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

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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

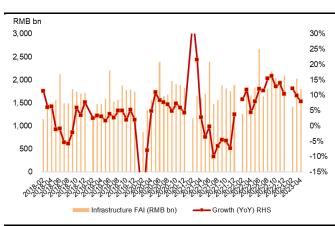


Figure 1: China infrastructure FAI

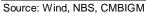
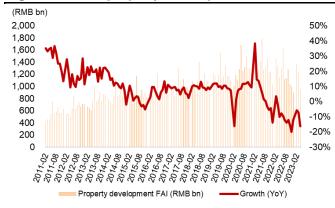
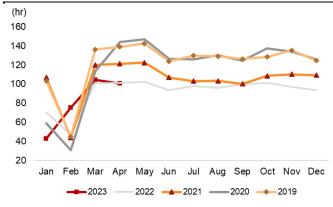


Figure 3: China property development FAI



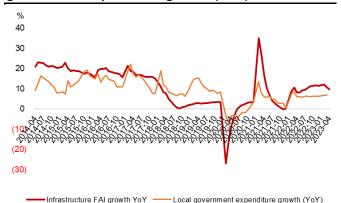
Source: Wind, NBS, CMBIGM

Figure 5: Komatsu excavator monthly utilization hours in China



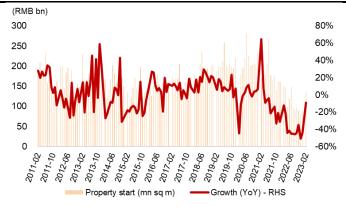
Source: Komatsu, CMBIGM

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



Source: Wind, NBS, CMBIGM

Figure 4: China property start



Source: Wind, NBS, CMBIGM

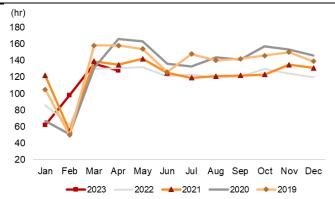
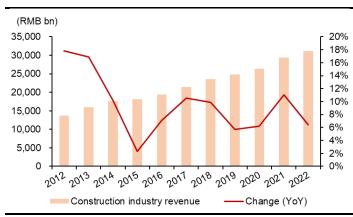


Figure 6: Hitachi excavator monthly utilization hours in China

Source: Hitachi, CMBIGM

Figure 7: Total revenue of China construction market



Source: Wind, NBS, CMBIGM

Figure 9: New contract value of China construction industry



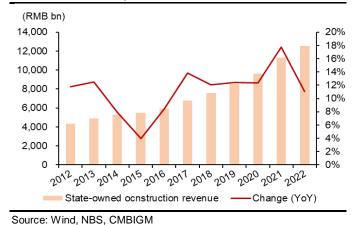
Source: Wind, NBS, CMBIGM

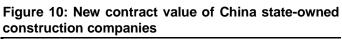
Figure 11: Total revenue of China construction industry (quarterly)



Source: Wind, NBS, CMBIGM

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

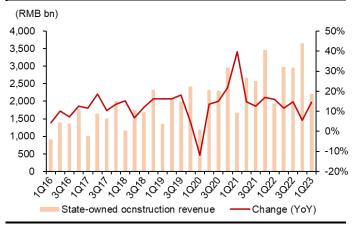






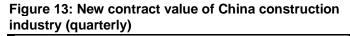
Source: Wind, NBS, CMBIGM

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

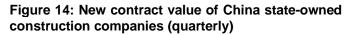


Source: Wind, NBS, CMBIGM













Source: Wind, NBS, CMBIGM





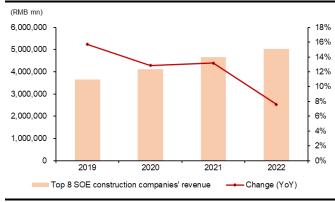
Source: Wind, NBS, CMBIGM





Key Charts: Top 8 SOE Construction Companies

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



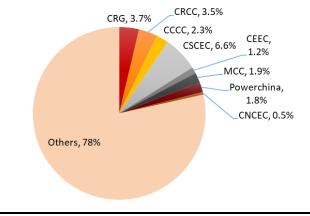
Source: Company data, CMBIGM

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



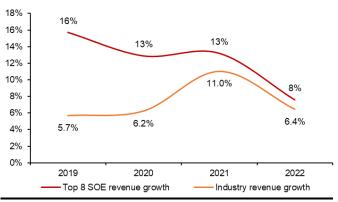
Source: Company data, CMBIGM

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



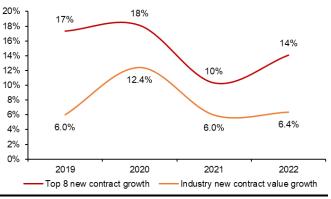
Source: Wind, NBS, Company data, CMBIGM

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)

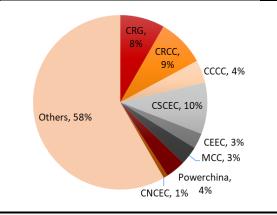
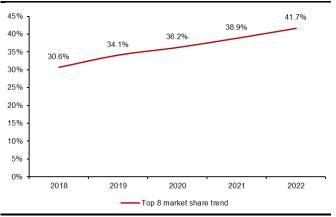


Figure 23: Top 8 SOE is gaining market share - CR8 in terms of new contract value



Source: Wind, Company data, CMBIGM

Source: Wind, Company data, CMBIGM

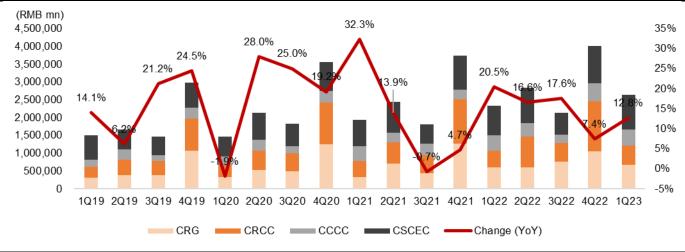
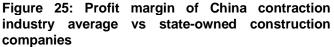
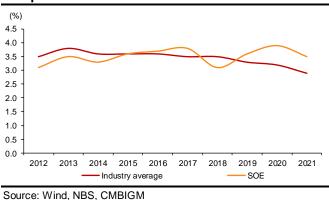
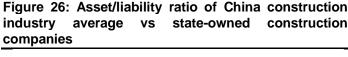


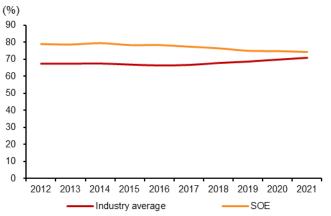
Figure 24: Major construction contractor's new contract value by company (quarterly)

Source: Company data, CMBIGM









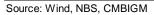




Figure 27: Top 8 construction contractor new contract value summary

New contract va	lue (RMB mn)					
Company Name	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)					
Company Name	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

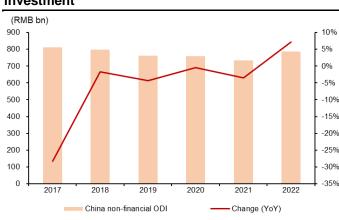
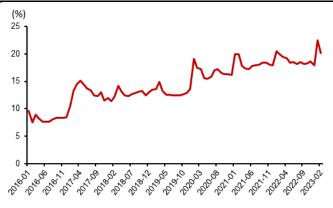


Figure 29: China non-financial overseas direct investment

5 Jun 2023

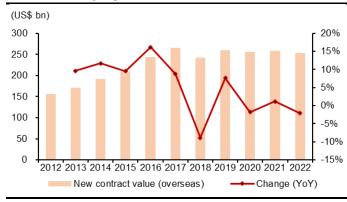
Source: Wind, Ministry of Commerce, CMBIGM

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



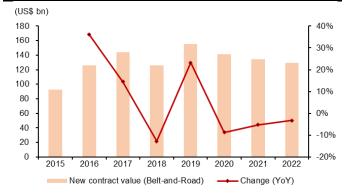
Source: Wind, NBS, CMBIGM

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



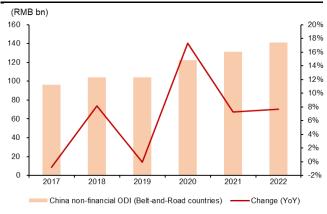
Source: Wind, NBS, CMBIGM

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

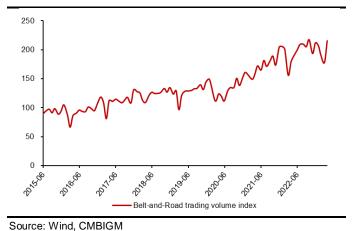




Figure 35: Key infrastructure projects signed during the Belt-and-Road related summits

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"	 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. Sign of "Agreement on Deepening China-Europe Railway Express Connection"
		"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 & 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 & Switzerland</u> : "Memorandum of Understanding (MOU) for Cooperation in Energy Coorperation", "China- Switerland Roadmap on energy cooperation"	 <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 <u>Belarus</u>: China–Belarus Industrial Park <u>Kazakhstan</u>: SPIC Kazakhstan's Zhanatas Wind Power Plant (100MV) <u>Pakistan</u>: China–Pakistan Economic Corridor, Chashma Nuclear Power Plant, Hai Duong (Vietnam) Thermal Power Plant, Caculo Cabaça Hydroelectric Power Station <u>Brazil</u>: Belo Monte Hydropower Project <u>Africa</u>: Ethiopia–Djibouti Gas Pipeline, The Electricity IV Project (Mozambique) <u>Republic of Malta</u>: Montenegro Mozura Wind Farm, Solar Rooftops Program <u>Switzerland</u>: offshore floating wind farms <u>Myanmar</u>: China-Myanmar oil and gas pipeline <u>Others</u>: China-Central Asia Natural Gas Pipeline, China-Mongolia-Russia Natural Gas Pipeline
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



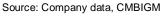
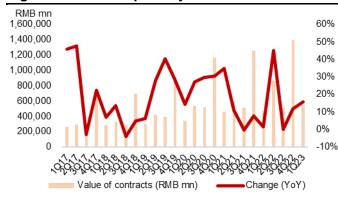
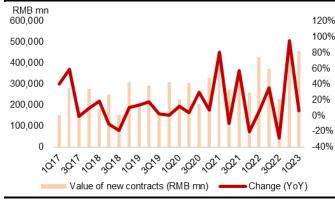


Figure 38: CRCC's quarterly new contract value



Source: Company data, CMBIGM

Figure 40: CCCC's quarterly new contract value



Source: Company data, CMBIGM

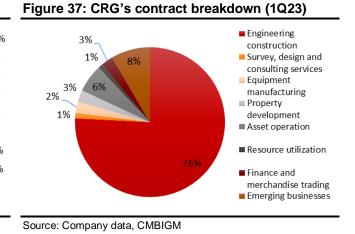
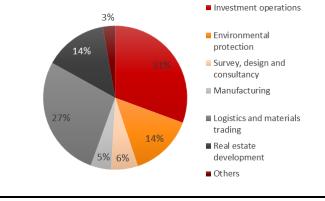
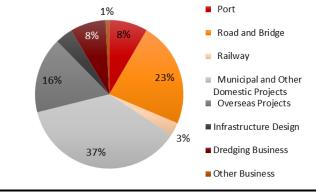


Figure 39: CRCC's contract breakdown (1Q23)



Source: Company data, CMBIGM

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



Source: Company data, CMBIGM



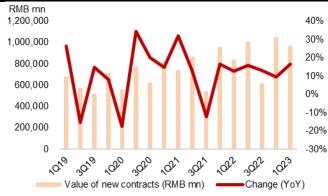
Property

construction

Infrastructure

Survey and design

Figure 42: CSCEC's quarterly new contract value



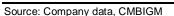


Figure 44: CRG's revenue breakdown by region (2022)

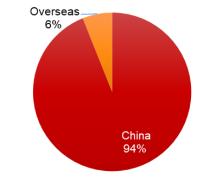


Figure 45: CRCC's revenue breakdown by region (2022)

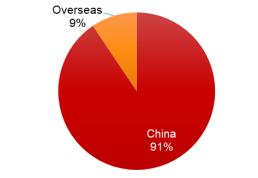
Figure 43: CSCEC's contract breakdown (1Q23)

0.4%

25.1%

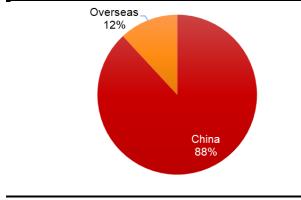
Source: Company data, CMBIGM

Source: Company data, CMBIGM



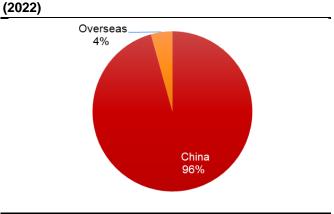
Source: Company data, CMBIGM

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



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