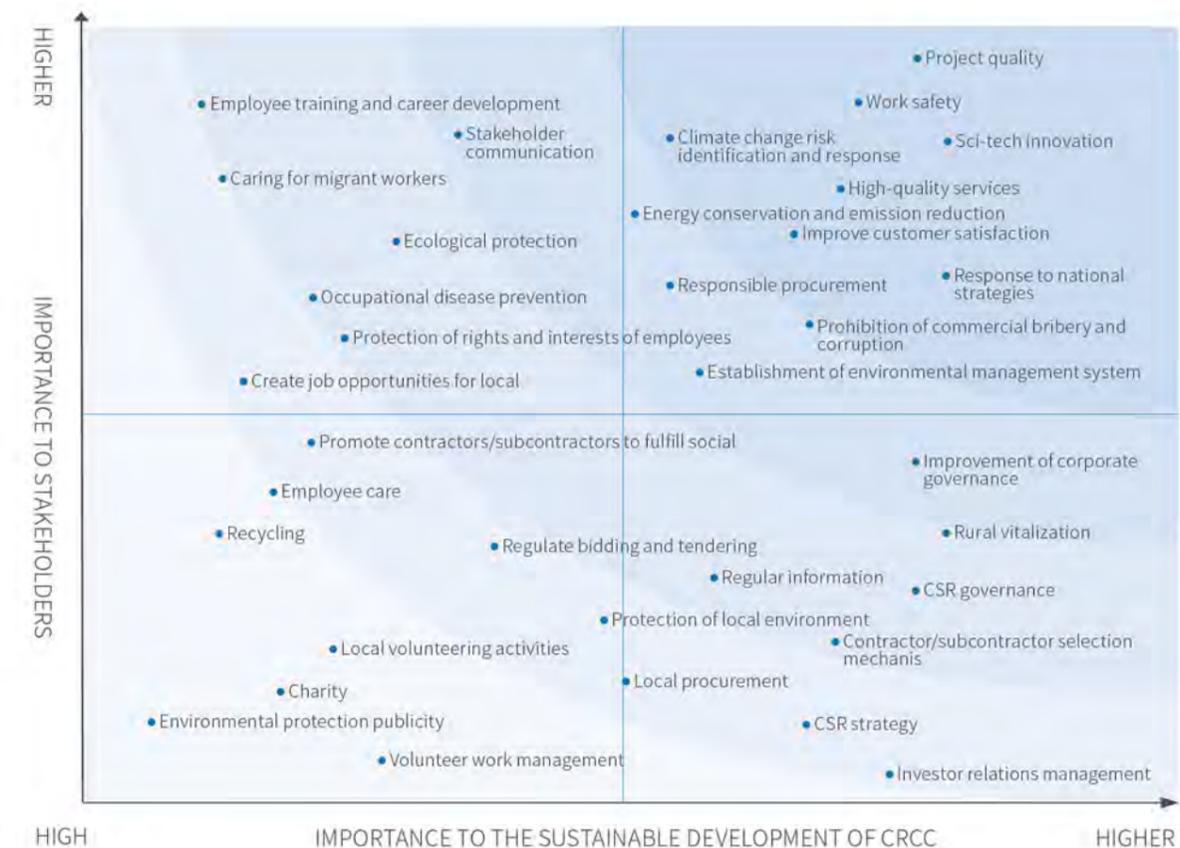
Material Topics Analysis

公司基于国内外社会责任标准、政府政策要求、利益相关方调研、优秀企业对标，结合公司发展战略与规划，建立公司的社会责任议题池。

公司分析比较不同的社会责任议题对利益相关方的影响和对公司自身发展的重要性，建立二维矩阵，分析得出实质性议题，有针对性披露相关议题内容。

Based on the social responsibility standards at home and abroad, government policy requirements, stakeholder survey, excellent enterprise benchmarking as well as the Company's development strategy and planning, we have established a pool of CSR topics.

After analyzing and comparing the impact of different CSR topics on stakeholders and their importance to the Company's own development, the Company establishes a two-dimensional matrix, and then obtains the Company's material topics for targeted disclosure.



利益相关方沟通

Stakeholder Communication

公司重视与利益相关方的沟通，强化多渠道沟通机制，深入了解利益相关方的期望与诉求，并以实际行动积极回应。公司连续15年发布社会责任报告，向利益相关方系统披露我们在经济、社会与环境方面的履责行动及成效，与利益相关方坦诚沟通、共谋发展。

We value communication with our stakeholders. Based on the multi-channel communication, we strive to understand the expectations and demands of stakeholders in depth, and actively respond to them. We have released social responsibility report for 15 consecutive years to disclose to the stakeholders our performance and achievement in economic, social and environmental aspects, in a bid to communicate candidly with stakeholders for common development.

利益相关方 Stakeholder	期望与要求 Expectations and Requirements	沟通机制与方式 Engagement Mechanism and Methods
政府 (中国政府与业务所在地政府) Governments (including the Chinese Government and local governments where the business is located)	<ul style="list-style-type: none"> 遵守相关法律法规 Abide by related laws and regulations 增加税收 Increase taxes 带动就业 Create job opportunities 创新技术 Develop innovative technologies 建设民族品牌 Build a national brand 	<ul style="list-style-type: none"> 参加相关会议 Attend relevant meetings 专题汇报、统计报表、信息报送 Special-topic reports, statistical statement and information reporting
国务院国资委 SASAC	<ul style="list-style-type: none"> 不断提升盈利能力和核心竞争力 Constantly improve the profitability and core competitiveness of the Company 全面风险管理 Implement comprehensive risk management 确保国有资产保值、增值 Maintain and increase the value of state-owned assets 	<ul style="list-style-type: none"> 落实相关文件要求 Practice relevant requirements of policies 参加会议并落实会议精神 Attend meetings and implement the guiding principles of meeting 定期汇报 Regular reporting 业务主管部门定期沟通、报送报表 Regular communication and report submission of competent authorities for business
投资者及金融机构 Investors and financial institutions	<ul style="list-style-type: none"> 提高价值与市值 Improve corporate value and market value 降低企业风险 Reduce corporate risks 保证可持续发展 Guarantee sustainable development 诚信履约 Honor contract with integrity 	<ul style="list-style-type: none"> 定期与临时报告 Periodic and interim reports 股东大会与投资者见面会 General Meeting of Shareholders and investors meeting 合同执行 Contract execution 定期拜访 Regular visits 业务人员日常交流 Daily communication of business personnel
业主与客户 Owners and customers	<ul style="list-style-type: none"> 提供优质、价格合理的产品和服务，并不断改进 Provide quality products and services at reasonable prices and make constant improvements 	<ul style="list-style-type: none"> 合同执行 Contract performance 高层会晤 High-level meetings 文件函电往来 Business correspondence 业主评价与管理 Evaluation and management of proprietors 招投标管理 Bidding and tendering management 日常沟通 Day-to-day communications

利益相关方 Stakeholder	期望与要求 Expectations and Requirements	沟通机制与方式 Engagement Mechanism and Methods
供应商与分包商 Suppliers and subcontractors	<ul style="list-style-type: none"> 保持稳定合作关系 Maintain stable partnerships 合理的价格 Keep reasonable prices 互助双赢 Achieve win-win results by mutual support 	<ul style="list-style-type: none"> 招投标、商业谈判 Bidding & tendering and business negotiations 合同执行、业务函电往来 Contract performance and business correspondence 不定期沟通 Irregular communication
合作伙伴 Partners	<ul style="list-style-type: none"> 资源共享 Resource sharing 合作共赢 Win-win cooperation 长期稳定沟通 Long-term and stable communication 	<ul style="list-style-type: none"> 协议合同执行 Agreement and contract execution 高层互访 High-level mutual visits 定期会议 Regular meetings 多渠道合作研究 Research on multi-channel cooperation 谈判与交流 Negotiation and exchange
员工 Employees	<ul style="list-style-type: none"> 提供良好薪酬福利 Provide good compensation and benefits 提供培训与成长机会 Provide training and growth opportunities 提供良好工作环境 Provide a good working environment 	<ul style="list-style-type: none"> 职工监事 Employee supervisors 征求合理化建议 Solicit for reasonable proposals 日常工作沟通 Day-to-day work communications
工会组织 Trade unions	<ul style="list-style-type: none"> 符合工会组织的要求 Align with the requirements of trade unions 尊重劳动权利 Respect the right to work 维护员工合法权益 Maintain legitimate rights and interests of employees 	<ul style="list-style-type: none"> 职工代表大会 Staff congress 公司重大决策参与权 Right to participate in major decisions of the Company 工会代表与联络人定期沟通 Regular communication between trade union representatives and contacts
环境 Environment	<ul style="list-style-type: none"> 助力“碳达峰、碳中和” Contribute to China's 30·60 Decarbonization Goal 减少三废，节约资源 Reduce waste water, gas, solid waste and save resources 生态保护 Ecological protection 环保公益 Environmental charity 	<ul style="list-style-type: none"> 信息公开披露 Information disclosure 项目环境与社会风险评估 Project environmental and social risk assessment 绿色设计 Green design 绿色建造 Green construction 绿色办公 Green Office 绿色发展 Green development
社区 Communities	<ul style="list-style-type: none"> 文明生产 Ensure eco-friendly and well-managed production 构建和谐繁荣社区 Build harmonious and prosperous communities 	<ul style="list-style-type: none"> 文明共建 Jointly build harmonious and prosperous communities 参与社区公益活动 Participate in charitable activities of communities
对公司感兴趣的个人、团体和媒体 Individuals, groups and media who are interested in CRCC	<ul style="list-style-type: none"> 做负责任的企业，实现可持续发展 Be a responsible enterprise and realize sustainable development 	<ul style="list-style-type: none"> 依法披露信息 Disclose information according to law 新闻发布会 Press conferences 新闻报道与宣传 News report and publicity

责任聚焦

CSR SPOTLIGHTS

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坚持党建经营融合

Integrating Party building and business operations

我们深化党建与业务融合，编写出版《中国铁建党建工作与生产经营深度融合探索实践》，严格落实“四同步”“四对接”原则，寻求党建工作与生产经营有效融合的途径和方法。创新开展工会、共青团工作，加强思想政治教育，密切联系群众，将党的政治优势、组织优势和群众工作优势转化为企业的创新优势和发展优势。

To integrate Party building with our business operations, we have published the *Exploration and Practice of the Deep Integration of Party Building and Production and Operation in China Railway Construction Corporation*. We work diligently to ensure that Party building work is planned in sync with the reform of state-owned enterprises, Party organizations and work mechanisms are established simultaneously with the enterprise, Party organization leaders and Party work staff are equipped simultaneously, and Party work is carried out simultaneously. This involves achieving alignment in systems, mechanisms, institutions, and work. We are continuously seeking effective ways to combine Party building work with our production and operation. We also explore new approaches to trade unions and Communist Youth League work, strengthening ideological and political education, and building stronger connections with our employees. By leveraging the Party's political, organizational, and mass work advantages, we aim to foster innovation and development within the Company.

从严治党反腐倡廉

Strictly governing the Party and combating corruption with integrity

我们全面落实从严治党要求，坚持不懈强化政治监督，做到“两个维护”、压实“两个责任”、推进“三不”方针方略、纠治“四风”顽疾，持续提升党风廉政建设和反腐败工作水平。

公司加强“不能腐”制度机制建设，制定关于“一把手”和领导班子监督、物资产品采购业务招待、《“行贿人黑名单”管理办法（试行）》等30余项制度，进一步堵塞管理漏洞，持续推进“大数据”监督和工程项目纪检监督落实落细。

We fully implement the requirements of strict Party governance and persistently strengthen political supervision. We uphold Comrade Xi Jinping's core position on the Party Central Committee and in the Party as a whole and uphold the Central Committee's authority and its centralized, unified leadership. We implement the system of accountability for improving Party conduct and upholding integrity under which the Party committees shoulder the major responsibility, and the Party commission for discipline inspection is responsible for supervision. We work to ensure that officials do not dare, are not able, and have no desire to be corrupt, and take stern action against formalities performed for formalities' sake, bureaucratism, hedonism, and extravagance. We strive to do more to improve Party conduct, build a clean company, and fight corruption.

We strengthen the construction of the "incorruptible" institutional mechanism, formulating more than 30 institutional measures, such as supervision of the "top leader" and the leadership team, procurement of materials and goods, business hospitality, and Measures for the *Management of "Blacklist" of Bribe Givers (for trial implementation)*, so as to eliminate management loopholes. Additionally, we continue to promote the implementation of "big data" supervision and project inspection and supervision.

开展“大数据”监督试点

Implementing a pilot program for big data-enabled supervision

案例 Case

中国铁建认真落实关于创新监督方式的要求，督促所属单位开展“大数据”监督的可行性研究，推进现代信息技术与监督执纪工作有机融合，推动全系统“大数据”监督工作迈出坚实步伐。

公司将巡视和日常检查相结合，圆满完成巡视全覆盖任务，查处违反中央八项规定精神的典型问题。开展廉洁谈话超1万人次，召开警示教育大会、反腐倡廉宣传教育月活动，举办项目经理廉洁座谈会3626场次，征集廉洁短信4万余条，营造浓厚崇廉尚廉氛围。

Following the guidelines on implementing innovative supervision methods, we encourage our affiliated units to conduct feasibility studies on using big data for supervision purposes, and actively promote the integration of modern information technology with our supervision and enforcement work. As a result, we have taken significant strides in implementing big data-enabled supervision throughout our entire system.

We have achieved our goal of inspecting all areas by combining daily inspections with regular checks, and has identified and addressed typical violations of the CPC Central Committee's eight-point code of conduct. Throughout the year, we conducted more than 10,000 pre-appointment integrity talks with newly appointed leaders, held an annual warning education conference, carried out anti-corruption and integrity propaganda and education month activities, held 3,626 anti-corruption talks for project managers, and collected over 40,000 messages promoting integrity. All of these efforts help create a strong atmosphere of promoting honesty and integrity.

2022年是党的二十大召开之年，中国铁建坚持以习近平新时代中国特色社会主义思想为指导，以迎接和学习宣传贯彻党的二十大精神为主线，凝聚干事创业的磅礴伟力，以高质量党建为引领，向着建设最值得信赖的世界一流综合建设产业集团的企业愿景逐梦前行。

The year 2022 witnessed the convening of the 20th National Congress of the Communist Party of China. We stay committed to following the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era. Taking the preparation for the CPC's 20th National Congress and the study, publicity and implementation of its guiding principles as our main priority, we bring together the collective energy and entrepreneurial spirit of our employees. Guided by high-quality party-building efforts, we strive to achieve our vision of creating a world-class infrastructure builder you may rely on.

加强党的政治建设

Strengthening the political building of the Party

我们开展习近平总书记重要指示批示精神再学习再落实再提升主题活动，深入落实习近平总书记对本行业本企业的重要指示精神。深刻领悟“两个确立”的决定性意义，树牢“四个意识”、坚定“四个自信”、做到“两个维护”。按照党中央和国资委党委部署，把学习宣传贯彻党的二十大精神作为一项重大政治任务，深入开展“建功新时代、喜迎二十大”活动，巩固深化党史学习教育成果；迅速掀起二十大精神学习热潮，引导全体党员和广大员工深刻理解、准确把握二十大精神。

We have carried out themed activities to revisit, reimplement and carry forward the important instructions and directives given by General Secretary Xi Jinping to the industry and the Company. We have acquired a deep understanding of the decisive significance of establishing Comrade Xi Jinping's core position on the Party Central Committee and in the Party as a whole and of establishing the guiding role of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era. We are deeply conscious of the need to maintain political integrity, think in big-picture terms, follow the leadership core, and keep in alignment with the central Party leadership. We stay confident in the path, theory, system, and culture of socialism with Chinese characteristics. We also uphold Comrade Xi Jinping's core position on the Party Central Committee and in the Party as a whole and uphold the Central Committee's authority and its centralized, unified leadership.

Following the directives of the Party Central Committee and the Party Committee of SASAC, we consider the study, publicity, and implementation of the spirit of the 20th CPC National Congress as a major political task. We have launched an event under the theme of "Forging Ahead in the New Era: Celebrating the 20th National Congress of the Communist Party of China", which aims to consolidate and build upon the achievements of our educational campaign on the history of the CPC. Additionally, we have ignited a passion for learning about the spirit of the 20th CPC National Congress, inspiring all Party members and employees to gain a profound and precise understanding of its core principles.

加强党的组织建设

Strengthening the organizational building of the Party

我们全面贯彻新时代党的建设总要求和党的组织路线，坚持党的领导、加强党的建设，发扬“支部建在连上”优良传统，狠抓“三基建设”，开设党支部书记培训示范班、“党建大讲堂”等活动，努力成为党和国家最可信赖的“六种力量”，始终以高质量党建引领保障企业高质量发展。

We are committed to fully implementing the Party's organizational line and the general requirements for Party building in the new era, upholding Party leadership and strengthening Party building. We are dedicated to carrying forward the fine tradition of "establishing Party branches in connection with military units" and paying close attention to the "construction of three basics." We have established training demonstration courses for Party branch secretaries and organized "Party building lectures" and other activities to further enhance our Party building efforts. As a state-owned enterprise, or the "six important forces" (the most reliable force for the Party and the country, an important force for implementing the CPC Central Committee's decisions and plans, an important force for implementing the new development concept and deepening reform, an important force for implementing major strategies such as "going global" and the Belt and Road Initiative, an important force for enhancing comprehensive national strength, promoting economic and social development, and safeguarding and improving people's well-being, and an important force for the Party to win great victories in the struggle with many new historical characteristics), we pursue high-quality development of the Company under the guidance of high-quality Party building.

强「根」铸「魂」，喜迎二十大
Preparing for the 20th CPC National Congress
with Strong Roots and a Powerful Spirit

聚焦
Spotlight 1

研发绿色装备

Developing green equipment

中国铁建布局并深耕绿色环保产业，研制大批新能源装备，为行业发展提供源源不断的绿色动力。

To promote and advance the green and environmental protection industry, we actively research and develop new energy equipment that will provide a sustainable source of green power for the industry's development.

案例 Case

为高原隧道施工提供绿色装备

Providing green equipment for plateau tunnel construction

中铁二十局所属中铁长安重工公司，自主研发一系列零排放、无污染、低噪音、绿色环保、节能高效装备，结束数十年高原隧道施工中燃油设备的种种弊端，致力于改善隧道施工空气污染，保证人员健康，提高作业效率。自主研发制造的新能源（纯电动）高原隧道施工装备——“天路号”系列产品，仅在海拔4000多米的环境就工作了10万小时，累计减排5760吨二氧化碳。开发的新能源纯电动高原隧道装载机，每台每年减排9.4吨二氧化碳；开发的新能源纯电动电机车组，与传统内燃机车相比，每年可减排9.4吨二氧化碳；自主研发的电动智能除尘车装备，开机运行20分钟即可将粉尘及烟尘收集净化干净，已在多个隧道场景中实践应用。

China Railway Chang'an Heavy Industry Co., Ltd., affiliated to the China Railway 20th Bureau Group Corporation, has developed a series of advanced, environmentally-friendly equipment that addresses the issues associated with fuel-powered equipment in high-altitude tunnel construction. This equipment is designed to reduce air pollution, protect worker health, and improve efficiency. For example, the company's "Tianlu" series of products have worked for more than 100,000 hours in an environment of over 4,000 meters above sea level, reducing carbon dioxide emissions by a total of 5,760 tons; and the company also developed new energy pure electric plateau tunnel loaders that can reduce carbon dioxide emissions by 9.4 tons/unit per year. The self-developed electric intelligent dust removal system can collect and purify dust and smoke within 20 minutes of operation, which has been implemented in several tunnel construction scenarios.



中铁长安重工公司自主研发的新能源装备应用在多个施工项目
The new energy equipment independently developed by China Railway Chang'an Heavy Industry Co., Ltd. has been applied in several construction projects

党的二十大指出，中国式现代化是人与自然和谐共生的现代化。中国铁建把党的二十大精神转化为谋发展的思路、促发展的举措和助发展的智慧，践行绿色理念，加快绿色转型，让绿色成为助力企业产业高质量发展的鲜明底色。

The 20th CPC National Congress pointed out that Chinese modernization is the modernization of harmony between humanity and nature and of peaceful development. At CRCC, we apply the guiding principles from the Congress to our development strategies, initiatives, and innovative ideas to support our growth. We are committed to promoting sustainability and have accelerated our efforts towards a greener future. Green development has become a defining characteristic of the Company and continues to drive our commitment to high-quality industrial growth.

绿色低碳体系

Establishing a green and low-carbon system

中国铁建成立以公司两位主管领导为组长的节能环保工作领导小组和碳达峰碳中和工作领导小组，指导“双碳”工作，从上到下构建四级管理架构。

我们围绕“到2025年末万元营业收入综合能耗下降13.5%和二氧化碳排放量下降18%”的“十四五”既定目标，实行“双控”管理，对万元营业收入综合能耗指标和二氧化碳排放指标进行控制。

We have established two leading groups, one for energy conservation and environmental protection and the other for achieving peak carbon emissions and carbon neutrality. Led by two of our executives, and with a four-level management structure, these groups serve to guide our decarbonization efforts.

We focus on the energy conservation goal of "reducing the comprehensive energy consumption per RMB10,000 operating income by 13.5% by the end of 2025", and implement control indicators for comprehensive energy consumption and energy consumption per RMB10,000 operating income.

双碳专业平台

Building a professional decarbonization platform

建筑企业向上链接建材生产、运输，向下链接建筑运行、维护，是整个建筑产业链条中承上启下的“超级节点”，在推动全行业节能降碳方面发挥关键“治碳链长”作用。我们注册成立中碳基础设施产业发展有限公司，率先提出“碳基建”理念，这是国内首家“中碳”字号的基础设施产业类企业，是中国铁建以碳基础设施建设为牵引、加速推动建筑领域实现碳治理能力提升升级、赋能绿色低碳转型、助力国家实现碳达峰碳中和目标的一项重要举措。

As a "super node" in the construction industry chain, construction companies are responsible for linking building materials production and transportation with building operation and maintenance. This makes us critical in promoting energy conservation and reducing carbon emissions across all industries. With carbon infrastructure construction as a driving force, we have incorporated the China Carbon Infrastructure Industry Development Co., Ltd., which is the first infrastructure industry enterprise in China to use the "China Carbon" brand, and is an important measure to accelerate the improvement of carbon governance capabilities in the construction industry, and contribute to the country's goal of achieving peak carbon emissions and carbon neutrality.

绿色低碳，铁肩展担当
Taking on the Responsibility for Pursuing
Green and Low-Carbon Development

聚焦
Spotlight 2



助力低碳转型

Transitioning towards low-carbon development

为助力我国早日实现“双碳”目标，贡献世界低碳发展，中国铁建优化产业结构、推动产业升级、拓展新兴领域，以“双碳”+“清洁能源”、“双碳”+“建造升级”、“双碳”+“技术应用”、“双碳”+“产品打造”、“双碳”+“绿色城市”、“双碳”+“铁建方案”，助力我国走稳“减碳”之路。

To helping achieve China's dual carbon goals and contribute to global low-carbon development, we have optimized our industrial structure, promoted industrial upgrading, and expanded into emerging areas. By combining "dual-carbon" with "clean energy", "dual-carbon" with "construction upgrading", "dual-carbon" with "technology application", "dual-carbon" with "product development", "dual-carbon" with "green cities", and "dual-carbon" with "railway construction scheme", we provide assistance for China to steadily progress on the path of carbon reduction.

建设风电总承包项目

Carrying out wind power general contracting project

中铁十五局建设的齐齐哈尔龙江白山200MW风电项目，包含风机基础、混塔及风机吊装、集电线路及升压站、送出线路、临时道路等五大系统，是全产业链交钥匙工程。项目建成后，年发电量可达54948万千瓦时，节约标准煤16.75万或节约用水71.43万，减排二氧化硫258.25吨和二氧化碳46.18万吨。

The China Railway 15th Bureau Group Co., Ltd. implemented the Longjiang Baishan 200 MW wind power project in Qiqihar, which is a turnkey project that covers all aspects of the wind power industry chain, including the five systems of wind turbine foundations, tower erection and turbine installation, collection circuits and substations, transmission lines, and temporary roads. Once completed, the project will generate 549.48 million kilowatt-hours of electricity annually, saving 167,500 tons of standard coal or 714,300 tons of water, and reducing sulfur dioxide emissions by 258.25 tons and carbon dioxide emissions by 461,800 tons.

案例
Case

天津首座“零能耗”被动式建筑建成

Building Tianjin's first "zero energy consumption" passive building

中国铁建投资集团开发、铁五院设计、中铁十八局建设的天津首座“零能耗”被动式建筑——中德天津大邱庄生态城展示中心，是经中国建筑科学研究院认证、中国建筑节能协会颁证的“零能耗AAA级装配式”建筑。项目采用先进的保温隔热技术，实现自动化的“冬暖夏凉”；同时通过屋面、停车场车棚等处光伏发电系统所产生的能源可与建筑使用过程中消耗的能源相互抵消，实现“零能耗”。

China Railway Construction Investment Group Company Limited, China Railway Fifth Survey and Design Institute Group Co., Ltd., and China Railway 18th Bureau Group Co., Ltd. jointly developed the Tianjin Daqiu Zhuang Sino-German Eco-Town Exhibition Hall, Tianjin's first "zero-energy" passive building, which has been certified as "zero-energy AAA-level prefabricated building" has been certified by the China Academy of Building Research and the China Association of Building Energy Efficiency. The project uses advanced insulation technology to create an environment that automatically becomes warm in winter and cool in summer. Additionally, the energy generated by its photovoltaic power generation systems on the roof, parking lot, and other areas can offset the energy consumed during the building's use, thus achieving zero energy consumption.

案例
Case

变“垃圾场”为生态“绿肺”

Turning a "landfill" into a "green lung"

中铁十七局承建的重庆长生桥垃圾填埋场生态修复工程是全国最大的垃圾填埋场生态修复工程之一，占地约1037亩。项目建成后，将以生态主题公园形式恢复城市绿地功能，超过85%的植被覆盖率持续固碳释氧，进一步提高城市生态系统碳汇强度。

The ecological restoration project of Chongqing Changsheng Bridge Landfill Site, undertaken by the China Railway 17th Bureau Group Co., Ltd., is one of the largest ecological restoration projects of landfill sites in China, covering an area of about 1,037 mu. After the project is completed, the landfill site will be restored to an ecological theme park to restore urban green space functions. With a vegetation coverage rate of over 85%, it will continue to absorb carbon and release oxygen, further enhancing the carbon sequestration intensity of the urban ecosystem.

案例
Case

共同富裕，大爱谱新篇
Pursuing Common Prosperity for a
New Chapter

聚焦
Spotlight 3

中国式现代化是全体人民共同富裕的现代化，最艰巨最繁重的任务仍然在农村。乡村振兴是持久战，是广大农村地区全域、全员、全面的振兴。中国铁建全面贯彻落实好党中央、国务院以及国家乡村振兴局、国务院国资委关于定点帮扶和乡村振兴的各项决策部署，持续推动落实“四个不摘”要求，积极发挥自身优势，创新帮扶举措，高质量推进乡村振兴各项工作，开启乡村振兴新局面。

Chinese modernization is the modernization of common prosperity for all. Although progress has been made, the most ardent and challenging task remains in rural areas. Rural vitalization is a long-term effort that requires comprehensive and all-encompassing vitalization efforts throughout rural areas. We have comprehensively enforced and implemented the various decisions and deployment by the CPC Central Committee, the State Council, the National Rural Revitalization Administration and the SASAC of the State Council regarding targeted assistance and rural vitalization, continuously promoted the implementation of the "Four No-picking" requirements, actively exerted own advantages, and innovated assistance measures, to ensure high-quality progress in rural vitalization and create a new chapter for rural development.



中国铁建2022年乡村振兴工作会议 CRCC holds Conference of Rural Vitalization

顶层设计，加强多重保障

Top-level design for multiple guarantees

我们定点帮扶河北省张家口市万全区、尚义县，青海省果洛州甘德县；所属有关单位帮扶29个县乡镇村，打造乡村振兴示范村5个，责任重大、使命光荣。

We have selected Wanquan District and Shangyi County in Hebei Province, as well as Gande County in Guoluo Prefecture, Qinghai Province for targeted assistance, with our subsidiaries providing assistance to 29 counties, towns, and villages. We aim to establish five rural vitalization demonstration villages, which is a highly important responsibility and a mission that we are proud to undertake.

加强组织保障 Strengthening organizational guarantees



调研张家口万全区铁建阳光幼儿园的办学情况
Research and inspections on school-running situation of CRCC Sunshine Kindergarten in Wanquan District of Zhangjiakou City

We appoint the Company's Party Secretary, Chairman, and President as the head of the rural vitalization work leading group, with a Vice President serving as the deputy head. The group comprises all members of the leadership team. In addition, we have established an office under the leading group, which is staffed by the heads of 12 relevant business departments.

The leading group and members of the office collaborate to discuss and make decisions on targeted assistance and priority tasks for rural vitalization. We place great emphasis on rural vitalization and has made it the primary focus of our research and learning efforts. We have held multiple meetings on targeted assistance and rural vitalization to develop detailed annual assistance plans and implementation strategies, and have refined our assistance measures accordingly. In addition, members of the leading group and office have led teams to conduct on-site research and inspections in areas receiving targeted assistance.

乡村振兴工作领导小组组长由公司党委书记、董事长和总裁担任，副组长由一名副总裁担任，小组成员涵盖全体领导班子成员。领导小组下设办公室，办公室成员由12个相关业务部门主要负责人担任。

定点帮扶和乡村振兴重点工作由领导小组和办公室成员共同商议决策。公司将乡村振兴作为第一议题研究学习，多次召开对口帮扶和乡村振兴工作相关会议，研究制定全年帮扶工作计划和实施方案，细化各项帮扶措施。领导小组和办公室成员先后带队对定点帮扶区县进行实地调研现场考察。

加强人力保障 Strengthening personnel guarantees

2022年，全系统共向所承担帮扶任务的各区县，派驻挂职干部50人和工作队16个；持续做好教育培训，提升干部的帮扶工作能力和水平，确保帮扶工作有序有效推进。加强对挂职干部和驻村第一书记的管理，加强关心关爱，按规定落实相关待遇。

In 2022, the entire system dispatched 50 temporary officials and 16 work teams to the various counties and districts responsible for our targeted assistance tasks. We will continue to provide education and training to improve the capability and effectiveness of our officials in carrying out their assistance work. Additionally, we will strengthen the management of temporary officials and first secretaries stationed in villages, providing them with necessary care and support, as well as the appropriate compensation in accordance with relevant regulations.

加强资金投入 Strengthening financial investment

全年在3县及29个帮扶乡镇村，共投入无偿帮扶资金3657.02万元，购买脱贫地区农副产品3946.76万元，物资折款12.6万元。另外，引进帮扶资金（含招商引资）2461万元，帮助销售农产品1077.9万元。

For the 3 districts and counties that we provided targeted assistance to and 29 townships, towns and villages that the subsidiaries provided assistance to in 2022, we invested a total of RMB36.5702 million without compensation and purchased agricultural and sideline products from poverty alleviation regions worth RMB39.4676 million, and materials amounted to RMB0.126 million. In addition, we introduced assistance funds (including investment attraction) of RMB24.61 million helped sales of agricultural products of RMB10.779 million.

加强宣传引导 Strengthening publicity and guidance

通过企业官方网站、官方微信及国家主流媒体等多种渠道，分享乡村振兴工作举措，展示乡村振兴工作成效，宣传典型人物事迹。

Through our official website, official WeChat account, national mainstream media and other channels, we have shared our working measures in rural vitalization, demonstrated the work effect of rural vitalization and promoted typical characters and stories.

做实做细，推动“五大振兴”

Meticulous and concrete efforts towards "five vitalizations"

产业振兴

Industrial vitalization

我们引进帮扶项目或企业30余个，帮助建立帮扶车间10个，帮助转移和吸纳就业4555人。充分发挥企业的投资、设计、施工优势，为张家口市万全区包装一批基础设施建设类投资开发项目；在尚义县继续建立无公害小杂粮种植基地、实施光伏电站项目，建设旅游公共信息服务体系，推动旅游产业高质量发展；在青海省甘德县建设规模化牦牛养殖基地，促进生态畜牧业发展。

We have introduced over 30 assistance projects or enterprises, helped establish 10 assistance workshops, and helped transfer and absorb over 4,555 jobs. Leveraging our strengths in investment, design, and construction, we have packaged a number of infrastructure-based investment development projects in Wanquan District of Zhangjiakou City. In Shangyi County, we have established a pollution-free small grain planting base, implemented photovoltaic power station projects and constructed a tourism public information service system to promoted the high-quality development of the tourism industry. In Gande County, Qinghai Province, we have built a large-scale Tibetan yak breeding base to drive the growth of ecological animal husbandry.



中铁十一局积极参与“央企消费帮扶兴农周”活动
China Railway 11th Bureau Group Co., Ltd. participates in the Central SOE Consumption Assistance and Rural Vitalization Week

推进科技种植：中国铁建在张家口万全区引进华中农业大学板蓝根青菜（油松1号）育种种植项目。该板蓝根青菜具有产量高、营养丰富和口感好等优点，尤其是具有抗病功能和抗流感病毒效果，受到消费者青睐。该项目一期以育种为主，种植面积270亩，年增收至少108万元，同时解决当地农民就业300余人。

Promoting technology-enabled agriculture: We have introduced a breeding and planting project for *Andrographis paniculata* and Chinese cabbage (*Pinus tabuliformis* No. 1) from Huazhong Agricultural University in Wanquan District, Zhangjiakou. This variety of cabbage is a highly productive, nutritious and delicious variety that is well-liked by consumers for its anti-disease and anti-influenza virus properties. The initial phase of this project primarily focuses on breeding, covering an area of 270 mu and generating an annual income increase of at least RMB1.08 million. In addition, the project has provided employment opportunities for over 300 local farmers.

打造“光伏产业+原生态养殖”绿色产业：中国铁建结合张家口尚义县光照时间长、纬度高优势，在南朝碾村打造392千瓦的屋顶分布式光伏项目，可保障25年的稳定发电量，该项目现已并入国网，每年稳定收入25万元。电站下方配套设施改为2000平方米的原生态养殖圈舍，圈舍受众人覆盖628人，可实现3000元/户的年收入。该项目既实现村集体收入的稳定提升，又可以普惠到每一户参与原生态养殖的村民。

Building a "photovoltaic industry + original ecological breeding" green industry: We have built a 392 kW rooftop distributed photovoltaic project in Nanzhaonian Village, Shangyi County, Zhangjiakou, leveraging the region's advantages of long sunshine hours and high latitude. The project can guarantee a stable power generation for 25 years and has been integrated into the national grid, generating stable annual income of RMB250,000. The supporting facilities beneath the power station have been converted into 2,000 square meters of ecological breeding sheds, covering 628 people and generating an annual income of RMB3,000 per household. This project not only helps secure a steady increase in the village collective income but also benefits every household engaging in ecological breeding.

人才振兴

Talent vitalization

我们强化帮扶县人才交流培养，培训县乡村基层干部560人，乡村振兴带头人67人，专业技术人才5144人。安排张家口市万全区18名青年干部到所属6家单位交流学习，挂实职1年，并探索出“三带来三留下”交流培养经验。

We work to strengthen talent exchange and training in counties receiving assistance. This includes providing training to 560 grassroots officials in counties and villages, 67 leaders in rural vitalization, and 5,144 professional and technical personnel. We arranged for 18 young officials from Wanquan District of Zhangjiakou City to exchange and learn from six affiliated units, and to work in real positions for one year. In this process, we have developed the "bringing in three and keeping three" approach to talent exchange and training.

文化振兴

Cultural vitalization

我们在帮扶县建设文化广场、广播大厅等，搭建新媒体平台，解读乡村振兴战略和宣传惠民政策等，培育文明乡风、良好家风、淳朴民风，改善农民精神风貌，弘扬时代精神，提高乡村社会文明程度。

In counties for targeted assistance, we have built cultural plazas, broadcasting halls and other facilities, as well new media platforms, to interpret rural vitalization strategy and publicize policies that benefit the people. Our aim is to foster civilized villages, fine homes, and honest individuals, enhance the spiritual well-being of farmers, promote the spirit of the times, and elevate the level of social civilization in rural areas.

生态振兴

Ecological vitalization

我们改善农村人居环境和生活设施，实施农村厕改千余户，实施生活垃圾和污水治理村10余个。建立生态磨坊等项目，为村民生产生活提供便利。

We are committed to helping improve the residential environment and living facilities in rural area. For example, we have helped implementing rural toilet renovation for over one thousand households, and helped implement living garbage and sewage treatment in over 10 villages. In addition, we have established projects such as ecological mills to provide villagers with convenience in production and daily life.



已建成的污水处理终端
Sewage treatment terminal completed

组织振兴

Organizational vitalization

我们参与结对共建党支部9个，结对共建脱贫村11个，扶持龙头企业29家，帮助培育新型农业经营主体7个，积极开展党员干部捐款捐物活动。

We have participated in pairing with 9 party branches, paired with 11 villages for poverty alleviation, assisted 29 leading enterprises, helped cultivate 7 new-type agricultural operation entities, and actively developed donation activities among party members and officials.



驻疆单位积极与维吾尔族困难家庭结对帮扶
Units stationed in Xinjiang pairing up with Uyghur families in need of assistance

发挥优势，助力乡村振兴

Leveraging our strengths to support rural vitalization

修路搭桥

Road and bridge construction

建一条路，带动一个区域的发展。我们致力于消除山高路远交通不便的制约，承建和若铁路、西宁至成都高速铁路等多项工程，推动偏远区域经济快速发展。

A road can serve as a driver of regional development. To overcome the challenges of inconvenient transportation caused by geographical barriers, and promote the rapid economic growth of remote areas, we have undertaken multiple projects such as the Hotan-Ruoqiang railway and the Xining-Chengdu high-speed railway.

世界首条环沙漠铁路——和若铁路建成通车

Hotan-Ruoqiang railway, the world's first railway loop circling a desert, is completed and opened

案例
Case

6月16日，由铁一院总体勘察设计，中铁十一局、中铁十四局、中铁二十一局、中铁二十四局参建的新疆和田至若羌铁路建成通车，结束当地不通火车的历史。线路全长共2712公里，环绕世界第二大沙漠塔克拉玛干沙漠，囊括面积37.7万平方公里，沿线棉花、核桃、红枣、矿产等可通过铁路直通疆外，并为尼雅遗址、安迪尔古城等地带来更多游客，促进当地旅游业发展。

The Hotan-Ruoqiang Railway, designed and surveyed by China Railway First Survey and Design Institute Group Co., Ltd., and built by China Railway 11th Bureau Group Co., Ltd., China Railway 14th Bureau Group Co., Ltd., China Railway 21st Bureau Group Co., Ltd., and China Railway 24th Bureau Group Co., Ltd., was completed and opened on June 16, 2022, putting an end to the area's history of no train transportation. This railway, which is a 2,712-km-long loop line circling the Taklimakan Desert, covering an area of 377,000 square kilometers. The railway enables the transportation of cotton, walnuts, dates, minerals, and other commodities directly to the rest of China, promoting economic development in the region. Additionally, the railway brings more tourists to historical sites such as the Niya ruins and the ancient city of Andir, contributing to the growth of the local tourism industry.

西宁至成都高速铁路全线开工建设

The construction of the Xining-Chengdu high-speed railway is officially underway

案例
Case

铁一院总体勘察设计，中铁十一局、中铁十二局、中铁十四局、中铁十八局、中铁十九局、中铁二十五局参建的西宁至成都高速铁路海东西至黄胜关段，正线长度502.5公里，60%的路段地处海拔3000米以上，经过4个国家级自然保护区、1个省级和2个县级自然保护区。项目组采取以桥代路、植被定期保养等方式，加强对自然保护区的绕避和保护。全线建成通车后将加快解决西部路网“留白”偏多问题，促进沿线经济社会发展。

The Xining-Chengdu high-speed railway, designed and surveyed by China Railway First Survey and Design Institute Group Co., Ltd., and built by China Railway 11th Bureau Group Co., Ltd., China Railway 12th Bureau Group Co., Ltd., China Railway 14th Bureau Group Co., Ltd., China Railway 18th Bureau Group Co., Ltd., China Railway 19th Bureau Group Co., Ltd., and China Railway 25th Bureau Group Co., Ltd., has officially started construction on the Haidong West to Huangshengguan section. The total length of the main line is 502.5 kilometers, with 60% of the route at an altitude above 3,000 meters. The railway passes through four national-level, one provincial-level, and two county-level nature reserves. The project team has adopted targeted measures such as using bridges instead of roads and regular vegetation maintenance to avoid and protect the natural reserves. When completed, the entire railway will help solve the problem of isolated and underdeveloped areas in the western road network and promote the socio-economic development along the railway route.

推动农业农村发展

Promoting agricultural and rural development

我们建设地区乡村振兴重点建设项目，参与土地综合整治工作，推动农业农村优先发展；参与村庄安置房建设，改善村民居住环境，助力缩小城乡差距，全面推进乡村振兴。

Through key regional projects for rural vitalization and comprehensive land improvement work, we strive to prioritize the development of agriculture and rural areas. We also participate in the construction of village resettlement housing to improve the living conditions of rural residents and reduce the urban-rural gap, thus contributing to rural vitalization on all fronts.

中标国家级全域土地综合整治试点项目

Winning the bid of the national-level comprehensive land consolidation pilot project

案例
Case

由中建发展集团牵头，中铁二十五局、中铁上海院组成联合体中标四川省资阳市雁江区保和镇、丰裕镇全域土地综合整治试点项目，该项目是四川省首批国家级全域土地综合整治试点项目，建设内容主要包括农用地综合整治项目、城乡建设用地增减挂钩项目、美丽场镇项目等。通过全域规划、全域设计、全域整治，合理配置农村土地资源要素，项目将实现增加耕地面积、提升耕地质量、帮助改进占补平衡工作，从而进一步巩固农业基础地位。

A joint venture led by CRCC Development Group Co., Ltd., along with China Railway 25th Bureau Group Co., Ltd. and China Railway Shanghai Design Institute Group Corporation Limited, has been awarded the contract for the comprehensive land consolidation pilot project in Baohe and Fengyu towns in Yanjiang District, Ziyang City, Sichuan Province. This project, which involves integrated rural land consolidation, tie-in construction land between urban and rural areas, and beautiful town development, is one of the first national-level comprehensive land consolidation pilot projects in Sichuan Province. By means of holistic planning, design, and consolidation, as well as optimized allocation of rural land resources, the project will increase the amount of arable land, boost its quality, and help improve work to offset cultivated land used for other purposes, thereby cementing the foundational role of agriculture.

打造乡村振兴齐鲁样板

Build a "Qilu" Model of rural vitalization

案例
Case

中铁二十五局建设完成山东省乡村振兴重点建设项目——济南市章丘区双山街道三涧溪村项目第二批安置房工程。项目规划建设楼房25栋，分东、西两个地块，建筑总面积34万平方米，关系到三涧溪村60%村民的安置难题，是惠及群众的安居工程、民心工程，缩小城乡居民生活水平差距。

The China Railway 25th Bureau Group Co., Ltd. has completed the construction of a key rural vitalization project in Shandong Province, which is the second batch of resettlement housing projects in Sanjianxi Village, Shuangshan Street, Zhangqiu District, Jinan City. The project plans to construct 25 buildings on two plots of land, east and west, with a total construction area of 340,000 square meters. The completion of this project is essential to resolving the housing issue for approximately 60% of the villagers in Sanjianxi Village. It is a project that benefits and wins support from the people by narrowing the gap in living standards between urban and rural residents.



创新

点燃高质量发展新引擎

中国铁建深化改革创新，坚持改革聚力、创新驱动，加快市场化经营机制和人力资源管理
体系变革，加强科技创新与数智铁建建设，不
断激发高质量发展活力与动力。



Innovation for New Engines of High-quality Development

We are committed to driving growth and development through reform and innovation. We focus on transforming our market-oriented operational mechanism and human resource management system, while also strengthening investment in technological innovation and digital upgrading to continuously stimulate the vitality and impetus of high-quality development.

完成改革三年行动

Completing the three-year action plan for SOE reform

公司圆满完成国企改革三年行动71条改革任务。“两非”“两资”完成剥离，亏损双降目标完成，经济运行、资产结构持续改善。已实现经理层任期制和契约化管理的户数和管理人员人数比例均为100%；管理人员竞争上岗、不胜任退出的比例分别为68.17%、8.40%；公开招聘和全员绩效考核比例均达到100%；开展中长期激励的子企业数量占全部具备条件的子企业比例为96.62%。《以全员绩效考核引领的人才管理体系》等2项成果在“2021年中国企业改革发展优秀成果”中荣获一等奖。

We have successfully fulfilled all 71 reform missions set out in the three-year action plan for SOE reform. We have divested in businesses that lack competitive advantages and development potential, and dealt with inefficient and invalid assets. We have achieved the target of reducing the costs of management and techniques. Our economic operations and asset structure have been continuously improved. The tenure-system contracted management of management members has realized full coverage. Of all management personnel, 68.17% have been recruited through competition, while 8.40% have resigned due to incompetence. Open recruitment and company-wide performance evaluations have been fully implemented, and 96.62% of eligible subsidiaries have introduced medium- and long-term incentives. Two of our achievements, including the Talent Management System Driven by Company-wide Performance Evaluation, have won first prize in the 2021 Excellent Achievements in China's Enterprise Reform and Development.

质量效益持续向好

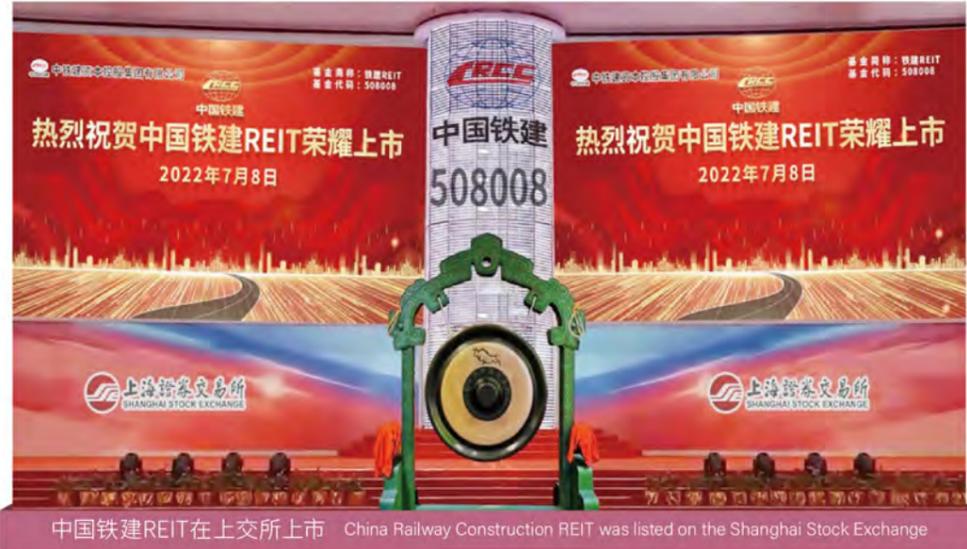
Improving quality and efficiency continuously

公司“两利”指标均跑赢中央企业平均水平，“四率”指标圆满完成，产业协同发展加速。工程承包、规划设计咨询、投资运营、工业制造、物资物流、绿色环保、新兴产业均保持稳增长态势。产业金融创新模式，有力支撑主业发展，国金中国铁建REIT成功上市。房地产板块应对周期波动，着力化解风险、改善经营状况，行业排名逆市回升。全产业链竞争优势进一步发挥，投建营一体化的产业模式更加成熟。

We have outperformed the average level of central enterprises in both net profit and total profit, as well as successfully completing the targets of four indices, namely, operating income profit margin, asset-liability ratio, R&D investment intensity, and per-employee labor productivity. This has facilitated the acceleration of coordinated development across industries. Business areas such as engineering contracting, planning and design consulting, investment and operation, industrial manufacturing, material logistics, green environmental protection, and emerging industries have all maintained stable growth momentum. The innovative industry finance model has provided strong support for our core business, with the Guojin CRCC REIT successfully listed. The real estate sector has responded to cyclical fluctuations by focusing on risk mitigation and improving its operating conditions, resulting in a rebound in the industry's ranking against market trends. Our competitive edge across the entire industry chain has been further leveraged, and our integrated industrial model of investment, construction, and operation model has reached a higher level of maturity.

中国铁建全面贯彻落实党的二十大关于国资国企改革新部署，深刻认识国企改革三年行动的重要性，强化使命担当，聚焦改革重点任务，科学筹划，强化责任落实，确保高质量完成各项改革任务，改革三年行动高质量收官。

We fully implement the new deployment of state-owned enterprise (SOE) reform outlined in the 20th National Congress of the Communist Party of China. Keenly aware of the importance of the three-year action plan for SOE reform, we are dedicated to fulfilling our mission and responsibilities. We focus on key reform tasks, develop scientific plans, and strengthen accountability to ensure the high-quality completion of all reform missions and conclude the three-year action plan with exceptional results.



改革找动力 Seeking Impetus for Reform



科技激活力

Stimulating Vitality with Science and Technology

中国铁建以引领企业高质量发展为目标，统筹推进补齐短板和锻造长板，重点围绕行业关键共性技术、前沿引领技术、产业高新技术等领域进行攻关，基础研究和原始创新取得重要进展，在高战略高技术领域取得新跨越，加速推进科技成果向现实生产力转化，提升产业链水平，增强产业链供应链自主可控能力。

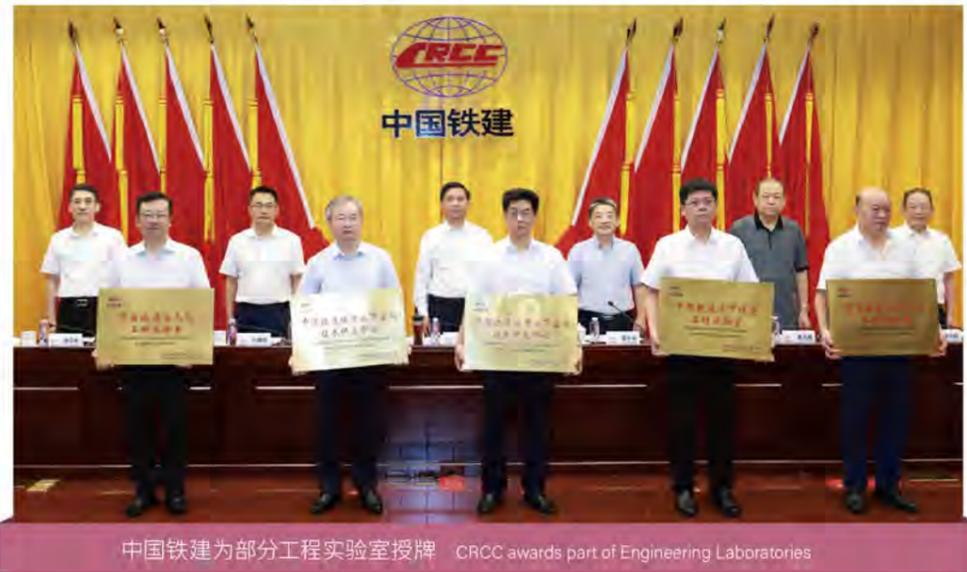
We aim to lead the high-quality development of enterprises by coordinating efforts to address weaknesses and develop strengths. We focus on key common technologies, cutting-edge leading technologies, and advanced industrial technologies to make important progress in basic research and original innovation. We have also made new breakthroughs in high-tech and high-strategy areas, accelerated the transformation of scientific and technological achievements into practical productivity, improved the level of the industrial chain, and reinforced the autonomy and control capabilities of the industrial and supply chains.

创新管理体系

Innovating the management system

公司制定完善《科技创新工作考核管理办法》等14个科技创新管理办法，形成一套从科技立项、项目研发、成果申报，到转化应用、产权保护的全流程管理体系，建立“揭榜挂帅”的开放式创新机制，鼓励创新人才脱颖而出。

We have formulated and improved 14 management methods for scientific and technological innovation, including the *Management Measures for Scientific and Technological Innovation Work Assessment*, forming a management system for the entire process from project establishment, project research and development, result declaration, transformation and application, to intellectual property protection. An open innovation mechanism whereby the best candidates are selected to undertake key research projects has been established to encourage innovative talent to stand out.



中国铁建为部分工程实验室授牌 CRCC awards part of Engineering Laboratories

创新平台建设

Innovation platform construction

以中国铁建工程实验室建设为抓手，水下隧道、电气化、城市地下空间、海洋基础4个工程实验室顺利通过验收，自建创新平台达到11个，努力实现高水平科技自立自强。2022年，拥有国家级创新平台23个，其中全国重点实验室1个、国家地方联合工程研究中心1个、工程技术研究中心1个、国家企业技术中心20个。

With the construction of CRCC engineering laboratories as the starting point, four engineering labs for underwater tunnel, electrification, urban underground space and marine base passed acceptance check, and the number of engineering labs in CRCC has reached 11. We strive to achieve high-level scientific and technological self-reliance. As of 2022, we have built 23 national-level innovation platforms, including one national key laboratory, one national-local joint engineering research center, one engineering technology research center, and 20 national enterprise technology centers.

科技人才培养

Cultivation of sci-tech professionals

以加强科技人才队伍建设为基础，以优化创新生态环境为保障，加快提升自主创新能力。现拥有博士后科研工作站14家、中国工程院院士1人、国家勘察设计大师10人、“万人计划”中青年科技创新领军人才1人、“万人计划”青年拔尖人才1人、享受国务院特殊津贴专家249人。

With a focus on strengthening the construction of the scientific and technological talent pool, and optimizing the innovation ecological environment, we aim to accelerate the improvement of our independent innovation capabilities. Currently, we have 14 postdoctoral research platforms, one academican of the Chinese Academy of Engineering, 10 national survey and design masters, one young and middle-aged innovation champion under the "Ten Thousand Talents Plan", one young top-notch talent under the same plan, and 249 experts entitled to special allowances from the State Council.

信息技术应用

Application of information technology

推动“一标准、一平台”建设，坚持统筹共建，强化一体化技术平台协同整合。全系统466个自建系统接入一体化技术平台，全力开展中国铁建一体化技术平台和“铁建通”的实施和迭代升级工作，进一步促进系统互联互通、强化信息化数据治理能力。

We promote the establishment of "one standard, one platform", emphasizing coordinated construction and strengthening the integration into the unified technology platform. All of the 466 self-built systems have been integrated into the unified platform. We are also committed to implementing and upgrading the CRCC Unified Technology Platform and "Tiejiantong", further promoting system interconnectivity and enhancing our data governance capabilities.

科技创新取得实效

Achieving practical results in sci-tech innovation

案例 Case

铁建重工召开年度特别贡献奖励表彰大会，518名科技尖兵获得5555万元特别贡献奖励。2022年，该公司攻克关键核心技术25项，其中超大直径掘进装备关键技术、采棉机智能化应用技术等达到国际领先水平；成功下线全球最大竖井掘进机“梦想号”、全球首台大坡度螺旋隧道掘进机“北山1号”、全球首台纯电动全电脑三臂凿岩台车等首台（套）重大技术装备49项，快速引领地下工程装备产业技术升级。

In the annual special contribution award ceremony for 2022, China Railway Construction Heavy Industry Corporation Limited (CRCHI), 518 technology experts were awarded a total of RMB55.55 million for their outstanding contributions. Throughout the year, CRCHI successfully tackled 25 key core technologies, achieving world-leading levels in key technologies for large-diameter tunnel boring machines (TBMs) and intelligent technologies for cotton harvesters. The company also successfully launched the "Dream", the world's largest shaft boring machine, the Beishan No.1, the world's first large-slope tunnel-boring machine, and the world's first fully electric, purely computer-controlled three-arm rock drilling platform. In total, CRCHI developed 49 major technical equipment, leading the way in upgrading the underground engineering equipment industry.

科技创新成果

Sci-tech innovation achievements

公司坚定不移实施创新驱动发展战略，增强科技创新对市场、现场两端的支撑作用，集聚力量进行原创性引领性科技攻关，持续巩固传统技术优势，科技创新成果加速涌现。

We are firmly committed to the innovation-driven development strategy, strengthening the role of scientific and technological innovation in both market and on-site operations. By pooling our resources to pursue original and leading-edge sci-tech breakthroughs, while also consolidating our traditional technological advantages, we are witnessing the rapid emergence of innovative achievements.

科研项目突破 Breakthroughs in research projects

牵头承担的国家重点研发计划“城市地下大空间安全施工关键技术研究”项目顺利通过综合绩效评价，被选为科技部等十部委组织的科技成果评价改革试点第一批项目；课题《基于北斗导航系统的铁路及航运领域应用技术研究》促进了中国北斗和中国高铁两张“国家名片”深度融合。

The national key research and development project "Research on Key Technologies for Safe Construction of Urban Underground Large Spaces" led and undertaken by the Company has successfully passed the comprehensive performance evaluation and has been selected as the first batch of projects for the technology achievement evaluation reform pilot organized by ten ministries, including the Ministry of Science and Technology of the People's Republic of China. The project *Research on Application Technology in the Railway and Shipping Industries Based on the BeiDou Navigation Satellite System* has promoted the deep integration of BeiDou and high-speed rail, both of which are considered as China's "brand names".

高质量标准支撑 Support from high-quality standards

发布《沙漠砂混凝土应用技术规程》等10项企业标准，填补国家标准、行业标准空白；国际标准化组织“铁路应用”技术委员会 (ISO/TC269) 通过中国铁建首次主导的ISO国际标准《ATO引入干线铁路运营规则制定导则》提案，不仅为中国铁建的高质量发展提供了高质量标准支撑，也为公司培育“两新一重”“专精特新”领域专项施工提供标准支撑。

We have released 10 enterprise standards, including the *Technical Specifications for Application of Desert Sand Concrete*, which fill the gaps in national and industry standards. The international standardization organization "Railway Application" Technology Committee (ISO/TC269) approved the proposal of ISO international standard *Guideline for Introducing ATO into Trunk Line Railway Operation Rules* led by CRCC. This not only provides high-quality standard support for our high-quality development, but also provides standard support for our work to invest more in new infrastructure and new urbanization initiatives and major projects, as well as specialized and sophisticated project.



苏州市轨道交通2号线及延伸线工程获得第十九届中国土木工程詹天佑奖
The Suzhou Rail Transit Line 2 and its extension project win the 19th Tien-yow Jeme Civil Engineering Prize

2022年我们的荣誉

Our honors in 2022

第十九届中国土木工程詹天佑奖13项，其中主持项目5项，单届获奖数量创历史新高

13 projects awarded the 19th Tien-yow Jeme Civil Engineering Prize, a record high number in a year, 5 of which were presided over by CRCC

中国铁建BIM+管理平台入选十大国产BIM软件

CRCC BIM+ management platform selected as one of the top ten domestic BIM software

获省部级工法506项

506 new provincial and ministerial-level certified construction methods

中施企协第二届高推广价值专利大赛中，获得特等奖5项，占特等奖半数，居建筑行业首位

Five special awards, representing half of all special awards, the first among construction companies in the 2nd High Promotion Value Patent Competition organized by China Association of Construction Enterprise Management

第49届日内瓦国际发明展中，首次获得金奖1项，获得银奖2项

1 Golden prize (first time) and 2 Silver prize at the 49th Geneva International Exhibition of Inventions

获得省级科学技术奖63项，其中自然科学奖1项、技术发明奖4项、科技进步奖58项。获得铁道科技奖55项，其中特等奖3项、一等奖12项，创历史最佳成绩

63 provincial science and technology awards, consisting of 1 Natural Science Award, 4 Technological Invention Award, and 58 Scientific and Technological Progress Award; 55 railway technology awards, including 3 special awards and 12 first prizes, marking a record high number in a year

获授权专利7931件，其中发明专利1217件

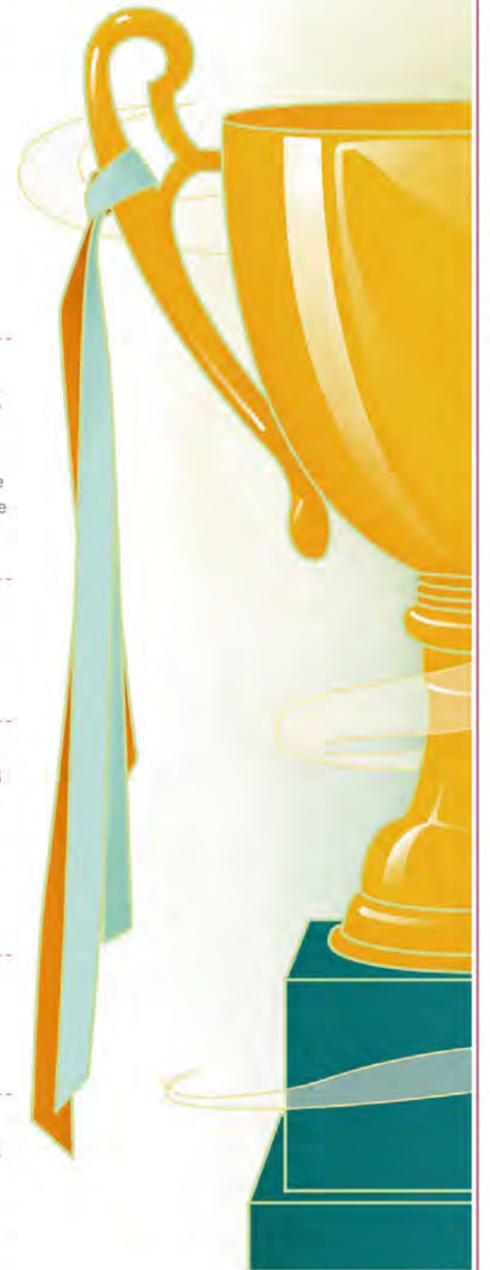
7,931 authorized patents, including 1,217 patents for invention

第二十三届中国专利奖中，获中国专利银奖2项、中国专利优秀奖5项，获奖数量居建筑央企首位

2 Silver Awards and 5 Excellence Awards of the 23rd China Patent Award, making CRCC first among all the construction companies

主持和参与当年颁布的国家标准17项、行业标准17项、地方标准75项、团体标准59项

Leading or participating in the drafting of 17 national standards, 17 industry standards, 75 local standards and 59 group standards

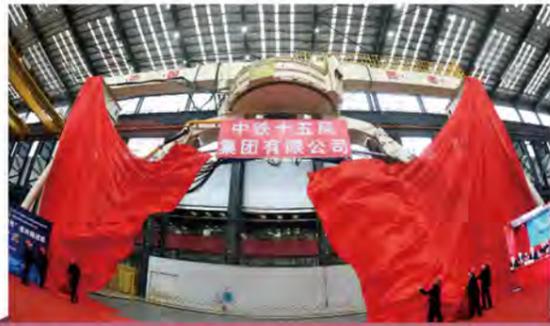


自主研发全球最大竖井掘进机“梦想号”

Self-developing the "Dream", the world's largest shaft boring machine

案例
Case

铁建重工和中铁十五局共同打造的“梦想号”掘进机，是我国自主研发的全球最大竖井掘进机，入选2022年度央企十大国之重器。“梦想号”采用全密封、高承压设计，在施工作业时，主机潜入水下开挖取土，最大开挖深度可达80米。“梦想号”不仅能适用于15米至23米的不同直径竖井掘进，实现一机多用和智能化井下无人作业，还可以针对不同复杂地质采取多样化工作模式，具有适用范围广、占地面积小、施工效率高、安全性好及绿色环保等特点。



全球最大竖井掘进机“梦想号”在湖南长沙下线
The "Dream" launched in Changsha, Hunan

The "Dream" shaft boring machine, jointly built by the China Railway Construction Heavy Industry Corporation Limited and China Railway 15th Bureau Group Co., Ltd., is the world's largest shaft boring machine independently developed by Chinese companies, and was enlisted among "Top Ten Nation's Machines of Central Enterprises in 2022." The "Dream" adopts a fully sealed, high pressure design. During operation, the main engine submerges underwater to excavate soil, reaching a maximum depth of 80 meters. This machine is capable of excavating vertical wells of different diameters, ranging from 15 to 23 meters, and it can perform multiple functions while operating intelligently underground without human intervention. It can also adapt to various complex geological conditions by utilizing diverse working modes. The "Dream" shaft boring machine has several benefits, including a wide range of application, small footprint, high construction efficiency, proven safety and environmentally friendliness.

首获日内瓦国际发明展金奖

Winning golden prize at Geneva International Exhibition of Inventions for the first time

案例
Case

铁五院参展的“全套管全回转钻机设备”项目，荣获第49届日内瓦国际发明展金奖。“全套管全回转钻机设备”突破低净空条件下的施工技术瓶颈，施工所需净高由大于6米降低到小于4米，比常规同类设备节省竖向施工空间大于35%，将灌注桩桩体垂直度误差控制在3%以内，套管垂直度控制精准，成桩质量好，实现低净空条件下全套管全回转钻机成孔施工。



第49届日内瓦国际发明展中，首次获得金奖1项，获得银奖2项
1 Golden prize (first time) and 2 Silver prize at the 49th Geneva International Exhibition of Inventions

The project of "full casing full rotary drilling equipment" developed by the China Railway Fifth Survey and Design Institute Group Co., Ltd. won a gold medal at the 49th Geneva International Exhibition of Inventions. It has successfully overcome the technological limitations of construction under low headroom conditions. The required vertical construction space has been reduced by more than 35% compared to conventional similar equipment, from over 6 meters to less than 4 meters. The verticality error of the poured pile body is precisely controlled to within 3%, while the casing verticality is accurately monitored, resulting in high-quality pile formation. These features allow the full casing full rotary drilling equipment to perform construction under low headroom conditions.

科研成果转化

Translating research outcomes

公司持续加大应用基础研究力度，促进创新链和产业链精准对接，一批科研成果实现产业化应用。

We continues to increase our focus on applied basic research, promoting precise integration between the innovation chain and the industrial chain. As a result, several scientific research accomplishments have been successfully put into industrial use.



《BIM技术在境外跨海大桥设计与施工中的应用》
获中国建筑业协会建筑工程BIM大赛一类成果奖
The application of BIM technology in the design and construction of cross-sea bridge wins the first class achievement award in the Construction BIM competition of the China Construction Industry Association

双模式智能设备设计与应用研究

Research on design and application of dual mode intelligent device

案例
Case

中铁十九局联合铁建重工、大连理工大学等单位开展双模式智能设备设计与应用研究，填补了国内外相关领域技术空白。其中，单护盾——土压平衡双模式掘进机和敞开式——单护盾双模式TBM分别在广佛环线城际铁路及引水隧洞工程得到成功应用。

China Railway 19th Bureau Group Co., Ltd. has collaborated with units such as the China Railway Construction Heavy Industry Corporation Limited and Dalian University of Technology to conduct research on the design and application of dual-mode intelligent equipment, filling the technological gap in related fields both domestically and internationally. Among them, the dual mode (single shield and EPB mode) tunnel boring machine has been successfully applied in the Guangzhou-Foshan circular intercity railway and water diversion tunnels.

铁路“四电”BIM精益施工管理系统

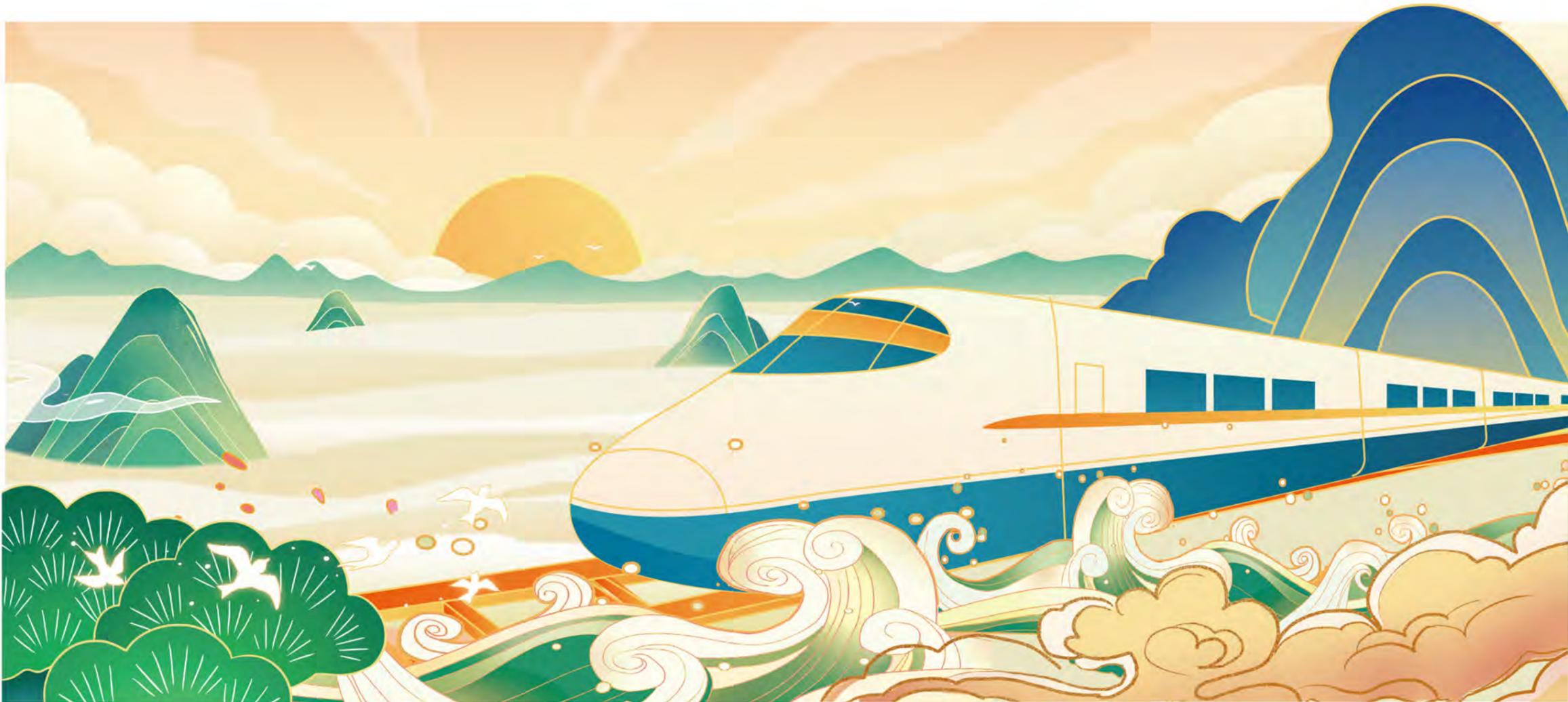
E&M BIM and lean construction management system used in railways

案例
Case

中铁二十一局承担京雄城际铁路雄安“四电”工程建设任务，项目部使用BIM技术确定装配式房屋预埋管线，实现工厂化预制一次成功；自主开发涵盖可视化管理、成本管理、技术管理等8个功能模块的铁路“四电”BIM精益施工管理系统，涉及40多项具体业务，既节省工程工期，增强项目材料使用的可控性，又大大提升项目管控效率。

The China Railway 21st Bureau Group Co., Ltd. has undertaken the construction task of the E&M project for the Xiong'an section of the Beijing-Xiong'an intercity railway. The project team utilized BIM technology to determine the prefabricated pipeline for the assembled houses, achieving successful prefabrication in one shot. The self-developed E&M BIM lean construction management system, featuring eight functional modules such as visual management, cost management, and technical management, involves more than 40 specific business applications, which not only saves project time, enhances the controllability of project material use, but also greatly improves project management and control efficiency.

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Coordination for New Achievements in Infrastructure Construction

Over the past decade of the new era, China has made significant strides in railway development. In this process, we have measured the country's advancement with the length of its rail. As a company, we are committed to aligning our development with the national strategy and taking on significant missions. As a skilled craftsman in pursuit of excellence, we provide high-quality construction for high-quality engineering, weaving a network of railways across the country.

协调

编织大地经纬
新锦绣

新时代十年，中国铁路发展取得历史性成就。

中国铁建以轨为尺，丈量大国前行的步伐。我

们将自身发展全面融入国家战略，承担重大

任务，以大国工匠的品质追求，编织大地经

纬，以高质量建设护航高品质工程。



案例
Case

建设亚洲最大铁路枢纽客站项目

Completing Asia's largest railway terminal project

由中铁十二局、中铁十四局及铁五院建设的国内首座双层车场设计的大型车站——北京丰台站正式运营。中国铁建在此建立北京建设市场首个智能钢筋加工配送中心，引进集成化钢筋笼成型机器人等近十种先进设备，极大提高施工的可靠性与安全性。北京丰台站拥有“顶层有高铁、地面有普速、地下有地铁”立体交通运营模式，设有17台32线，优化了首都交通运输结构，完善首都综合交通体系。

Built by the China Railway 12th Bureau Group Co., Ltd., China Railway 14th Bureau Group Co., Ltd. and China Railway Fifth Survey and Design Institute Group Co., Ltd., the Beijing Fengtai railway station, the first large-scale passenger station in China with a double-decker yard design, was officially put into operation. CRCC has established the first intelligent steel bar processing and distribution center in Beijing construction market, and introduced nearly ten kinds of advanced equipment such as integrated steel cage forming robots, greatly improving the reliability and safety of construction. The Beijing Fengtai railway station has a three-dimensional transportation operation model with "high-speed railways on the top, ordinary speed railways on the ground, and subways underground." With 17 platforms and 32 tracks, it optimizes the transportation structure and improves the integrated transportation system in the capital.



智能钢筋加工配送中心 The intelligent steel bar processing and distribution center

案例
Case

北京城市副中心站项目获突破性进展

Breakthrough made in the Beijing Sub-Center railway station

北京城市副中心站综合交通枢纽是亚洲最大的TOD项目，建成后将成为连接首都国际机场和大兴国际机场的唯一综合交通枢纽，可有效提升副中心对北京非首都功能的承接能力。枢纽整体为地下三层结构，总建筑面积约128万平方米，站台规模8台14线，中铁建设、中铁十六局等单位联合承建的01标站房核心区工程，是其重要组成部分。项目部自主研发桩柱一体化施工垂直度可视化监控系统，并在施工中采用全液压可视化承插工艺（HPE），确保达到最佳施工精准度。

The Beijing Urban Sub-center Station is the largest TOD project in Asia. Once completed, it will become the only Integrated Transportation Hub (ITH) connecting Beijing Capital International Airport and Beijing Daxing International Airport, effectively enhancing the sub-center's ability to undertake functions nonessential to Beijing's role as the capital. The hub is a three-story underground structure with a total construction area of approximately 1.28 million square meters, including 8 platforms and 14 tracks. The Section 01 Station House Core Area project, which was jointly constructed by the China Railway Construction Group (CRCC) Co., Ltd. and China Railway 16th Bureau Group Co., Ltd., is an important part of the project. The project team independently developed a pile-pillar integrated construction verticality visual monitoring system and used the HPE technique during construction to ensure the highest construction precision possible.

中国铁建深入实施区域发展战略，在推进京津冀协同发展、粤港澳大湾区建设、长三角一体化发展、长江经济带发展、成渝地区双城经济圈发展、黄河流域生态保护和高质量发展中贡献着“铁建力量”。

We are deeply implementing its regional development strategy, and contributing our strength in promoting the coordinated development of the Beijing-Tianjin-Hebei region, the development of the Yangtze Economic Belt, the Guangdong-Hong Kong-Macao Greater Bay Area, the Chengdu-Chongqing economic zone, integrated development in the Yangtze River Delta, and ecological protection and high-quality development in the Yellow River basin.

京津冀协同发展

Coordinated development of Beijing-Tianjin-Hebei region

公司深入贯彻落实京津冀协同发展战略，参与建设北京丰台站、北京城市副中心站等重大项目，助力京津冀地区基础设施建设。

As part of our commitment to the strategy of coordinated development of the Beijing-Tianjin-Hebei region, we have participated in the construction of the Beijing Fengtai railway station, the Beijing Sub-Center railway station, among other major projects, thus playing our part in the infrastructure construction in this region.

心怀「国之大者」

Bearing in Mind China's Most Fundamental Interests

粤港澳大湾区

Guangdong-Hong Kong-Macao Greater Bay Area

粤港澳大湾区是我国开放程度最高、经济活力最强的区域之一。我们勇当政府与经济社会发展的责任担当者，打造了深圳地铁16号线、深汕铁路等一系列精品工程，助力粤港澳大湾区高质量发展。

The Guangdong-Hong Kong-Macao Greater Bay Area is one of the regions with the highest degree of openness and strongest economic vitality in China. As a responsible company, we are committed to supporting the government's efforts towards economic and social development. Through a series of high-quality projects such as Line 16 of the Shenzhen Metro and the Shenzhen-Shanwei high-speed railway, we have contributed to the high-quality development in the Greater Bay Area.



粤港澳大湾区城际铁路规划枢纽布置方案示意图
Guangdong-Hong Kong-Macao Greater Bay Area's Intercity Railway Construction Plan

琴澳跨境交通首个大直径海底盾构隧道全线贯通

The first large-diameter undersea light rail tunnel connecting Macao and Hengqin completed

11月25日，由铁四院、中铁十六局、中铁建设参建的琴澳重点跨境民生工程——澳门轻轨延伸横琴线项目海底盾构隧道顺利贯通，这是澳门首个盾构穿海隧道。项目团队通过模拟盾构机掘进参数，高精度数据监测等一系列科学有效的措施，成功通过210米小曲线转弯半径，实现“零污染、零沉降”下穿横琴口岸建筑群和十字门水道。

Built by the China Railway Siyuan Survey and Design Group Co. Ltd., China Railway 16th Bureau Group Co., Ltd., and China Railway Construction Group (CRCC) Co., Ltd., the undersea shield tunnel of the Hengqin line, Macao's Light Rapid Transit (LRT) extension, a key cross-border livelihood project of China's Macao Special Administrative Region (SAR) and Hengqin Island in southern China's Guangdong Province, was completed on November 25, 2022. This is Macao's first undersea shield tunnel. The project team used a series of scientific and effective measures, such as simulating shield machine excavation parameters and high-precision data monitoring, to successfully pass through a 210-meter small curve turning radius, achieving "zero pollution, zero settlement" while passing under the Hengqin Port building complex and the Shi Zi Men waterway.



澳门轻轨延伸横琴线项目海底盾构隧道顺利贯通
The undersea shield tunnel of the Hengqin line, Macao's Light Rapid Transit (LRT) extension is completed

案例
Case

深汕铁路全线正式开工

Shenzhen-Shanwei high-speed railway commences construction

深汕铁路由铁四院设计，中铁十二局、中铁十四局、中铁二十三局参建，全长125.52公里，全线桥隧比92.63%，设计时速350公里，沿线设6个车站。深汕铁路是深圳都市圈的大动脉，建成后深汕特别合作区到深圳中心区仅需30分钟，对于加快构建沿海高速铁路，优化深圳枢纽对外铁路通道，推进深汕合作区建设具有重要作用。

The Shenzhen-Shanwei high-speed railway, designed by the China Railway Siyuan Survey and Design Group Co. Ltd., is being constructed by the China Railway 12th Bureau Group Co., Ltd., China Railway 14th Bureau Group Co., Ltd., and China Railway 23rd Bureau Group Co., Ltd. The railway spans a total length of 125.52 kilometers, with a bridge and tunnel ratio of 92.63%, and is designed for a speed of 350 kilometers per hour. The railway will have six stations along its route. As a major artery of the Shenzhen metropolitan area, the completion of the Shenzhen-Shanwei high-speed railway will shorten the travel time between the Shenzhen-Shantou Special Cooperation Zone and the central area of Shenzhen to just 30 minutes. It will play an important role in accelerating the construction of coastal high-speed railways, optimizing Shenzhen's external railway channels, and promoting the development of the Shenzhen-Shantou Special Cooperation Zone.

案例
Case

我国最大跨度多功能斜拉桥主体建成

China's largest span multi-functional cable-stayed bridge completed

中铁建南沙投资公司组织建设，铁四院设计、中铁十八局承建的我国最大跨度多功能斜拉桥——广州南沙自贸区红莲大桥，规模居国内同类型多功能桥梁之首，建成后南沙自贸区龙穴岛国际航运物流交易中心与岛外联系的行车时间将由目前的45分钟缩短至10分钟内。红莲大桥除满足车辆和人员通行外，还承担高压电缆、燃气、通信和输水管道的随桥过江功能。

Constructed by the China Railway Construction Nansha Investment Development Co., Ltd., designed by China Railway Siyuan Survey and Design Group Co. Ltd., and built by the China Railway 18th Bureau Group Co., Ltd., the Honglian Bridge in the Nansha Free Trade Zone is China's largest span multi-functional cable-stayed bridge. The bridge is the largest of its kind in China and is capable of accommodating various functions. Upon completion, the travel time between the Longxue Island International Shipping and Logistics Trading Center in the Nansha Free Trade Zone and the mainland will be reduced from the current 45 minutes to within 10 minutes. In addition to accommodating vehicular and pedestrian traffic, the Honglian Bridge also supports the passage of high-voltage cables, gas pipelines, communication equipment, and water pipes.



我国最大跨度多功能斜拉桥吊装施工
China's largest span multi-functional cable-stayed bridge hoisting construction

案例
Case

长三角一体化

Integrated development in Yangtze River Delta

长三角地区是中国经济最具活力、开放程度最高、创新能力最强的地区之一。公司以服务长三角一体化发展战略为己任，建设合杭高铁湖杭段、甬舟铁路等项目，促进沿线经济社会发展。

The Yangtze River Delta is one of the most innovative, open, and economically vibrant regions in China. We have taken on the responsibility of serving the integrated development strategy of the region by undertaking projects such as the Huzhou-Hangzhou section of the Hefei-Hangzhou High-speed Railway and Ningbo-Zhoushan high-speed railway, which help drive the socio-economic development along the line.



长三角地区对外综合运输通道示意图
Diagram of the Comprehensive Transportation Corridor for the Yangtze River Delta

建设国内首个“站城融合”现代铁路

Building China's first "Station-City Integration" modern railway

9月22日，由铁四院、上海院参与设计，中铁十一局、中铁十二局、中铁建设参建的合杭高铁湖州至杭州段开通运营。湖杭段全长129公里，桥梁50座，隧道33座，以“绿色长廊，多彩湖杭”为设计理念，充分利用沿线自然山水资源和不同地域的文化特色，将合杭高铁湖杭段打造成为一条精品绿色通道。开通运营后，将进一步完善浙江省1小时交通圈，为第19届杭州亚运会交通服务提供强有力的运输保障。

On September 22, the Huzhou-Hangzhou section of the Hefei-Hangzhou High-speed Railway, designed by the China Railway Siyuan Survey and Design Group Co. Ltd. and Shanghai Architectural Design & Research (Co., Ltd.), and built by the China Railway 11th Bureau Group Co., Ltd., the China Railway 12th Bureau Group Co., Ltd., and China Railway Construction Group (CRCG) Co., Ltd., was put into service. The 129-kilometer-long Huzhou-Hangzhou section features 50 bridges and 33 tunnels, with the design concept of "Green Corridor, Colorful Huzhou-Hangzhou", fully utilizing the natural landscape resources and cultural characteristics of different regions along the line to create a high-quality green passage. After the railway is opened, it will further improve the one-hour transportation circle within Zhejiang Province and provide strong transportation support for the 19th Asian Games Hangzhou 2022.



和谐号列车驶出中铁十二局承建的合杭高铁鹿山隧道途径栗园村特大桥
A CRH train passing through the Liyuan Village Bridge on the Hefei-Hangzhou High-speed Railway through the Lushan Tunnel

案例
Case

开建世界级跨海工程——甬舟铁路

Building a world-class cross-sea project -- Ningbo-Zhoushan high-speed railway

案例
Case

中铁十一局、中国铁建大桥局、中铁十四局、中铁二十四局、华东区域总部联合体建设的浙江省甬（宁波）舟（山）铁路项目，将补齐浙江“市市通高铁”最后一块“拼图”。其中，中铁十一局和中铁十四局承建的金塘海底隧道全长16.18公里，是目前全球长度最长、地层最复杂、建设难度最大的海底高铁隧道。铁四院参与设计的西堠门公铁两用大桥主跨1488米，建成后将成为世界上跨度最大的公铁合建桥梁。中国铁建大桥局承建的桃夭门和富翅门两座公铁两用大桥，将分别成为世界最大跨度的公铁两用混合梁斜拉桥和高低塔公铁两用同层斜拉桥。

The Ningbo-Zhoushan high-speed railway project in Zhejiang Province, jointly built by the China Railway 11th Bureau Group Co., Ltd., China Railway Construction Bridge Engineering Bureau Group Co., Ltd., China Railway 14th Bureau Group Co., Ltd., China Railway 24th Bureau Group Co., Ltd., and the East China Regional Headquarter of the Company, will complete the last piece of the puzzle in the "High-Speed Railways Connecting Every City in Zhejiang" plan. The 16.18-kilometer-long Jintang Undersea Tunnel, constructed by the China Railway 11th Bureau Group Co., Ltd. and China Railway 14th Bureau Group Co., Ltd., is currently the longest subsea high-speed rail tunnel in the world, with the most complex strata and difficult construction. The Xihoumen Highway-Railway Dual-use Bridge, designed by the China Railway Siyuan Survey and Design Group Co. Ltd., has a main span of 1,488 meters and will become the largest of its kind in the world after completion. The Taoyaomen and Fuchimen road-rail dual-use bridges, built by the China Railway Construction Bridge Engineering Bureau Group Co., Ltd., will respectively become the world's largest-span road-rail dual-use hybrid beam cable-stayed bridge and the world's first road-rail dual-use cable-stayed bridge with high and low towers on the same level.



西堠门大桥效果图 A rendering of the Xihoumen Bridge

长江经济带

Yangtze Economic Belt

公司贯彻落实国家长江经济带发展战略，建设黄黄高铁、深赣港产城特别合作区一期等项目，深入推动长江经济带高质量发展。

We have implemented the national strategy for the development of the Yangtze Economic Belt. Through projects such as the Huanggang-Huangmei high-speed railway and the first phase of the Shenzhen Jiangxi "Hong Kong Industry City" Special Cooperation Zone, we have promoted the high-quality development of this Economic Belt.

建设亚洲第一个专业货运枢纽机场

Building Asia's first professional cargo hub airport

案例
Case

由中铁十二局、中铁建设参建的鄂州花湖机场正式投运，这是全国首个采用BIM模型搭建、深度应用数字化建设的机场，投入运营后其1.5小时飞行圈将覆盖全国90%的经济总量、5大国家级城市群，形成辐射全国、畅达全球的国际航空货运枢纽。施工中，项目部将BIM模型导入质量验评系统、PMS工程管理平台及数字化施工系统，实现信息自动归档、可追溯源和对施工现场的动态监测；应用无人驾驶压路机及自动摊铺系统，能够实现摊铺坡度和高程的自动控制并长时间不间断作业，大幅提升施工效率。

Ezhou Huahu Airport, constructed by the China Railway 12th Bureau Group Co., Ltd. and China Railway Construction Group (CRCC) Co., Ltd., has officially put into operation. This airport is the first in the country to be built using a BIM model and extensively apply digital construction methods. After its launch, the 1.5-hour flight circle will cover 90% of the country's economic output and five major national city clusters, forming an international air cargo hub that radiates across the country and reaches the rest of the world. During construction, the project team imported the BIM model into the Quality Evaluation System, PMS Engineering Management Platform, and Digital Construction System, achieving automatic information archiving, traceability to its source, and dynamic monitoring of the construction site. The use of unmanned paving rollers and automatic paving systems can automatically control the slope and elevation of the pavement and operate continuously for long periods, greatly improving construction efficiency.



鄂州花湖机场航站楼 Ezhou Huahu Airport terminal

黄黄高铁开通运营

Huanggang-Huangmei high-speed railway opens for operation

案例
Case

由铁四院设计，中铁十一局、中铁十六局等单位参建的黄冈至黄梅高速铁路—黄黄铁路开通，加快了沿线旅游景点的开发，将成为促进沿线经济发展的新引擎。黄黄高铁正线全长126.85公里，跨越三级航道巴河、浠水、蕲河，七跨高速公路，桥梁跨度大，桥型丰富。其中巴河特大桥创新性采用主跨705米的刚构—连续梁三塔部分斜拉桥结构体系，是国内高速铁路首次应用，有效解决桥梁在运营期变形过大问题。

The Huanggang-Huangmei high-speed railway, designed by the China Railway Siyuan Survey and Design Group Co. Ltd. and built by the China Railway 11th Bureau Group Co., Ltd. and China Railway 16th Bureau Group Co., Ltd., and other companies, has opened for operation. This railway will accelerate the development of tourist attractions along the route and become a new engine for promoting the economic development of the surrounding areas. The Huanggang-Huangmei high-speed railway has a total length of 126.85 kilometers, crosses three navigable waterways, namely the Bahe River, Xishui River, and Qi River, and seven highways, featuring large bridge spans and diverse bridge types. The innovative design of the Bahe River Extra-Large Bridge uses a rigid-frame-continuous-beam-three-tower partially cable-stayed bridge structure system with a main span of 705 meters, which is the first time this technology has been used in China's high-speed railway construction. This effectively solves the problem of excessive deformation of the bridge during operation.



黄黄高铁开通运营 Huanggang-Huangmei high-speed railway opens for operation

成渝地区双城经济圈

Chengdu-Chongqing economic zone

公司继续发挥全产业链优势，抢抓机遇，加大在渝投资，积极参与成渝基础设施建设，提供“一站式”“一体化”服务，助推成渝地区双城经济圈建设。

We continue to leverage our comprehensive industry chain advantages, seize opportunities, increase our investment in Chongqing, and actively participate in the infrastructure construction in the Chengdu-Chongqing area. We provide one-stop and integrated services to drive the construction of the Chengdu-Chongqing economic zone.

成兰铁路跃龙门隧道项目全线贯通

Yuelongmen Tunnel of Chengdu-Lanzhou Railway completed

案例
Case

中铁十九局承建的成兰铁路跃龙门隧道项目，左线全长19.981公里，右线全长20.042公里，地处汶川地震灾害核心区，地形陡峻，岭谷高差大，地质灾害频发，是我国在建铁路最为艰难的越岭隧道之一。成兰铁路的建成将结束川西北地区没有铁路的历史，与既有宝成铁路、兰渝铁路及成西铁路共同构建连通西北与西南及华南沿海的干线铁路通道。

The Yuelongmen tunnel of the Chengdu-Lanzhou railway, constructed by the China Railway 19th Bureau Group Co., Ltd., has completed the entire length of the left line at 19.981 kilometers and the right line at 20.042 kilometers. This project is located in the core area of the Wenchuan earthquake, with steep terrain, large valley height difference, and frequent geological disasters. This is one of the most difficult mountain tunnels under construction in China's railway network. The completion of the Chengdu-Lanzhou railway will end the history of no railway transportation in the northwest region of Sichuan, and together with the existing Baoji-Chengdu railway, Lanzhou-Chongqing railway, and Xi'an-Chengdu high-speed railway, it will build a mainline railway channel connecting the northwest, southwest, and coastal areas of southern China.



成兰铁路跃龙门隧道贯通 Yuelongmen Tunnel of Chengdu-Lanzhou Railway completed

新成昆，新跨越，风驰电掣越千山

New Chengdu-Kunming railway shortens travel time and promotes regional development

案例
Case

12月26日，由中国铁建13家单位参建的新成昆铁路全线贯通运营。新成昆铁路全长915公里，沿线地质复杂，采用以隧代路、以隧代桥等方式，缩短近236公里的线路长度。新成昆铁路进一步完善了西南地区路网结构，将成都至昆明旅行时间从过去的19小时缩短至现在的7.5小时，极大便利沿线人民群众出行和货物运输。

On December 26, 2022, the new line of the Chengdu-Kunming railway with the participation of 13 units of CRCC, was put into operation. The line of the Chengdu-Kunming railway is 915 kilometers long and passes through complex geological conditions. By using tunnels instead of roads and bridges, the railway has shortened the route length by approximately 236 kilometers. The new Chengdu-Kunming railway further improves the road network structure in the southwest region, reducing the travel time from Chengdu to Kunming from the previous 19 hours to the current 7.5 hours, greatly facilitating people's travel and cargo transportation along the line.



新成昆铁路全线贯通运营 The Chengdu-Kunming railway is put into operation

黄河流域高质量发展

High-quality development in Yellow River basin

黄河流域在我国经济社会发展和生态安全方面具有十分重要的地位。公司承建文登蓄水电站、秦岭特长输水隧洞等项目，推动黄河流域高质量发展。

The Yellow River basin is a crucial area for China's economic and social development as well as ecological security. We have contributed to the basin's high-quality development undertaking projects such as the Wendeng pumped storage hydropower station and the Qinling Extra-Long Water Transfer Tunnel.

建设山东省装机容量最大抽水蓄能电站

Building Shandong's Largest Pumped-Storage Power Station

案例
Case

中铁十四局承建的山东省装机容量最大的抽水蓄能电站——文登抽水蓄能电站1号引水系统，全长1189米，垂直高度521米，相当于近170层楼高。文登抽水蓄能电站建成后，将承担山东电网的调峰、填谷、调频、调相和紧急事故备用任务，改善火电、核电机组运行条件，促进风电的消纳和节能减排。同时，该电站还可改善当地环境状况，发展旅游业，为当地创造劳动就业机会。

The No.1 Water Intake System of the Wendeng Pumped-Storage Power Station, with the largest installed capacity in Shandong Province, constructed by the China Railway 14th Bureau Group Co., Ltd., is 1,189 meters long and 521 meters high vertically, which is equivalent to nearly 170 floors high. After its completion, the Wendeng Pumped-Storage Power Station will undertake tasks such as peak regulation, valley filling, frequency modulation, phase modulation, and emergency standby for the Shandong power grid, improve the operating conditions of thermal and nuclear power units, and promote the consumption of wind power and energy conservation and emission reduction. At the same time, the power station can improve the local environment, develop tourism, and create employment opportunities for the local community.



文登抽水蓄能电站 Wendeng Pumped-Storage Power Station

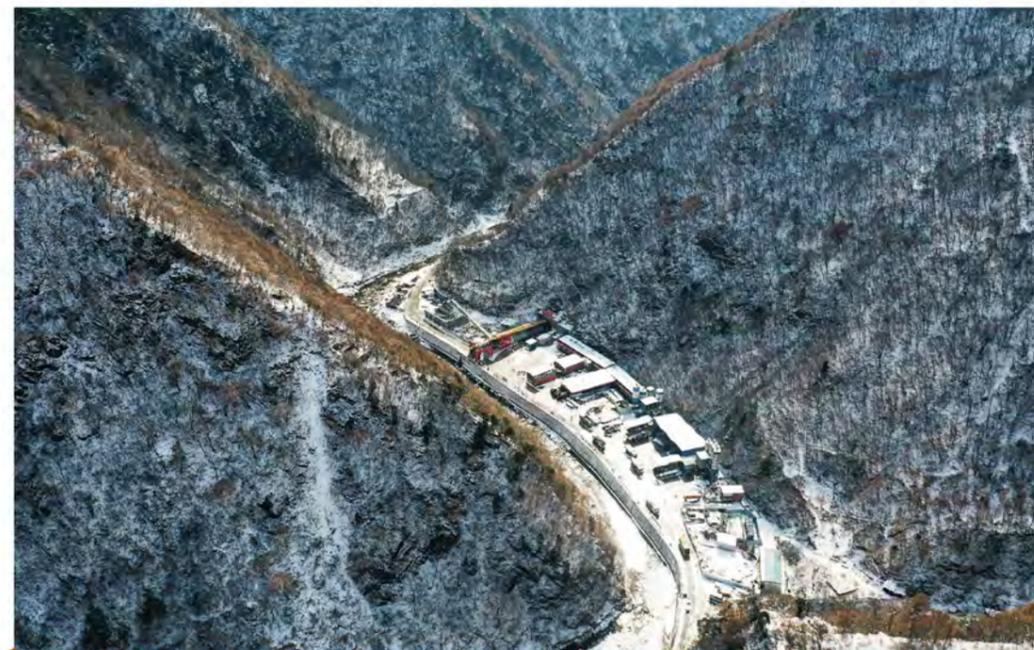
陕西省引汉济渭工程秦岭特长输水隧洞全线贯通

Qinling Extra-long Water Transfer Tunnel of Shaanxi Province completed

案例
Case

2月22日，由铁一院设计，中铁十七局、中铁十八局、中铁二十一局、中铁二十二局等单位参与施工的陕西省引汉济渭工程秦岭特长输水隧洞全线贯通。该隧道全长98.3公里，最大埋深2012米，是人类历史上首次从底部横穿秦岭，创造了TBM单机连续掘进世界第一等多项世界纪录。隧道建成后，每年将输入陕西关中地区约15亿方汉江水，为1411万人提供生产生活用水，对完善国家水网，维护渭河流域生态环境健康，促进陕西经济社会发展具有重要意义。

On February 22, 2022, the Qinling Extra-Long Water Transfer Tunnel for the Han Jiang to Wei He Water Diversion Project, designed by the China Railway First Survey and Design Institute Group Co., Ltd. and constructed by the China Railway 17th Bureau Group Co., Ltd., China Railway 18th Bureau Group Co., Ltd., China Railway 21st Bureau Group Co., Ltd., and China Railway 22nd Bureau Group Co., Ltd., was fully completed. The tunnel is 98.3 kilometers long and has a maximum depth of 2,012 meters. It is the first time in human history that the Qinling Mountains have been crossed horizontally from the bottom, creating multiple world records such as the world's first TBM single machine continuous boring. When completed, the tunnel will supply approximately 1.5 billion cubic meters of water from the Han Jiang to the Guanzhong area of Shaanxi Province annually, providing water for production and living for 14.11 million residents. The project is of great significance for improving the national water network, maintaining a healthy ecological environment in the Wei River Basin, and promoting economic and social development in Shaanxi Province.



陕西省引汉济渭工程秦岭特长输水隧洞全线贯通
Qinling Extra-long Water Transfer Tunnel of Shaanxi Province completed

2022年我们的荣誉

Our honors in 2022

境内工程荣获鲁班奖14项（承建9项、参建5项）、境外工程荣获鲁班奖1项（承建）

14 Luban Awards for China Construction Projects (9 as the main contractor and 5 as a subcontractor), and 1 Luban Award for Overseas Projects (as the main contractor)

荣获国家优质工程奖47项（施工总承包27项、参建20项），其中金奖4项（施工总承包1项、参建3项），国优奖43项（施工总承包26项、参建17项）

47 National Quality Engineering Awards (27 as the general contractor and 20 as a subcontractor), including 4 Gold Awards (1 as the general contractor and 3 as a subcontractor) and 43 Excellence Awards (26 as the general contractor and 17 as a subcontractor)

案例
Case

引入专业的质量咨询评估机构

Introducing professional quality consulting and evaluation agencies

中铁十一局建安公司引入专业的第三方质量咨询评估机构，对年内12个即将交付住宅项目开展实体质量、质量行为、质量风险等方面的定性和定量质量评估。通过第三方评估，真实掌握受检项目的质量状况，及时发现交付前的质量风险和隐患，并督促、跟踪项目整改，极大降低交付后质量投诉。

The China Railway 11th Bureau Group Construction and Installation Engineering Co., Ltd. has introduced professional third-party quality consultation and evaluation agencies to conduct qualitative and quantitative quality assessments on 12 residential projects that are scheduled to be delivered in 2022 in terms of physical quality, quality behavior, and quality risks. Through third-party evaluation, the real quality status of the inspected projects can be accurately grasped, quality risks and hidden dangers before delivery can be detected in a timely manner, and the project can be urged and tracked for improvement, greatly reducing the number of quality complaints after delivery.



第三方质量咨询评估单位在南昌文全花园项目开展质量检查

A third-party quality consultation and evaluation agency conducts a quality inspection on the Nanchang Wenquan Garden project

中国铁建践行质量强国战略，以工匠精神推进品质工程建设，以高质量的产品和服务诠释“品质铁建”。

To contribute to the national strategy of building China's strength in product quality, we promote the construction of high-quality projects with craftsmanship spirit, and interpret "Quality CRCC" through high-quality products and services.



完善质量管理

Improving quality management

公司在质量管理中坚持“百年大计、质量第一”方针，以标准化管理为目标，不断强化过程质量控制，全面落实质量责任制，加大管理人员培训力度，广泛开展“质量月”、QC小组和创建质量信得过班组等活动，确保工程质量稳定可控。

The Company adheres to the policy of "century project, quality first" in quality management. With standardized management as our goal, we continuously improve process quality control while fully implementing the quality responsibility system. We increase the training of management personnel, and extensively carry out activities such as "Quality Month", QC teams, and trustworthy quality classes to ensure stable and controllable engineering quality.

在施工生产中，完善服务质量管理体系，实行技术交底制、首件工程认可制，夯实基础支撑能力。

During construction and production, we have improved our service quality management system. By implementing a technical disclosure system and first-piece engineering approval system, we have strengthened the foundation support capability.

在日常管理上，推行企业“首席质量官”制度，打造特色质量文化，强化质量全民共治，推动质量素质提升。

In daily management, we have implemented the "Chief Quality Officer" system, created a distinctive quality culture, strengthened quality governance by all, and raised the quality awareness.

在质量监管上，开展质量红黑榜、诚信积分制、失信惩戒制、“质量回头看”等活动，坚决守住质量底线，逐步提升质量管理标准化、规范化水平。

In terms of quality supervision, we have carried out activities such as the quality red and black list, integrity points system, dishonesty punishment system, and "follow-up quality inspections", firmly holding the bottom line of quality, and gradually improving the standardization and normalization of quality management.

Building High-quality Projects 建造品质工程

信息化管理促进质量管理提升

IT-based management for quality management improvement

案例
Case

中铁二十二局开展“智管云”质量管理模块关联性开发，能智能分析问题种类，精准研判高频问题，及时推送频发质量缺陷信息，形成问题全程可追溯，实现质量、技术、试验人员的履职考核。通过模块关联，强化过程管控，各级检查、巡查有效串联，形成闭环管理。

The China Railway 22nd Bureau Group Co., Ltd. has launched the "Intelligent management cloud" quality management module association development, which can analyze problem types intelligently, judge high-frequency problems accurately, send frequently occurring quality defect information in a timely manner, form traceable quality problems, and achieve performance assessment of quality, technical, and testing personnel. Through module association, process control has been strengthened, and various levels of inspection and patrol have been effectively linked to form a closed-loop management system.



开展“质量月”活动 "QualityMonth" Activities



强化质量过程管控 Process Quality Control

提供优质服务

Providing High-quality Services

我们秉承“以客户为中心”的服务理念，坚定履行对客户的每一份承诺，切实保障客户权益。建立全方位服务体系，创新客户服务模式，开展客户关系管理，畅通客户反馈渠道，为客户提供安全、可靠、优质、高效的服务，持续提升客户满意度。

We adhere to the "customer-centric" service concept, firmly fulfilling every commitment to customers, and effectively protecting customer rights and interests. We have established a comprehensive service system, innovated customer service models, established a customer management system, and opened up customer feedback channels. Our goal is to provide customers with safe, reliable, high-quality, and efficient services, and continuously improve customer satisfaction.

坚守安全底线 Upholding the Bottom Line of Safety

中国铁建秉持“生命至上、预防为主”的企业安全文化理念，把保护员工生命安全摆在首位，持续完善安全生产管理体系，加强员工安全教育培训，筑牢安全生产防线，保障生产建设安全进行。

Following the work safety concept "people first, precaution crucial", we prioritize the safety of our employees above all else. To ensure that our production and construction activities are carried out safely, we continuously improve our work safety management system, provide thorough safety education and training to our employees, and build a robust line of defense against potential safety hazards.

加强安全管理

Enhancing safety management

中国铁建统筹发展与安全，锚定安全生产“零事故、零死亡”目标，按照“党政同责、一岗双责、齐抓共管、失职追责”和“三管三必须”原则要求，深化安全生产“五个责任体系”建设，持续健全安全生产责任体系与预防控制体系，认真组织开展安全生产大检查、专项督导检查等活动，深入排查治理风险隐患，筑牢安全生产防线。

We are committed to balancing development and safety, with the work safety goal of achieving "zero accidents and zero fatalities". To this end, we follow the requirements of "the Party and the management sharing the same responsibility, two types of responsibilities for one post, joint management, and holding negligence accountable and "three musts for three types of management positions." We have deepened the construction of the "five responsibility systems" for work safety, continuously improved the responsibility system and prevention and control system for work safety, and conducted thorough safety inspections, special supervision and inspection activities, as well as in-depth risk assessments to consolidate our line of defense against potential safety hazards.

发生重特大生产安全事故为**0**
no major safety accidents occurred

召开年度安全生产工作会议、安委会专题会议、安全生产工作视频会议等会议**10**次
A total of 10 meetings on work safety or by the safety committee were held

2022

推进清单式管理

Promoting list-based management

案例
Case

中铁十七局五公司在“安全生产月”期间，结合安全生产提升年活动，制定详实的《生产安全风险清单》，形成与绩效挂钩的责任清单考核管理制度，拧紧责任链。五公司采取党政主管领导主导、部门严管、项目自查的管理办法，以安全生产警示约谈制度倒逼各部门、各项目落实安全责任，推动“第一责任人”守法履责，切实筑牢企业高质量发展的安全根基。

During the "Work Safety Month", the China Railway 17th Group of the Fifth Engineering Co., Ltd. developed a detailed Work Safety Risk List in conjunction with their annual events for work safety improvement. They established a responsibility list assessment management system that is linked to performance, thus tightening the responsibility chain. The Fifth Engineering Co., Ltd adopted a management approach featuring guiding leadership by Party and company leaders, strict departmental governance, and project self-inspection. With a work safety warning interview system, they urge departments and projects to implement safety responsibilities and to drive the "first responsible person" to fulfill their legal obligations. These efforts allow them to effectively strengthen the safety foundation for the high-quality development of the company.

打造智慧安全

Creating IT-enabled safety

公司大力实施“科技兴安”战略，注重运用现代信息科技，融入创新思维和先进理念，聚焦生产现场安全风险，用科技的力量筑起安全防火墙。

We are vigorously implementing the strategy of "enabling work safety through science and technology", which involves utilizing modern information technology and incorporating innovative thinking and advanced concepts. With focus on identifying safety risks at production sites, we leverage technology to build a robust safety firewall.

智能式安全帽+安全管控系统

Intelligent safe helmet + safety control system

案例
Case

由中铁十九局矿业公司信息技术分公司研发的“智能式安全帽+安全管控系统”，具备定位、通信、报警、寻呼、环境感知、姿态感知等多种功能，可以随时回传作业人员的位置、姿态、工作状态、持卡状态等。智能指挥中心可以对人员大数据进行处理分析，管理人员可通过手机和电脑对一线作业人员进行安全保护、实名管理、质量溯源、数据共享、考勤统计等精准高效的远程管理。

The "Intelligent Safety Helmet + Safety Control System" developed by the China Railway 19th Bureau Group Mining Investment Co., Ltd. has various functions such as positioning, communication, alarm, paging, environmental perception, and posture perception. The system can instantly transmit the location, posture, work status, and card-carrying status of the workers. The intelligent command center can process and analyze the big data of personnel, and the management personnel can carry out precise and efficient remote management of safety protection, real-name management, quality traceability, data sharing, attendance statistics, among other operations, for front-line workers via cell phones and computers.

数智化系统,安全管理“云”平台

Digital intelligent system, safety management "cloud" platform

案例
Case

中铁建设建筑科技公司首创综合智慧管控系统——“156项目管理数智建造平台”，实现安全体系管理电子化、施工动态监控实时化、安全风险预警预控智能化、信息交互共享集成化。管理人员可实时监测现场重大危险源、安全隐患、大型机械设备等数据，有效消除管理盲区，保障现场作业人员安全。该智慧管控系统已在中铁建设140个项目成功应用。

The China Railway Construction Group (CRCG) Co., Ltd. has pioneered an integrated intelligent control system - "156 Project Management Digital Intelligence Construction Platform", which realizes electronic safety system management, real-time construction dynamic monitoring, intelligent safety risk warning and pre-control, and integrated information interaction and sharing. With this system, management personnel can monitor the site's major hazards, safety hazards, large mechanical equipment and other data in real time, effectively eliminating blind spots in management and ensuring the safety of site operators. This intelligent control system has been successfully applied in 140 projects of China Railway Construction Group.

强化安全宣教

Strengthening safety education

我们高度重视员工安全教育培训，创新安全教育手段，通过安全教育VR体验系统、安全知识电影、两微一赛等各种方式，提高全员安全意识。

We place great importance on safety education and training for our employees, and continuously innovate our safety education methods. Through various means such as the safety education VR experience system, safety knowledge films, as well as "Two Micros and One Quiz" (micro courses, micro learning and safety knowledge quizzes), we aim to enhance the safety awareness of all staff members.

公司安全生产教育培训

29260人次

A total of 29,260 people received work safety education and training within the Company

2022

“两微一赛”抓实安全教育

"Two Micros and One Quiz" strengthen safety education

案例
Case

中铁十二局四公司以施工班组为单位，开展安全生产“两微一赛”学习教育活动。“微课堂”利用作业空隙开展，在项目技术安全人员的组织监督下，班组成员通过安全知识问答、轮流讲安全、谈安全感悟体会、宣誓表决心等方式，强化知识宣贯；“微学习”以清单化的安全知识点为基础，划分3人小组，每天对照清单开展学习情况互查互鉴。安全知识竞赛活动则在每周每月固定举行，按照竞赛结果给予班组成员以相应表彰奖励，在班组内形成比学赶超氛围。

The China Railway 12th Group of the Fourth Engineering Co., Ltd. has carried out work safety education activities through "Two Micros and One Quiz" at the level of construction teams. During the "Micro Courses", the team members leverage their work breaks to participate in safety knowledge quizzes, take turns discussing safety, share their experiences and insights, and make a solemn pledge to strengthen knowledge dissemination under the supervision of project technical safety personnel. Based on checklists of specific safety knowledge points, "Micro Learning" involves dividing team members into groups of three and checking off safety knowledge on a daily basis. Safety knowledge competitions are held every week and month, with team members recognized and awarded based on their performance. This helps foster a culture of mutual learning and improvement within the team.



项目作业人员接受安全警示教育
Project operators receive safety education



开展隧道坍塌顶管应急救援演练活动
The activities of emergency rescue drill for tunnel collapse and roof support failure



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Eco-friendliness for Building a New Ecology of Harmonious Coexistence

Building China into a modern socialist country in all respects inherently requires us to respect, adapt to and protect nature. Committed to integrating green and low-carbon concepts throughout construction projects, we intensively develop green business, promote low-carbon recycling technology, improve resource use efficiency, implement ecological protection projects, cultivate related talents and construct high-quality green projects. Being a participant in global environmental governance, we have fulfilled our environmental protection responsibilities to promote sustainable environmental development and build a beautiful homeland with all parties.

绿色

构建和谐共生
新生态

尊重自然、顺应自然、保护自然，是全面建设
社会主义现代化国家的内在要求。中国铁建
致力于将绿色低碳理念融入项目建设全过
程，大力发展绿色环保业务，推广低碳循环技
术，提高资源利用效益，实施生态保护项目，
培育绿色环保人才，建造绿色优质工程，参与
全球环境治理，履行环境保护责任，全力推动
环境可持续发展，共建美丽家园。



公司始终践行“绿色施工”理念，把“四节一环保”贯穿于项目施工全过程，协同推进降碳、减污、扩绿、增长，推进生态优先、节约集约、绿色低碳发展。2022年，所属各单位和在建项目没有发生环境污染事件。

Upholding the concept of "green construction", CRCC incorporates "four savings and one protection" (energy saving, land saving, water saving, material saving, and environmental protection) into the whole process of construction projects. We coordinate carbon reduction, pollution reduction, extension of green area with corporate development while prioritizing ecology, conserving resources and using them efficiently, and standing fast to green and low-carbon development. In 2022, no environmental pollution incidents happened in our subsidiaries and projects under construction.

污染防治

Preventing and controlling pollution

我们深入推进环境污染防治，坚持精准治污、科学治污、依法治污，把绿色施工融入到项目施工的各个环节，深入开展污染防治攻坚战，最大限度减少建造污染。

We promote the prevention and control of environmental pollution thoroughly by controlling pollution precisely, scientifically and legally. To fight against environmental pollution, we integrate green construction into all aspects of construction projects to minimize construction pollution.

大气污染控制 Air pollution control

施工现场安装配置洒水车、雾炮机、淋喷装置、洗车槽等环保设施；加工棚钢结构焊接、喷漆等配备防污染措施；重污染天气启动应急预案；土石方作业有降尘措施；城市采暖期实行错峰作业。

Construction sites are equipped with watering cart, fog cannons, spraying devices, car wash tanks and other environmental facilities. For operations such as welding and painting for the processing shed steel structures, we take anti-pollution measures. In case of heavy pollution days, we activate the emergency plan. Earthwork is provided with dust reduction measures. During heating season in the city, we implement off-peak construction.

水污染控制 Water pollution control

对项目产生的废水、污水进行分类收集和处理；向市政管网排放的废水、污水需要符合规定达标；在饮用水水源保护区和其他特殊水体区内，禁止开展污染水体的项目施工生产活动；桥桩作业泥浆、隧道施工污水、拌合站和梁场等污水按规定设置沉淀池处理，经检验合格后排放；生活污水统一归集到化粪池，交由专业队伍处理；工程项目施工过程中对沿线河流、湖泊等水体需采取相对应的保护措施。

We collect and treat wastewater and sewage generated from construction projects in a classified manner and ensure that the wastewater and sewage discharged to the municipal pipeline network meet the required standards. We prohibit construction and production activities that pollute water bodies in drinking water source protection zones and other special water bodies. Mud and sewage generated in bridge pile construction and tunnel construction, as well as wastewater from mixing station and beam yard are treated in sedimentation tanks in compliance with the regulations and discharged after passing the test. Domestic sewage is collected in septic tanks and treated by specialized teams. We also protect water bodies such as rivers and lakes along the route appropriately during the construction.

开展绿色施工 Carrying Out Green Construction

中国铁建积极践行“生态铁建、绿色发展”理念，强力推行项目施工现场节能环保管理6个方面82条工作清单，提升管理标准化水平，建立管控指标并实行扣分制管理，强化监测手段，全面提高环境管理水平。

2022年，我们紧紧围绕“绿色低碳，节能先行”与“落实‘双碳’行动，共建美丽家园”主题，开展系列宣传教育活动，进一步根植绿色发展理念。中国铁建总部及所属各单位组织开展全国节能宣传周和全国低碳日活动，约5030个项目、20余万人通过不同形式参加了活动。

Guided by the concept of "eco-friendly CRCC and green development", CRCC steps up efforts to implement 82 standards in six aspects of on-site energy conservation and environmental protection to improve management standardization. We also set up control indicators, implement a point deduction system, and strengthen monitoring to comprehensively improve our environmental management.

In order to further practice the concept of green development, we carried out a series of publicity and education activities on "energy saving first for green and low-carbon development" and "contributing to carbon peak and carbon neutrality goals for a beautiful homeland" in 2022. The headquarters and subsidiaries of CRCC launched 5,030 projects during National Energy Conservation Publicity Week and National Low-carbon Day, with more than 200,000 participants involved in through different channels.



中铁十一局承建的重庆广阳岛生态修复工程
Chongqing's Guangyang Island ecological restoration project is constructed by China Railway
11th Bureau Group Co., Ltd.

完善环境管理

Improving Environmental Management

土壤污染控制 Soil pollution control

对施工现场存放油料和机械保养修理场地进行防渗处理；开发矿产资源、开采碎石不允许存在土壤污染；在自然保护地内，施工防止破坏土壤、植被等生态环保违法违规行。

We conduct impermeable treatment in the construction site where oil is stored and the site where machinery is maintained and repaired. Soil pollution is prohibited when developing mineral resources and mining gravel. For construction projects in the nature reserve, destruction of soil and vegetation and other ecological violations are banned.

噪声污染控制 Noise pollution control

在昼、夜施工现场据施工需要合理配置降噪设备，噪声敏感区段采取作业时段控制措施。

We set up noise reduction equipment based on on-site construction needs at day and night. In the noise sensitive area, we take control measures during the operating hours.

固废和危废污染控制

Solid waste and hazardous waste pollution control

固废、危废贮存设施、场所的建设符合设计和国家环境保护标准，管理和维护统一规范；危险废弃物设置识别标志；固废、危废贮存、转移过程中采取防扬散、防流失、防渗漏等措施；项目按相关要求和规定实施放射性废物处置，伴生放射性矿污染风险得到有效防控。

We promise to use solid waste and hazardous waste storage facilities and construct sites in compliance with the design and national environmental protection standards, standardizing the management and maintenance. Hazardous wastes are set up with identification signs and measures are taken to prevent dispersion, loss and leakage during the storage and transfer. We dispose of radioactive waste in compliance with relevant project requirements and regulations, and effectively prevent and control the risk of associated radioactive ores contamination.

案例
Case

推行全过程“绿色施工”

Pursuing "green construction" throughout construction project

中铁十四局北京东六环项目部以精细化、科学化管理为抓手，不断对项目进行优化改进，确保达到绿色环保要求。在作业过程中，项目部改造运用三通球阀+闭塞球式管路延伸系统，保证整个换管作业过程无泥浆溢出，极大改善隧道施工环境。项目部通过工地的“智慧大脑”，对施工现场的温度、湿度、PM2.5、PM10、风力、风向、噪声、有害气体等数据进行实时监控和分析，进而落实环保措施。

To meet the requirements for environmental protection, the project department of Beijing East sixth Ring Road of China Railway 14th Bureau Group Co., Ltd. keeps optimizing project management toward lean and scientific management. "Three-way ball valve + blocking ball pipeline extension system" has been upgraded to prevent mud overflow when replacing entire pipeline, greatly improving the tunnel construction environment. In addition, the project department has enabled real-time monitoring and analysis of construction site data such as temperature, humidity, PM2.5, PM10, wind, wind direction, noise and hazardous gases with "intelligent brain" to protect environment concretely.



北京东六环改造项目推行全过程“绿色施工”
The project department of Beijing East sixth Ring Road pursues "green construction" throughout construction project

案例
Case

青岛地铁5号线环保典型做法

Exemplary practices for environmental protection by Qingdao No.5 Subway project team

中铁十八局在青岛地铁5号线工程施工过程中，项目团队严格落实“六个全覆盖”要求，做好场地硬化全覆盖，避免现场存在扬尘及垃圾污染现象；每日对场地进行洒水降尘3次，杜绝扬尘和垃圾污染；场区采用符合青岛地铁标准化装配式围挡封闭，并定期安排专人进行现场巡查周边围挡以及市政道路；场区内设置蓄水池用于砼养生、洒水降尘等降尘用水，蓄水池内水主要来自基坑内抽排水，做到废水利用，场区内排水系统完善畅通；现场选用低耗高能机械设备，减少废气排放；在噪声污染方面使用专用仪器，对现场作业产生声响进行检测，保证无噪声污染。

During the construction of NO.5 subway in Qingdao, the project team of China Railway 18th Bureau Group Co., Ltd. has strictly implemented the requirements of "six full coverage". Aiming for reducing dust and garbage pollution, we have hardened the site and sprinkled it three times a day. We close the site with fabricated fences up to standards of Qingdao Metro, and deploy special personnel to inspect the surrounding fences and municipal roads regularly. A reservoir, which is mainly filled with water coming from the pumping and drainage for the purpose of reusing water, is set up for concrete curing, sprinkling and other dust reduction activities, while maintaining on-site drainage system unblocked. We use low-consumption and high-energy mechanical equipment to reduce exhaust emissions. Moreover, special instruments are used to detect the sound generated by the site operation to ensure no noise pollution.



青岛地铁5号线环保典型做法
Exemplary practices for environmental protection by Qingdao No.5 Subway project team

资源综合利用

Integrated resource utilization

中国铁建培育全面节约和高效利用资源的价值观，进行科学管理，努力建设资源节约型、环境友好型企业，推动企业绿色高质量发展。

CRCC cultivates the value of comprehensive conservation and efficient use of resources. Conducting scientific management, we strive to build a resource-saving and environment-friendly enterprise, thereby promoting green and high-quality development of the Company.

全国最大垃圾填埋场变身“生态宝地”

Turing China's largest landfill into "ecological treasure"

中铁十七局打造的重庆市长生桥垃圾填埋场生态修复工程是全国最大的垃圾填埋场生态修复工程，占地约1037亩。该项目以“城市双修”（生态修复、城市修补）理念为指引，通过打造生态主题公园的方式，有效治理和改善周边空气、地下水、土壤质量，实现城市土地循环再利用，在提升城市发展潜力的同时，提高人民群众生活幸福指数。



重庆市长生桥生态修复绿地
The ecological restoration greenbelt of
Chongqing Changsheng Bridge

Chongqing Changsheng Bridge Landfill, covering an area of about 1,037 mu (about 691,333 square meters), has been ecologically restored by the China Railway 17th Bureau Group Co., Ltd., which is the largest landfill ecological restoration project in China. Guided by the concept of "urban double repair" (ecological restoration and urban repair), it effectively improves the air quality, groundwater and soil of surrounding area by creating an ecological theme park, and has realized urban land recycling. It further unleashes the potential of the city development while improving the happiness index of the public.

案例
Case

北京城市副中心站打造绿色施工新标杆

Beijing Sub-Center Railway Station sets benchmark for green construction

中铁建设在北京城市副中心站综合交通枢纽项目中，始终坚持聚焦绿色低碳施工，成为首家获得业主“绿牌”的施工单位。在桩基施工阶段，项目团队自主研发泥浆固化脱水处理系统，泥浆水经过滤可循环利用，有效避免水资源、土壤资源污染。在项目运输阶段，项目团队利用自主研发的多功能一体化洗车机，实现全自动无需人工操作，方便快捷保障所有出场车辆干净整洁。



自主研发的多功能一体化洗车机
The multi-functional integrated car washing machine
independently developed

China Railway Construction Group Co., Ltd. sticks to green and low-carbon principles throughout the construction of the integrated transport hub project of Beijing Sub-center Railway Station, becoming the first construction unit to obtain the owner's "green card". In the construction of pile foundation, the project team independently developed a mud curing and dewatering treatment system where the mud water is recycled through filtration, effectively avoiding the pollution of water and soil resources. Additionally, the team realized the automatic operation of the multi-functional integrated car washing machine independently developed by the project team in the transportation stage. Convenient to use, it ensures the cleanliness of all vehicles sent from the site.

案例
Case

生物多样性保护

Conserving Biodiversity

生态兴则文明兴。中国铁建积极响应党中央决策部署和国家战略，以国家重点生态功能区、生态保护红线、自然保护区等为重点，加快实施重要生态系统保护和修复重大工程，科学开展大规模国土绿化行动，提升生态系统多样性、稳定性、持续性。

A sound ecosystem is essential for the prosperity of civilization. Following the decisions made by the CPC Central Committee and national strategies, we carry out major projects for preserving and restoring key ecosystems at a faster pace in priority areas, including key national ecosystem service zones, ecological conservation redlines, and nature reserves and launch large-scale national greening actions scientifically. Consequently, we contribute to the enhancement of ecosystem diversity, stability and sustainability.

泉港海洋生态修复工程全面开建

Quangang marine ecological restoration project in full swing

中铁二十二局建设的福建泉州泉港海洋生态修复工程，是国家2021年至2035年重要生态系统保护和修复总体规划中首批实施的重点工程之一。项目将启动“贝藻礁型防浪屏障建设”“后龙湾沿线沙滩修复与养护”“后龙湾海堤生态化改造”“海滩垃圾拦截和收集系统”四大工程的建设，构筑起“三防一体”海洋生态减灾空间体系。项目建成后，可加强海洋环境保护和生态修复，降低临港工业和城市建设带来的环境压力，保障泉州市北部生态安全。

The marine ecological restoration project in Quanzhou, Fujian, constructed by China Railway 22nd Bureau Group Co., Ltd., is one of the first key projects to be implemented in the national plan on protecting and restoring major national ecosystems. The project, consisted of four major projects - "construction of shellfish reef-type wave barrier", "beach restoration and maintenance along Houlong Bay", "ecological transformation of Houlong Bay seawall" and "beach garbage blockage and collection system", aims to construct "three-in-one" (human + physical + technical) spatial system of marine ecological disaster reduction. Once completed, it will strengthen marine environmental protection and ecological restoration, reduce the environmental pressure brought by the port industry and urban construction, and reinforce the ecological security of northern Quanzhou City.



建设中的后龙湾段贝藻礁型防浪屏障
Shellfish reef-type wave barrier of Houlong Bay is under construction

案例
Case

案例
Case

中铁十八局首个大型光伏EPC总承包项目

First large-scale photovoltaic EPC general contracting project of China Railway 18th Bureau Group Co., Ltd.

中铁十八局建设的武威市红沙岗20万千瓦光伏发电项目是甘肃省第一批“十四五”风电光伏发电新能源项目。项目建成后，全生命周期可实现发电量887212万千瓦时，年均上网电量约为35488.49万千瓦时，每年可节约标煤约11.41万吨，减少二氧化碳约3.08吨，充分实现生态和经济效益协调发展。

The 200MW photovoltaic power generation project in Hongshagang, Wuwei, built by China Railway 18th Bureau Group Co., Ltd., is among the first batch of wind power and photovoltaic power generation projects of Gansu Province during the 14th Five-Year Plan period. When completed, it can generate 8872.12 GWh in its full life cycle, and its annual on-grid electricity can reach 354.8849 GWh, which can save 114,100 tons of standard coal equivalent and reduce about 3.08 tons of carbon dioxide emissions per year, fully realizing the coordinated development of ecological and economic benefits.



红沙岗20万千瓦光伏发电项目全景
The 200MW photovoltaic power generation project in Hongshagang

中国铁建打造产业生态体系，加大对绿色环保产业的经营开拓力度，重点发展流域治理、水环境治理、新能源、抽水蓄能及建筑垃圾资源化等业务，绘就绿色发展之路。

In an effort to achieve green development, CRCC establishes an industrial ecosystem by strengthening the operation and exploration of environmental protection industry, and promoting watershed management, water environment management, new energy, pumped storage and construction waste recycling business.

案例
Case

投建营一体化的市政污水处理厂二期项目

Second phase of investment-construction-operation municipal wastewater treatment plant project

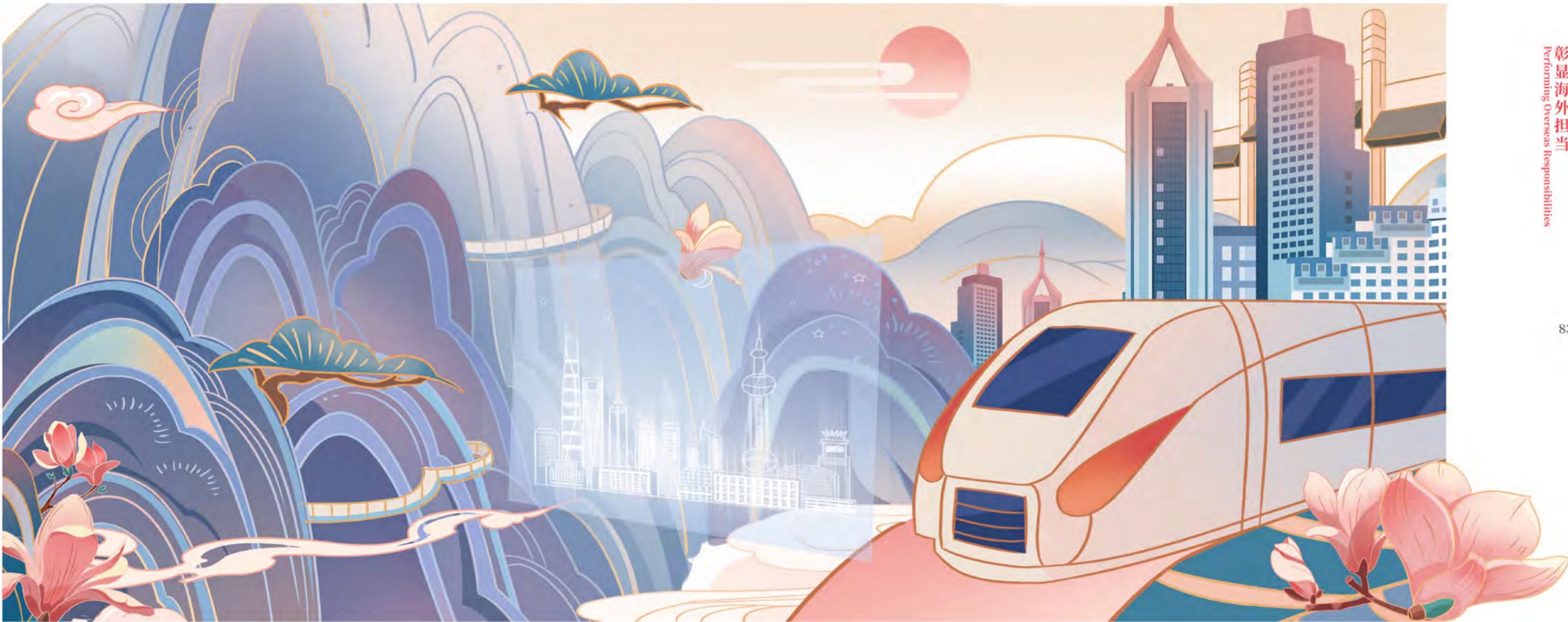
中铁建发展集团投建营一体化的张贵庄污水处理厂二期工程，是天津市首个采用PPP模式运营的存量污水处理项目。项目总投资30亿元，占地达45公顷，建成后该水厂将实现日污水处理量45万吨，日处理污泥600吨，服务居民128万人。该项目是2020年以来国内市政领域采用“TOT+BOT”模式实施的规模最大的单体污水处理厂项目。

The second phase of the Zhangguizhuang Sewage Treatment Plant – an investment-construction-operation integrated project of the CRCC Development Group, is the first stock sewage treatment project operated by the PPP (public-private-partnership) model in Tianjin. The total investment of the project is RMB 3 billion, covering an area of 45 hectares. After completion, it will treat of 450,000 tons of sewage, and 600 tons of sludge per day, serving 1.28 million residents. The project is the largest single sewage treatment plant project to use "TOT (transfer-operate-transfer) + BOT (build-operate-transfer)" model in domestic municipal areas since 2020.



张贵庄污水处理厂项目
The Zhangguizhuang Sewage Treatment Plant Project

发展绿色环保产业 Developing Environmental Protection Industry



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开放 建设共同繁荣 新世界

中国铁建始终把人民对美好生活的向往放在心头，把促进发展的时代使命扛在肩上；坚持奉行共商共建共享理念，与合作伙伴强强联合、优势互补，为『中国建造』增添浓墨重彩，为『世界共享』编织恢弘锦绣。



Openness for Developing a New World of Common Prosperity

We strive to fulfill the mission of promoting development to meet the people's desire for a better life. Committed to the principle of extensive consultation, joint contribution and shared benefits, we work with our partners and complement each other, adding a splash of color to "China Construction" and "A Sharing World".

搭建采购信息化平台

Establishing an online procurement platform

我们搭建了铁建云采平台服务于中国铁建股份公司及其下属各级单位、项目部，提供物资、设备、劳务、商旅、办公用品等全品类的在线采购管理及服务。平台实现供应商全生命周期管理，支持供应商一体化服务，为供应商提供在线注册、入网审核、信息浏览、采购交易、合同签订等全流程服务。

We have established the CRCC online procurement platform where all subsidiaries at all levels and project departments can access to online procurement and management services of various resources including material, facility, labor, business trip and office supplies. The platform featuring supplier lifecycle management provides whole-process services covering from online registration, network admittance review, information browsing, procurement transaction to contract signing.

中国铁建各单位通过铁建云采平台累计上报
9028条采购计划

All subsidiaries of CRCC reported 9,028 procurement plans

发布采购公告**3405**条

Released 3,405 procurement notices

2022

完成采购寻源全流程**2440**次

Completed 2,440 times of whole-process procurement and sourcing

在线电子采购金额**275.3**亿元

Online purchasing standing at RMB 27.53 billion

为**21017**家供应商提供注册服务

Provided registration services for over 21,017 suppliers

为**6005**家供应商颁发CA证书

Issued CA certificate to 6,005 suppliers

组织供应商培训**6**次

Organized 6 training programs for supplier

为**1000**余名供应商提供平台培训服务

Covered platform training services for more than 1,000 suppliers

坚持高质量采购原则

Advocating high-quality procurement principles

我们坚持把好材料“进场验收关”，严格材料的招标采购，警惕“问题水泥”“瘦身钢筋”等不合格建材渗入建筑市场。对生产厂家和销售商的资质进行审查，坚持“有问题不进场”基本原则，通过质量审核，真实抽样，严格复测，把好材料进场验收关，从源头将不合格材料拒之门外。

Through strict "on-site inspection and acceptance of materials" and implementation of bidding and purchasing of materials, we are wary of substandard construction materials such as noncondensing concrete, over-elongated reinforced steel rebar which may creep into construction market. What's more, review on qualification of material producers and sellers are carried out in accordance with the principle of "no admittance except for standard material". We keep substandard construction material at bay from the source through quality review and strict retesting based on real sampling.

公司重视与供应商、分包商的协同发展，为供应商提供公开、公平的竞争环境，坚持高质量采购原则，严格材料的招标采购，努力打造负责任可持续发展的供应链条。

The Company attaches great importance to the coordinated development between suppliers and subcontractors, providing suppliers with open and fair playing field. In line with high-quality procurement principles, we strictly control the material bidding and purchasing to develop a responsible and sustainable supply chain.



中铁十五局四公司召开优秀供应商表彰大会

The China Railway 15th Bureau Group of the Fourth Engineering Co., Ltd. holds a commendation conference for excellent suppliers

强化供应商管理体系

Strengthening supplier management system

我们设置供应商履约考核评价模型和定期考核评价模型开展供应商评价，定期发布合格供应商名录，推动供应商不断提升管理水平。注重加强与供应商的沟通交流，通过多种形式逐步提升供应商活跃度与参与度，与实力强、信誉好的供应商建立长期的合作关系。把分包商、供应商、租赁商纳入监督体系，开展廉洁警示教育，并邀请分包商、供应商对项目工作进行反向评价，助推企业健康发展。

With well-established contract performance evaluation model and regular assessment model, we assess suppliers and regularly release the list of qualified suppliers, thus continuously improving our management. To enhance our communication with suppliers, we adopt various forms to increase activity and participation of them and establish an ongoing relationship with those reputable suppliers featuring sound strengths. We have integrated subcontractors, suppliers and lessors into supervision system through which they can receive integrity education. Meanwhile, as a part of efforts to promote healthy corporate development, subcontractors and suppliers are invited to give a reverse appraisal of projects.

物资集中采购区域中心走访

456家供应商

CRCC centralized Procurement Regional Center interviewed 456 suppliers

考察中标供应商

282家

Visited 282 successful bidders

2022

接待来访厂商及供应商**462**家

Received the visit of 462 suppliers and companies

中国铁建与国家电投集团有限公司签署战略合作框架协议

案例
Case

CRCC signs a strategic cooperation framework agreement with the State Power Investment Corporation Limited

7月13日,中国铁建与国家电投集团有限公司签署战略合作框架协议,双方将在新能源、抽水蓄能、常规电源、智慧能源建筑、绿色供能、绿能替代、海外市场等领域进行全方位战略合作,共同探索产业融合发展新模式和转型升级新路径,携手为国家实现“双碳”目标贡献力量。

On July 13, CRCC signed a strategic cooperation framework agreement with the State Power Investment Corporation Limited. In accordance with the agreement, the two sides will develop all-round strategic partnership in new energy, pumped storage power generation, conventional power supply, smart energy building, green energy supply and substitution, overseas market and other fields. On top of that, to achieve carbon peaking and carbon neutrality goals, the two companies have worked together to explore new pattern of industrial integrated development and new pathway of corporate transformation and upgrade.



中国铁建与国家电投战略合作签约仪式
The signing ceremony for strategic cooperation between CRCC and State Power Investment Corporation Limited

中国铁建与厦门市人民政府签署战略合作框架协议

案例
Case

CRCC signs a strategic cooperation framework agreement with Xiamen Municipal People's Government

6月21日,中国铁建与厦门市政府举行“十四五”深化战略合作框架协议视频签约仪式。厦门正在持续拓展“一岛一带多中心”城市空间,全力推动“五中心一基地”建设,为双方合作提供了前所未有的机遇和更广阔的空间。

On June 21, CRCC and Xiamen Municipal People's Government held a video signing ceremony for Framework Agreement on Deepening Strategic Cooperation during "the 14th Five-Year Plan" period. Xiamen is continuing to develop the urban space pattern of "one island with city clusters and multiple district centers", and fully promotes the construction of "five centers and one base" (including international shipping center, international trade center, regional innovation center, international Tourism Exhibition Centre, regional financial center and the BRICS Innovation Base), providing broader space and brighter prospects for cooperation between the two sides.



中国铁建与厦门市政府战略合作签约仪式
The signing ceremony for strategic cooperation between CRCC and Xiamen Municipal People's Government

公司积极与政府、企业、科研院校等伙伴开展战略合作,凝聚多方力量,整合资源优势,实现互惠互利、高质量发展。

We actively engage in strategic cooperation with governments, enterprises and scientific research institutes as well as other partners, working with them through leveraging their resource advantages to achieve mutual benefit and quality development.

与政府合作 Cooperation with government

我们与当地政府签订战略合作协议,实现与地方协同发展。2022年,中国铁建与山东、江西、河南、云南、海南、甘肃、重庆等地方政府加强沟通合作。

We entered into a strategic cooperation agreement with local governments to achieve coordinated development with them. In 2022, CRCC conducted in-depth exchanges and cooperation with provincial governments including Shandong, Jiangxi, Henan, Yunnan, Hainan, Gansu and Chongqing.

与企业合作 Cooperation with enterprises

我们与各企业充分发挥各自优势,搭建高效务实合作平台,加强在基础设施建设、产业投资等领域全面合作。2022年,中国铁建与国家电力投资集团有限公司、中国一重集团有限公司、长江沿岸铁路集团股份有限公司、中国电力建设集团有限公司、中国建材集团有限公司、中国船舶集团有限公司等企业加强合作交流。

Based on our respective advantages, we work with our partners to build an efficient and pragmatic cooperation platform, thus strengthening comprehensive cooperation in infrastructure construction, industrial investment and other fields. In 2022, CRCC pledged to develop ongoing partnership with the State Power Investment Corporation Limited, China First Heavy Industries, Yangtze River Coastal Railway Group Co., Ltd, Power Construction Corporation of China, China National Building Material Group Co., Ltd. and China State Shipbuilding Corporation Limited as well as other companies.

与科研机构合作 Cooperation with scientific research institutes

我们加强校企产学研合作,设立博士后科研工作站,聘请中国工程院院士、高校教授专家担任外部导师,引进硕、博士研究生,建设高水平科技创新平台,合力组织开展科研攻关,实现企业科技发展自立自强。2022年中国铁建与北京交通大学、石家庄铁道大学、中国航天科工飞航研究院、中国铁道科学研究院等科研院所开展技术创新课题研究。

We strengthen the industry-university-research cooperation. Specifically, we have established a postdoctoral scientific research station where master & doctoral student study under academicians of the Chinese Academy of Engineering and professors as well as experts from university. The station provides a high-level scientific and technological innovation platform for researchers to achieve breakthroughs in scientific research, thus consolidating self-reliance and strength in corporate science and technology. In 2022, CRCC launched technological innovation projects with scientific research institutes such as Beijing Jiaotong University, Shijiazhuang Tiedao University, China Academy of Aerospace Science and Industry, and China Academy of Railway Science Corporation Limited.

加强合作共赢

Deepening Win-win Cooperation

案例 Case

卡塔尔世界杯主场馆体育馆惊艳亮相

The Lusail Stadium makes its stunning debut during the FIFA World Cup Qatar 2022

由铁建国际集团承建的2022年卡塔尔世界杯主场馆卢塞尔体育场，是中资企业设计、承建的首个世界杯主场馆，也是世界同类型建筑中跨度最大、最复杂的双层索膜结构体系建筑，也是全球首个在全生命周期应用建筑信息模型技术的世界杯主场馆项目，以先进技术实现对不同区域温度的自动化控制，采用双幕墙结构、使用纳米涂料隔热层，有力降低能源消耗，为观众带来舒适的观赛体验。



卡塔尔世界杯主场馆卢塞尔体育场
The construction of Lusail Stadium, the main stadium of Qatar World Cup

The Lusail Stadium, the host of the FIFA World Cup Qatar 2022, is constructed by CRCC. The first World Cup stadium designed and built by a Chinese-funded company, boasts the largest span and the most complex double-layer cable membrane structure in the world. It is the world's first World Cup stadium project that applies BIM technology throughout the whole building life cycle. Advanced technology is adopted to realize automatic control of temperature in different areas. The use of double-skin curtain wall and nano-coating heat insulation layer effectively reduces energy consumption, bringing a comfortable viewing experience to the audience.

案例 Case

尼日利亚拉各斯轻轨蓝线一期项目竣工

The Nigeria Lagos Light Rail Blue Line Phase I Project completed

由中国土木总承包、铁四院设计，中国铁建大桥局、中铁建电气化局、中铁建港航局参建的西非第一条电气化轻轨——拉各斯轻轨蓝线一期，全长13公里，设计时速为100公里，是“一带一路”倡议在非洲落地的民生项目。

Lagos Light Rail Blue Line Phase I is contracted by China Civil Engineering Construction Corporation and designed by China Railway Siyuan Survey and Design, with the participation of China Railway Construction Bridge Engineering Bureau, China Railway Construction Electrification Bureau and CRCC Harbour & Channel Engineering Bureau. The first electrified light rail in West Africa, with a total length of 13 kilometers and a design speed of 100 km/h, represents a livelihood project implementation of the "Belt and Road" initiative in Africa.

轻轨蓝线项目将助力拉各斯成为一座繁荣、有竞争力的现代化都市。项目将配备独立供电系统，实现绿色与低碳目标，正式运营后最大旅客输送量可达每小时2.5万人次。

——拉各斯州州长 巴巴吉德·桑沃-奥卢

The Blue Line project will make Lagos a competitive modern city that is prosperous. An independent power supply system of the project will help achieve green development and low-carbon goals, and the line after official operation can transport up to 25,000 passengers per hour.

——Babajide Sanwo-Olu, Governor of Lagos State

中国铁建推动共建“一带一路”高质量发展，聚焦海外“稳增长”与高质量发展目标，坚持“海外优先”战略，构建“3+5+N”海外经营发展体系和管理架构，为构建人类命运共同体贡献铁建智慧、铁建方案。

CRCC has earnestly promoted "Belt and Road" initiative. Focusing on stabilizing overseas growth and high-quality development goals, we pursue "Overseas First" strategy, and build a "3+5+N" overseas operation system and management structure to put our wisdom and solution into a community with a shared future for mankind.

打造海外精品工程

Delivering high-quality overseas projects

公司秉承“大国工匠”精神，建成以卡塔尔卢塞尔体育场、尼日利亚拉各斯轻轨蓝线一期项目、匈塞铁路贝诺段等为代表的一大批具有世界影响力的建筑工程，有力推动“一带一路”沿线基础设施“硬联通”，实现了海外业务优先发展、优质发展，为“中国建造”增添了浓墨重彩。

In the spirit of craftsmanship with the pursuit of excellence, we have completed a large number of well-known construction projects represented by Lusail Stadium Project in Qatar, the of the Lagos Light Rail Blue Line Phase I Project in Nigeria, and the Belgrade-Novı Sad section of the Hungary-Serbia Railway Project. The move has effectively promoted the "hard connectivity" of infrastructure along the "Belt and Road", securing the priority development and high-quality development of overseas business, making great contributions to "China Construction".

2022年我们的荣誉

Our awards in 2022

中国铁路“走出去”欧洲的第一单匈塞铁路贝诺段正式通车，实现中国铁路标准与欧盟UIC标准的首次对接

The Belgrade-Novı Sad section of the Hungary-Serbian railway in Europe, the first model for "going out" of China railway, was officially opened for operation, marking that China railway meets the UIC standards set by EU for the first time

阿尔及利亚东西高速公路（中段）项目，尼日利亚阿布贾城铁、阿布贾航站楼荣获国家优质工程奖

Algeria East-west Expressway Project (Middle Section), Nigeria Abuja Intercity Rail Project, Abuja Terminal Project received National Quality Engineering Awards

埃塞俄比亚无锡一棉工业园工程荣获2022年境外“鲁班奖”

The First Wuxi Textile Industrial Park Project in Ethiopia received "2022 Overseas Luban Award"

卡塔尔阿尔希萨道路项目先后获得卡塔尔公共工程局“2022年世界环境日工程环保优秀奖”、英国安全委员会“2022年国际安全奖”

Al Hissa Road Project in Qatar received 2022 Environmental Engineering Excellence Award on World Environment Day and 2022 International Safety Award released by the British Safety Council

卡夫河供水项目获得赞比亚总统希奇莱马的高度评价

Kafue Bulk Water Supply Project was highly rated by Zambian President Hakainde Hichilema

匈塞铁路贝诺段开通运营

The Belgrade- Novi Sad section of the Hungary- Serbian railway opened to traffic

3月19日,匈塞铁路塞尔维亚境内贝尔格莱德至诺维萨德段(贝诺段)开通运营。贝诺段线路全长约80公里,首次实现中国铁路标准和欧盟UIC标准对接,该路段开通后塞尔维亚第一大城市贝尔格莱德至第二大城市诺维萨德间的运行时间由90分钟压缩至33分钟。



匈塞铁路贝诺段开通运营
The Belgrade- Novi Sad section of the Hungary- Serbian railway opens to traffic

On March 19, the Belgrade- Novi Sad section of the Hungarian- Serbian railway was put into operation. With a total length of about 80 kilometers, the Belgrade- Novi Sad section of the line is the first Chinese railway to meet the UIC standards set by EU. After the railway was opened to traffic, the travel time between Belgrade (Serbia's largest city) and Novi Sad (the second largest city) was reduced from 90 minutes to 33 minutes.

案例
Case

菲律宾卡利瓦大坝项目“茉莉号”双护盾硬岩隧道掘进机成功始发

The Double Shield TBM for Kaliwa Dam Project in the Philippines starts to work

铁建重工特别定制的“茉莉号”双护盾硬岩隧道掘进机助力菲律宾卡利瓦大坝开工建设。卡利瓦大坝是菲律宾新百年水源计划的重要组成部分,水库设计容量为5700万立方米,建成后将向菲律宾大马尼拉地区每日供应60万立方米生活用水,彻底解决大马尼拉地区缺水问题。



铁建重工双护盾TBM“茉莉号”
The Double Shield TBM is made by China Railway Construction Heavy Industry Group., Ltd.

The Double Shield TBM is especially made by China Railway Construction Heavy Industry Group., Ltd. for the construction of the Kaliwa Dam in the Philippines. The Dam, with a design capacity of 57 million cubic meters, represents an important step to implement the Philippines' new centennial water plan. Upon completion of the project, it will supply 600,000 cubic meters of domestic water per day to Metro Manila of the Philippines, completely solving the water shortage in this area.

案例
Case

履行海外社会责任

Fulfilling overseas social responsibilities

我们牢记央企责任担当,在建设一座座精品工程的同时,勇担社会责任,与当地社区和谐共融,为当地居民创造就业机会,争当全球一体化进程中的表率,以跨越疆界的爱与情怀赢得合作伙伴及项目所在地民众的认可与信赖。

As a Chinese central state-owned enterprise, while building high-quality projects, we assume social responsibilities and integrate into the local communities to create employment opportunities for local residents. With these efforts, we strive to be an exemplary player in global integration and gain the recognition and trust of partners and the locals where projects are implemented with love and affection across borders.

校企合作,为尼日利亚育才

Cooperating with universities to nurture talents for Nigeria

5月,中国土木尼日利亚公司和陕西铁路工程职业技术学院举办铁道机车运用技术培训班,选拔近100名工作在项目一线的当地列车司机、机务维修人员、咨询监理和当地优秀技术工程师参加,促进了当地员工对铁路线路运维、机车驾驶等相关技术的掌握和学习。

In May, China Civil Engineering Construction Corporation (Nigeria) and Shaanxi Railway Institute held a training course on railway locomotive operation technology to help local employees learn railway line operation and maintenance, locomotive driving and other relevant technologies. Nearly 100 local train drivers, engine maintenance personnel, consulting supervisors and local excellent technical engineers working on the front line of the project participated in this course.

案例
Case

抢险救灾,捐赠救灾物资

Donating supplies for emergency rescue and disaster relief

10月,尼日利亚巴耶萨州超300个社区受到特大洪灾影响,与外界交通断绝。中国土木尼日利亚公司在巴耶萨州最艰难的时刻挺身而出,捐赠15吨物资,包括大米、方便面、木薯粉等食品物资,还主动提供运输车辆及搬运力工,配合州政府完成150吨救灾物资的装卸及转运工作。

In October, more than 300 communities in Bayelsa State, Nigeria, were hit by devastating flooding, with access to the outside world being cut off. Facing a such disaster, China Civil Engineering Construction Corporation (Nigeria) stepped up to help locals get through the most difficult time. The Company donated 15 tons of materials, including rice, instant noodles, tapioca and other food, and also volunteered to provide vehicles and porters to help the state government load, unload and transship 150 tons of disaster relief materials.

“你们所做的事情是真正为了巴耶萨民众,同时也是真正地立足当地、回馈当地,我们非常感激,祝愿中国土木在巴耶萨州的工程项目圆满完成,在州内更好的业绩。”

——巴耶萨州环境局局长兼防洪委员会主席Hon.Iselema Gbaranbiri

"What you have done is truly for the people of Bayelsa, and you are truly thinking about the local area and repay the local area with actual action. We are very grateful, and wish the projects of CCECC in Bayelsa a success and your better performance in the state."

——Hon.Iselema Gbaranbiri, Administrator of Bayelsa State Environmental Administration and Commissioner for the Environment

案例
Case

中国土木哥伦比亚西部有轨电车项目慰问当地社区困难儿童

CCECC Colombia West Tramway Project provides assistance to local disadvantaged children in the community



中国土木埃塞公司捐赠考特利小学公益活动

A subsidiary in CCECC Ethiopia donates supplies to Kotari Primary School

中国土木哥伦比亚西部有轨电车项目与当地居民一起清理垃圾

CCECC Colombia West Tramway Project cleans up garbage together with local residents



中国土木巴基斯坦达苏公路项目部协助抢修道路

CCECC Dassu Road Project Team in Pakistan assisting in road repair efforts

中国土木尼日利亚公司帮助社区义务修补道路

CCECC Nigeria voluntarily helps a community repair roads



中国土木中土尼日利亚公司捐赠巴耶萨州政府救灾物资

CCECC Nigeria donates disaster relief supplies to the Bayelsa State Government

铁四院几内亚项目部培训当地员工

Guinea Project Team of China Railway Siyuan Survey and Design Group Co. Ltd., provides training for local employees



中国土木多米尼克圣域雨林生态度假村和水疗中心项目属地化用工

Hiring local workers for CCECC Dominica's Jungle Bay Eco Villas Resort and Spa Center Project



中国土木哥伦比亚西部有轨电车项目慰问社区困难群众

CCECC Colombia West Tramway Project provides assistance to disadvantaged residents in the community





共享

建造幸福美好 新生活

中国铁建坚决贯彻新时代党的组织路线和中央人才工作会议精神，牢固树立“人才是第一资源”的理念，聚焦“五支”人才队伍建设，加强人力资源能力建设，优化人才队伍结构，为员工营造和谐成长氛围，为公司高质量发展提供坚强组织保障和人才支撑。



Sharing for Creating a Better Life

CRCC stands firm to implement the Party's organizational line for the new era and the guiding principle of the Central Talent Work Conference. Upholding the concept of "human resources as the primary resource", we step up efforts to construct "five talent teams", strengthen capacity building of human resources and optimize the structure of the talent team, thereby creating a harmonious atmosphere for employees development and providing a sufficient organizational guarantee and talents for the Company's high-quality development.

薪酬与福利

Compensation and benefits

公司做好收入分配和薪酬激励，制订实施《工资总额管理办法》，采用企业负责人年薪制、管理人员岗位绩效工资制、生产作业人员联产联效计酬工资制为主体的薪酬分配体系，完善收入分配重点管控体系，向关键岗位、一线员工倾斜。公司依法按时足额缴纳五险一金；按照国家关于休假的相关规定，结合企业生产经营的实际情况，落实休假制度，合理安排职工休假；建立企业年金制度，报销补充医疗保险，持续完善福利保障机制。

We improve income distribution and incentive, and have formulated the Total Wage Management Measures. For the head of the corporate and management personnel, we adopt the annual salary system and the post performance salary system respectively. For production personnel, we pay salary according to their output and performance, which, combined with the former two, constitute our main distribution system. This very distribution system has bettered manage income distribution priorities and ensured that the employees working at the key positions and front-line could earn more money. Moreover, we pay mandatory insurance plans (endowment insurance, medical insurance, unemployment insurance, employment injury insurance, and maternity insurance) and the public provident housing fund in full and on time in accordance with the law. Besides, we reasonably arrange employees' vacations in line with national regulations as well as the Company's production and operation reality; we have established an annuity system, and put in place supplementary medical insurance to improve employee benefits.

畅通沟通渠道

Providing unimpeded communication channel

公司通过谈心谈话制度、职工代表提案、开展基层调研等多种方式，做好职工代表提案收集答复工作，取得良好的沟通效果。

Through heart-to-heart talks, grassroots research, and proposals of employee representatives etc., we have communicated effectively with our employees.

确认职工代表提案**165**件予以立案，提案答复率达**100%**

165 employee representatives' proposals were filed. The response rate reached 100%

2022

中国铁建坚持“以人为本，德才共举”的人才理念，视人才为企业发展的动力源泉，提供多角度立体化的人文关怀，与员工共享发展成果，全面提升员工幸福指数和归属感，促进人的全面发展。

CRCC commits to the concept of "people with ability and virtue first", regarding talents as the driving source of corporate development. We offer employees with multifaceted care and share results with employees to enhance their happiness index and sense of belonging, and to promote their overall development.



中国铁建召开2022年工作会议暨三届二次职代会
CRCC holds the 2022 work conference and the second session of the third employee representative conference

员工权益保护

Protecting the rights of employees

公司严格遵守相关法律法规，坚持保障员工机会平等、多元化、反歧视等方面的合法权益，规范员工招聘流程和管理程序，杜绝雇佣童工，禁止就业歧视，严格执行国家关于性别、年龄、民族等方面政策。

The Company strictly abides by relevant laws and regulations, safeguarding the legal rights and interests of employees while offering equal opportunities, advocating diversity and prohibiting discrimination. We standardize the employee recruitment process and management procedures, forbid any form of child labor and discrimination, and strictly implement national policies on gender, age, ethnicity, etc.

新招聘应届毕业生**17497**人，员工总数**269577**人

The number of employees in CRCC amounted to 269,577, with 17,497 fresh graduates recruited

员工劳动合同签订率**100%**，社会保险覆盖率**100%**

The labor contract signing rate and social insurance coverage rate reached 100%

2022



加强健康管理

Strengthening health management

公司制定《职业健康运行控制程序》，推进职业病危害源头治理，预防和控制职业病发生，切实保障劳动者职业健康权益。公司本着安全、必要、方便的原则，每年安排员工体检，对体检中发现的情况及时反馈员工本人，并及时为员工提供就医服务。

By formulating the *Occupational Health Operation Control Procedure*, we tackle the source of occupational diseases and prevent them from occurring in a concrete way. Prioritizing employee health, the Company organizes employee physical examinations every year at their convenience, after which, we provide feedback as soon as possible and medical services if necessary.

- 加强劳动保护用品采购、使用和管理，采购符合规定的劳动保护用品。
- Strengthening the procurement, use and management of labor protection supplies, and purchasing labor protection supplies that meet the regulations.
- 加强尘毒、噪声、放射性等高危害控制，不断完善防控措施，并定期对作业场所进行专业监测和检查、人员体检。
- Reinforcing the control of dust, noise, radioactivity, and other risky hazards, constantly improving prevention and control measures, and regularly conducting workplace inspections and employee physical examinations.
- 加强安全卫生控制，对办公生活区定期进行清扫，员工食堂有相应的消毒、盥洗、通风、防腐、防尘、防鼠、污水排放等设施、措施，用水符合国家卫生标准，防止食物中毒和传染病发生。
- Enhancing safety and health control. Offices and living areas are cleaned regularly and staff canteen are equipped with appropriate facilities and measures for disinfection, washing, ventilation, antisepsis, dust control, rodent prevention, and sewage discharge. Water use is in line with national health standards to prevent food poisoning and infectious diseases.
- 认真执行女职工劳动保护有关规定，合理安排女职工工作，按照相关规定给予适当照顾和补贴。
- Implementing regulations on labor protection for female workers, assigning reasonable tasks to them, and providing appropriate care and subsidies in accordance with relevant regulations.

关爱员工心理健康

Caring for employees' mental health

案例
Case

中国铁建为缓解和消除因长期奋战在生产建设及健康防疫第一线而可能导致的焦虑等负面情绪影响，邀请4位心理咨询师，为广大员工开展了心理健康知识专题讲座直播。四场线上心理健康知识讲座受到员工的广泛关注，覆盖员工超过10万人。

In order to alleviate the negative emotions of front line employees at production and COVID-19 prevention such as anxiety caused by working long hours, CRCC invited four psychological counselors to conduct lecture on mental health live for the employees. The four online lectures on mental health knowledge received wide attention from employees, covering more than 100,000 participants.

人才队伍建设

Building a Capable Team

公司坚持系统思维和全局观念，抓好战略谋划，印发《“十四五”人力资源规划》《关于“十四五”时期加强优秀年轻领导人员队伍建设实施方案》，持续优化员工结构，加大优秀年轻干部培养选拔力度，加强高层次人才培养力度，做好员工培训和职业技能鉴定，不断加强人才队伍建设，积极营造风清气正的选人用人环境。

With a systematic thinking and holistic perspective, CRCC has issued the *Human Resources Plan 2021-2025 and Implementation Plan on Strengthening the Building of Outstanding Young Leader Teams 2021-2025*, and optimized the employee structure. By increasing the training and selection of high-performing young officials and strengthening the training of high-level talents, we have boosted employee growth and appraised their vocational skills. Subsequently, we have reinforced talent team building and created an upright employment environment.

员工培养

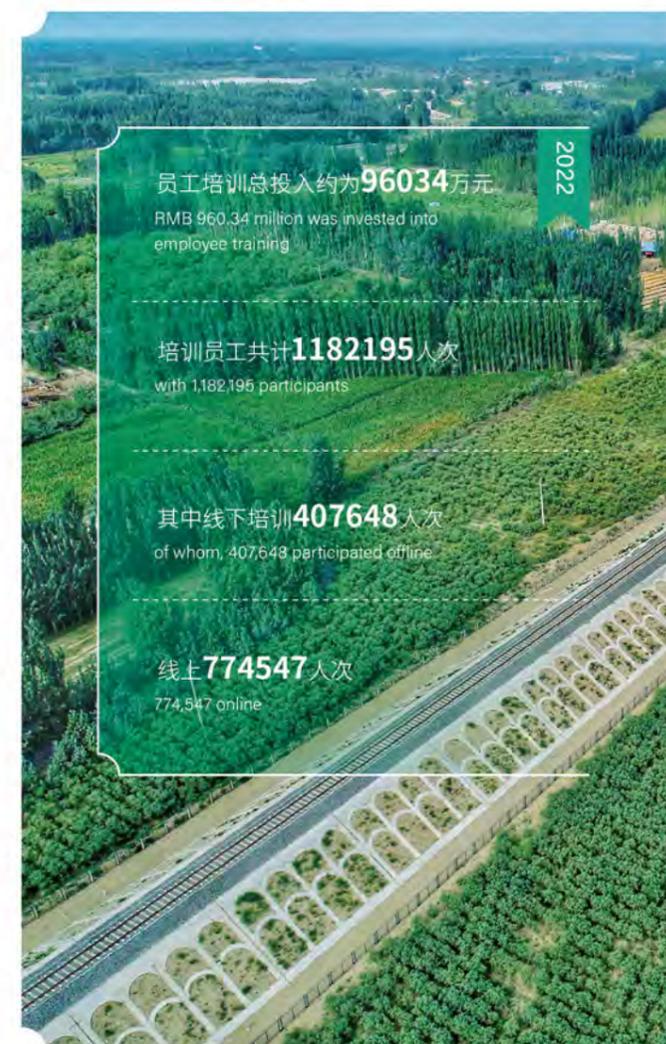
Employee development

公司制定《员工培训管理办法》，坚持“分类分级、应训尽训、精准调训”的原则，采取线上线下相结合方式，加大员工培训力度，进一步提升员工的受训率。

我们鼓励员工在工作中创新创效，收获成长。公司已累计创建3个国家级劳模创新工作室，86个省部级劳模创新工作室，111个股份公司级劳模创新工作室。3个创新工作室参与铁路总工会交流观摩并得到一致好评，被评为火车头劳模和工匠人才创新工作室。在首届大国工匠创新交流大会上，6项科技创新成果重磅亮相。

Based on the concept of "providing employees with targeted and sufficient training", CRCC has formulated the *Management Measures on Employee Training*. To intensify the training, both online and offline courses have been provided to ensure greater participation.

We encourage innovation at work to boost productivity and self-growth. The Company has created dozens of model workers innovation studios, with 3 of them at national-level, 86 at provincial and ministerial level, and 111 at joint-stock company level. Three innovation studios have been visited by the China Railway Trade Union, receiving high praise and being awarded as locomotive model worker and craftsman innovation studios. In the first Artisan Innovation Exchange Conference, CRCC presented 6 scientific and technological innovation achievements.



培养选拔

Training and selection

公司大力培养选拔优秀年轻干部，制定《关于“十四五”时期加强优秀年轻领导人员队伍建设的实施方案》，明确目标任务、重点举措、时间表和路线图，注重完善年轻领导干部选拔、培育、使用、管理环环相扣又统筹推进的全链条机制，努力营造有利于优秀年轻领导干部脱颖而出、健康成长的良好环境。

CRCC steps up efforts to cultivate and promote outstanding young officials, formulating the *Implementation Plan on Strengthening the Building of Outstanding Young Leader Teams 2021-2025*, which specifies objectives, key initiatives and timetables of this effort. In order to create a healthy environment where young officials with excellent performance could be promoted, the Plan cultivates a wholesome mechanism where the cultivation, utilization and management of young and high-performing officials are coordinated.

培育优秀年轻干部

Cultivating outstanding young officials

案例
Case

中国铁建在大连高级经理学院举办青年干部战略思维与领导能力培训班、优秀年轻干部能力素质提升培训班，分别选调52名45周岁以下三级单位主要负责人和48名40周岁以下二级单位优秀中层管理人员参训，遴选1500名35周岁以下优秀年轻干部参加公司两级“青年英才暨青马工程班”，大力培育优秀年轻干部。

CRCC held a training course for young officials on strategic thinking and leadership and a training course for high-performing young officials to enhance their ability in China Business Executives Academy, Dalian. 52 principals in charge of third-level units under the age of 45 and 48 middle managers of second-level units under the age of 40 participated in the training respectively. Furthermore, 1,500 people under the age of 35 were selected to participate in the two-level "Youth Talent Class".

职业发展

Career development

公司坚持员工全面发展，建立纵向梯队分明、横向融合贯通的人才职业发展体系，定期评选公司首席专家、专家、首席技师、特级技师、特级项目经理、一级项目经理，积极打通专业技术人才、技能人才和项目管理人才职业发展通道。2022年公司组织开展了第二届技术专家评选，遴选出3名首席专家、13名专家。

We adhere to the comprehensive development of employees, establishing a career development system whose longitudinal structure is distinguished and horizontal structure is coordinated. To pave the way for the development of professional and technical talents, skilled talents and project management talents, we regularly select chief expert, expert, chief technician, special technician, special project manager and first-class project manager. In 2022, the Company organized the second round selection of technical experts and selected 3 chief experts and 13 experts.

员工关心关爱

Caring for employees

公司贯彻落实中国铁建党委《关于全面推动职工群众共享企业改革发展成果的意见》，实施提升员工生活品质行动，积极推动“幸福企业”试点建设，推动落实员工带薪休假制度、员工工资合理增长与支付保障机制，在高质量发展中促进共同富裕。

CRCC implements the *Opinions on Helping Employees Share the Achievements of Corporate Reform and Development*, enhances employee life quality with practical actions, and accelerates the pilot construction of "Happy Company". We promote the implementation of the paid leave system for employees and the mechanism of reasonable wage increase and payment guarantee for employees. Thus, we have enhanced common prosperity in high-quality development.

员工关爱

Employee care

公司大力实施“暖心工程”，开展偏远艰苦项目员工帮扶、意外致困员工家庭生活帮扶、海外员工家属慰问帮扶、心理健康咨询、单身青年联谊等活动，让广大员工更有获得感和幸福感。中国铁建各级工会全年累计拨付资金4500余万元帮扶员工，重点改善1018个偏远艰苦项目工作生活环境。

To increase employees' sense of gain and happiness, we step up efforts to carry out "Warmth Project" as we help employees at remote and difficult projects and employees encountered with accidents, assist families of overseas employees, provide psychological consultation, and launch after-work social gatherings for single employees. In 2022, CRCC allocated over RMB 45 million to help employees, focusing on improving the working and living environment of employees at 1,018 remote and difficult projects.

维护女职工的合法权益和特殊利益

Safeguarding the legal rights and special interests of female employees

案例
Case

中国铁建设立“爱心妈咪屋”“母婴关爱室”“暖心驿站”等设施，为女员工安然度过孕期、哺乳期等特殊阶段提供人性化的服务，使之真正成为凝聚女职工的温馨港湾。目前中国铁建共建有铁路总工会挂牌爱心屋41个。

CRCC has established facilities such as "Lactation Room", "Baby Care Room" and "Mind Relay Station" to provide humanized services for female employees' pregnancy, breastfeeding and other needs. It has become a harbor for them. At present, CRCC has built 41 love houses listed by the Railway Trade Union.



“云”慰问,保障一线员工权益

案例
Case

Online visit - protecting rights and interests of front-line employees

为保障职工健康工作、快乐生活,中铁十一局工会在施工一线开展“年节慰问、生日慰问、生育慰问”等职工福利一站式“云”慰问活动。职工可通过手机登陆公司微信公众号“职工福利”板块,随时扫码领取心仪的慰问品。2022年公司共投入资金267.9万元,慰问人数近2900人。

In order to ensure that employees work healthily and live happily, the trade union of China Railway 11th Bureau Group Co., Ltd. carried out one-stop online visit for employees' welfare such as "annual festival visit, birthday visit and maternity visit" in the construction frontline. Employees can log on to the "Employee Welfare" section of the company's WeChat official account and scan the code at any time to select their preferred gifts. In 2022, the company invested RMB 2.679 million, with nearly 2,900 beneficiaries.



中铁十一局四公司职工幸福商城
Employee happiness mall of the China Railway 11th Bureau Group of the Fourth Engineering Co., Ltd.

平衡工作生活

Balancing work and life

公司深入开展“喜庆二十大,建功新时代”系列活动,营造积极健康向上的氛围,组织开展趣味运动会、健步走、书画摄影展、拔河比赛、歌咏朗诵比赛、演讲比赛等多项职工参与度高、兴趣浓厚的赛事活动,提升职工幸福感和工会组织吸引力与凝聚力。

We have launched various activities of "Celebrating the 20th CPC National Congress and Building a New Era with Achievement", in a positive and healthy atmosphere. We have organized a number of events which earned high participation and enthusiasm of employees, such as "fun sports", "brisk walking", "painting and photography exhibition", "tug-of-war competition", "singing and recitation contest", and "speech contest", to enhance the happiness of employees and the attractiveness and cohesion of the Trade Union.

开展文娱活动,增强员工身心素质

案例
Case

Carrying out recreational activities to enhance physical and mental health of employees

中铁十八局工会通过开展职工健步走、职工文艺汇演、趣味运动会、职工体育竞赛等各类文体活动,促进员工身心健康,纾解员工压力,提升员工身体素质,增强集体凝聚力、向心力,激励大家以更加饱满的热情投入公司各项发展中,有力促进公司各项年度目标任务圆满完成。

Through activities such as "brisk walking", "staff performance", "fun sports" and "sports competition", the Trade Union of China Railway 18th Bureau Group Co., Ltd. relieves the pressure of employees, strengthens their physique, and enhances collective cohesion. Therefore, employees could contribute to the development of the company and the accomplishment of corporate annual goals with more enthusiasm.



中铁十八局员工文体活动
China Railway 18th Bureau Group Co., Ltd. carries out recreational activities



中铁十八局三八妇女节活动
China Railway 18th Bureau Group Co., Ltd. carries out Women's Day activities

案例
Case

为返乡农民工提供便民服务

Facilitating migrant workers' journey home

春节期间，中国铁建投资集团简蒲高速公路“铁姑娘团队”联合眉山团市委开展“暖冬行动”便民服务，聚焦返乡农民工等重点群体，提供政策答疑、路线咨询以及免费开水、药品供应等便民服务，为返乡农民工提供便民服务。

During the Spring Festival, the "Iron Girl Team" of Jianpu Expressway Company under China Railway Construction Investment Group, together with Meishan Municipal Committee of the Youth League, carried out "Warm Winter Action" to serve returning migrant workers by answering their inquiry about government policy and road, as well as offering necessities such as water and medicine.



中国铁建投资集团简蒲高速公路开展为返乡农民工提供便民志愿服务
The Jianpu Expressway Company under China Railway Construction Investment Group serves returning migrant workers

案例
Case

开展农民工职业病健康体检

Carrying out occupational disease physical examination for migrant workers

11月22日，中铁十七局无锡太湖新城污水处理厂项目开展“情系一线工友，健康体检进工地”农民工职业病健康体检活动，针对现场施工环境及各类工种易引发的常见病、多发病情况，为一线200余名职工进行了10余项体检项目，做到有病治病、无病预防，切实把关爱农民工的工作做到实处。



中铁十七局开展农民工职业病健康体检活动
China Railway 17th Bureau Group Co., Ltd. organizes occupational disease physical examination for migrant workers

On November 22, 2022, China Railway 17th Bureau Group Co., Ltd. organized occupational disease physical examination for migrant workers at sewage treatment plant of Wuxi Taihu New City. It examined common and frequently-occurring diseases seen in ordinary construction workers, covering 10 medical check-up items for more than 200 front-line workers, so that the diseases were prevented and treated.

中国铁建党委深入学习宣传贯彻党的二十大精神，把社会责任扛在肩上，全力参与乡村振兴、冬奥服务、抗疫救灾等急难险重任务，彰显大国央企风范。

CRCC Party Committee studies and implements the guiding principles of the 20th CPC National Congress fully. We undertake social responsibility as we participate in urgent and difficult tasks such as rural vitalization, Beijing 2022 Winter Olympics, COVID-19 response and disaster relief, etc., demonstrating central SOE demeanor.



昆仑集团向小学捐赠电脑并帮助建设“昆仑·爱心电脑室”
China Railway Kunlun Investment Group, Co., Ltd. donates computers to primary schools and helps build computer rooms



中铁城建“爱心细流”乡村助学活动
China Railway Urban Construction Group Co., Ltd. carries out rural education assistance event

关爱农民工

Caring about migrant workers

公司严格落实国务院《保障农民工工资支付条例》要求，确保农民工工资零拖欠。把关心关爱农民工生活作为出发点和落脚点，关爱农民工和农民工子女，积极开展多种形式的“送温暖”活动，加强对困难农民工的兜底保障，让农民工感受到温暖。

CRCC implements the *Regulation on Guaranteeing Wages for Migrant Workers* thoroughly to prevent delinquency. Aiming for caring for migrant workers, we show concern for not only themselves but their children. We have increased provision of subsidies for migrant worker in difficulty, and carried out various care activities to make them feel the warmth.



中铁十一局保定燕云城项目“工友服务中心”工作人员为工人核对实名录入信息
Staff of the Worker Service Center at the Baoding Yanyuncheng Project of China Railway 11th Bureau Group Co., Ltd. check the real-name registration information for the workers



抢险救灾

Supporting disaster relief

中国铁建面对突发事件和自然灾害，坚持冲锋救灾一线，用实际行动保障人民生命财产安全。2022年，公司共参与工程抢险救援和防汛抗洪1900次，出动工程抢险力量4.4万多人次，机械设备4520台套，有力支援各地抢险救灾。

Encountered with emergencies and natural disasters, CRCC shows up in the front line of disaster relief and takes practical actions to protect people's personal and property safety. In 2022, we participated in 1,900 emergencies and flood control events and sent more than 44,000 rescue personnel and 4,520 sets of equipment to support disaster relief in different places.

支援四川泸定抗震救灾工作

Assisting earthquake relief in Luding, Sichuan

案例
Case

9月8日，四川甘孜藏族自治州泸定县6.8级地震发生后，中国铁建所属驻川单位紧急响应、迅速行动，第一时间组织救援力量奔赴震区，积极协助地方开展抗震救灾工作。为全力支持灾区救助和灾后重建工作，中国铁建向四川泸定地震灾区捐款2000万元，帮助受灾群众共渡难关。

After the 6.8 magnitude earthquake in Luding County, Ganzi Tibetan Autonomous Prefecture, Sichuan on September 8, CRCC's subsidiary in Sichuan responded urgently, organizing rescue teams to go to the quake zone as soon as possible and assisting the local community to carry out earthquake relief. CRCC donated RMB 20 million into disaster relief and post-disaster reconstruction to help the affected people to tide over the difficulties.



搭建应急避难帐篷
Setting up emergency tents



抗震救灾康定服务站
Kangding service station for earthquake relief

逆行驰援重庆灭山火

Supporting fire rescue in Chongqing's mountain area

案例
Case

8月21日，重庆北碚、璧山、巴南、江津等区先后发生多起山林火灾，严重威胁周边群众生命财产安全。中铁十四局西部（重庆）科学城项目部立即组织调配人员、设备，积极响应当地政府号召迅速组织力量，全力支持配合重庆山火扑救工作。该行动共出动200余人次，投入40余台大型设备，完成多处隔离带开挖及便道修建任务，有效阻隔山火进一步的蔓延。

On August 21, 2022, mountain fires flared in Beibei, Bishan, Banan and Jiangjin districts of Chongqing, seriously threatening the lives and properties of the surrounding people. The project department of West (Chongqing) High Tech Zone of China Railway 14th Bureau Group Co., Ltd. immediately deployed personnel and equipment, responding to the local government and supporting the rescue. More than 200 people were deployed and more than 40 sets of large equipment were invested to complete the excavation of isolation zones and construction of access roads, which effectively blocked the spread of the fire.



挖掘开辟防火隔离带
Excavating fire barrier zone



开辟10公里长的生命通道
Digging up a 10-km long road to rescue

志愿服务

Providing volunteer services

中国铁建持续深入开展学雷锋志愿服务活动，大力弘扬奉献、友爱、互助、进步的志愿服务精神，强化“志汇铁建”青年志愿服务活动，各级团组织、广大团员青年在高考志愿、乡村振兴等一线成立青年志愿服务队共1587支、参与人数24175人，有效展示了铁建青年精神风貌和责任担当，在各地各领域努力贡献“铁建力量”。

Upholding volunteerism of dedication, love, mutual assistance and progress, CRCC carries out "Learning from Lei Feng Role Model" volunteer activities. We have promoted the "Volunteer CRCC" youth volunteer activities as we organize youth volunteer organizations at different levels. We set up 1,587 youth volunteer teams with 24,175 participants, who involved in rural vitalization and volunteer activities of high school entrance examination. Youth volunteers have effectively demonstrated their positive energy and their responsibilities as CRCC employees.



“沪藏绿色小镇”中铁二十四局高原志愿服务队开展困难帮扶工作
A volunteer service team provides assistance to residents in need in the "Shanghai-Tibet Green Town"

中铁二十二局青年志愿服务队

Youth volunteer team of China Railway 22nd Bureau Group Co., Ltd.

案例
Case

中铁二十二局青年志愿服务队积极投身于北京冬奥会和冬残奥会的志愿服务工作中，在赛会前，志愿者们开展冰雪知识宣传推广、冰雪体验、冬奥城市环境整治、冬奥配套工程项目活动，赛会期间开展新春送“福”字、手工DIY冬奥吉祥物、赛事宣传、交通指引等服务，用热情周到的志愿服务陪伴冬奥。中铁二十二局青年志愿服务队荣获“首都最佳志愿服务组织”，受到北京冬奥会和冬残奥会指挥部表彰和感谢。

The youth volunteer team of China Railway 22nd Bureau Group Co., Ltd. proactively participated in the volunteer services for the Beijing 2022 Winter Olympics and Paralympics. Before the opening of the Games, the volunteers spread knowledge about ice and snow sports, improved city environment, assisted with Olympic engineering projects. During the Games, they presented gifts such as cards written with Chinese character "Fu" (which means blessing in Chinese) and handmade Winter Olympic mascots, disseminated information about the Games, and offered traffic guidance. With their enthusiasm and dedication, the Youth Volunteer Team of China Railway 22nd Bureau Group Co., Ltd. received appreciation of the Beijing 2022 Winter Olympics and Paralympics Command and was awarded the title of Best Volunteer Service Organization in Capital Beijing.



中铁二十二局青年志愿服务队积极投身于北京冬奥会和冬残奥会的志愿服务工作

The youth volunteer team of China Railway 22nd Bureau Group Co., Ltd. proactively participates in the volunteer services for the Beijing 2022 Winter Olympics and Paralympics

创建“户外劳动者综合服务站”

Building the Integrated Service Station for Outdoor Workers

案例
Case

中铁十七局工会紧密结合建筑施工企业特点和项目建设实际情况，利用集装箱创建“户外劳动者综合服务站”，面向周边工地农民工、交通警察、快递员、环卫工人等人群提供便捷服务。该服务站内配置饮水机、空调、电视机、微波炉、医药箱、无线WIFI、手机充电器等必备服务设施，为户外劳动者搭建起“温馨港湾”。2022年，该“服务站”荣获“最美工会户外劳动者服务站点”“城区户外劳动者综合服务站省级示范点”等荣誉。

Considering the reality of construction corporate and project construction, the Trade Union of China Railway 17th Bureau Group Co., Ltd. has built the Integrated Service Station for Outdoor Workers with containers. This is to provide convenient services for traffic police, couriers, sanitation workers, and migrant workers in surrounding construction site, etc. The service station is equipped with drinking fountains, air conditioners, TV sets, microwave ovens, medical kits, WIFI, cell phone chargers and other essential service facilities, creating a "warm harbor" for outdoor workers. In 2022, it won the title of Best Service Station by Trade Union for Outdoor Workers Award, Provincial-level Demonstration Site of Integrative Service Station for Urban Outdoor Workers and other honors.



工地工人在“户外劳动者综合服务站”享受到便捷服务

The migrant workers get the needed services in the Integrated Service Station for Outdoor Workers

The year 2023 witnesses the opening year for comprehensively implementing the guiding principles of the 20th CPC National Congress. As a good beginning is half the battle, CRCC will unite all employees, pool all strengths and gather all wisdoms to embark on a new journey toward high-quality development.

We will improve governance structure and optimize the industrial structure, market layout and competitive structure consistently to enhance the quality of economic operation. We will increase the quality and efficiency at all levels of decision-making, management, execution and operation. We will pursue high quality in terms of Party spirit, work standards, work style, competence, workflow, teamwork, internal and external synergy, etc.

Aiming for high-quality development, we will keep on improving corporate development to build a world-class company at a faster pace, creating high-quality projects and laying a solid foundation for CRCC's stable growth. Responding to national development strategies, we will advance efforts to pursue high-quality BRI cooperation and facilitate harmonious regional development. We will also strengthen our cooperation with stakeholders to secure mutual benefit and win-win results.

As for employees, we will pay more attention to their physical and mental health, effectively protect their rights and interests, and improve our remuneration system. Our goal is to boost their enthusiasm and creativeness, and encourage them to take the initiative in the workplace.

We will continue to strengthen the ecological environment management, explore and practice ways of harmonious coexistence of ecological protection and industrial development. To enhance people's well-being, we will take more responsibility to engage in charity and bring the care and warmth of CRCC staff to social community.

2023是全面贯彻落实党的二十大精神开局之年，开局关乎全局，起步决定后程。中国铁建将上下齐众心、汇众力、聚众智，共谱新篇，为高品质发展的宏伟蓝图添好工笔画。

我们将持续完善治理结构，优化产业结构、市场布局和竞争力结构，提升经济运行质量；在各级各类决策、管理、执行、运行等层面提质增效；在党性党风和工作标准、作风、能力、流程及团队协作、内外协同等方面锤炼出高品质。

我们将继续以高质量发展为主题，企业发展质量持续变优，建设世界一流企业步伐继续加快，打造优质工程，为中国铁建“稳增长”奠定坚实基础；与相关国家发展战略对接，加强推动共建“一带一路”向高质量发展转变，促进区域和谐发展；加强与利益相关方合作，促进多方互利共赢。

我们将加强对员工身心健康关爱，切实保障员工权益，完善薪酬体系，凝聚起全体职工干事创业、担当履职的积极性、主动性和创造性。

我们将持续加强生态环境治理，积极探索和实践生态保护和产业发展和谐相融模式；提升责任担当力，参与公益事业，增强民生福祉，为社会各界带去铁建人的关爱与温暖。

展望2023

OUTLOOK 2023

关键绩效表

KEY PERFORMANCE INDICATORS

经济绩效 Economic Performance				
指标 Indicator	单位 Unit	2020	2021	2022
新签合同额 New contract value	亿元 RMB 100m	25542.887	28196.516	32450.011
营业收入 Operating revenue	亿元 RMB 100m	9103.248	10200.102	10963.129
净利润 Net profit	亿元 RMB 100m	257.087	293.152	317.528
缴纳税费 Taxes and fees paid	亿元 RMB 100m	262.148	267.115	301.694
资产总额 Total assets	亿元 RMB 100m	12427.928	13529.700	15239.511
资产负债率 Asset/liability ratio	%	74.76	74.39	74.67

社会绩效 Society Performance				
指标 Indicator	单位 Unit	2020	2021	2022
员工总数 Number of employees	人 Person	286242	267760	269577
劳动合同签订率 Coverage of labor contract	%	100	100	100
社会保险覆盖率 Coverage of social insurance	%	100	100	100
女性员工比例 Proportion of female employees	%	19.79	21.76	21.73
女性管理者比例 Proportion of female managers	%	19.35	21.06	20.08
管理人才数量 Number of management personnels	人 Person	60026	65060	60608
专业技术人才数量 Number of professional and technical personnels	人 Person	152199	137774	142868
技能人才数量 Number of skilled personnels	人 Person	74017	64926	66101
研究生及以上学历人数 Number of employees with master's degree or above	人 Person	13152	14418	15373
本科学历人数 Number of employees with bachelor's degree	人 Person	162649	164756	175227

社会绩效 Society Performance				
指标 Indicator	单位 Unit	2020	2021	2022
大专及以上学历人数 Number of employees with junior college degree or below	人 Person	110441	88586	78977
员工培训总投入 Total investment in employee training	万元 RMB 10,000	81333	93940	96034
员工培训人次 Number of employees participating in training programs	人次 Person-time	1059931	1124889	1182195
企业领导人员培训人次 Number of senior executives participating in training programs	人次 Person-time	25595	24796	25894
经营管理人员培训人次 Number of operation and management personnels participating in training programs	人次 Person-time	188578	195348	206891
专业技术人员培训人次 Number of professional and technical personnels participating in training programs	人次 Person-time	655719	705954	735898
党群管理人员培训人次 Number of Party work personnels participating in training programs	人次 Person-time	33015	36822	39845
技能人员培训人次 Number of skilled personnels participating in training programs	人次 Person-time	157024	161969	173667
安全生产投入 Investment in work safety	亿元 RMB 100m	143.567	158.727	174.714
安全培训人次 Number of employees participating in safety training programmes	人次 Person-time	26790	27980	29260
筹集温暖资金 Amount of funds raised for the needy	万元 RMB 10,000	8545	7196	7916
科技投入 Investment in science and technology	亿元 RMB 100m	186.060	202.540	250.039
新增专利数 Newly authorized patents	个 No	5099	6638	7931
项目一次交验合格率 Qualification rate of Projects under first acceptance check	%	100	100	100
投诉解决率 Complaint handling rate	%	100	100	100
经济合同履约率 Performance rate of economic contracts	%	100	100	100
供应商通过质量、环境和职业健康安全管理体系认证的比率 Proportion of suppliers received QEOHS system certificate	%	100	100	100
捐赠总额 Total donations	万元 RMB 10,000	11796.18	6583.54	6837.02
员工志愿者参与人数 Number of employees participating in volunteer activities	人次 Person-time	39000	37000	24175
开展公益活动次数 Number of public welfare activities conducted by the Company	次 Time	2095	1987	4118
乡村振兴投入帮扶资金 Funds invested directly in rural vitalization	万元 RMB 10,000	8303	4590.24	3657.02
帮扶物资折款 Equivalent value of goods and materials	万元 RMB 10,000	219.6	219.2	10.6
选派帮扶挂职干部数量 Numbers of personnels sent to assume temporary posts	人 Person	42	42	50

环境绩效 Environmental Performance

指标 Indicator	单位 Unit	2020	2021	2022
全年能源消耗总量 Total annual energy consumption	万吨标煤 10,000 tons of standard coal	594.13	589.24	674.10
煤炭消耗量 Coal consumption	万吨 10,000 tons	19.54	31.25	31.98
耗电量 Power consumption	万千瓦时 10,000 kWh	1914927.23	1915838	2063281
汽油消耗量 Gasoline consumption	万吨 10,000 tons	19.85	21.83	22.75
柴油消耗量 Diesel consumption	万吨 10,000 tons	180.59	175.84	187.59
燃料油消耗量 Fuel oil consumption	万吨 10,000 tons	3.24	3.16	3.28
天然气耗气量 Natural gas consumption	万标准立方米 10,000 standard cubic meters	624.25	737.43	788.31
水资源总消耗量 Total water consumption	万立方米 10,000 cubic meters	27934.26	29765.37	31819.18
环保总投入 Total investment in environmental protection	万元 RMB 10,000	153219	217352	240000
碳强度 Carbon intensity	吨/万元 Tons/RMB 10,000	0.0982	0.01001	0.1483
固体废物排放量 Volume of solid waste discharge	万吨 10,000 tons	3276.37	4187.42	4476.35

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意见反馈

FEEDBACK FORM

尊敬的读者：

您好！非常感谢您百忙之中阅读《中国铁建2022年社会责任报告》。为了不断改进报告编制工作，我们特别希望倾听您的意见和建议。请您协助完成反馈意见表中提出的相关问题，并选择以下方式反馈给我们。

邮 寄：北京市海淀区复兴路40号中国铁建股份有限公司

您的信息

姓 名：_____ 工作单位：_____

职 务：_____ 联系电话：_____

传 真：_____ E-mail: _____

选择题（请在相应位置打√）

选 项	很 好	较 好	一 般	较 差	很 差
1.本报告全面、准确地披露了中国铁建对经济、社会、环境的制度、措施、绩效？					
2.本报告对利益相关方所关心问题有所回应和披露？					
3.本报告披露的信息、指标、数据清晰、准确、完整？					
4.本报告的可读性，即报告的逻辑主线、内容设计、语言文字和版式设计？					

开放性问题

1. 本报告最让您满意的方面是什么？

2. 您认为报告中还需要增加哪些内容？

3. 您对我们今后发布社会责任报告有何建议？

Dear readers:

Thank you for taking the time to read the 2022 Social Responsibility Report of China Railway Construction Corporation Limited. For the purpose of continuously improving the preparation of social responsibility report, we are looking forward to listening to your opinions and suggestions. Please assist us to complete the relevant questions in the feedback form. You may choose the following options to contact us.

Mailing address: China Railway Construction Corporation Limited, No. 40, Fuxing Road, Haidian District, Beijing, China

Your Information

Name: _____ Company/Organization: _____

Title: _____ Tel: _____

Fax: _____ E-mail: _____

Multiple Choice Questions (Please mark "√" in the appropriate position)

Option	Very good	Good	Fair	Poor	Very poor
1. Does this report fully and accurately disclose the systems, measures and performance of CRCC in the fields of economy, society, and environment?					
2. Does this report respond to the issues and disclose the information concerned by stakeholders?					
3. Does this report disclose clear, accurate and complete information, indicators, and data?					
4. What is your opinion on the readability of this report, i.e., the logic, content design, wording, and layout?					

Open-Ended Questions:

1. What do you think is the most satisfying part in this report?

2. What kinds of information would you like to learn more about?

3. What are your suggestions for our future social responsibility reports?