China/Hong Kong Company Update Ganfeng Lithium Co Ltd

Bloomberg: 1772 HK Equity | 002460 CH Equity | Reuters: 1772.HK | 002460.SZ

DBS Group Research . Equity

25 Jan 2022

H: BUY

Last Traded Price (24 Jan 2022):HK\$125.10(HSI : 24,656) Price Target 12-mth: HK\$230 (83.9% upside)

A: BUY

Last Traded Price (24 Jan 2022):RMB134.87(CSI300 Index : 4,787) Price Target 12-mth: RMB230 (70.5% upside)

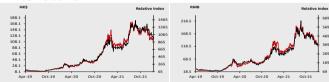
Analyst

Duncan CHAN +852 36684178 duncanchan@dbs.com

What's New

- Market has underestimate its robust lithium products product sentiment for 1Q22
- Good upstream development progress for Bacanora and Sonora overseas drive growth prospect
- Raise net earnings estimate for FY22F-FY23F on higher GP assumptions
- Attractive valuation; reiterate BUY and TP of HK\$230

Price Relative



Forecasts and Valuation (H Shares)

i oi ceases ana raiaaci	011 (11 011a1)			
FY Dec (RMBm)	2020A	2021F	2022F	2023F
Turnover	5,489	10.366	16.823	20.413
EBITDA	1,673	7.526	8.370	10.971
Pre-tax Profit	1,128	6.665	6.972	9.293
Net Profit	1,025	5.158	5.396	7.191
Net Profit (Pre-ex) (%)	184,2	403.1	4.6	33.3
EPS (RMB) EPS (HK\$) EPS Gth (%) Diluted EPS (HK\$) DPS (HK\$) BV Per Share (HK\$) PE (X) P/Cash Flow (X) P/Free CF (X) EV/EBITDA (X) Net Div Yield (%) P/Book Value (X) Net Debt/Equity (X) ROAE(%)	0.77 0.94 174.2 0.94 133.1 133.1 182.8 nm 85.5 0.3 12.7 0.3 10.8	3.59 4.41 368.9 4.41 1.75 15.77 28.4 31.2 nm 20.1 1.4 7.9 0.1 35.4	3.75 4.61 4.6 1.83 18.55 27.1 32.8 nm 18.8 1.5 6.7 0.3 26.9	5.00 6.15 33.3 6.15 2.44 22.26 20.4 18.8 52.9 14.4 1.9 5.6 0.2 30.1
Earnings Rev (%):		103	11	37
Consensus EPS (RMB)		2.53	4.38	5.32
Other Broker Recs:		B:12	S:0	H:0

Source of all data on this page: Company, DBS Bank (Hong Kong) Limited ("DBS HK"), Thomson Reuters

Positive 2021 alert confirmed upbeat outlook

Investment Thesis

Overly concerned on chip shortage impact. GFLi was alerting its 2021 recurring earnings to be ahead of consensus and exceeded our expectation. We believe the market has overworried about the negative impact from shortage of chips and power in 4Q21. We expect the news would provide positive share catalyst in anticipation of Chinese lithium products market price approaching multiple-year high.

Refer to important disclosures at the end of this report.

Smooth expansion progress on good upstream development.

GFLi's good progress in overseas upstream projects could boost raw material self-sufficiency to above 70% in 2024, from 30% in 2020, and provide additional margin support from this year onwards. Also, GFLi's new projects in Qinghai are well on track; we expect it would support market share expansion. We estimate GFLi's sales volume growth at a 33% CAGR during 2021 to 2023 after a 24% CAGR during 2019 to 2021.

Upgrade earnings estimate. Amid the continuous lithium price uptrend, we raise our FY22F/FY23F estimate by 11%/37% on our new GP assumptions. GFLi's core net earnings growth is estimated at an 48% CAGR during 2021 to 2023.

Valuation:

Our H-share TP of HK\$230 is based on a 13x FY22F PB, supported by ROE improvement to >26% by 2023 from <11% in 2020. Our A-share TP of RMB230 is based on a 15x PB, in line with domestic peers, and at the high end of its historical range, which is consistent with the historical price spread to the Hshare.

Where we differ:

We believe GFLi's smooth progress of market share expansion support above market earnings CAGR during 2021 and 2023.

Key Risks to Our View:

A market collapse on an unexpected shift in market dynamics and/or geopolitical/ China policies swing.

At A Glance

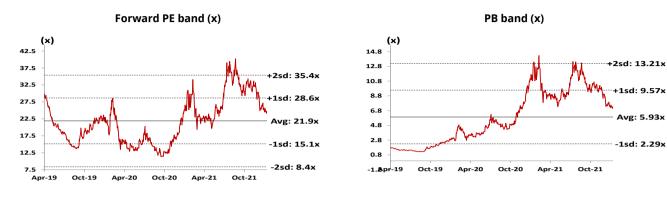
ALA GIANCE	
Issued Capital - H shares (m shs)	288
- Non H shrs (m shs)	1,149
H shs as a % of Total	20
Total Mkt Cap (HK\$m/US\$m)	226,689 / 29,114
Major Shareholders (%)	
Li (Liang Bin)	23.5
Wang (Xiao Shen)	8.8
Major H Shareholders (As % of H shares)	
Samsung Asset Management Co., Ltd.	8.6
H Shares-Free Float (%)	91.4
3m Avg. Daily Val. (US\$m)	65.67
GICS Industry: Materials / Metals & Mining	







Historical PE and PB band



Source: Thomson Reuters, DBS HK



FY Dec	2019A	2020A	2021F	2022F	2023F
Sales volume for lithium metal and compound (LCE tonne)	45,586.5	63,013.0	79,102.4	100,005.3	122,659.3
ASP for lithium metal and compound (Rmb/tonne)	107,698.4	81,271.5	121,907.3	158,479.5	158,479.5
GPM for lithium metal and compound (%) <i>Source: Company, DBS HK</i>	23.6	21.2	41.3	43.6	43.8

Segmental Breakdown (RMB m)

FY Dec	2019A	2020A	2021F	2022F	2023F
Revenues (RMB m)					
Lithium compound	4,152	3,854	9,643	15,849	19,439
Lithium metal	603	1,267	251	502	502
Others	491	367	471	471	471
Total	5,246	5,489	10,366	16,823	20,413
Gross profit (RMB m)					
Lithium compound	1,092	890	4,147	7,132	8,748
Lithium metal	79	205	43	95	95
Others	68	67	90	104	104
Total	1,239	1,163	4,279	7,331	8,947
Gross profit Margins (%)					
Lithium compound	26.3	23.1	43.0	45.0	45.0
Lithium metal	13.1	16.2	17.0	19.0	19.0
Others	13.8	18.3	19.0	22.0	22.0
Total	23.6	21.2	41.3	43.6	43.8

Source: Company, DBS HK



FY Dec	2019A	2020A	2021F	2022F	2023F
Revenue	5,246	5,489	10,366	16,823	20,413
Cost of Goods Sold	(4,009)	(4,327)	(6,087)	(9,492)	(11,466)
Gross Profit	1,238	1,162	4,279	7,331	8,947
Other Opng (Exp)/Inc	(432)	(377)	(711)	(1,154)	(1,400)
Operating Profit	806	785	3,568	6,177	7,546
Other Non Opg (Exp)/Inc	(277)	601	3,200	1,000	1,000
Associates & JV Inc	153	8	100	100	1,100
Net Interest (Exp)/Inc	(205)	(266)	(203)	(305)	(354
Dividend Income	0	0	0	0	(
Exceptional Gain/(Loss)	0	0	0	0	(
Pre-tax Profit	477	1,128	6,665	6,972	9,293
Tax	(121)	(64)	(1,000)	(1,046)	(1,394
Minority Interest	5	(39)	(507)	(531)	(707
Preference Dividend	0	0	0	0	(
Net Profit	361	1,025	5,158	5,396	7,191
Net Profit before Except.	361	1,025	5,158	5,396	7,191
EBITDA	916	1,673	7,526	8,370	10,971
Growth					
Revenue Gth (%)	7.3	4.6	88.9	62.3	21.3
EBITDA Gth (%)	(47.1)	82.6	349.9	11.2	31.1
Opg Profit Gth (%)	(38.5)	(2.6)	354.4	73.1	22.2
Net Profit Gth (%)	(73.0)	184.2	403.1	4.6	33.3
Margins & Ratio					
Gross Margins (%)	23.6	21.2	41.3	43.6	43.8
Opg Profit Margin (%)	15.4	14.3	34.4	36.7	37.0
Net Profit Margin (%)	6.9	18.7	49.8	32.1	35.2
ROAE (%)	4.4	10.8	35.4	26.9	30.1
ROA (%)	2.6	5.7	18.3	14.0	15.8
ROCE (%)	5.0	4.5	11.5	14.4	15.0
Div Payout Ratio (%)	107.5	39.7	39.7	39.7	39.7
Net Interest Cover (x)	3.9	3.0	17.6	20.3	21.3
Source: Company, DBS HK					

Source: Company, DBS HK



FY Dec	2019A	2020A	2021F	2022F	2023F
Net Fixed Assets	3.008	6,102	10.444	17,351	21,026
Invts in Associates & IVs	3,680	1,636	1,636	1,636	1,636
Other LT Assets	1,809	5,507	5,507	5,507	5,507
Cash & ST Invts	1,700	2,176	8,450	6,767	6,684
Inventory	2,334	2,215	3,199	4,989	6,027
Debtors	1,159	1,878	2,665	4,000	4,742
Other Current Assets	525	2,507	2,507	2,507	2,507
Total Assets	14,213	22,020	34,409	42,757	48,129
ST Debt	1,969	2,288	3,787	5,286	5,286
Creditors	559	870	1,005	1,568	1,894
Other Current Liab	731	919	919	919	919
LT Debt	2,219	3,816	6,317	8,818	8,818
Other LT Liabilities	324	708	708	708	708
Shareholder's Equity	8,355	10,706	18,452	21,707	26,046
Minority Interests	55	2,713	3,220	3,751	4,458
Total Cap. & Liab.	14,213	22,020	34,409	42,757	48,129
Non-Cash Wkg. Capital	2,727	4.809	6,446	9.009	10,463
Net Cash/(Debt)	(2,488)	(3,929)	(1,654)	(7,337)	(7,420
Debtors Turn (avg days)	32.9	33.9	33.9	33.9	33.9
Creditors Turn (avg days)	43.4	44.4	44.4	44.4	44.4
Inventory Turn (avg days)	33.4	34.4	34.4	34.4	34.4
Asset Turnover (x)	0.4	0.3	0.4	0.4	0.4
Current Ratio (x)	1.8	2.2	2.9	2.3	2.5
	0.9	1.0	1.9	1.4	1.4
Quick Ratio (x)				0.0	0.7
	0.3	0.3	0.1	0.3	0.2
Quick Ratio (x) Net Debt/Equity (X) Net Debt/Equity ex MI (X)	0.3 0.3	0.3 0.4	0.1 0.1	0.3 0.3	
Net Debt/Equity (X)					0.2 0.3 35.5
Net Debt/Equity (X) Net Debt/Equity ex MI (X)	0.3	0.4	0.1	0.3	0.3

Cash Flow Statement (RMB m)

FY Dec	2019A	2020A	2021F	2022F	2023F
Pre-Tax Profit	477	1,128	6,665	6,972	9,293
Dep. & Amort.	234	279	658	1,093	1,325
Tax Paid	(337)	9	(1,202)	(1,350)	(1,748)
Assoc. & JV Inc/(loss)	(212)	(81)	(100)	(100)	(1,100)
(Pft)/ Loss on disposal of FAs	0	0	0	0	0
Chg in Wkg.Cap.	(163)	(197)	(1,637)	(2,562)	(1,454)
Other Operating CF	670	(392)	303	405	1,454
Net Operating CF	669	746	4,686	4,458	7,770
Capital Exp.(net)	(758)	(1,149)	(5,000)	(8,000)	(5,000)
Other Invts.(net)	434	1,001	0	0	0
Invts in Assoc. & JV	(1,044)	(3,137)	0	0	0
Div from Assoc & JV	0	0	0	0	0
Other Investing CF	(1,454)	(670)	0	0	0
Net Investing CF	(2,823)	(3,955)	(5,000)	(8,000)	(5,000)
Div Paid	(388)	(388)	(2,046)	(2,141)	(2,853)
Chg in Gross Debt	1,322	2,643	4,000	4,000	0
Capital Issues	0	0	0	0	0
Other Financing CF	(693)	1,389	4,635	0	0
Net Financing CF	241	3,645	6,589	1,859	(2,853)
Currency Adjustments	0	0	0	0	0
Chg in Cash	(1,913)	436	6,275	(1,683)	(84)
Opg CFPS (RMB)	0.64	0.70	4.40	4.88	6.42
Free CFPS (RMB)	(0.07)	(0.30)	(0.22)	(2.46)	1.93

Source: Company, DBS HK



Company Background

Ganfeng Lithium (GFLi) is the world's third largest and China's largest lithium compound producer. It is also the world's largest lithium metal supplier. In 2020, the company's sales volume of lithium products was 63,013 tons, based on lithium carbonate equivalent (LCE) ton. Its shares are dual-listed on the Hong Kong Stock Exchange (October 2018) and Shenzhen Stock Exchange (August 2010).

H Share - Target Price & Ratings History



S.N	o. Date	Closing Price	12-mth Target Price	Rating
1:	1-Mar-21	HK\$111.80	HK\$120.00	Hold
2:	10-Mar-21	HK\$87.25	HK\$120	Buy
3:	8-Apr-21	HK\$101.00	HK\$120.00	Buy
4:	13-Aug-21	HK\$161.00	HK\$185.00	Buy
5:	9-Sep-21	HK\$158.10	HK\$220	Buy
6:	15-Nov-21	HK\$142.00	HK\$230.00	Buy

Source: DBS HK Analyst: Duncan CHAN

A Share - Target Price & Ratings History



S.N	o. Date	Closing Price	12-mth Target Price	Rating
1:	1-Mar-21	RMB107.80	RMB120.00	Hold
2:	10-Mar-21	RMB91.45	RMB120	Buy
3:	8-Apr-21	RMB98.55	RMB120.00	Buy
4:	13-Aug-21	RMB179.86	RMB200.00	Buy
5:	9-Sep-21	RMB185.66	RMB230	Buy
6:	15-Nov-21	RMB159.31	RMB230.00	Buy

Source: DBS HK Analyst: Duncan CHAN



DBS HK recommendations are based on an Absolute Total Return* Rating system, defined as follows:

STRONG BUY (>20% total return over the next 3 months, with identifiable share price catalysts within this time frame)

BUY (>15% total return over the next 12 months for small caps, >10% for large caps)

HOLD (-10% to +15% total return over the next 12 months for small caps, -10% to +10% for large caps)

FULLY VALUED (negative total return, i.e., > -10% over the next 12 months)

SELL (negative total return of > -20% over the next 3 months, with identifiable share price catalysts within this time frame)

*Share price appreciation + dividends

Completed Date: 25 Jan 2022 09:15:38 (HKT) Dissemination Date: 25 Jan 2022 11:17:00 (HKT)

Sources for all charts and tables are DBS HK unless otherwise specified.

GENERAL DISCLOSURE/DISCLAIMER

This report is prepared by DBS Bank (Hong Kong) Limited ("DBS HK"). This report is solely intended for the clients of DBS Bank Ltd., DBS HK, DBS Vickers (Hong Kong) Limited ("DBSV HK"), and DBS Vickers Securities (Singapore) Pte Ltd. ("DBSVS"), its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBS HK.

The research set out in this report is based on information obtained from sources believed to be reliable, but we (which collectively refers to DBS Bank Ltd., DBS HK, DBSV HK, DBSVS, its respective connected and associated corporations, affiliates and their respective directors, officers, employees and agents (collectively, the "**DBS Group**") have not conducted due diligence on any of the companies, verified any information or sources or taken into account any other factors which we may consider to be relevant or appropriate in preparing the research. Accordingly, we do not make any representation or warranty as to the accuracy, completeness or correctness of the research set out in this report. Opinions expressed are subject to change without notice. This research is prepared for general circulation. Any recommendation contained in this document does not have regard to the specific investment objectives, financial situation and the particular needs of any specific addressee. This document is for the information of addressees only and is not to be taken in substitution for the exercise of judgement by addressees, who should obtain separate independent legal or financial advice. The DBS Group accepts no liability whatsoever for any direct, indirect and/or consequential loss (including any claims for loss of profit) arising from any use of and/or reliance upon this document and/or further communication given in relation to this document. This document is not to be construed as an offer or a solicitation of an offer to buy or sell any securities. The DBS Group, along with its affiliates and/or persons associated with any of them may from time to time have interests in the securities mentioned in this document. The DBS Group, may have positions in, and may effect transactions in securities mentioned herein and may also perform or seek to perform broking, investment banking and other banking services for these companies.

Any valuations, opinions, estimates, forecasts, ratings or risk assessments herein constitutes a judgment as of the date of this report, and there can be no assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments. The information in this document is subject to change without notice, its accuracy is not guaranteed, it may be incomplete or condensed, it may not contain all material information concerning the company (or companies) referred to in this report and the DBS Group is under no obligation to update the information in this report.

This publication has not been reviewed or authorized by any regulatory authority in Singapore, Hong Kong or elsewhere. There is no planned schedule or frequency for updating research publication relating to any issuer.

The valuations, opinions, estimates, forecasts, ratings or risk assessments described in this report were based upon a number of estimates and assumptions and are inherently subject to significant uncertainties and contingencies. It can be expected that one or more of the estimates on which the valuations, opinions, estimates, forecasts, ratings or risk assessments were based will not materialize or will vary significantly from actual results. Therefore, the inclusion of the valuations, opinions, estimates, forecasts, ratings or risk assessments described herein IS NOT TO BE RELIED UPON as a representation and/or warranty by the DBS Group (and/or any persons associated with the aforesaid entities), that:

- (a) such valuations, opinions, estimates, forecasts, ratings or risk assessments or their underlying assumptions will be achieved, and
- (b) there is any assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments stated therein.

Please contact the primary analyst for valuation methodologies and assumptions associated with the covered companies or price targets. Any assumptions made in this report that refers to commodities, are for the purposes of making forecasts for the company (or companies) mentioned herein. They are not to be construed as recommendations to trade in the physical commodity or in the futures contract relating to the commodity referred to in this report.

DBS Vickers Securities (USA) Inc ("DBSVUSA"), a US-registered broker-dealer, does not have its own investment banking or research department, has not participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months and does not engage in market-making.



Neither DBS Bank Ltd nor DBS HK market makes in equity securities of the issuer(s) or company(ies) mentioned in this Research Report.

ANALYST CERTIFICATION

The research analyst(s) primarily responsible for the content of this research report, in part or in whole, certifies that the views about the companies and their securities expressed in this report accurately reflect his/her personal views. The analyst(s) also certifies that no part of his/her compensation was, is, or will be, directly or indirectly, related to specific recommendations or views expressed in the report. The research analyst (s) primarily responsible for the content of this research report, in part or in whole, certifies that he or his associate¹ does not serve as an officer of the issuer or the new listing applicant (which includes in the case of a real estate investment trust, an officer of the entity who is responsible for the management of the issuer or the new listing applicant) and the research analyst(s) primarily responsible for the content of this research analyst reviews. DBS Group has procedures in place to eliminate, avoid and manage any potential conflicts of interests that may arise in connection with the production of research reports. The research analyst(s) responsible for this research analyst(s) responsible for the investment banking function of the DBS Group and procedures are in place to ensure that confidential information held by either the research or investment banking function of the DBS Group.

COMPANY-SPECIFIC / REGULATORY DISCLOSURES

1. DBS Bank Ltd, DBS HK, DBSVS or their subsidiaries and/or other affiliates have a proprietary position in Gangeng Lithium - H (1772 HK) recommended in this report as of 20 Jan 2022.

2. Compensation for investment banking services:

DBSVUSA does not have its own investment banking or research department, nor has it participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months. Any US persons wishing to obtain further information, including any clarification on disclosures in this disclaimer, or to effect a transaction in any security discussed in this document should contact DBSVUSA exclusively.

3. Disclosure of previous investment recommendation produced:

DBS Bank Ltd, DBSVS, DBS HK, their subsidiaries and/or other affiliates of DBSVUSA may have published other investment recommendations in respect of the same securities / instruments recommended in this research report during the preceding 12 months. Please contact the primary analyst listed on page 1 of this report to view previous investment recommendations published by DBS Bank Ltd, DBS HK, DBSVS, their subsidiaries and/or other affiliates of DBSVUSA in the preceding 12 months.

¹ An associate is defined as (i) the spouse, or any minor child (natural or adopted) or minor step-child, of the analyst; (ii) the trustee of a trust of which the analyst, his spouse, minor child (natural or adopted) or minor step-child, is a beneficiary or discretionary object; or (iii) another person accustomed or obliged to act in accordance with the directions or instructions of the analyst.

² Financial interest is defined as interests that are commonly known financial interest, such as investment in the securities in respect of an issuer or a new listing applicant, or financial accommodation arrangement between the issuer or the new listing applicant and the firm or analysis. This term does not include commercial lending conducted at arm's length, or investments in any collective investment scheme other than an issuer or new listing applicant notwithstanding the fact that the scheme has investments in securities in respect of an issuer or a new listing applicant.



RESTRICTIONS ON DISTRIBUTION

	DISTRIBUTION
General	This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation.
Australia	This report is being distributed in Australia by DBS Bank Ltd, DBSVS or DBSV HK. DBS Bank Ltd holds Australian Financial Services Licence no. 475946.
	DBS Bank Ltd, DBSVS and DBSV HK are exempted from the requirement to hold an Australian Financial Services Licence under the Corporation Act 2001 ("CA") in respect of financial services provided to the recipients. Both DBS Bank Ltd and DBSVS are regulated by the Monetary Authority of Singapore under the laws of Singapore, and DBSV HK is regulated by the Hong Kong Securities and Futures Commission under the laws of Hong Kong, which differ from Australian laws.
	Distribution of this report is intended only for "wholesale investors" within the meaning of the CA.
Hong Kong	This report is being distributed in Hong Kong by DBS Bank Ltd, DBS Bank (Hong Kong) Limited and DBS Vickers (Hong Kong) Limited, all of which are registered with or licensed by the Hong Kong Securities and Futures Commission to carry out the regulated activity of advising on securities. DBS Bank Ltd., Hong Kong Branch is a limited liability company incorporated in Singapore.
Indonesia	This report is being distributed in Indonesia by PT DBS Vickers Sekuritas Indonesia.
Malaysia	This report is distributed in Malaysia by AllianceDBS Research Sdn Bhd ("ADBSR"). Recipients of this report, received from ADBSR are to contact the undersigned at 603-2604 3333 in respect of any matters arising from or in connection with this report. In addition to the General Disclosure/Disclaimer found at the preceding page, recipients of this report are advised that ADBSR (the preparer of this report), its holding company Alliance Investment Bank Berhad, their respective connected and associated corporations, affiliates, their directors, officers, employees, agents and parties related or associated with any of them may have positions in, and may effect transactions in the securities mentioned herein and may also perform or seek to perform broking, investment banking/corporate advisory and other services for the subject companies. They may also have received compensation and/or seek to obtain compensation for broking, investment banking/corporate advisory and other services from the subject companies.
	- Aspt
	Wong Ming Tek, Executive Director, ADBSR
Singapore	This report is distributed in Singapore by DBS Bank Ltd (Company Regn. No. 196800306E) or DBSVS (Company Regn No. 198600294G), both of which are Exempt Financial Advisers as defined in the Financial Advisers Act and regulated by the Monetary Authority of Singapore. DBS Bank Ltd and/or DBSVS, 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, DBS Bank Ltd accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact DBS Bank Ltd at 6327 2288 for matters arising from, or in connection with the report.
Thailand	This report is being distributed in Thailand by DBS Vickers Securities (Thailand) Co Ltd.
United	This report is produced by DBS HK which is regulated by the Hong Kong Monetary Authority
Kingdom	This report is disseminated in the United Kingdom by DBS Vickers Securities (UK) Ltd ("DBSVUK"). DBSVUK is authorised and regulated by the Financial Conduct Authority in the United Kingdom.
	In respect of the United Kingdom, this report is solely intended for the clients of DBSVUK, its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBSVUK. This communication is directed at persons having professional experience in matters relating to investments. Any investment activity following from this communication will only be engaged in with such persons. Persons who do not have professional experience in matters relating to investments.
Dubai International Financial Centre	This research report is being distributed by DBS Bank Ltd., (DIFC Branch) having its office at units 608-610, 6th Floor, Gate Precinct Building 5, PO Box 506538, DIFC, Dubai, United Arab Emirates. DBS Bank Ltd., (DIFC Branch) is regulated by The Dubai Financial Services Authority. This research report is intended only for professional clients (as defined in the DFSA rulebook) and no other person may act upon it.



United Arab Emirates	This report is provided by DBS Bank Ltd (Company Regn. No. 196800306E) which is an Exempt Financial Adviser as defined in the Financial Advisers Act and regulated by the Monetary Authority of Singapore. This report is for information purposes only and should not be relied upon or acted on by the recipient or considered as a solicitation or inducement to buy or sell any financial product. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situation, or needs of individual clients. You should contact your relationship manager or investment adviser if you need advice on the merits of buying, selling or holding a particular investment. You should note that the information in this report may be out of date and it is not represented or warranted to be accurate, timely or complete. This report or any portion thereof may not be reprinted, sold or redistributed without our written consent.
United States	This report was prepared by DBS HK. DBSVUSA did not participate in its preparation. The research analyst(s) named on this report are not registered as research analysts with FINRA and are not associated persons of DBSVUSA. The research analyst(s) are not subject to FINRA Rule 2241 restrictions on analyst compensation, communications with a subject company, public appearances and trading securities held by a research analyst. This report is being distributed in the United States by DBSVUSA, which accepts responsibility for its contents. This report may only be distributed to Major U.S. Institutional Investors (as defined in SEC Rule 15a-6) and to such other institutional investors and qualified persons as DBSVUSA may authorize. Any U.S. person receiving this report who wishes to effect transactions in any securities referred to herein should contact DBSVUSA directly and not its affiliate.
Other jurisdictions	In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is intended only for qualified, professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

DBS Bank (Hong Kong) Limited

 $13\,^{\rm th}$ Floor One Island East, 18 Westlands Road, Quarry Bay, Hong Kong

Tel: (852) 3668-4181, Fax: (852) 2521-1812



DBS Regional Research Offices

HONG KONG DBS Bank (Hong Kong) Ltd Contact: Carol Wu

13th Floor One Island East, 18 Westlands Road, Quarry Bay, Hong Kong Tel: 852 3668 4181 Fax: 852 2521 1812 e-mail: dbsvhk@dbs.com

INDONESIA PT DBS Vickers Sekuritas (Indonesia) Contact: Maynard Priajaya Arif

DBS Bank Tower Ciputra World 1, 32/F Jl. Prof. Dr. Satrio Kav. 3-5 Jakarta 12940, Indonesia Tel: 62 21 3003 4900 Fax: 6221 3003 4943 e-mail: indonesiaresearch@dbs.com

MALAYSIA AllianceDBS Research Sdn Bhd Contact: Wong Ming Tek (128540 U)

19th Floor, Menara Multi-Purpose, Capital Square, 8 Jalan Munshi Abdullah 50100, Kuala Lumpur, Malaysia. Tel.: 603 2604 3333 Fax: 603 2604 3921 e-mail: general@alliancedbs.com Co. Regn No. 198401015984 (128540-U)

THAILAND DBS Vickers Securities (Thailand) Co Ltd

DBS Vickers Securities (Thailand) Co Ltd Contact: Chanpen Sirithanarattanakul 989 Siam Piwat Tower Building,

9th, 14th-15th Floor Rama 1 Road, Pathumwan, Bangkok Thailand 10330 Tel. 66 2 857 7831 Fax: 66 2 658 1269 e-mail: research@th.dbs.com Company Regn. No 0105539127012 Securities and Exchange Commission, Thailand

SINGAPORE DBS Bank Ltd Contact: Janice Chua

12 Marina Boulevard, Marina Bay Financial Centre Tower 3 Singapore 018982 Tel: 65 6878 8888 e-mail: groupresearch@dbs.com Company Regn. No. 196800306E