



# CHINA MACHINERY ENGINEERING CORPORATION

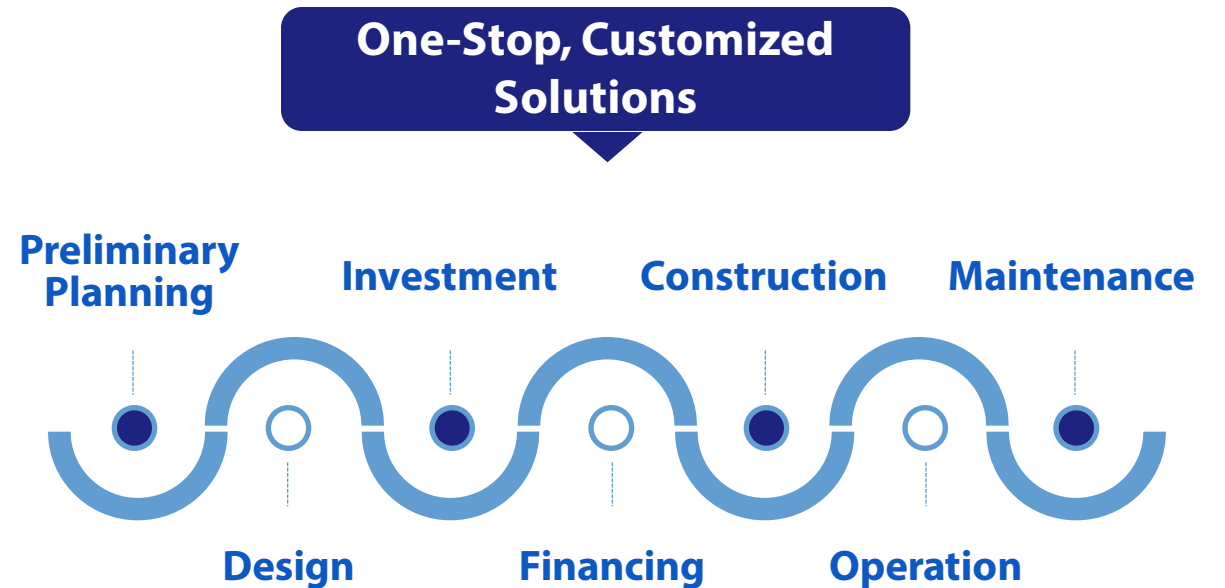
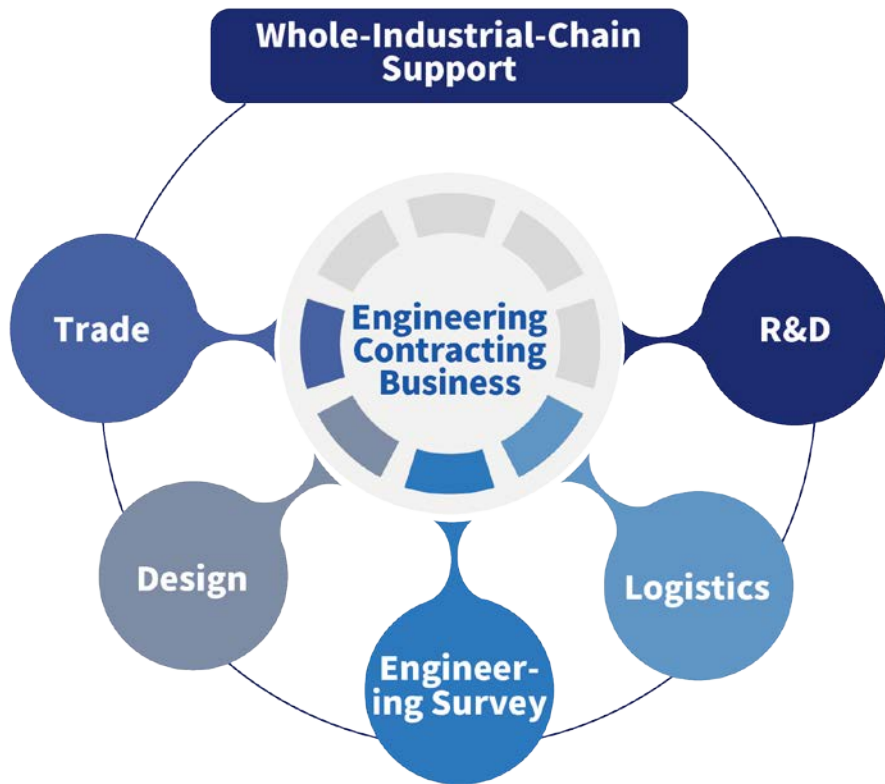
2022 Edition

# 01

## Company Profile



Founded in 1978, China Machinery Engineering Corporation (CMEC) represents China's first industrial and trading company. Over the past four decades, CMEC has evolved into a large international conglomerate and a famous comprehensive service provider of international engineering contracting.



CMEC is a core subsidiary of China National Machinery Industry Corporation (SINOMACH), which was the First Ministry of Machinery Industry of China started in 1952 and which has grown into a state-owned backbone enterprise directly administrated by the central government.

## SINOMACH ranks:

**284<sup>st</sup>** among Fortune  
Global 500

**35<sup>th</sup>** among Top 250 International  
Contractors

**69<sup>th</sup>** among Top 225 Inter-  
national Design Firms



by 2021

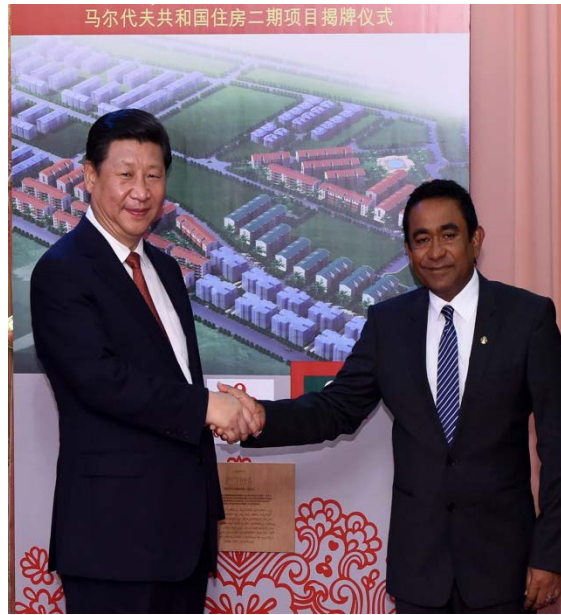
CMEC is also the headquarter company of China Machinery Engineering Group Corporation (CMEC Group) , which is a strong alliance of six leading domestic and overseas engineering contracting and design consulting companies under SINOMACH.



Chinese President Xi Jinping has attended and witnessed the signing and launch of CMEC's overseas projects on many occasions since 2014.



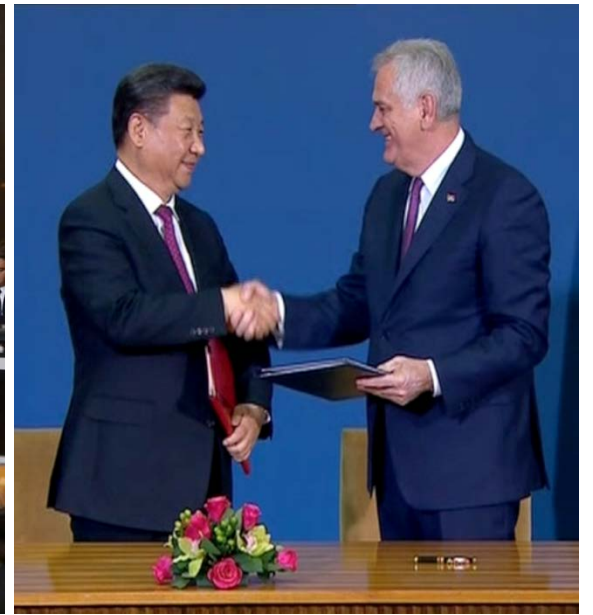
President Xi attended the launching ceremony of the Puttalam Coal-fired Power Plant.



President Xi attended the inaugurating ceremony of the Housing Units in Maldives.



President Xi attended the launching ceremony of the Belgrano Cargo Railway Rehabilitation Project.



President Xi witnessed the signing of the memorandum on the Project for the Treatment and Disposal of Urban Waste Water from the Central Area in Belgrade in Serbia.

Many state leaders witnessed the signing of CMEC's overseas projects and granted CMEC inscriptions.



Former Chinese President Jiang Zemin attended the signing ceremony of the CMEC-contracted power transmission and transformation project in Pakistan.



Former Chinese President Hu Jintao attended the signing ceremony of the CMEC-contracted power plant project in the Republic of Congo.

再接再勵努力開  
創電產品出口  
新局面  
江澤民  
一九九三年  
八月四日

深化改革，勇于探索  
為開發机电產品國際市場  
而努力奮鬥。  
李鵬  
一九九四年十月



# 02

## Business Scope



With engineering contracting business at its core, CMEC has diversified its business mix that is oriented to “the Belt and Road” market and to the coordinated development domestically and globally.

### Engineering Contracting

As the core business of CMEC, engineering contracting accounts for over 70% of its annual revenue. For years, CMEC has made top 10 in the list of “Top 100 Chinese Engineering Companies in Terms of Overseas Contracting Revenue” revealed by the Ministry of Commerce of China. Since 2020, it has expanded its engineering contracting business in China, with a host of projects set to be launched.

### Trade & Services

By leveraging domestic and global resources, CMEC stays committed to such operations as high-tech manufacturing, global trade, coordination of system integration, new energy, and bonded industrial park, as well as bidding services. Aside from offering an array of globally-leading castings and forgings, it has carved out innovative models for international trade and supply chains, including the Silk Road International Cooperation Park in Yinchuan, the “Internet Plus” projects, and overseas warehouses.

### Investment & Asset Operation

CMEC has enhanced efforts to promote the upgrading and implementation of models such as the integration of “investment, financing, construction, and operation”, and forged new drivers for its sustainable growth through the investment in and operation of some quality business.

### Design & Consultation

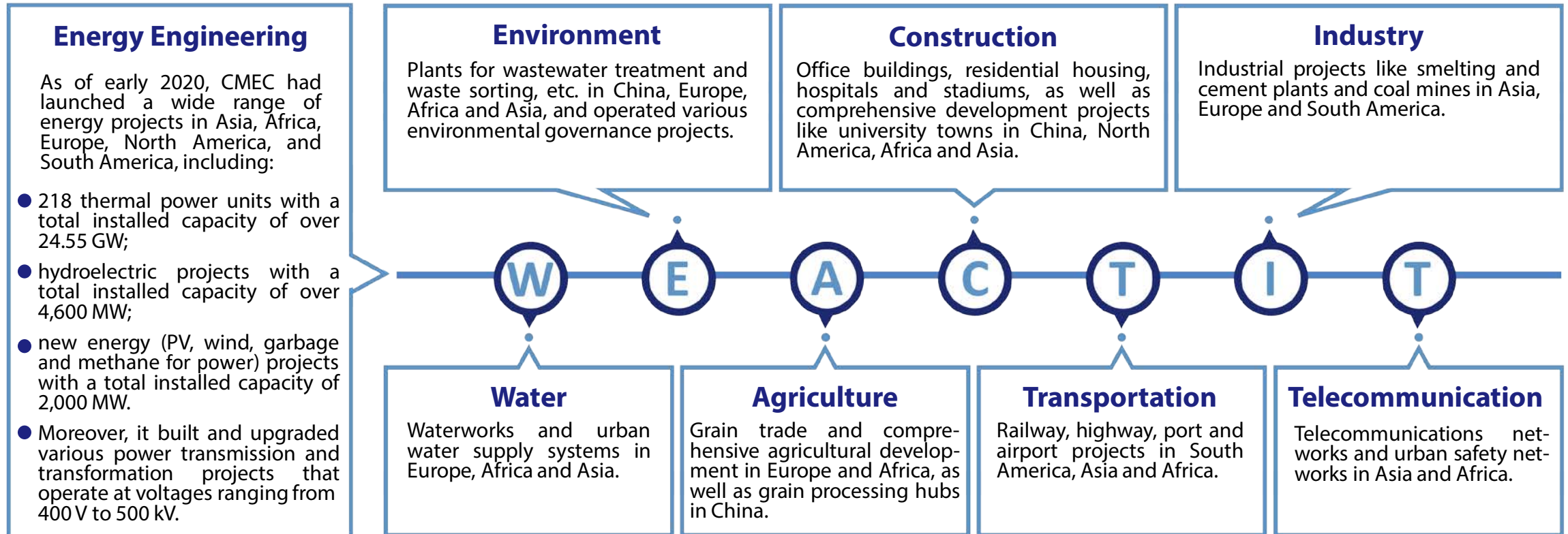
CMEC’s business spreads across both international and domestic markets. It has Grade A qualifications of engineering designin fields such as urban and rural planning, electric power, machinery, construction, municipal engineering, metallurgy, textile, landscape architecture and environmental engineering, as well as a variety of Grade A (Grade 1) qualifications in engineering consulting, engineering survey and mapping, geological hazard control, geotechnical engineering design and construction, and engineering contracting.



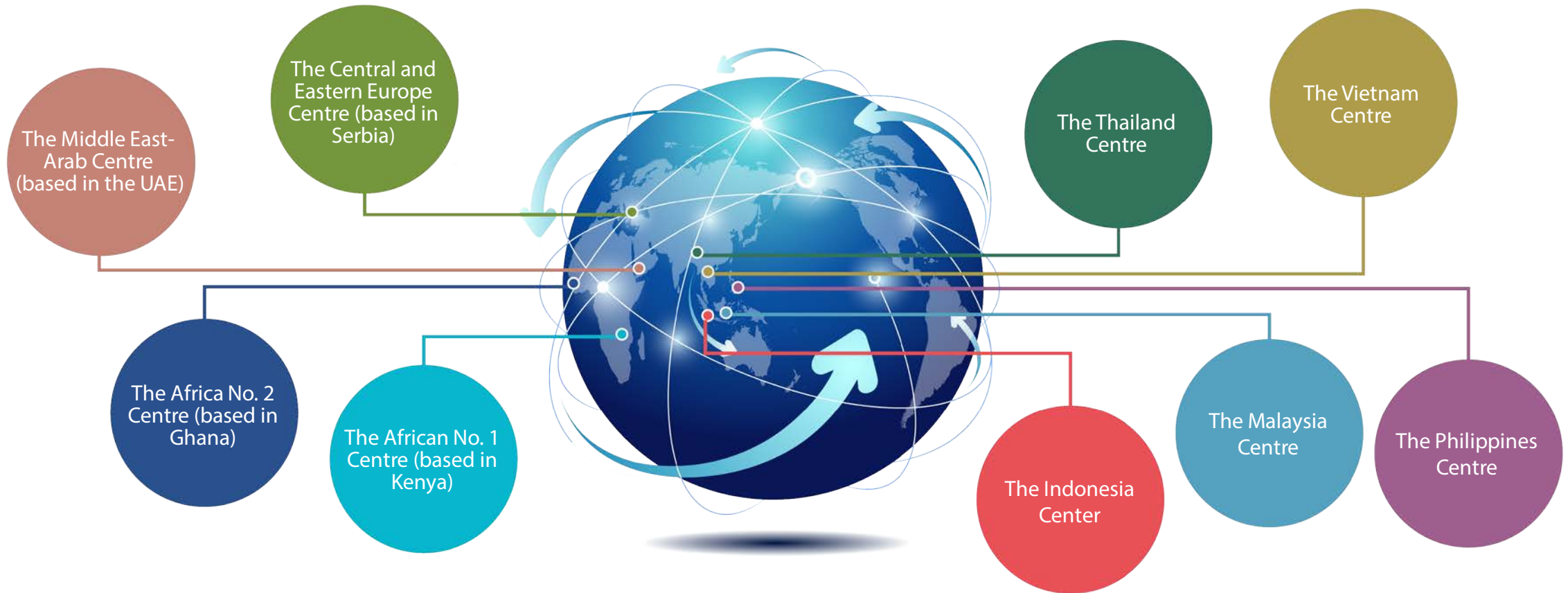
**X**

Over recent years, CMEC has maintained engineering contracting as its core business, while making a foray into engineering logistics and comprehensive agricultural development to ensure its high-quality growth.

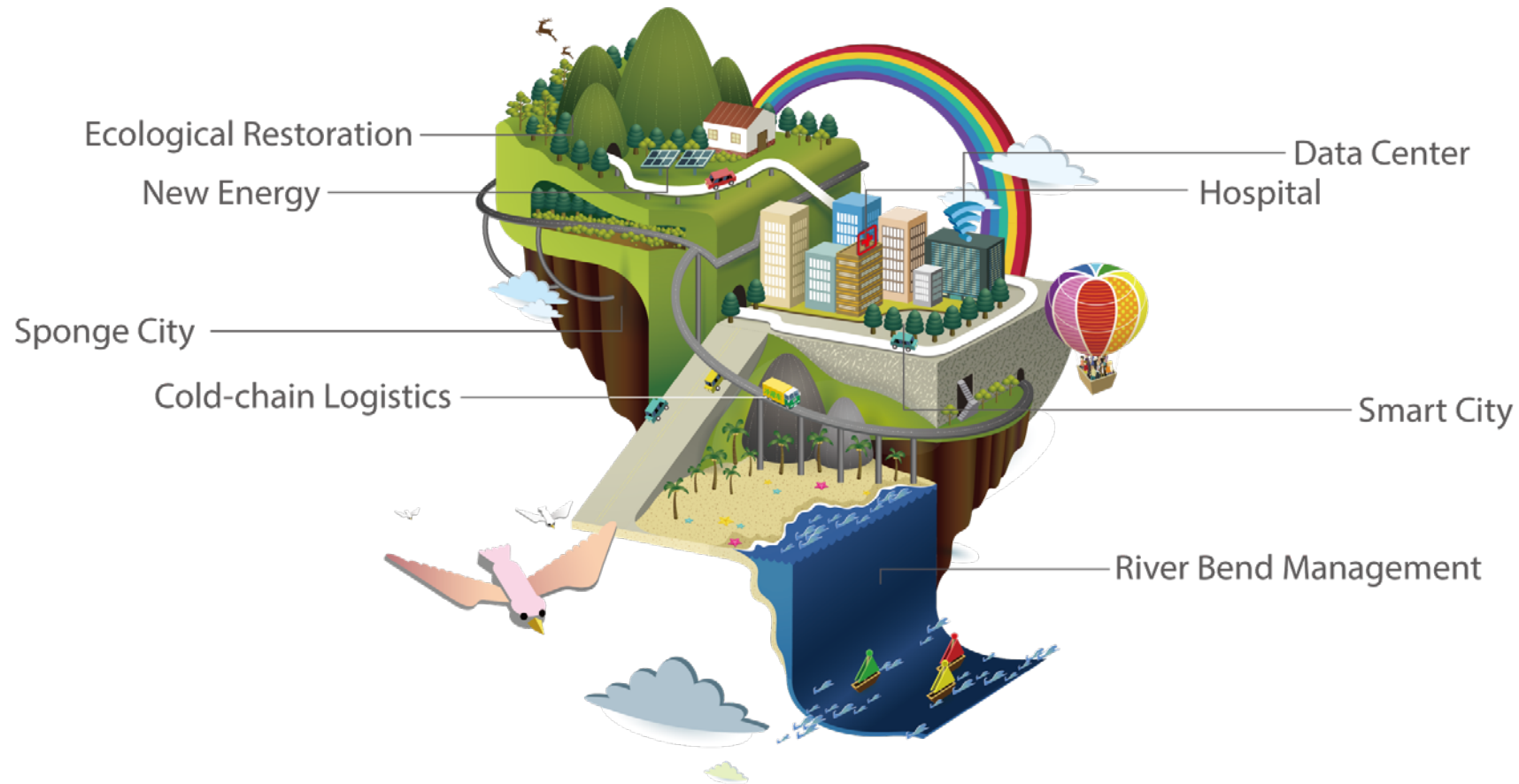
While stabilizing overseas markets and tapping the domestic market, CMEC has always honored the principle of “leveraging its strengths to meet market needs for pursuit win-win cooperation.” It has been engaged in eight global industries of importance to the people’s livelihood, with an emphasis on energy engineering.



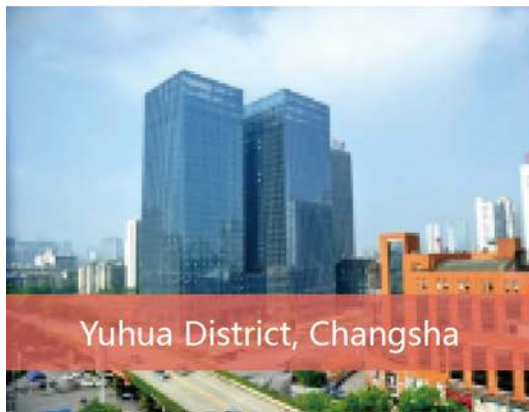
As of early 2021, CMEC had delivered its products and services to more than 160 countries and regions globally, with completed engineering projects in nearly 60 countries and regions as well as 9 overseas regional centers. To integrate into global industrial and supply chains and contribute to the “dual circulation” development paradigm, it continues to step up with business localization and regionalization.



In the domestic market, CMEC has actively been following the national strategies for regional development, such as large-scale development in the western region, the Yangtze Economic Belt, the Guangdong-Hong Kong-Macao Greater Bay Area, Hainan Free Trade Zone, and the synergetic development of the Beijing-Tianjin-Hebei region, by participating in construction of hospitals, data centers, cold-chain logistics, new energy, and urban upgrading and refurbishment.



CMEC has built six namesake squares across China, five of which have developed into major and high-tech industrial parks locally, while the sixth one is to be finished in Xi'an.



# 03

## Distinct Competence



## Resource integration ability

With years of earnest development and practical cooperation across the globe, CMEC has forged close partnerships with Chinese and foreign governments, industry leaders, and financial institutions.

### Global Industry Giants

 energy   chemicals   resources	
	
 A MUBADALA COMPANY	
	
	






### Chinese Industry Leaders

 Building Your Trust in Solar	
	
	
 天合光能	
	 中国平煤神马集团

### Chinese Financial Institutions

 中国建设银行 China Construction Bank	 中国工商银行 ICBC	 中国进出口银行 THE EXPORT-IMPORT BANK OF CHINA
 中国信保	 国家开发银行 CHINA DEVELOPMENT BANK	 中国银行 BANK OF CHINA

### International Financial Institutions

	 THE WORLD BANK	
 ASIAN INFRASTRUCTURE INVESTMENT BANK		 European Investment Bank

## Technical Competence

Five top-notch design and research institutes affiliated with CMEC are designed to meet all specialized and technical needs in the construction of various projects.

**China Machinery International Engineering Design and Research Institute Co., Ltd.** With Grade-A design qualifications of 32 professional categories in 8 major industries, it is at the forefront of such industries as photovoltaic power generation, prefabricated buildings, sponge cities, BIM (Building Information Modeling) application, and construction of smart factories. It has Grade 1 qualification of general contracting of municipal public facilities and Grade A qualification of urban-rural planning formulation.

**China Jikan Research Institute of Engineering Investigations and Design, Co., Ltd.** With 11 Grade A (Grade 1) qualifications, it leads industries such as geotechnical engineering survey, satellite-terrestrial surveying and mapping, urban-rural planning formulation, and ecological environment restoration. It is a pilot enterprise of Shaanxi Province for whole-process engineering consultation and general contracting of housing construction and municipal infrastructure projects.

**China Power Construction Engineering Consulting Central Southern Co., Ltd.** has the ability to undertake whole-process engineering consultation and make technical breakthrough in fields such as planning consultation, project preparation, bidding agency and Post-production consultation in thermal power, new energy, ecological environment engineering and municipal public engineering.



**China Electric Design and Research Institute Co., Ltd.** has Grade A qualifications in fields such as machinery, commercial food, construction and municipal engineering, as well as foreign aid technical and economic consultation, design and procurement for central government. It is well-positioned in general contracting and technical services in cold chain logistics, big data center and blockchain, smart city, new energy and solid waste treatment.

**Harbin Power System Engineering and Research Institute Co., Ltd of CNEEC** enjoys core capabilities such as power station big data, power station engineering equipment supervision, engineering design of hydro-power stations and thermal power stations, clean combustion environmental protection technology and equipment research and development, EPC project management and technical services.

# Multi-field Development and Construction Competence

CMEC and its subsidiaries have been granted more than 110 certificates by national ministries and commissions, as well as provincial institutions.

## Certification

Plant Supervision Consulting	Food
Engineering Supervision	Environment
Engineering Design	Chemicals
Engineering Consulting	Medical Machinery
Engineering Exploration	Special Equipment
Engineering Survey and Mapping	Foreign Trade
Engineering Detection	Inspection & Quarantine
Detection and Testing	Customs Clearance
Geological Hazard Control	Freight Forwarding
Architecture	Information Platform



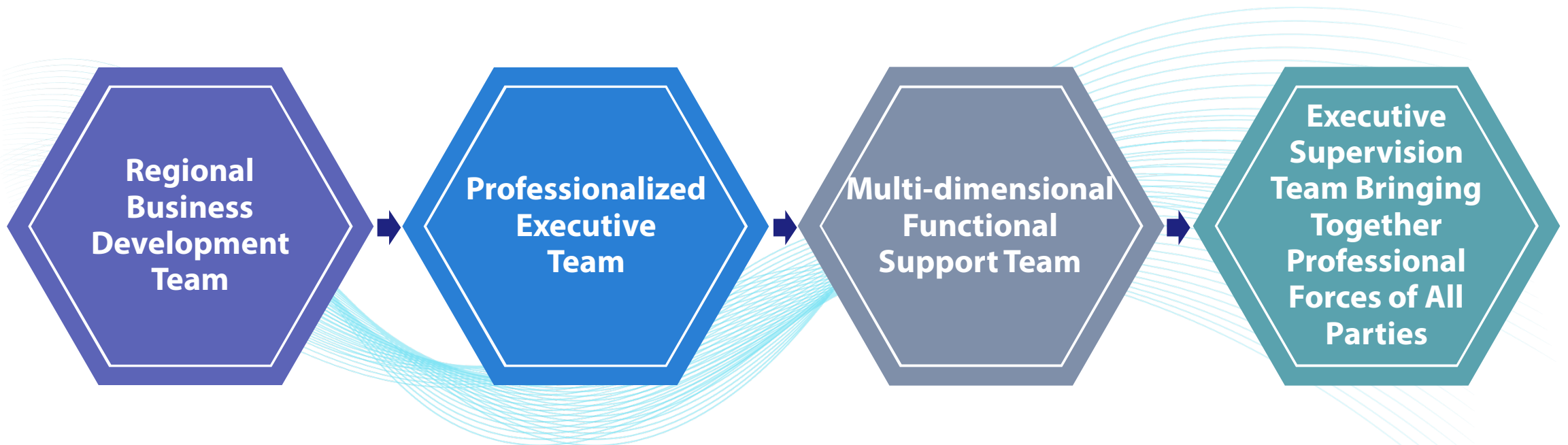
## Some Grade A (1) Certificates

National Construction Engineering Enterprises Qualification (Grade 1)
Construction Engineering Enterprise (Grade 1)
Engineering Design (Grade A)
Urban-Rural Planning Formulation (Grade A)
Engineering Consulting (Grade A)
Project Budgeting (Grade A)
Engineering Exploration (Grade A)
Engineering Survey and Mapping (Grade A)
Geological Hazard Control Engineering Exploration, Design, Assessment and Construction (Grade A)
Plant Supervision Consulting (Grade A)
Engineering Supervision (Grade A)

## Project Management Competence

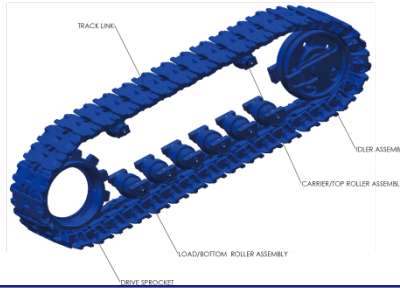
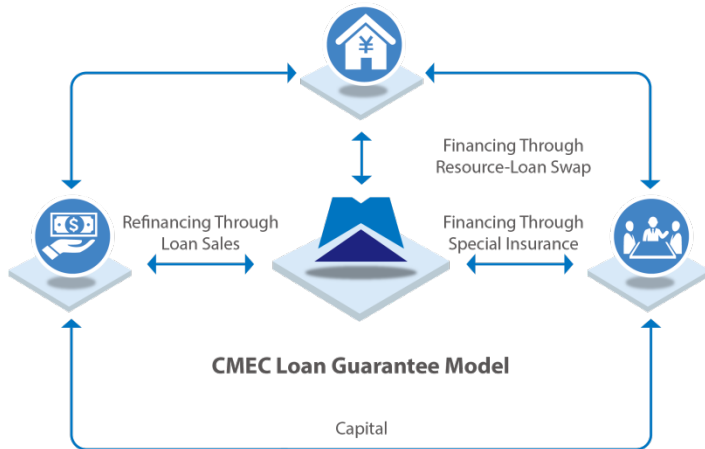
CMEC takes a comprehensive and end-to-end approach to manage its projects.

- For those highly complicated projects involved in multiple fields and requiring sophisticated technology, it develops a targeted project execution plan (PEP).
- Professional third-party consultants are introduced in different stages of construction to ensure the quality of projects.
- As the construction of a project advances, a health-safety-environment (HSE) system is set up to ensure the safety and wellbeing of construction workers.
- A mechanism featuring “one-vote veto” is carried out to standardize workplace safety management.



## Business Innovation Capability

CMEC's financing modes, including loan guarantees by its parent company, financing through resource-loan swap, financing through special insurance, and refinancing with seller's credit, are key to the approval and construction of projects.



CMEC has emerged as a core supplier for worldclass enterprises, having developed brake discs for high-speed trains and “four wheels one track” (driving wheel, guide wheel, thrust wheel, riding wheel, and caterpillar track), among other high-end castings and forgings.



Intelligent Mapping Eagle UAVs play a key role in advancing new urbanization in China.



CMEC boasts a complete package of technical solutions to the building of smart cities and data centers.

## Reliable Capability in Engineering Logistics

With 30 logistics branches and offices across the globe, CMEC is capable of transporting heavy-lift items for various engineering projects, under complicated conditions or in a connecting and combined manner.



Transportation of Cargo for the Kipeto Wind Farm Project in Kenya



Transportation of Cargo for Berezovskaya Combined Cycle Power Plant & Lukolskaya Combined Cycle Power Plant



Transportation of Cargo for the Sainshand Wind Farm Project in Mongolia

# 04

## Major Projects



Four CMEC-contracted projects won the Luban Award for Overseas Projects, the highest award for construction quality in China, respectively in 2013, 2015, and 2021.



Eren (1+1) \*600MW Supercritical Coal-fired Power Plant



Berezovskaya 427 MW Combined Cycle Power Plant



Soyo I Combined Cycle Power Plant



Nikopol 246MW Photovoltaic Power Plant Project in Ukraine

The Thar project cluster of coal mines and power stations in Pakistan represents a flagship project of the China–Pakistan Economic Corridor. It is also CMEC’s first project that integrates investment, financing, construction and operation featuring multiple novel business and financing models.



New Energy



Al Dhafra PV2 Solar Power Plant,UAE



Kipeto Wind Farm Project,Kenya



Shanxi Pengwan Qinggang Hydrogen Production  
(20,000t/yr) from COG Project



100MW/800MWh Advanced Underground CAES, Ye  
County, Ping Dingshan City, Henan Province

Hydroelectric  
Power



Neelum - Jhelum Hydro electric Project,Pakistan



Imboulou Hydropower Plant ,Congo(Brazzaville)



Zungeru Hydropower Project,Nigeria



Murum Hydropower Plant ,Malaysia

Power  
Transmission  
and  
Transformation



Transmission Line and Substations for Djibloho Hydropower Plant, Equatorial Guinea



Belarus transmission line project



Lauca 400kV Transmission Line Project, Angola



Rehabilitation and Expansion of the Luanda Electricity Network Project, Angola

Water  
Engineering



Djiri Drinking Water Treatment Plant Project,  
Congo(Brazzaville)



Smart Water Project (Phase I) of Longwang Port Basin  
in Xiangjiang New District, Hunan Province

Medical  
Buildings



Zambia Hospital and Auxiliary Projects



New Setting of Guangming District People's  
Hospital in Shenzhen

Eco-friendly  
Engineering



Flue Gas Desulphurization of Kostolac Thermal Power Plant ,Serbia



Shiyan Medical Waste Disposal Center in Hubei Province



Zhangjiagang Food Waste Resource Utilization and Harmless Treatment Project in Jiangsu Province



Pollution Interception and Treatment Project of Xingyun Lake, Yuxi City, Yunnan

Infrastructure  
Engineering



Malabo University Town, Equatorial Guinea



Development of One Thousand Housing Units in Hulhumale Island, Maldives



Multifunctional Club of Mundi, Cameroon



Limbe Stadium Project, Cameroon

Transportation  
Engineering



Belgrano Cargo Railway Rehabilitation Project in Argentina,Argentina



Nay Pyi Taw International Airport Project,Myanmar



The Upgrading to Bitumen Standard of Main Road 67 Between Omakange and Ruacana,Namibia

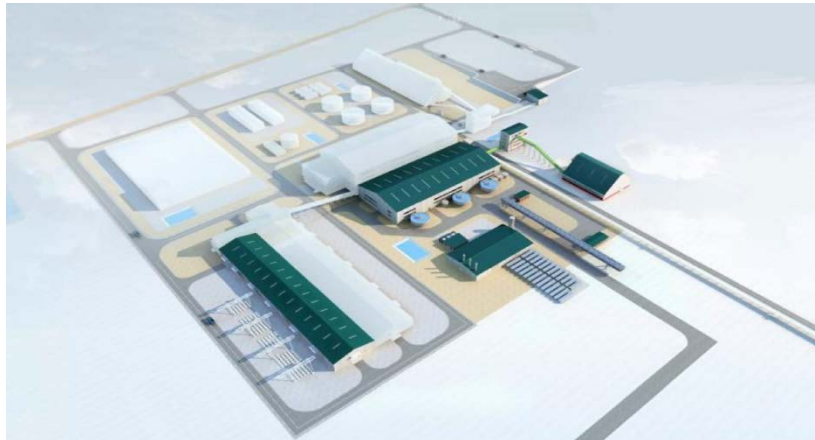
Industrial  
Engineering



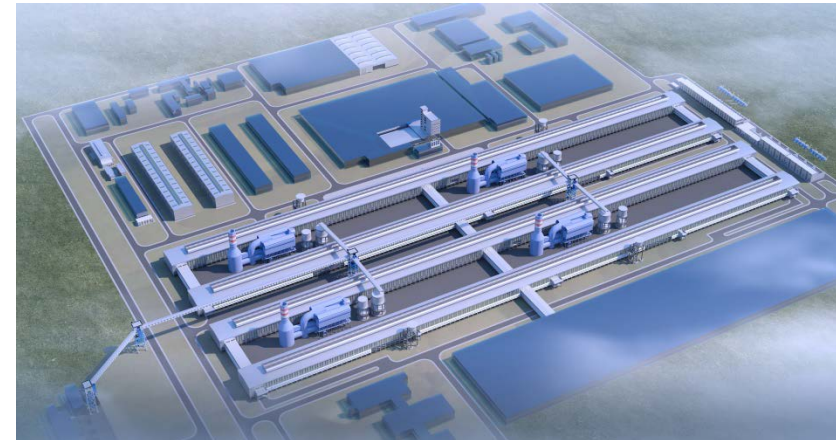
KAR Group Cement Plant in Qarachog, Iraq



ETI Mine-Bandirma Boron Carbide Production Plant Project, Turkey



Construction Project of Lithium Carbonate Plant, Bolivia



Tajik 300kt/a Electrolytic Aluminium Rehabilitation Project, Tajikistan

International  
Trade &  
Services

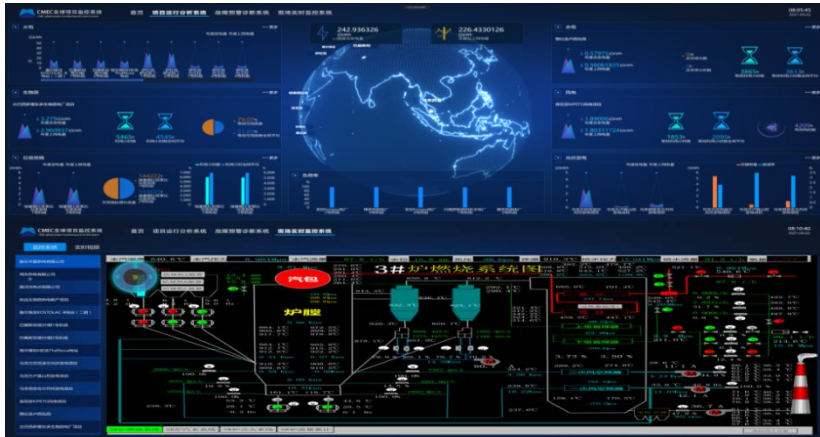


Silk Road International Cooperation Park in Yinchuan Free Trade Zone



4,250 TEU Container Vessels Exported to Germany

Intelligent  
Manufacturing



CMEC Global Project Monitoring System



Intelligent Production Line Project for Explosion-Proof High Pressure Formed Coils in Nanyang

Urban  
Construction  
& Upgrade



Renovation of Old Residential Communities in Beijing



Xi'an Xianyang International Airport Expansion Project



Xiong'an New Area Planning and Design Project



Sponge Renovation Project in Xiejia and Tianshui District of Ningbo City

New Infrastructure



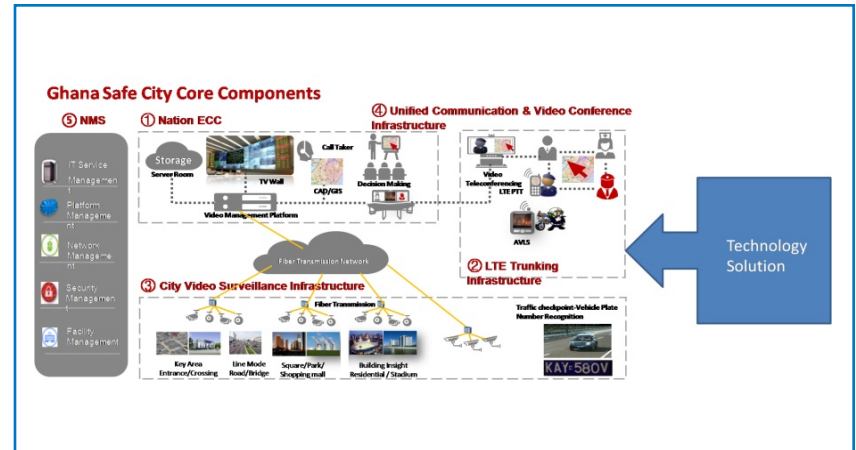
China Unicom Hengyang Big Data center



Tencent Internet Data Center Project



Development of National ICT Infra-Network for Bangladesh Government (Info Sarkar)



Integrated National Security Communications Enhancement Network, Ghana

Industrial  
Park



Changsha Economic Development Zone  
Blockchain Industrial Park



CRRC Offshore Wind Power Base in Yangjiang,  
Guangdong

Eco-friendly  
Plant



TianJin Ultra-micro Filtration Membrane Project  
with Annual Output of 1245 Tons



Permanent Magnetic Direct Drive High-power Wind-  
driven Generator Assembly Line Construction Project  
of CRRC Yongji Electric Co., Ltd

Cold-chain  
Logistics &  
Smart  
Logistics



JD Tianjin Unmanned Warehouse Project



Beijing Qianxi Crane Cold Chain Logistics Project



Anhui Huishang Agriculture Products Intelligent Circulation Center



CRRC Yongji Intelligent Manufacturing Logistics Park

健  
德  
飛  
飛

Soaring