CMB International Global Markets | Equity Research | Sector Update

# **China Construction Sector**

# Multiple drivers to achieve Valuation with China characteristics

China SOE construction names have outperformed the index YTD on the back of the "Valuation system with China characteristics" (中特估). While the sector retreated in May due to weak market, we think the story has yet to come to an end as the sector (H-share) is trading at only 4.5x 2023E P/E (Bloomberg consensus). We see multiple drivers ahead: (1) Continuous market share gain of the state-owned construction companies; (2) Belt-and-Road opportunities following the enhanced China-Middle East relations; (3) Better incentives to achieve higher profitability following the revised KPI matrix for SOEs.

- State-owned construction companies are gaining market share. China construction industry market size (in terms of revenue) reached RMB31,198bn (+6.4% YoY) in 2022. Since 2015, the state-owned construction companies' revenue growth has outperformed the industry average. Total new contract value, for the industry as a whole, increased 6.4% YoY to RMB36,648bn in 2022. Based on our calculation, market share of the top 8 state-owned construction companies combined (CRG, CRCC, CCCC, CSCE, MCC, POWERCHINA, CNCEC and CEEC) increased from 26% in 2012 to 42% in 2022 (in terms of new contract value). We expect the trend will likely continue going forward.
- More Belt-and-Road opportunities following the enhanced relation between China and the Middle East. The Belt-and-Road Initiative (BRI) marks its tenth anniversary in 2023. China-Central Asia Summit was held in Xi'an in mid-May, and several agreements (including the construction of a cross-Caspian Sea international transport corridor) were signed during the summit. We expect the upcoming summits, including the Third Belt and Road Forum, ASEAN Summit and BRICS Summit, will likely boost the infrastructure investment along the BRI countries, according to previous experience. Besides, along with the increasingly tied China-Middle East relation in recent, we expect that Chinese construction companies, in particular SOEs, are set to benefit from a new wave of infrastructure and construction demand in the Middle East. China's non-financial overseas direct investment (ODI) to BRI countries increased from RMB96.3bn in 2017 to RMB141bn in 2022 (CAGR: 10%). The proportion of BRI countries increased from 12% in 2017 to 18% in 2022. In 1Q23, the amount increased 18% YoY to RMB39.4bn.
- Potential ROE enhancement on the back of revised KPI for SOE. Two new items are introduced for Central SOE's KPI in 2023: (1) net profit growth is replaced by ROE; and (2) operating profit margin is replaced by operating cash flow ratio. KPI for the asset/liability ratio changed from "under control" to "remain largely stable". We expect these changes will motivate SOEs' mgmt. to (1) better manage working capital and improve cash inflow; (2) focus more on profitable growth; (3) gear up balance sheets (particularly amid the credit easing environment) to expand business and enhance ROE; (4) spin-off assets.



#### **China Construction Sector**

Wayne FUNG, CFA (852) 3900 0826 waynefung@cmbi.com.hk

Katherine NG (852) 3761 8725 katherineng@cmbi.com.hk



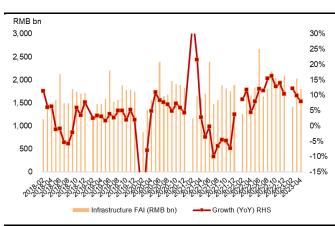
# **Valuation Table**

Company	Price	Market cap	PE(x)		PB (x)		EV/EBITDA (x)	
	(local currency)	(US\$ m)	FY23E	FY24E	FY23E	FY24E	FY23E	FY24E
CHINA RAIL GR-H	5.23	25,654	3.4	3.0	0.4	0.4	10.4	9.2
CHINA RAIL CN-H	6.00	18,186	2.6	2.3	0.3	0.2	7.8	7.2
CHINA COM CONS-H	4.62	19,917	3.3	3.0	0.2	0.2	15.4	14.1
METALLURGICAL-H	1.94	10,878	3.1	2.6	0.3	0.3	9.8	8.5
CHINA ENERGY E-H	1.05	12,284	n/a	n/a	n/a	n/a	n/a	n/a
CHINA STATE CONS	9.05	5,808	5.0	4.4	0.7	0.6	7.1	6.3
CHINA STATE CONS DEV	2.50	718	9.4	6.8	2.2	1.8	7.0	5.3
Average			4.5	3.7	0.7	0.6	9.6	8.5
CHINA RAIL GR-A	7.87	26,369	5.5	4.9	0.6	0.5	10.0	8.9
CHINA RAIL CN-A	10.21	18,692	4.8	4.2	0.4	0.4	7.9	7.1
CHINA COM CONS-A	10.43	20,471	8.0	7.2	0.6	0.5	14.7	13.4
CHINA STATE -A	6.08	37,037	4.3	3.9	0.6	0.5	7.5	6.7
POWER CONSTRUC-A	6.32	15,815	8.2	7.0	0.7	0.6	11.2	9.8
CHINA ENERGY E-A	2.41	12,626	11.2	9.6	0.9	0.7	10.3	9.0
METALLURGICAL-A	4.03	11,180	7.2	6.2	0.6	0.6	9.8	8.7
CHINA NATIONAL-A	8.72	7,739	8.1	6.9	0.9	0.8	4.9	4.2
CHINA NUCLEAR -A	8.44	3,702	11.0	9.4	1.0	0.9	9.0	8.3
SINOMA INTERNA-A	12.53	4,809	11.7	10.1	1.8	1.6	9.1	7.9
Average			8.0	6.9	0.8	0.7	9.4	8.4
	CHINA RAIL GR-H CHINA RAIL CN-H CHINA COM CONS-H METALLURGICAL-H CHINA ENERGY E-H CHINA STATE CONS CHINA STATE CONS DEV Average CHINA RAIL GR-A CHINA RAIL GR-A CHINA RAIL GR-A CHINA STATE -A POWER CONSTRUC-A CHINA STATE -A POWER CONSTRUC-A CHINA ENERGY E-A METALLURGICAL-A CHINA NATIONAL-A CHINA NUCLEAR -A SINOMA INTERNA-A	(local currency)CHINA RAIL GR-H5.23CHINA RAIL CN-H6.00CHINA COM CONS-H4.62METALLURGICAL-H1.94CHINA ENERGY E-H1.05CHINA STATE CONS9.05CHINA STATE CONS DEV2.50Average2.50CHINA STATE CONS DEV2.50Average2.50CHINA STATE CONS DEV2.50CHINA STATE CONS DEV2.50Average2.50CHINA STATE CONS DEV2.50CHINA STATE CONS DEV2.50Average2.51CHINA STATE CONS DEV2.50CHINA STATE CONS DEV2.50CHINA COM CONS-A10.21CHINA STATE -A6.08POWER CONSTRUC-A6.32CHINA ENERGY E-A2.41METALLURGICAL-A4.03CHINA NATIONAL-A8.72CHINA NUCLEAR -A8.44SINOMA INTERNA-A12.53	(local currency)         (US\$ m)           CHINA RAIL GR-H         5.23         25,654           CHINA RAIL CN-H         6.00         18,186           CHINA COM CONS-H         4.62         19,917           METALLURGICAL-H         1.94         10,878           CHINA ENERGY E-H         1.05         12,284           CHINA STATE CONS         9.05         5,808           CHINA STATE CONS DEV         2.50         718           Average         7.87         26,369           CHINA RAIL GR-A         7.87         26,369           CHINA RAIL CN-A         10.21         18,692           CHINA STATE -A         6.08         37,037           POWER CONSTRUC-A         6.32         15,815           CHINA ENERGY E-A         2.41         12,626           METALLURGICAL-A         4.03         11,180           CHINA NATIONAL-A         8.72         7,739           CHINA NUCLEAR -A         8.44         3,702           SINOMA INTERNA-A         12,53         4,809	(local currency)         (US\$ m)         FY23E           CHINA RAIL GR-H         5.23         25,654         3.4           CHINA RAIL CN-H         6.00         18,186         2.6           CHINA COM CONS-H         4.62         19,917         3.3           METALLURGICAL-H         1.94         10,878         3.1           CHINA ENERGY E-H         1.05         12,284         n/a           CHINA STATE CONS         9.05         5,808         5.0           CHINA STATE CONS DEV         2.50         718         9.4           Average         4.5         10.21         18,692         4.8           CHINA STATE CONS-A         10.43         20,471         8.0           CHINA STATE CONS-A         10.43         20,471         8.0           CHINA STATE -A         6.08         37,037         4.3           POWER CONSTRUC-A         6.32         15,815         8.2           CHINA ENERGY E-A         2.41         12,626         11.2           METALLURGICAL-A         4.03         11,180         7.2           CHINA STATE -A         8.72         7,739         8.1           CHINA STATE -A         8.44         3,702         11.0	(local currency)         (US\$ m)         FY23E         FY24E           CHINA RAIL GR-H         5.23         25,654         3.4         3.0           CHINA RAIL CN-H         6.00         18,186         2.6         2.3           CHINA COM CONS-H         4.62         19,917         3.3         3.0           METALLURGICAL-H         1.94         10,878         3.1         2.6           CHINA STATE CONS         9.05         5,808         5.0         4.4           CHINA STATE CONS DEV         2.50         718         9.4         6.8           Average         4.5         3.7         7         7         7         7         7           CHINA STATE CONS DEV         2.50         718         9.4         6.8         4.5         3.7           CHINA RAIL GR-A         7.87         26,369         5.5         4.9         7           CHINA STATE CONS DEV         2.50         718         9.4         6.8           Average         4.5         3.7         7         7         7           CHINA RAIL GR-A         6.08         37,037         4.3         3.9           POWER CONS-A         10.43         20,471         8.0         7.2	(local currency)(US\$ m)FY23EFY24EFY23ECHINA RAIL GR-H5.2325,6543.43.00.4CHINA RAIL CN-H6.0018,1862.62.30.3CHINA COM CONS-H4.6219,9173.33.00.2METALLURGICAL-H1.9410,8783.12.60.3CHINA ENERGY E-H1.0512,284n/an/an/aCHINA STATE CONS9.055,8085.04.40.7CHINA STATE CONS DEV2.507189.46.82.2Average4.53.70.7CHINA RAIL GR-A7.8726,3695.54.90.6CHINA STATE -A6.0837,0374.33.90.6CHINA STATE -A6.0837,0374.33.90.6POWER CONSTRUC-A6.3215,8158.27.00.7CHINA ENERGY E-A2.4112,62611.29.60.9METALLURGICAL-A4.0311,1807.26.20.6CHINA NATIONAL-A8.727,7398.16.90.9CHINA NUCLEAR -A8.443,70211.09.41.0SINOMA INTERNA-A12.534,80911.710.11.8	(local currency)         (US\$ m)         FY23E         FY24E         FY23E         FY24E           CHINA RAIL GR-H         5.23         25,654         3.4         3.0         0.4         0.4           CHINA RAIL CN-H         6.00         18,186         2.6         2.3         0.3         0.2           CHINA COM CONS-H         4.62         19,917         3.3         3.0         0.2         0.2           METALLURGICAL-H         1.94         10.878         3.1         2.6         0.3         0.3           CHINA STATE CONS         9.05         5,808         5.0         4.4         0.7         0.6           CHINA STATE CONS DEV         2.50         718         9.4         6.8         2.2         1.8           Average         4.5         3.7         0.7         0.6           CHINA RAIL GR-A         7.87         26,369         5.5         4.9         0.6         0.5           CHINA RAIL GR-A         7.87         26,369         5.5         4.9         0.6         0.5           CHINA RAIL GR-A         6.08         37,037         4.3         3.9         0.6         0.5           CHINA RAIL GR-A         7.87         26,369         5.5 </td <td>Image: currency         (US\$ m)         FY23E         FY24E         FY24E</td>	Image: currency         (US\$ m)         FY23E         FY24E         FY24E

Source: Bloomberg, CMBIGM



# **Key Charts: China Construction Sector**



### Figure 1: China infrastructure FAI

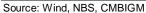
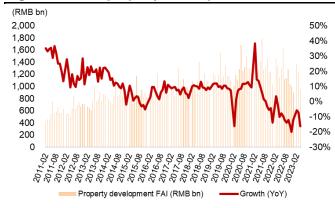
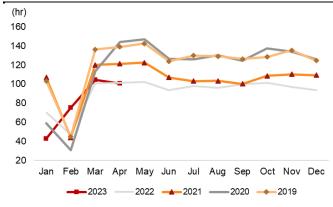


Figure 3: China property development FAI



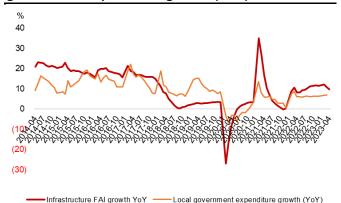
Source: Wind, NBS, CMBIGM

# Figure 5: Komatsu excavator monthly utilization hours in China



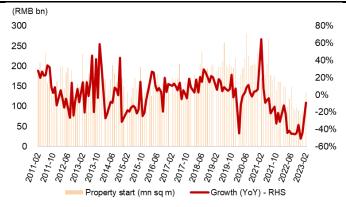
Source: Komatsu, CMBIGM

Figure 2: Infrastructure FAI growth vs local government expenditure growth (YTD)

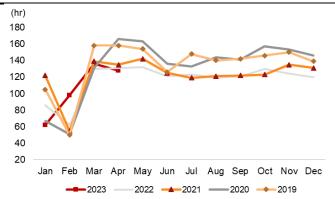


Source: Wind, NBS, CMBIGM

### Figure 4: China property start



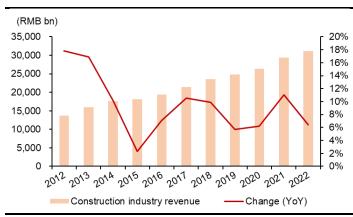
Source: Wind, NBS, CMBIGM



# Figure 6: Hitachi excavator monthly utilization hours in China

Source: Hitachi, CMBIGM

## Figure 7: Total revenue of China construction market



Source: Wind, NBS, CMBIGM

Figure 9: New contract value of China construction industry



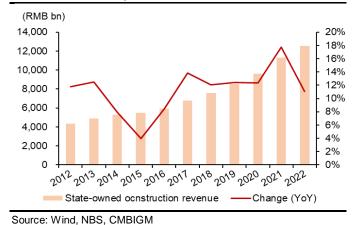
Source: Wind, NBS, CMBIGM

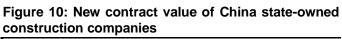
Figure 11: Total revenue of China construction industry (quarterly)



Source: Wind, NBS, CMBIGM

Figure 8: Total revenue of China state-owned construction companies

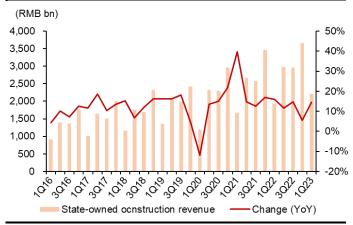






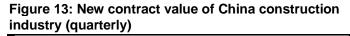
Source: Wind, NBS, CMBIGM

# Figure 12: Total revenue of China state-owned construction companies (quarterly)

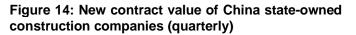


Source: Wind, NBS, CMBIGM







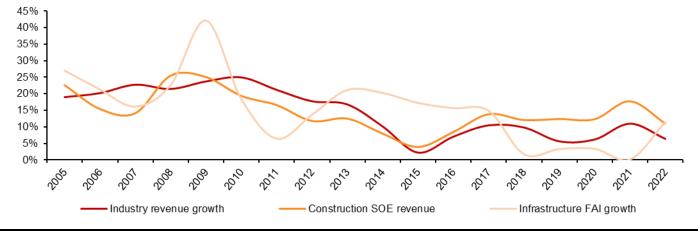






Source: Wind, NBS, CMBIGM





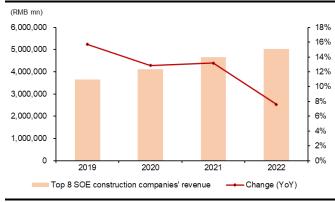
Source: Wind, NBS, CMBIGM





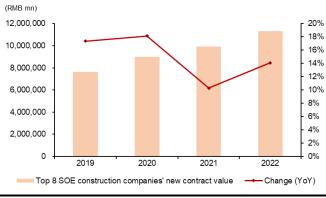
# **Key Charts: Top 8 SOE Construction Companies**

Figure 16: Total revenue of Top 8 state-owned companies



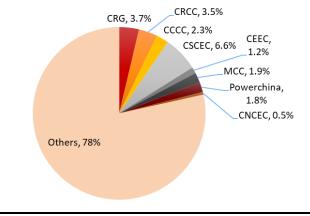
### Source: Company data, CMBIGM

# Figure 18: New contract value of Top 8 state-owned companies



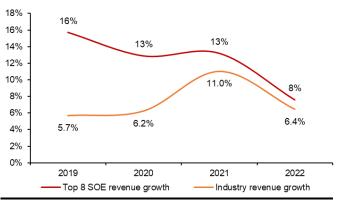
Source: Company data, CMBIGM

# Figure 20: Market share breakdown of construction market in terms of revenue (2022)



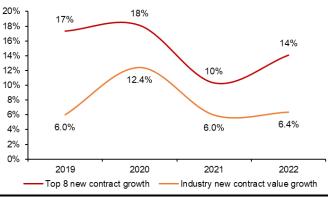
Source: Wind, NBS, Company data, CMBIGM

Figure 17: Top 8 SOE revenue growth vs. industry revenue growth



Source: Wind, NBS, Company data, CMBIGM

# Figure 19: Top 8 SOE new contract value growth vs. industry new contract value growth



Source: Wind, NBS, Company data, CMBIGM

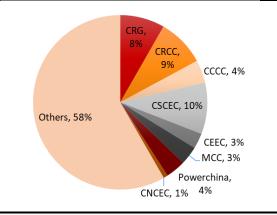
# Figure 21: Top 8 SOE is gaining market share – CR8 in terms of revenue



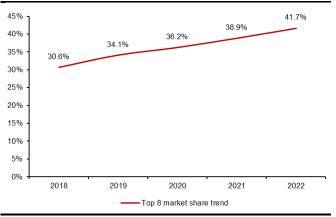
Source: Wind, NBS, Company data, CMBIGM



### Figure 22: Market share breakdown of construction market in terms of new contract value (2022)



### Figure 23: Top 8 SOE is gaining market share - CR8 in terms of new contract value



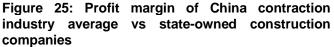
Source: Wind, Company data, CMBIGM

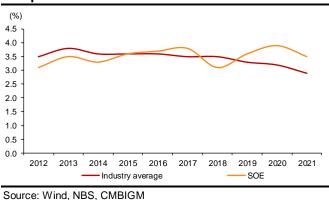
Source: Wind, Company data, CMBIGM

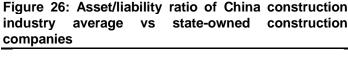


## Figure 24: Major construction contractor's new contract value by company (quarterly)

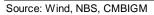
Source: Company data, CMBIGM













## Figure 27: Top 8 construction contractor new contract value summary

New contract va	lue (RMB mn)					
<b>Company Name</b>	Ticker	2019	2020	2021	2022	2023E
CRG	390 HK / 601390 CH	2,164,860	2,605,670	2,729,320	3,032,390	3,200,000
CRCC	1186 HK / 601186 CH	2,006,854	2,554,289	2,819,045	3,245,001	3,310,000
CCCC	1800 HK / 601800 CH	962,683	1,066,799	1,267,912	1,542,256	1,693,397
CSCEC	601668 CH	2,482,100	2,770,500	3,107,400	3,501,500	4,200,000
CEEC	3996 HK	520,398	577,828	872,610	1,049,082	n/a
MCC	1618 HK / 601618 CH	711,840	941,560	1,121,000	1,260,060	n/a
POWERCHINA	601868 CH	787,760	1,019,720	1,204,760	1,345,570	n/a
CNCEC	601117 CH	227,203	251,166	269,769	296,923	n/a
Total		7,616,497	8,997,258	9,923,677	11,321,147	n/a
Change (YoY)						
CRG	390 HK / 601390 CH	27.9%	20.4%	4.7%	11.1%	5.5%
CRCC	1196 UK / 601196 CU	26 7%	27 20/	10 4%	15 10/	2 00/

Total		17.3%	18.1%	10.3%	14.1%	n/a
CNCEC	601117 CH	56.7%	10.5%	7.4%	10.1%	n/a
POWERCHINA	601868 CH	18.3%	29.4%	18.1%	11.7%	n/a
MCC	1618 HK / 601618 CH	19.9%	32.3%	19.1%	12.4%	n/a
CEEC	3996 HK	12.7%	11.0%	51.0%	20.2%	n/a
CSCEC	601668 CH	6.8%	11.6%	12.2%	12.7%	19.9%
CCCC	1800 HK / 601800 CH	8.1%	10.8%	18.9%	21.6%	9.8%
CRCC	1186 HK / 601186 CH	26.7%	27.3%	10.4%	15.1%	2.0%

Source: Company data, CMBIGM

Note: The 2023 new contract value refer to the Company's target.

### Figure 28: Top 8 construction contractor revenue summary

Revenue (RMB n	nn)					
<b>Company Name</b>	Ticker	2019	2020	2021	2022	2023E
CRG	390 HK / 601390 CH	850,843	974,732	1,073,272	1,154,349	1,200,000
CRCC	1186 HK / 601186 CH	830,452	910,325	1,020,010	1,096,313	1,160,700
CCCC	1800 HK / 601800 CH	553,114	624,495	682,599	717,473	767,696
CSCEC	601668 CH	1,419,837	1,615,023	1,892,706	2,055,052	2,200,000
CEEC	3996 HK	247,291	270,328	322,319	366,393	n/a
MCC	1618 HK / 601618 CH	338,638	400,115	500,572	592,669	n/a
POWERCHINA	601868 CH	348,028	401,181	448,325	571,649	n/a
CNCEC	601117 CH	103,622	109,457	137,289	157,716	n/a
Total		3,654,246	4,124,575	4,668,587	5,023,187	n/a

Change (YoY)						
CRG	390 HK / 601390 CH	14.9%	14.6%	10.1%	7.6%	4.0%
CRCC	1186 HK / 601186 CH	13.7%	9.6%	12.0%	7.5%	5.9%
CCCC	1800 HK / 601800 CH	13.2%	12.9%	9.3%	5.1%	7.0%
CSCEC	601668 CH	18.4%	13.7%	17.2%	8.6%	7.1%
CEEC	3996 HK	10.4%	9.3%	19.2%	13.7%	n/a
MCC	1618 HK / 601618 CH	17.0%	18.2%	25.1%	18.4%	n/a
POWERCHINA	601868 CH	18.0%	15.3%	11.8%	27.5%	n/a
CNCEC	601117 CH	27.2%	5.6%	25.4%	14.9%	n/a
Total		15.7%	12.9%	13.2%	7.6%	n/a

Source: Company data, CMBIGM

Note: The 2023 revenue refer to the Company's target.

# Key Charts: Belt-and-Road Investment

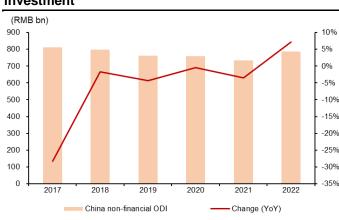
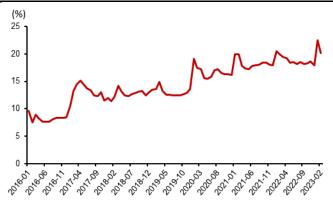


Figure 29: China non-financial overseas direct investment

5 Jun 2023

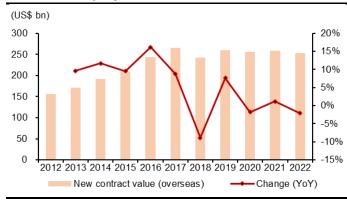
Source: Wind, Ministry of Commerce, CMBIGM

# Figure 31: China's ODI to Belt-and-Road countries as % of total ODI (non-financial)



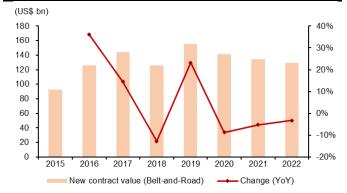
Source: Wind, NBS, CMBIGM

# Figure 33: New contract value of China's overseas construction projects



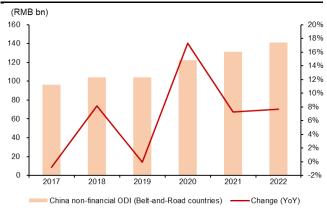
Source: Wind, NBS, CMBIGM

# Figure 34: New contract value of China's overseas construction projects (Belt-and-Road countries)



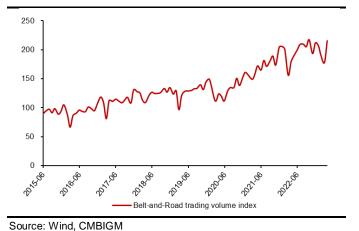
Source: Wind, CMBIGM

Figure 30: China non-financial overseas direct investment (Belt-and-Road countries)



Source: Wind, Ministry of Commerce, CMBIGM

### Figure 32: Belt and Road Trade Volume Index





## Figure 35: Key infrastructure projects signed during the Belt-and-Road related summits

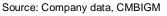
Year	Summit	Document signed	Key projects
2017	The 1st Belt and Road Forum for Internatioinal Cooperation	"Vision and Actions on Energy Cooperation in Jointly Building Silk Road Economic Belt and 21st-Century Maritime Silk Road"	<ol> <li>A total of 76 major items and more than 270 specific achievements have been achieved. For example, the China-Laos Railway, the China-Thailand Railway, 22 key projects of the Jakarta-Bandung High-speed Railway, the Bejiu section of the Hungary-Serbia Railway in Serbia.</li> <li>Sign of "Agreement on Deepening China-Europe Railway Express Connection"</li> </ol>
		"Belt and Road Digital Economy Cooperation"	Cooperation" 1. Asia-Europe-Africa Submarine Cable 2. China-ASEAN Information Harbor 3. China-Arab Online Silk Road 4. Digital Silk Road Program
	The 2nd Ministerial Conference of the China-CELAC Cooperation Forum	"China-CELAC Special Statement on the Belt and Road Initiative"	
	The 8th Ministerial Conference of the China-CELAC Cooperation Forum	Building Belt and Road"	
	Forum on China-Africa Cooperation	"Beijing Declaration—Toward an Even Stronger China-Africa Community with a Shared Future and the FOCAC Beijing Action Plan"	
2018	The 1st BRI Energy Ministers' Meeting	"Joint Energy Ministers' Declaration on Building the Belt and Road Energy Partnership" - <u>China &amp; Russia</u> :"Tianwan project units 7/8 Framework Contract", "Xudabao Nuclear Power Plant Framework Contract", "Fast-neutron Reactor Equipment Supplies and Service Procurement Framework Contract" in 2018 - <u>China &amp; Switzerland</u> : "Memorandum of Understanding (MOU) for Cooperation in Energy Coorperation", "China- Switerland Roadmap on energy cooperation"	<ol> <li><u>Russia:</u> (1) 2018: Units 7 and 8 of Lianyungang Tianwan Nuclear Power Plant Units 7 and 8 / Units 3 and 4 of Xudabao Nuclear Power Plant; (2) 2019: Yamal LNG Project; (3) China-Russia East-Route Natural Gas Pipeline</li> <li><u>Belarus</u>: China–Belarus Industrial Park</li> <li><u>Kazakhstan</u>: SPIC Kazakhstan's Zhanatas Wind Power Plant (100MV)</li> <li><u>Pakistan</u>: China–Pakistan Economic Corridor, Chashma Nuclear Power Plant, Hai Duong (Vietnam) Thermal Power Plant, Caculo Cabaça Hydroelectric Power Station</li> <li><u>Brazil</u>: Belo Monte Hydropower Project</li> <li><u>Africa</u>: Ethiopia–Djibouti Gas Pipeline, The Electricity IV Project (Mozambique)</li> <li><u>Republic of Malta</u>: Montenegro Mozura Wind Farm, Solar Rooftops Program</li> <li><u>Switzerland</u>: offshore floating wind farms</li> <li><u>Myanmar</u>: China-Myanmar oil and gas pipeline</li> <li><u>Others</u>: China-Central Asia Natural Gas Pipeline, China-Mongolia-Russia Natural Gas Pipeline</li> </ol>
2019	The 2nd Belt and Road Forum for Internatioinal Cooperation	"Principles and Actions of the Belt and Road Energy Cooperation Partnership"	
2020	The 2nd Belt and Road Energy Partnership Forum	Energy outperation r attractship	
2021	The 2nd BRI Energy Ministers' Meeting	"Belt and Road" Energy Partnership Charter", "Belt and Road Green Energy Cooperation Qingdao Initiative"	"Belt and Road" energy partnership cooperation network

Source: The State Council, National Energy Administration, CMBIGM

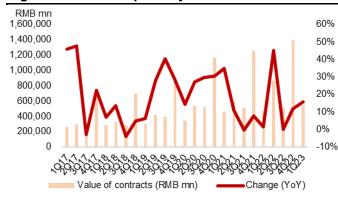


# Key Charts: Contract Breakdown by Company



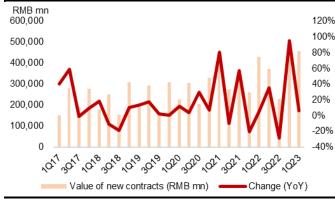


#### Figure 38: CRCC's quarterly new contract value

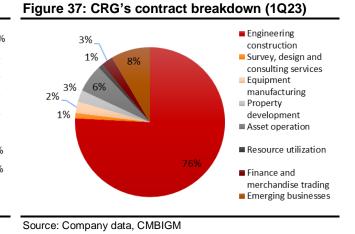


Source: Company data, CMBIGM

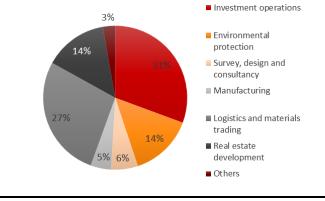
### Figure 40: CCCC's quarterly new contract value



#### Source: Company data, CMBIGM

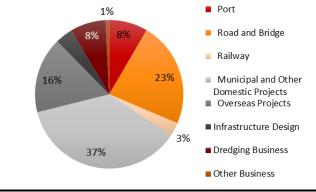


### Figure 39: CRCC's contract breakdown (1Q23)



Source: Company data, CMBIGM

### Figure 41: CCCC's contract breakdown (1Q23)



Source: Company data, CMBIGM



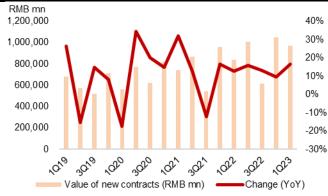
Property

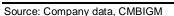
construction

Infrastructure

Survey and design

Figure 42: CSCEC's quarterly new contract value





## Figure 44: CRG's revenue breakdown by region (2022)

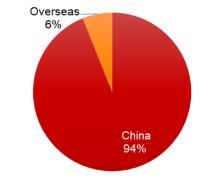


Figure 45: CRCC's revenue breakdown by region (2022)

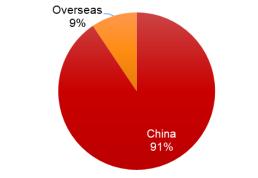
Figure 43: CSCEC's contract breakdown (1Q23)

0.4%

25.1%

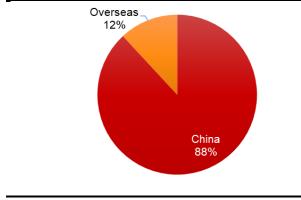
Source: Company data, CMBIGM

Source: Company data, CMBIGM



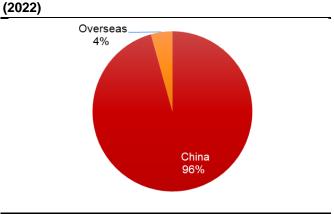
Source: Company data, CMBIGM

Figure 46: CCCC's revenue breakdown by region (2022)



Source: Company data, CMBIGM

Figure 47: CSCEC's revenue breakdown by region



Source: Company data, CMBIGM



# **Disclosures & Disclaimers**

### **Analyst Certification**

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIGM Ratings BUY HOLD SELL NOT RATED	: Stock with potential return of over 15% over next 12 months : Stock with potential return of +15% to -10% over next 12 months : Stock with potential loss of over 10% over next 12 months : Stock is not rated by CMBIGM
OUTPERFORM	: Industry expected to outperform the relevant broad market benchmark over next 12 months
MARKET-PERFORM	: Industry expected to perform in-line with the relevant broad market benchmark over next 12 months
UNDERPERFORM	: Industry expected to underperform the relevant broad market benchmark over next 12 months

#### CMB International Global Markets Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Global Markets Limited ("CMBIGM") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

#### Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIGM does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIGM recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIGM, solely for the purpose of supplying information to the clients of CMBIGM or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIGM nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIGM has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIGM provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice CMBIGM may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIGM may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIGM may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIGM does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIGM may have a conflict of interest that could affect the objectivity of this report and CMBIGM will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIGM. Additional information on recommended securities is available upon request.

#### For recipients of this document in the United Kingdom

This report has been provided only to persons (I)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time)("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc.,) of the Order, and may not be provided to any other person without the prior written consent of CMBIGM.

#### For recipients of this document in the United States

CMBIGM is not a registered broker-dealer in the United States. As a result, CMBIGM is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report to any other person. Any U.S. recipient of this report wishing to effect any transaction to buy or sell securities based on the information provided in this report should do so only through a U.S.-registered broker-dealer.

#### For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.