

## Towngas China

1083 HK

Share price (17 Mar): **HKD7.21**

12-mth rating: **Buy (1)**

Target price: **HKD9.30**

# 2014 results slightly miss on weak volume, but better 2015 expected

**Dennis Ip, CFA**

(852) 2848 4068  
dennis.ip@hk.daiwacm.com

**Kexin Zhu**

(852) 2773 8535 (direct)  
kexin.zhu@hk.daiwacm.com

### ■ What is new?

- Towngas China (TCCL) reported FY14 net profit of HKD1,054m. Stripping out the unrealised exchange loss (HKD141m loss in 2014 versus HKD160m gain in 2013), the recurring net profit was up 26% YoY, to HKD1,195m, 4% below our estimates and 3% below the Bloomberg consensus.

### ■ Result details

- Total revenue increased by 17% YoY, driven by 18% YoY growth in gas sales and a 16% YoY increase in connection fees. The increase in gas sales was driven by both volume growth (+10% YoY to 1.73bcm at subsidiary level) and increased gas sales prices (+7% YoY to HKD3.6/m<sup>3</sup>). Industrial, commercial and residential gas accounted for 59%, 17% and 24% of total volume of gas sold, respectively. The company had approximately 373,000 new household connections in 2014, up +20% YoY from 2013.
- The revenue mix of gas sales vs. connection fees (79%:21%) was

roughly in line with 2013 (78%:22%), and segment margins were 7.6% and 44.5%, respectively, in line with 2013 (8.1% and 44.0%, respectively).

- Overhead costs (HKD1,688m) increased by 11% YoY in 2014, mainly due to business development together with escalations in wages and inflation. Staff costs, depreciation and amortisation expenses and other expenses rose by 17% and 21% YoY, respectively.
- The EBIT margin dropped slightly from 13.8% in 2013 to 13.5% in 2014.
- Finance costs (HKD174m) increased by 6% YoY. This rise reflected the increase in loans due to the acquisition of new projects in 2014.
- The effective tax rate increased slightly from 23.8% in 2013 to 22.9% in 2014, but the minority rate increased from 9.8% in 2013 to 10.7% in 2014, due to higher earnings growth from the subsidiary projects.
- The net margin dropped from 16.5% in 2013 to 13.4% in 2014.
- DPS is HKD0.10 for 2014 (HKD0.08 in 2013), representing a payout ratio of 25% (19% in 2013).
- The net debt to equity ratio increased from 26% in 2013 to 36% in 2014, including the loan from HKCG.
- The company acquired 9 new projects in 2014. The total gas consumption of these projects is expected to reach approximately 800bcm in five years. In addition, the company also developed a new project in early 2015, and total gas consumption of this project is expected to reach approximately 280bcm in five

years. Total additional gas sales at 1.08cm from these 10 projects represent an additional 25% of our 2020E subsidiary gas sales volume

### ■ Tele-conference key takeaways and our views

- **3Q14 gas-sales volume growth flat, but recovered in 4Q14. For FY14, TCCL's gas sales volume rose by 10% YoY, down from 14% YoY (at the subsidiary level) for 1H14.** Therefore, 2H14 gas sales volume (at the subsidiary level) only increased by 6% YoY, mainly due to flat growth in 3Q14 but the recovery to 10% YoY growth in 4Q14. According to management, the gas sales volume for January 2015 was also maintained at 10% YoY growth. Management attributed the significant slowdown to the poor economy, especially in industrial provinces such as Shandong, which only achieved 4-5% YoY gas sales volume growth in FY14. Anhui, Zhejiang and the Northeast (driven by Jilin and Liaoning) achieved 12-13% YoY gas sales volume growth.
- **2015 volume growth should recover on the coming city-gate tariff cut for incremental-volume non-residential gas.** Despite the recent low oil price, as management sees the substitution effect of natural gas with LPG in some provinces, gas sales volume growth was maintained a 10% YoY in January 2015. While management only expects a conservative double-digit gas sales volume growth in 2015, we believe the coming city-gate tariff cut for incremental-volume gas, by CNY0.44/m<sup>3</sup> (or 15%), effective April 2015, could help to recover the gas sales volume

growth to the mid-teens. According to management, the northeast is in the process of replacing the coal-gas with natural gas, which should be able to result at least low-teens growth.

- **Margin maintained from last city-gate tariff hike.** The unit segment dollar margin was maintained at HKD0.27/m<sup>3</sup>, despite a slight depreciation in the CNY. Therefore, the unit segment dollar margin actually expanded slightly in FY14. According to management, 96% of the affected piped gas volume was successfully passed through from the last city-gate tariff hike in September 2014. Despite a city-gate tariff adjustment (cut in incremental volume, with a blended tariff and base volume unchanged) in April 2015, management believes the impact would be within a few cents, and Towngas China plans to ask for the retail tariff to remain broadly unchanged.
- **More positive catalysts for the China gas distribution sector in 2015.** Management expects the tiered-residential tariff policy to be implemented in 2015, and as such we see the potential for margin expansion due to residential gas sales. In addition, we believe there could be another 10% cut in the non-residential city-gate tariff by 3Q15, should the oil price stay at current low levels, to further boost gas sales volume growth in 2H15.
- **Gas connection up 20% YoY, a positive surprise.** While TCCL had only 30% of the households from old residential buildings (50% for peers), TCCL still achieved 20% YoY growth in residential household connections (peers: 0-10%, TCCL 1H14: 11%), mainly attributable to the recovery in the property market in recession areas. We expect the coal-to-gas projects to support residential household connections, even though management targets conservative flat growth.
- **Potential asset injection uncertain.** Despite management's reiteration that TCCL would ultimately be the investment vehicle for HKCG's city-gas projects in China, there is no exact timetable. We believe TCCL's strong balance sheet (36% net-debt-to-equity including HKCG's loan, peers' 27-53%) should enable TCCL to execute the long-awaited asset injection. Parent HKCG has 35 city-gas projects available to be injected into TCCL. However, the wide forward PER valuation gap, TCCL's 14x versus HKCG's 20x, could make it difficult to obtain both minority shareholders' approval and therefore we don't expect the asset injection to happen in the near term.
- **Lower-than-expected new city-gas projects.** TCCL secured 9 new city-gas projects in 2014 (1H14: 8 projects), with only 1 city-gas project so far in 2015, which lags behind the 8-10 city-gas projects per annum targeted by management. TCCL has 104 city-gas projects YTD. We believe TCCL is getting more difficult to secured new city-gas projects given CR Gas (1193 HK, Outperform) have resumed its aggressive M&A during 1Q15, with 25 city-gas projects bagged with a consideration of HKD1.6bn.

#### ■ Valuation

TCCL's 14x 2015E PER is at the low end of the peer range of 12-17x, which we see as unjustified. Our 12-month DCF-based target price for TCCL is HKD9.30. The main risk to our Buy (1) rating is lower-than-expected gas sales caused by economic downturn.

Our pecking orders of China gas distribution sector is TCCL, China Resources Gas, Beijing Enterprises Holdings, China Gas and ENN Energy.

#### See our recent reports

To see my latest report on *Towngas China TCCL* (26 January 2015), please [\*\*click here\*\*](#)

■ **TCCL: 2014 results**

(HKDm)	2013	2014	YoY	Comments
Turnover	6,716	7,882	17%	
- Gas sales	5,265	6,205	18%	18% YoY growth on gas sales revenue higher than 10% YoY growth on subsidiary gas sales volume due to increase in gas tariff on city-gate tariff hike for non-residential piped gas
- Gas connection	1,451	1,677	16%	
Operating expenses	(5,791)	(6,816)	18%	
Cost of inventories sold	(4,686)	(5,604)	20%	
Staff costs	(671)	(788)	17%	
Depreciation and amortization	(331)	(402)	22%	
Other operating expenses	103	23	-78%	
EBIT	925	1,066	15%	
EBITDA	1,256	1,468	17%	
Other incomes	246	14	-94%	
- Exchange Gain	160	(141)	-188%	RMB depreciation
- Dividend income from AFS (Chengdu)	58	66	14%	
- Interest income	60	50	-17%	
- Others	(32)	39	-223%	
Share of results of associates	336	347	3%	
Share of results of JCE	265	278	5%	
Finance costs	(164)	(174)	6%	
PBT	1,609	1,531	-5%	
Taxation	(383)	(350)	-8%	
PAT	1,226	1,181	-4%	
Minority interest	120	127	6%	
Net profit attributable to shareholders	1,106	1,054	-5%	
Net profit attributable to shareholders, net of FX impact and disposal gain	946	1,195	26%	
Dividend	209	263	26%	
Weighted number of shares for diluted EPS	2,605	2,623	1%	
EPS	0.42	0.40	-5%	
EPS, net of FX impact	0.36	0.46	25%	
DPS	0.08	0.10	25%	

Source: Company, Daiwa

■ **TCCL: 2014 key financials**

Key Financials	2013	2014	YoY
EBITDA margin	18.7%	18.6%	-1pp
EBIT margin	13.8%	13.5%	-2pp
Net margin	16.5%	13.4%	-3.1pp
Net margin (recurring)	14.1%	15.2%	1.1pp
Operating expenses before D&A -to- revenue	81.3%	81.4%	.1pp
Effective tax rate	23.8%	22.9%	-9pp
Dividend payout	18.9%	25.0%	6.1pp
Net debt-to-equity	26.4%	35.9%	9.6pp

Source: Company, Daiwa

■ **TCCL: 2014 segment metric**

(HKDm unless otherwise stated)	2013	2014	YoY	
<b>Segment Metric</b>				
<b>Gas sales</b>				
Turnover	5,265	6,205	18%	
Segment profit	427	471	10%	
Segment margin	8.1%	7.6%	-.5pp	
Segment proportion	40.1%	38.7%	-1.4pp	
Sales volume (Total), mn cm	5,950	6,511	9%	
Sales volume (Total) exclude Chengdu, mn cm	4,820	5,293	10%	
Sales volume (Consolidated), mn cm	1,570	1,726	10%	1H14 YoY gas sales volume growth at subsidiary level was 14%, an significant drop for 2H14 at 6% YoY growth due to economic slowdown (such as Shandong which only achieved 4-5% FY14 YoY gas sales volume growth, however, 4Q14-January 15 was recovered at 10% YoY gas sales volume growth according to management
- Commercial	262	293	12%	
- Industrial	918	1,018	11%	
- Residential	389	414	6%	
Commercial Gas Sales Proportion	17%	17%	.3pp	
Industrial Gas Sales Proportion	59%	59%	.5pp	
Residential Gas Sales Proportion	25%	24%	-.8pp	
Segment profit per unit gas sales (HKD/cm)	0.27	0.27	0%	Margin maintained despite the another round of city-gate tariff hike in September 2014, while TCCL only able to pass through 96% of the cost
ASP, HKD/cubic meter	3.35	3.60	7%	Increase in ASP after the non-residential city-gate gas tariff hike
<b>Gas connection</b>				
Turnover	1,451	1,677	16%	
Segment profit	638	746	17%	
Segment margin	44.0%	44.5%	.5pp	
Segment proportion	59.9%	61.3%	1.4pp	
Number of connection (Total)	880,000	970,000	10%	
Number of connection (Consolidated)	310,000	373,000	20%	1H14 YoY gas connection growth at subsidiary level was 11%, an significant increase for 2H14 with 26% YoY growth due to better property market in 4Q14

Source: Company, Daiwa

*In the interests of timeliness, this document has not been edited.*

## 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 or investments mentioned herein in any country or jurisdiction nor, unless expressly provided, any recommendation or investment opinion 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: Modern Land (China) Co. Ltd (1107 HK); econtext Asia Ltd (1390 HK); Lotte Shopping Co (023530 KS); Rexlot Holdings Ltd (555 HK); Neo Solar Power Corp (3576 TT); Accordia Golf Trust (AGT SP); Hua Hong Semiconductor Ltd (1347 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 (大和資本市場香港有限公司), Daiwa Capital Markets Singapore 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 (大和資本市場香港有限公司) ("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.

#### Ownership of Securities

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.

#### DHK market making

DHK may from time to time make a market in the 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 or 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 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 affiliates/ group companies to any registration or licensing requirements. The views expressed in the report accurately reflect the analyst's personal 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 recommendations or views expressed in the Report. This report does not recommend to US recipients the use of Daiwa Capital Markets India Private Limited or any of its non - US affiliates to effect trades in any securities and is not supplied with any understanding that US recipients will direct commission business to Daiwa Capital Markets India Private Limited.

### 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

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 <http://www.sec.gov.ph/irr/AmendedIRRfinalversion.pdf> and <http://www.pse.com.ph/> respectively.

### Thailand

This research is distributed to only institutional investors in Thailand primarily by Thanachart Securities Public Company Limited ("TNS").

This report is prepared by analysts who are employed by Daiwa Securities Group Inc. and/or its non-U.S. affiliates. While the information is from sources believed to be reliable, neither the information nor the forecasts shall be taken as a representation or warranty for which Thanachart Securities Public Company Limited, Daiwa Securities Group Inc. nor any of their respective parent, holding, subsidiaries or affiliates, nor any of their respective directors, officers, servants and employees incur any responsibility. This report is provided to you for informational purposes only and it is not, and is not to be construed as, an offer or an invitation to make an offer to sell or buy any securities. Neither Thanachart Securities Public Company Limited, Daiwa Securities Group Inc. nor any of their respective parent, holding, subsidiaries or affiliates, nor any of their respective directors, officers, servants and employees accept any liability whatsoever for any direct or consequential loss arising from any use of this research or its contents.

The information and opinions contained herein have been compiled or arrived at from sources believed reliable. However, Thanachart Securities Public Company Limited, Daiwa Securities Group Inc. nor any of their respective parent, holding, subsidiaries or affiliates, nor any of their respective directors, officers, servants and employees make no representation or warranty, express or implied, as to their accuracy or completeness. Expressions of opinion herein are subject to change without notice. The use of any information, forecasts and opinions contained in this report shall be at the sole discretion and risk of the user.

Daiwa Securities Group Inc. and/or its non-U.S. affiliates perform and seek to perform business with companies covered in this research. Thanachart Securities Public Company Limited, Daiwa Securities Group Inc., their respective parent, holding, subsidiaries or affiliates, their respective directors, officers, servants and employees may have positions and financial interest in securities mentioned in this research. Thanachart Securities Public Company Limited, Daiwa Securities Group Inc., their respective parent, holding, subsidiaries or affiliates may from time to time perform investment banking or other services for, or solicit investment banking or other business from, any entity mentioned in this research. Therefore, investors should be aware of conflict of interest that may affect the objectivity of this research.

#### **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 is authorised and regulated by The Financial Conduct Authority ("FCA") and is a member of the London Stock Exchange, Eurex and NYSE Liffe. 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-regulatory>. Regulatory disclosures of investment banking relationships are available at <https://daiwa3.bluematrix.com/sellside/Disclosures.action>.

#### **Germany**

This document 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 distributed 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. 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 product or the research material itself, please consult your own financial adviser. Daiwa Capital Markets Europe Limited, Bahrain Branch retains all rights related to the content of this material, which may not be redistributed or otherwise transmitted 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>.

#### **DCMA Market Making:**

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

#### **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 analyst[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, unless otherwise stated, 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 12 months.

"2": the security is expected to outperform the local index by 5-15% over the next 12 months.

"3": the security is expected to perform within 5% of the local index (better or worse) over the next 12 months.

"4": the security is expected to underperform the local index by 5-15% over the next 12 months.

"5": the security could underperform the local index by more than 15% over the next 12 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 to 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  
Memberships: Japan Securities Dealers Association, The Financial Futures Association of Japan  
Japan Securities Investment Advisers Association  
Type II Financial Instruments Firms Association