CMB International Securities | Equity Research | Sector Update



China Gas Distributors

Scenario analysis on COVID-19's impact

Commercial and Industrial (C&I) users have been resuming operation from 10 Feb. Migration inflow of major cities had read significant YoY decline, however, according to our macro team's observation. We established a scenario analysis framework to estimate NCP's impact to China gas distributors from 1) exposures in Hubei, 2) C&I gas sales outside Hubei, 3) compensation from additional residential gas usage, and 4) potential delay for residential gas connection. We believe gas distributors' impact from Hubei exposures is mild (0.5-1.2%), while C&I gas volume decline due to operation disruption will be more significant (base case: 3.9-4.8%). Overall, we expect net profit impact would be limited at (FY20E 1.5-7.1%). Sector earnings performance would be resilient, and we prefer CGH (384 HK, BUY, TP: HK\$38.0) for less C&I exposures with relatively less impact.

- Gas sales impact from Hubei will be mild. CGH/CRG (1193 HK, NR) have 36/16 city gas projects with ~6%/7% of annual retail gas sales in Hubei respectively, while ENN (2688 HK, NR) has no exposures. Our scenario analysis indicates CGH/CRG may suffer only 1.0-1.2% gas volume impact at most from Hubei, which will have very limited impact on bottom line.
- C&I gas volume impact likely higher outside Hubei. As we expect it will take time for C&I users operation to resume normal, we think C&I volume impact outside Hubei worth more attention. We assume C&I gas users will take 4/7/16 weeks (from 10 Feb) to resume normal in different scenarios, we estimate gas distributors to suffer 4.5-13.7% C&I gas volume decline, translating to ~3-10% total gas volume decline. ENN may suffer relatively higher impact than CGH and CRG due to higher C&I gas sales mix.
- Residential gas sales may have slight compensation. We expect city residents to consume more gas at home since dining outside is highly discouraged. We assume average residential gas usage to increase 6%/3%/1% in different scenarios, which will bring about 1.7-0.2% total gas volume growth to partial compensate C&I volume loss.
- Stimulus policies to bring additional impact. Zhejiang and Hubei government had released stimulus policies, cutting gas price by 10% for 3/6 months respectively to support economy and SMEs. We expect those measures to be extended to more provinces, but we see upstream oil majors to share the costs (i.e. cutting city-gate price accordingly). We estimate a wider scope price cut will have additional 1-2.5% impact on gas distributors' net profit.
- Limited impact for residential connection at current stage. We have not yet factored in impact for residential connection at current stage. 1Q is usually low season and connection pace can be ramped in the following quarters. However, if residential connection cannot resume in 2Q20, we expect gas distributor to suffer 5-10% cut on annual connection target, translating to potential 1-4% earnings decline depending on connection revenue mix.
- Overall: gas distributors are still resilient. We expect gas distributors' earning to be subject to 1.5-3.4% impact (base case) from COVID-19 caused disruption. In the worst case, we estimate earnings downside of only 3.1-7.1%, with largest impact on ENN. We prefer CGH for less C&I exposures and less earnings impact.

OUTPERFORM

China Gas Distributors

Robin Xiao (852) 3900 0849 robinxiao@cmbi.com.hk



Figure 1: Major gas distributors' exposures in Hubei and potential impacts estimates

Major gas distributors' exposure in Hubei Province

Company Ticker		Residential customer number	Total residential customer number	as % to total residential accounts	C&I customer number	Total C&l customer number	as % to total C&I accounts
		(mn HH)	(mn HH)				
CGH	384 HK	2.19	26.1	8.4%	18,097	215,022	8.4%
ENN	2688 HK	nil	nil	n/a	nil	nil	n/a
CRG	1193 H	1.47	35.88	4.1%	n/a	277,329	n/a

Hubei Im	pact model		C&I gas volume loss due to 2019 n-C			
Month	Impact days	Utilization rate	Remark	Worst	Base	Best
Jan	10	50%	Reduce usage due to CNY holiday	90%	90%	90%
Feb	28	70%	Low usage during work resume period	90%	90%	90%
Mar	31	100%		85%	75%	50%
Apr	30	100%		65%	35%	15%
May	31	100%		45%	O%	O%
Jun	30	100%		25%	O%	О%
			Annualized impact ->	-24.5%	-15.3%	-11.5%
			Impact days ->	89.4	55.9	42.1

Gas vol	ume exposures	and assumptions	Overall impact to gas sales volume				
Company Ticker		Gas sales as% to toal gas sales	C&I %	Overall C&I gas volume impact in Hubei	Worst	Base	Best
CGH	384 HK	6.0%	65%	3.9%	-1.0%	-0.6%	-0.5%
ENN	2688 HK	nil	nil	n/a	nil	nil	nil
CRG	1193 H	7.0%	70%	4.9%	-1.2%	-0.8%	-0.6%

Source: CMBIS estimates



Figure 2: Major gas distributors' exposures outside Hubei and potential impacts estimates

Non-Hubei C&I gas volume Impact model

Gas sales loss from C&I Users

Week	Per	iod	Day count	Wors	t Base	Best
	31-Jan	9-Feb	10	80.0%	80.0%	80.0%
1	10-Feb	16-Feb	7	75.0%	67.5%	60.0%
2	17-Feb	23-Feb	7	70.0%	55.0%	40.0%
3	24-Feb	1-Mar	7	65.0%	42.5%	20.0%
4	2-Mar	8-Mar	7	60.0%	30.0%	0.0%
5	9-Mar	15-Mar	7	55.0%	17.5%	0.0%
6	16-Mar	22-Mar	7	50.0%	5.0%	0.0%
7	23-Mar	29-Mar	7	45.0%	0.0%	0.0%
8	30-Mar	5-Apr	7	40.0%	0.0%	0.0%
9	6-Apr	12-Apr	7	35.0%	0.0%	0.0%
10	13-Apr	19-Apr	7	30.0%	0.0%	0.0%
11	20-Apr	26-Apr	7	25.0%	0.0%	0.0%
12	27-Apr	3-May	7	20.0%	0.0%	0.0%
13	4-May	10-May	7	15.0%	0.0%	0.0%
14	11-May	17-May	7	10.0%	0.0%	0.0%
15	18-May	24-May	7	5.0%	0.0%	0.0%
16	25-May	31-May	7	0.0%	0.0%	0.0%

Recovery parameter Impact rate-> Impact days ->

5.0%	12.5%	20.0%
-13.7%	-6.4%	-4.5%
50.0	23.2	16.4

C&I gas sales volume mix & adjustments for porportions in Hubei

Non-Hubei C&I Gas Hubei gas Ticker Company volume as % C&I gas sales sales % to total 61.1% CGH 384 HK 65.0% 6.0% ENN 2688 HK 75.0% 0.0% 75.0% 1193 HK 70.0% 7.0% 65.1%

Overall gas volume decline

Worst	Base	Best
-8.4%	-3.9%	-2.7%
-10.3%	-4.8%	-3.4%
-8.9%	-4.1%	-2.9%

 $\mathsf{CR}\,\mathsf{G}$ Source: CMBIS estimates



Figure 3: Compensation from residential gas usage

Company	Ticker	Residential gas consumption%	Average city residents' gas consumption		Assumptions: residential gas usage growth			gas volume impact		
			(cbm/yr)	Worst	Base	Best	Worst	Base	Best	
CGH	384 HK	28.0%	125.7	6%	3%	1%	1.7%	0.8%	0.3%	
ENN	2688 HK	16.6%	156.0	6%	3%	1%	1.0%	0.5%	0.2%	
CRG	1193 HK	22.7%	156.0	6%	3%	1%	1.4%	0.7%	0.2%	
								•		

Source: CMBIS estimates

Figure 4: Our scenario analysis summary

	Assumptions	Worst Case	Base Case	Best Case
1	C&I gas consumption impact in Hubei	Gas consumption to recovery in full in late-Jun	Gas consumption to recovery in full in early-May	Gas consumption to recover in full in early-May with high utilization ratio
2	C&I gas consumption outside Hubei	Gas consumption to recovery in full in late May	Gas consumption to recovery in full in late Mar	Gas consumption to recover in full in early Mar
3	Increasing residential gas consumption to compensate gas sales loss due to the n-Cov virus impact	Average residential gas use increase 6%	Average residential gas use increase 3%	Average residential gas use increase 1%
	Overall gas sale volume impact			
CGH	384 HK	-7.6%	-3.6%	-2.9%
	Gas volume impact from Hubei	-1.0%	-0.6%	-0.5%
	Non-Hubei C&I gas volume impact	-8.4%	-3.9%	-2.7%
	Compensation from residential gas usage	1.7%	0.8%	0.3%
ENN	2688 HK	-9.3%	-4.3%	-3.2%
	Gas volume impact from Hubei	Nil	Nil	Nil
	Non-Hubei C&I gas volume impact	-10.3%	-4.8%	-3.4%
	Compensation from residential gas usage	1.0%	0.5%	0.2%
CRG	1193 HK	-8.8%	-4.2%	-3.3%
	Gas volume impact from Hubei	-1.2%	-0.8%	-0.6%
	Non-Hubei C&l gas volume impact	-8.9%	-4.1%	-2.9%
	Compensation from residential gas usage	1.4%	0.7%	0.2%
	Net profit impact NCP disruption			
CGH	384 HK	-3.1%	-1.5%	-0.5%
ENN	2688 HK	-7.1%	-3.4%	-1.7%
CRG	1193 HK	-6.3%	-3.1%	-1.6%

Source: CMBIS estimates



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.

CMBIS Ratings

BUY
Stock with potential return of over 15% over next 12 months
SELL
Stock with potential return of +15% to -10% over next 12 months
SELL
Stock with potential loss of over 10% over next 12 months

NOT RATED : Stock is not rated by CMBIS

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 Securities Limited

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

CMB International Securities Limited ("CMBIS") 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. CMBIS 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. CMBIS 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 CMBIS, solely for the purpose of supplying information to the clients of CMBIS 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 CMBIS 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. CMBIS has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIS provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIS 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. CMBIS may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIS 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 CMBIS 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 CMBIS may have a conflict of interest that could affect the objectivity of this report and CMBIS 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 CMBIS.

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 CMBIS.

For recipients of this document in the United States

This report is intended for distribution in the United States to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this research report by its acceptance hereof represents and agrees that it shall not distribute or provide this research report to any other person.

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.

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.