

Utilities / China 22 April 2013

ENN Energy 2688 HK

Target (HKD): **48.50** → **48.50**

A week in the US

Dave Dai, CFA (852) 2848 4068 dave.dai@hk.daiwacm.com

Gary Zhou (852) 2773 8535 gary.zhou@hk.daiwacm.com

- We organised an NDR trip with ENN in the US
- FAQs by investors covered: gas price reform, 1Q13 gas demand and prospects of LNG
- Our investment thesis is intact; reiterate Buy

What's new

Investors' common concerns were addressed during our roadshow with ENN Energy (ENN) in the US in the week of 15-19 April.

What's the impact

Gas price reform: Gas price reform was a common concern among investors. ENN's management believes that higher import prices will push China to move the reform beyond Guangdong and Guangxi (piloted in late 2011), but the timing remains highly uncertain. ENN sees a low probability of a full-scale reform taking place during 2013 as: 1) China's economic recovery seems slower than expected, which does not bode well for a large increase in energy input costs, and 2) the government has been promoting clean energy including natural gas to tackle the serious environmental issues, so raising gas prices aggressively could reduce the competitiveness with other fuels. Our base case assumes a 20% increase in overall gas prices across the country in

Upside: **13.5%**

19 Apr price (HKD): 42.75

2013, and if ENN is correct about the later-than-expected timing, it could improve market sentiment towards the city gas sector amid fewer worries about a margin squeeze. However, we reiterate our view that ENN should maintain its dollar margin given its large exposure to commercial and industrial customers (73% of its sales volume for 2013E on our forecast) with proven pass-through ability. Also, ENN said that it has 26 city projects locked in with automatic pass-through agreements for all customers.

1Q13 gas demand: Investors also asked about the impact of weakerthan-expected GDP and industrial output in 1Q13. While the official natural gas consumption for the country in March has not been released (up 14.7% YoY for the first two months), ENN said its gas sales remained robust during 1Q13 and maintains its guidance of 25% YoY growth in natural gas sales volume and 20% YoY in core earnings for 2013.

LNG stations: Investors were interested in how long ENN's organic business growth could last with liquefied natural gas (LNG) refuelling stations growing exponentially. ENN plans to add up to 500 LNG refuelling stations (of which 86 were in operation at end-2012) by 2015. Management expects a meaningful profit contribution from LNG stations to start in 2015. Compared with compressed natural gas (CNG) stations, LNG has a slightly longer payback period (3-5 years), but more volume density and profit per station. Average capex per LNG station is about CNY5-8m. Besides LNG, ENN will focus considerably on opportunities with industrial parks to boost its sustainable customer base.

What we recommend

5 Sell

1 Buy (unchanged)

OutperformHold

Underperform

Our positive investment thesis on ENN remains intact after the trip and despite its strong YTD share price performance (ENN has outperformed the HSCEI Index by 34%). Our DCFbased six-month target price remains at HKD48.50. The key risk to our call would be lower-than-expected gas sales volume.

How we differ

Our 2013-15 net profit forecasts are 8-10% higher than the Bloomberg consensus, due mostly to our more bullish view on gas volume.

Forecast revisions (%)

	(,,,)		
Year to 31 Dec	13E	14E	15E
Revenue change	-	-	-
Net profit change	-	-	-
Core EPS (FD) change	-	-	-

Source: Daiwa forecasts

Share price performance



12-month range	26.40-44.60
Market cap (USDbn)	5.87
3m avg daily turnover (USDm)	13.82
Shares outstanding (m)	1,066
Major shareholder	ENN Group (31.2%)

Financial summary (CNY)

Year to 31 Dec	13E	14E	15E
Revenue (m)	22,371	28,568	34,193
Operating profit (m)	3,540	4,326	4,995
Net profit (m)	2,008	2,452	2,908
Core EPS (fully-diluted)	1.884	2.299	2.728
EPS change (%)	36.5	22.1	18.6
Daiwa vs Cons. EPS (%)	7.8	9.9	10.1
PER (x)	18.1	14.8	12.5
Dividend yield (%)	1.4	1.7	2.4
DPS	0.471	0.575	0.818
PBR (x)	3.6	3.0	2.6
EV/EBITDA (x)	9.8	8.0	6.6
ROE (%)	21.4	22.1	22.3

Source: FactSet, Daiwa forecasts



ENN: revenue mix (CNYm)



Source: Company, Daiwa forecasts

ENN: long-term net profit trend



Source: Company, Daiwa forecasts

ENN: 12-month forward PER history



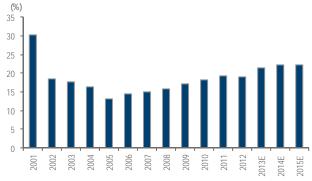
Source: Bloomberg, Daiwa forecasts

ENN: gas sales volume mix (cubic metres)



Source: Company, Daiwa forecasts

ENN: long-term ROE trend



Source: Company, Daiwa forecasts

China City Gas Sector: 12-month forward PER history



Source: Bloomberg, Daiwa forecasts



Financial summary

Year to 31 Dec	2008	2009	2010	2011	2012	2013E	2014E	2015E
Gas sales volume (m cm)	2,889	2,940	4,149	5,373	6,460	8,269	10,481	12,909
Gas ASP - retail (Rmb/cm)	2.5	2.5	2.6	2.7	2.8	3.0	3.3	3.3
Gas ASP - CNG (Rmb/cm)	2.3	2.5	2.7	2.9	2.2	3.0	3.3	3.4
Gas purchase cost (Rmb/cm)	1.7	1.7	1.8	1.9	2.0	2.2	2.4	2.4
Revenue contribution – connection fee (%)	29.3	30.4	27.2	22.7	20.2	17.0	14.6	11.7
Gas penetration rate for residential households (%)	27.0	32.4	36.0	38.1	44.2	50.0	57.3	64.5
Profit and loss (CNYm)								
Year to 31 Dec	2008	2009	2010	2011	2012	2013E	2014E	2015E
Sales of piped gas	3,095	4,078	6,633	9,152	11,547	14,827	18,410	21,487
Gas connection	2,422	2,554	3,049	3,415	3,633	3,807	4,178	4,015
Other Revenue	2,749	1,782	1,534	2,501	2,847	3,738	5,979	8,691
Total Revenue	8,266	8,413	11,215	15,068	18,027	22,371	28,568	34,193
Other income	184	84	162	96	20	66	66	66
COGS	(6,019)	(5,873)	(8,203)	(11,166)	(13,183)	(16,850)	(22,074)	(26,887)
SG&A	(847)	(625)	(929)	(1,242)	(1,443)	(1,440)	(1,558)	(1,666)
Other op.expenses	(313)	(391)	(453)	(421)	(528)	(608)	(676)	(711)
Operating profit	1,270	1,608	1,792	2,335	2,893	3,540	4,326	4,995
Net-interest inc./(exp.)	(351)	(308)	(284)	(389)	(470)	(291)	(270)	(173)
Assoc/forex/extraord./others Pre-tax profit	211 1,131	83 1,383	303 1,811	381 2,327	429 2,852	451 3,700	461 4,516	536 5, 35 8
Tax	(260)	(304)	(410)	(660)	(859)	(999)	(1,219)	(1,447)
Min. int./pref. div./others	(200)	(276)	(388)	(414)	(511)	(692)	(845)	(1,003)
Net profit (reported)	631	803	1,013	1,253	1,482	2,008	2,452	2,908
Net profit (adjusted)	631	803	1,013	1,253	1,482	2,008	2,452	2,908
EPS (reported)(CNY)	0.625	0.775	0.965	1.190	1.390	1.884	2.299	2.728
EPS (adjusted)(CNY)	0.625	0.775	0.965	1.190	1.390	1.884	2.299	2.728
EPS (adjusted fully-diluted)(CNY)	0.614	0.772	0.954	1.180	1.380	1.884	2.299	2.728
DPS (CNY)	0.154	0.192	0.286	0.303	0.345	0.471	0.575	0.818
EBIT	1,270	1,608	1,792	2,335	2,893	3,540	4,326	4,995
EBITDA	1,583	1,999	2,245	2,756	3,422	4,148	5,002	5,706
Cash flow (CNYm)	2000	2000	2010	2011	2012	20125	20145	20155
Year to 31 Dec Profit before tax	2008 1,131	2009 1,383	2010 1,811	2011 2,327	2012 2,852	2013E	2014E 4,516	2015E 5,358
Depreciation and amortisation	313	391	453	421	528	3,700 608	4,516	5,356
Tax paid	(260)	(304)	(410)	(660)	(859)	(999)	(1,219)	(1,447)
Change in working capital	55	910	902	416	930	734	188	805
Other operational CF items	23	198	93	(242)	(602)	31	94	15
Cash flow from operations	1,261	2,578	2,849	2,262	2,849	4,074	4,255	5,443
Capex	(1,418)	(1,552)	(2,497)	(1,889)	(2,521)	(3,100)	(2,000)	(1,000
Net (acquisitions)/disposals	(180)	(289)	(509)	(578)	(642)	0	0	(
Other investing CF items	111	(144)	16	(200)	(356)	0	0	(
Cash flow from investing	(1,487)	(1,985)	(2,991)	(2,667)	(3,519)	(3,100)	(2,000)	(1,000)
Change in debt	349	481	378	(723)	576	(2,072)	(164)	(1,172
Net share issues/(repurchases)	0	237	0	83	496	0	0	(
Dividends paid	(158)	(200)	(304)	(322)	(371)	(502)	(613)	(873
Other financing CF items	47	258	206	5,215	490	3,200	0	(
Cash flow from financing	238	776	280	4,254	1,191	626	(777)	(2,044
Forex effect/others	0	0	0	0	0	0	0	(
Change in cash	12	1,369	139	3,848	521	1,600	1,478	2,39

Source: FactSet, Daiwa forecasts



Balance sheet (CNYm)

As at 31 Dec	2008	2009	2010	2011	2012	2013E	2014E	2015E
Cash & short-term investment	1,725	2,713	2,851	6,024	6,472	7,477	9,025	11,277
Inventory	254	286	249	272	311	398	521	634
Accounts receivable	1,431	1,208	1,356	1,837	2,062	2,559	3,268	3,911
Other current assets	943	547	623	811	842	885	1,805	2,030
Total current assets	4,354	4,754	5,079	8,944	9,687	11,319	14,618	17,852
Fixed assets	7,855	9,028	10,800	13,073	15,099	17,624	18,981	19,603
Goodwill & intangibles	634	622	894	1,247	1,434	1,181	1,147	1,114
Other non-current assets	1,731	2,231	2,867	3,624	4,673	4,673	4,673	4,673
Total assets	14,574	16,635	19,640	26,888	30,893	34,797	39,419	43,242
Short-term debt	1,869	1,484	2,379	3,213	3,945	1,208	1,208	1,208
Accounts payable	2,752	2,772	3,573	4,172	4,894	6,255	8,195	9,981
Other current liabilities	807	1,108	1,536	2,135	2,775	2,823	2,898	2,975
Total current liabilities	5,428	5,364	7,488	9,520	11,614	10,286	12,300	14,164
Long-term debt	3,534	4,400	3,884	7,459	7,297	11,162	10,998	9,826
Other non-current liabilities	171	444	728	1,069	1,312	480	569	661
Total liabilities	9,133	10,208	12,100	18,048	20,223	21,928	23,867	24,651
Share capital	106	110	110	110	113	113	113	113
Reserves/R.E./others	4,149	5,007	5,922	6,936	8,540	10,046	11,885	13,921
Shareholders' equity	4,256	5,117	6,031	7,046	8,653	10,159	11,998	14,034
Minority interests	1,186	1,310	1,508	1,794	2,017	2,709	3,555	4,558
Total equity & liabilities	14,574	16,635	19,640	26,888	30,893	34,797	39,419	43,242
EV	40,083	39,412	39,341	40,285	39,988	40,803	39,936	37,515
Net debt/(cash)	3,678	3,172	3,412	4,648	4,770	4,893	3,180	(243)
BVPS (CNY)	4.217	4.939	5.745	6.692	8.116	9.529	11.253	13.163
Key ratios (%)								
Year to 31 Dec	2008	2009	2010	2011	2012	2013E	2014E	2015E
Sales (YoY)	43.6	1.8	33.3	34.4	19.6	2013	2014L	19.7
EBITDA (YoY)	28.4	26.2	12.3	22.7	24.2	24.1	20.6	14.1
Operating profit (YoY)	28.4	26.6	12.3	30.3	24.2	21.2	20.0	14.1
Net profit (YoY)	20.4	20.0	26.2	23.7	18.3	35.5	22.2	18.6
Core EPS (fully-diluted) (YoY)	24.3	27.3	20.2	23.7	16.9	36.5	22.1	18.6
Gross-profit margin	27.2	30.2	26.9	25.9	26.9	24.7	22.1	21.4
EBITDA margin	19.2	23.8	20.9	18.3	19.0	18.5	17.5	16.7
Operating-profit margin	19.2	19.1	16.0	16.5	19.0	16.5	17.5	14.6
Net profit margin	7.6	9.5	9.0	8.3	8.2	9.0	8.6	8.5
ROAE	15.8	17.1	18.2	19.2	18.9	21.4	22.1	22.3
ROAL	4.7	5.1	5.6	5.4	5.1	6.1	6.6	7.0
ROCE	12.4	13.9	13.7	14.0	14.0	15.0	16.3	17.4
ROIC	12.4	13.4	13.7	14.0	14.0	15.6	10.3	17.4
Net debt to equity	86.4	62.0	56.6	66.0	55.1	48.2	26.5	net cash
Effective tax rate	23.0	22.0	22.6	28.4	30.1	27.0	20.3	27.0
Accounts receivable (days)	55.2	57.3	41.7	28.4	30.1	37.7	37.2	38.3
Current ratio (x)	0.8	57.3 0.9	41.7	0.9	39.5	<u> </u>	37.2	38.3
	3.6	5.2				1.1	1.2	
Net interest cover (x)	24.6	24.8	6.3 29.7	6.0 25.5	6.2	25.0	25.0	28.9
Net dividend payout					24.8	25.0		30.0
Free cash flow yield	n.a.	2.8	1.0	1.0	0.9	Z.1	6.2	12.2

Source: FactSet, Daiwa forecasts

Company profile

Founded in 1989, ENN Energy is engaged principally in the investing in, and the operation and management of, gas-pipeline infrastructure and the sale and the distribution of piped and bottled gas in more than 80 cities in the PRC.



Disclaimer

This publication is produced by Daiwa Securities Group Inc. and/or its non-U.S. affiliates, and distributed by Daiwa Securities Group Inc. and/or its non-U.S. affiliates, except to the extent expressly provided herein. This publication and the contents hereof are intended for information purposes only, and may be subject to change without further notice. Any use, disclosure, distribution, dissemination, copying, printing or reliance on this publication for any other purpose without our prior consent or approval is strictly prohibited. Neither Daiwa Securities Group Inc. nor any of its respective parent, holding, subsidiaries or affiliates, nor any of its respective directors, officers, servants and employees, represent nor warrant the accuracy or completeness of the information contained herein or as to the existence of other facts which might be significant, and will not accept any responsibility or liability whatsoever for any use of or reliance upon this publication or any of the contents hereof. Neither this publication nor any content hereof, constitute, or are to be construed as, an offer or solicitation of an offer to buy or sell any of the securities mentioned herein in any country or iurisdiction nor supresseques expressly provided any recommendation or investment onion or advice. Any view, recommendation securities or investments mentioned herein in any country or jurisdiction nor, unless expressly provided, any recommendation or investment option or advice. Any view, recommendation, opinion or advice expressed in this publication may not necessarily reflect those of Daiwa Securities Capital Markets Co. Ltd., and/or its affiliates nor any of its respective directors, officers, servants and employees except where the publication states otherwise. This research report is not to be relied upon by any person in making any investment decision or otherwise advising with respect to, or dealing in, the securities mentioned, as it does not take into account the specific investment objectives, financial situation and particular needs of any person.

Daiwa Securities Group Inc., its subsidiaries or affiliates, or its or their respective directors, officers and employees from time to time have trades as principals, or have positions in, or have other interests in the securities of the company under research including derivatives in respect of such securities or may have also performed investment banking and other services for the issuer of such securities. The following are additional disclosures.

Japan

Daiwa Securities Co. Ltd. and Daiwa Securities Group Inc. Daiwa Securities Co. Ltd. is a subsidiary of Daiwa Securities Group Inc. Investment Banking Relationship

Within the preceding 12 months, The subsidiaries and/or affiliates of Daiwa Securities Group Inc. * has lead-managed public offerings and/or secondary offerings (excluding straight bonds) of the securities of the following companies: Sihuan Pharmaceutical Holdings Group Limited (460 HK); China Sanjiang Fine Chemicals Company Limited (2198 HK); SBI Holdings, Inc (8473 JP); Beijing Jingneng Clean Energy Company Limited (579 HK); REXLot Holdings Limited (555 HK); Huadian Fuxin Energy Corporation Limited (816 HK); Chaowei Power Holdings Limited (951 HK); CITIC Securities Company Limited (6030 HK); China Outfitters Holdings Limited (1146 HK); The People's Insurance Company (Group) of China Limited (1339 HK); China Precious Metal Resources Holdings Company Limited (1194 HK); Jiangnan Group Limited (1366 HK).

*Subsidiaries of Daiwa Securities Group Inc. for the purposes of this section shall mean any one or more of: Daiwa Capital Markets Hong Kong Limited, Daiwa Capital Markets Australia Limited, Daiwa Capital Markets India Private Limited, Daiwa-Cathay Capital Markets Co., Ltd., Daiwa Securities Capital Markets Korea Co., Ltd.

Hong Kong This research is distributed in Hong Kong by Daiwa Capital Markets Hong Kong Limited ("DHK") which is regulated by the Hong Kong Securities and Futures Commission. Recipients of this research in Hong Kong may contact DHK in respect of any matter arising from or in connection with this research. <u>Ownership of Securities</u>

For "Ownership of Securities" information, please visit BlueMatrix disclosure Link at https://daiwa3.bluematrix.com/sellside/Disclosures.action. Investment Banking Relationship

For "Investment Banking Relationship", please visit BlueMatrix disclosure Link at https://daiwa3.bluematrix.com/sellside/Disclosures.action.

Relevant Relationship (DHK)

DHK may from time to time have an individual employed by or associated with it serves as an officer of any of the companies under its research coverage.

<u>DHK market making</u> DHK may from time to time make a market in securities covered by this research.

Singapore

This research is distributed in Singapore by Daiwa Capital Markets Singapore Limited and it may only be distributed in Singapore to accredited investors, expert investors and institutional investors as defined in the Financial Advisers Regulations and the Securities and Futures Act (Chapter 289), as amended from time to time. By virtue of distribution to these category of investors, Daiwa Capital Markets Singapore Limited and its representatives are not required to comply with Section 36 of the Financial Advisers Act (Chapter 110) (Section 36 relates to disclosure of Daiwa Capital Markets Singapore Limited's interest and/or its representative's interest in securities). Recipients of this research in Singapore may contact Daiwa Capital Markets Singapore Limited in respect of any matter arising from or in connection with the research.

Australia

This research is distributed in Australia by Daiwa Capital Markets Stockbroking Limited and it may only be distributed in Australia to wholesale investors within the meaning of the Corporations Act. Recipients of this research in Australia may contact Daiwa Capital Markets Stockbroking Limited in respect of any matter arising from or in connection with the research. Ownership of Securities For "Ownership of Securities" information, please visit BlueMatrix disclosure Link at https://daiwa3.bluematrix.com/sellside/Disclosures.action.

India

This research is distributed by Daiwa Capital Markets India Private Limited (DAIWA) which is an intermediary registered with Securities & Exchange Board of India. This report is not to be considered as an offer or solicitation for any dealings in securities. While the information in this report has been compiled by DAIWA in good faith from sources believed to be reliable, no representation or warranty, express of implied, is made or given as to its accuracy, completeness or correctness. DAIWA its officers, employees, representatives and agents accept no liability whatsoever for any loss or damage whether direct, indirect, consequential or otherwise howsoever arising (whether in negligence or otherwise) out of or in connection with or from any use of or reliance on the contents of and/or omissions from this document. Consequently DAIWA expressly disclaims any and all liability for, or based on or relating to any such information contained in or errors in or omissions in this report. Accordingly, you are recommended to seek your own legal, tax or other advice and should rely solely on your own judgment, review and analysis, in in or errors in or omissions in this report. Accordingly, you are recommended to seek your own legal, tax or other advice and should rely solely on your own judgment, review and analysis, in evaluating the information in this document. The data contained in this document is subject to change without any prior notice DAIWA reserves its right to modify this report as maybe required from time to time. DAIWA is committed to providing independent recommendations to its Clients and would be happy to provide any information in response to any query from its Clients. This report is strictly confidential and is being furnished to you solely for your information. The information contained in this document should not be reproduced (in whole or in part) or redistributed in any form to any other person. We and our group companies, affiliates, officers, directors and employees may from time to time, have long or short positions, in and buy sell the securities thereof, of company(ies) mentioned herein or be engaged in any other transactions involving such securities and earn brokerage or other compensation or act as advisor or have the potential conflict of interest with respect to any recommendation and related information or opinion. DAIWA prohibits its analyst and their family members from maintaining a financial interest in the securities or derivatives of any companies that the analyst cover. This report is not intended or directed for distribution to, or use by any person, citizen or entity which is resident or located in any state or country or jurisdiction where such publication, distribution or use would be contrary to any statutory legislation, or regulation which would require DAIWA and its are subject of the Report, and that no part of the analyst's compensation was, is or will be directly or indirectly, related to the recommendations no views about the securities and issuers that are subject of the Report, and that no part of the analyst's compensation was, is or will be directly or indirectly, related to the rec

Taiwan

This research is distributed in Taiwan by Daiwa-Cathay Capital Markets Co., Ltd and it may only be distributed in Taiwan to institutional investors or specific investors who have signed recommendation contracts with Daiwa-Cathay Capital Markets Co., Ltd in accordance with the Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers. Recipients of this research in Taiwan may contact Daiwa-Cathay Capital Markets Co., Ltd in respect of any matter arising from or in connection with the research.

Philippines

Philppines This research is distributed in the Philippines by DBP-Daiwa Capital Markets Philippines, Inc. which is regulated by the Philippines Securities and Exchange Commission and the Philippines Stock Exchange, Inc. Recipients of this research in the Philippines may contact DBP-Daiwa Capital Markets Philippines, Inc. in respect of any matter arising from or in connection with the research. DBP-Daiwa Capital Markets Philippines, Inc. recommends that investors independently assess, with a professional advisor, the specific financial risks as well as the legal, regulatory, tax, accounting, and other consequences of a proposed transaction. DBP-Daiwa Capital Markets Philippines, Inc. may have positions or may be materially interested in the securities in any of the markets mentioned in the publication or may have performed other services for the issuers of such securities. For relevant securities and trading rules please visit SEC and PSE Link at <u>http://www.sec.gov.ph/ir/AmendedIRRfinalversion.pdf</u> and <u>http://www.pse.com.ph/</u> respectively.

United Kingdom

This research report is produced by Daiwa Capital Markets Europe Limited and/or its affiliates and is distributed in the European Union, Iceland, Liechtenstein, Norway and Switzerland. Daiwa Capital Markets Europe Limited and/or its affiliates may, from time to time, to the extent permitted by law, participate or invest in other financing transactions with the issuers of the securities referred to herein (the "Securities"), perform services for or solicit business from such issuers, and/or have a position or effect transactions in the Securities or options thereof and/or may have acted as an underwriter during the past twelve months for the issuer of such securities. In addition, employees of Daiwa Capital Markets Europe Limited and/or its affiliates may have positions and effect transactions in such securities or options and may serve as Directors of such issuers. Daiwa Capital Markets Europe Limited may, to the extent



permitted by applicable UK law and other applicable law or regulation, effect transactions in the Securities before this material is published to recipients.

This publication is intended for investors who are not Retail Clients in the United Kingdom within the meaning of the Rules of the FCA and should not therefore be distributed to such Retail Clients in the United Kingdom. Should you enter into investment business with Daiwa Capital Markets Europe's affiliates outside the United Kingdom, we are obliged to advise that the protection afforded by the United Kingdom regulatory system may not apply; in particular, the benefits of the Financial Services Compensation Scheme may not be available.

Daiwa Capital Markets Europe Limited has in place organisational arrangements for the prevention and avoidance of conflicts of interest. Our conflict management policy is available at http://www.uk.daiwacm.com/about-us/corporate-governance-and-regulatory . Regulatory disclosures of investment banking relationships are available at https://daiwag.bluematrix.com/sellside/Disclosures.action.

Germany

This document has been approved by Daiwa Capital Markets Europe Limited and is distributed in Germany by Daiwa Capital Markets Europe Limited, Niederlassung Frankfurt which is regulated by BaFin (Bundesanstalt fuer Finanzdienstleistungsaufsicht) for the conduct of business in Germany.

Bahrain

This research material is issued/compiled by Daiwa Capital Markets Europe Limited, Bahrain Branch, regulated by The Central Bank of Bahrain and holds Investment Business Firm – Category 2 license and having its official place of business at the Bahrain World Trade Centre, South Tower, 7th floor, P.O. Box 30069, Manama, Kingdom of Bahrain. Tel No. +973 17534452 Fax No. +973 535113

This material is provided as a reference for making investment decisions and is not intended to be a solicitation for investment. Investment decisions should be made at your own discretion and risk. Actor by the destination of warranty, express or implied, is made as not interacted to be a solutation investment, investment decisions should be inade at your own instruction and and risk. Accordingly, no representation or warranty, express or implied, is made as to and no reliance should be placed on the fairness, accuracy, completeness or correctness of the information and opinions contained in this document, Content herein is based on information available at the time the research material was prepared and may be amended or otherwise changed in the future without notice. All information is intended for the private use of the person to whom it is provided without any liability whatsoever on the part of Daiwa Capital Markets Europe Limited, Bahrain Branch, any associated company or the employees thereof. If you are in doubt about the suitability of the presduct or the research material itself, please consult your own financial adviser. Daiwa Capital Markets Europe Limited, Bahrain Branch, and any associated company or the employees thereof. without prior consent.

United States This report is distributed in the U.S. by Daiwa Capital Markets America Inc. (DCMA). It may not be accurate or complete and should not be relied upon as such. It reflects the preparer's views at the time of its preparation, but may not reflect events occurring after its preparation; nor does it reflect DCMA's views at any time. Neither DCMA nor the preparer has any obligation to update this report or to continue to prepare research on this subject. This report is not an offer to sell or the solicitation of any offer to buy securities. Unless this report says otherwise, any recommendation it makes is risky and appropriate only for sophisticated speculative investors able to incur significant losses. Readers should consult their financial advisors to determine whether any such recommendation is consistent with their own investment objectives, financial situation and needs. This report does not recommend to U.S. recipients the use of any of DCMA's non-U.S. affiliates to effect trades in any security and is not supplied with any understanding that U.S. recipients of this report will direct commission business to such non-U.S. entities. Unless applicable law permits otherwise, non-U.S. customers wishing to effect a transaction in any securities referenced in this material should contact a Daiwa entity in their local jurisdiction. Most countries throughout the world have their own laws regulating the types of securities and other investment products which may be offered to their residents, as well as a process for doing so. As a result, the securities discussed in this report may not be eligible for sales in some jurisdictions. Customers wishing to obtain further information about this report should contact DCMA: Daiwa Capital Markets America Inc., Financial Square, 32 Old Slip, New York, New York 10005 (telephone 212-612-7000).

Ownership of Securities For "Ownership of Securities" information please visit BlueMatrix disclosure Link at https://daiwa3.bluematrix.com/sellside/Disclosures.action.

Investment Banking Relationships For "Investment Banking Relationships" please visit BlueMatrix disclosure link at https://daiwa3.bluematrix.com/sellside/Disclosures.action.

<u>MA Market Making</u> "DCMA Market Making" please visit BlueMatrix disclosure link at <u>https://daiwa3.bluematrix.com/sellside/Disclosures.action</u>.

Research Analyst Conflicts For updates on "Research Analyst Conflicts" please visit BlueMatrix disclosure link at https://daiwa3.bluematrix.com/sellside/Disclosures.action. The principal research analysts who prepared this report have no financial interest in securities of the issuers covered in the report, are not (nor are any members of their household) an officer, director or advisory board member of the issuer(s) covered in the report, and are not aware of any material relevant conflict of interest involving the analyst or DCMA, and did not receive any compensation from the issuer during the past 12 months except as noted: no exceptions.

Research Analyst Certification For updates on "Research Analyst Certification" and "Rating System" please visit BlueMatrix disclosure link at https://daiwa3.bluematrix.com/sellside/Disclosures.action. The views about any and all of the subject securities and issuers expressed in this Research Report accurately reflect the personal views of the research analyst(s) primarily responsible for this report (or the views of the firm producing the report if no individual analysts[s] is named on the report); and no part of the compensation of such analyst(s) (or no part of the compensation of the firm if no individual analyst[s]] is named on the report) was, is, or will be directly or indirectly related to the specific recommendations or views contained in this Research Report.

The following explains the rating system in the report as compared to relevant local indices, based on the beliefs of the author of the report. "1": the security could outperform the local index by more than 15% over the next six months.

- "2": the security is expected to outperform the local index by 5-15% over the next six months. "3": the security is expected to perform within 5% of the local index (better or worse) over the next six months.
- "4": the security is expected to underperform the local index by 5-15% over the next six months. "5": the security could underperform the local index by more than 15% over the next six months.

Additional information may be available upon request

Japan - additional notification items pursuant to Article 37 of the Financial Instruments and Exchange Law (This Notification is only applicable where report is distributed by Daiwa Securities Co. Ltd.)

If you decide to enter into a business arrangement with us based on the information described in materials presented along with this document, we ask you to pay close attention to the following items

- In addition to the purchase price of a financial instrument, we will collect a trading commission* for each transaction as agreed beforehand with you. Since commissions may be included in the purchase price or may not be charged for certain transactions, we recommend that you confirm the commission for each transaction. In some cases, we may also charge a maximum of ¥ 2 million (including tax) per year as a standing proxy fee for our deposit of your securities, if you are a non-resident of Japan. For derivative and margin transactions etc., we may require collateral or margin requirements in accordance with an agreement made beforehand with you. Ordinarily in such cases, the amount of the transaction will be in excess of the required collateral or margin requirements.
- There is a risk that you will incur losses on your transactions due to changes in the market price of financial instruments based on fluctuations in interest rates, exchange rates, stock prices, real estate prices, commodity prices, and others. In addition, depending on the content of the transaction, the loss could exceed the amount of the collateral or margin requirements. There may be a difference between bid price etc. and ask price etc. of OTC derivatives handled by us.
- Before engaging in any trading, please thoroughly confirm accounting and tax treatments regarding your trading in financial instruments with such experts as certified public accountants. *The amount of the trading commission cannot be stated here in advance because it will be determined between our company and you based on current market conditions and the content of each transaction etc.

When making an actual transaction, please be sure to carefully read the materials presented to you prior to the execution of agreement, and to take responsibility for your own decisions regarding the signing of the agreement with us.

Corporate Name: Daiwa Securities Co. Ltd.

Financial instruments firm: chief of Kanto Local Finance Bureau (Kin-sho) No.108 Japan Securities Dealers Association, Financial Futures Association of Japan Japan Securities Investment Advisers Association Memberships: Type II Financial Instruments Firms Association