

## European Banks – Weekly Credit Update

- The Q2 earnings season starts this week with the Nordic and American banks – we expect most large trading houses to perform well, whilst provisioning levels remain uncertain.
- Lloyds' departing CEO has materially strengthened the bank's credit profile, yet its interest rate sensitivity will present a challenge in the new environment.
- Primary markets were mostly quiet over the past week, with less than a handful of issuers targeting lower- ranked paper; the trend in the secondary market was mixed.

**Israel Da Costa, CFA**

Credit Analyst

+44 20 7597 8355

[Israel.DaCosta@uk.daiwacm.com](mailto:Israel.DaCosta@uk.daiwacm.com)

### 2Q20 Earnings Season

JPMorgan and Citibank will kick-start the second quarter results season for American banks tomorrow, followed by Goldman on Wednesday, BofA on Thursday and Morgan Stanley on Friday. In Europe, DNB started the earnings season today, to be followed by SEB and Svenska HB on Wednesday, and Nordea, Swedbank and Danske on Friday. In all, we expect strong client activity to have supported revenues, yet provisioning levels remain a key concern. Positively, the economic scenarios on which provisioning levels will be based should be more harmonized than in Q1.

For large global trading banks, the expectation is for another quarter of strong trading profits, particularly in FICC. This was recently highlighted in Jefferies' results for the quarter ending May-20 results, and by Christian Sewing (Deutsche's CEO), who stated that the positive momentum in FICC trading observed in Q1 carried over into Q2. Sewing also pointed to a deceleration of FICC and DCM activity in the second half of the year however. Equity trading results should be mixed, with French names expected to continue to underperform in the space. UBS will be the first European G-SIB to publish their Q2 results on 21/07, followed by Deutsche, Barclays and Santander on 29/07.

### Lloyds & Barclays

On Monday, Lloyds announced that its CEO António Horta-Osório will step down in June 2021. Under his leadership, since March 2011, Lloyds moved from being a 43.4% government-owned bank\* to a solid credit, with healthy profitability (underlying RoTE of 14.8% in 2019), clean balance sheet, sound capital base and strong franchise as the UK's largest retail bank, with a 20% market share in deposits and mortgage lending.

Yet, significant challenges lie ahead for the bank. Profitability was already under pressure in 2019, whilst its retail banking focus makes it more sensitive to the low interest rate environment in the UK. Moreover, the bank's limited business diversification made it more vulnerable to the current crisis when compared to peers with sizeable securities trading operations. The group is reportedly looking into strengthening its Wealth Management and Insurance business, which would offset its reliance on interest rate margins but take time to grow to a meaningful size.

In Q1, the bank increased impairment charges by £1.1bn Y/Y in anticipation of losses related to the economic fallout from the pandemic. Yet the figure was based on optimistic scenarios, with a "base case" UK GDP decline of 5% in 2020 (followed by a 3% recovery in 2021) and a "severe downside" UK GDP decline of 7.8% in 2020 (followed by a 0.1% decline in 2021). DCME outlook for GDP growth in the UK in 2020 is currently at -10.1%.

As a result, we expect the bank to report additional substantial charges in coming quarters, with loans to sectors more vulnerable to the pandemic amounting to £10.6bn at end-March 20 (2.4% of the loan book).

The bank's lack of geographic diversification also makes it more vulnerable to political developments in the UK, so that on top of the economic impact of the virus, the bank will be particularly exposed to potential negative fallouts from the UK's full exit from the EU from 01 January 2021.

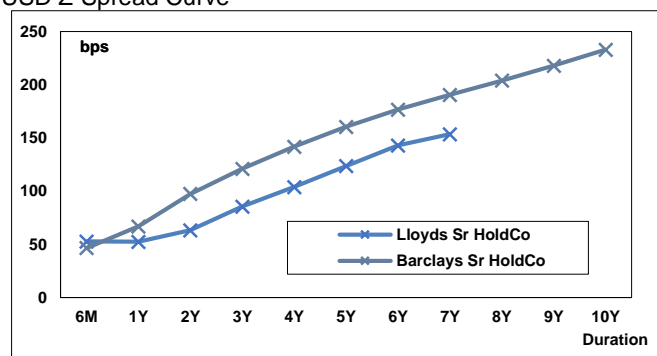
At Barclays, Bloomberg reported last week that the bank has sounded the market for potential replacement for Jes Staley, the bank's CEO since December 2015. Staley, despite his fair share of controversies, has successfully implemented a strategy focused on business diversification, including the maintenance of sizeable FICC and Equities trading operations.

### Financials

Data as of 1Q20	Lloyds	Barclays
CET1 (%)	14.2	13.1
CET1 (bn)	29.7	42.5
Total capital (%)	21.9	20.4
Leverage Ratio (%)	5.3	4.5
MREL (%)	34.5	29.3
NPL (Stage 3, %)	1.8	1.3
NPL Coverage (%)	25.0	40.4
Revenues	3.9	6.3
LLP (£m)	1,430	2,115
Statutory Profit (£m)	480	605
Cost to Income (%)	49.7	51.9
LCR (%)	138.0	155.0
CDS 5Y EUR HoldCo (bps) <sup>1</sup>	72.8	93.5
P/B (x) <sup>1</sup>	0.46	0.36
Stock Price YTD Δ (%) <sup>1</sup>	-51.3	-34.5

Consolidated figures. Source: Banks' financial statements, Bloomberg. <sup>1</sup> As of 10/07/2020

### USD Z-Spread Curve



Source: Bloomberg

The latter is proving particularly beneficial during this crisis, as the solid performance in the area in Q1 (FICC earnings were up 106% Y/Y, Equities were up 21% Y/Y), which is expected to have carried over into Q2, allowed the bank to take a more conservative approach towards loan loss recognition. It posted £2.1bn in impairment charges in 1Q20 (vs £0.4bn in 1Q19) based on an assumption of a GDP decline of 8% in 2020 in its baseline scenario. Exposure to sectors more vulnerable to the pandemic amounted to £10.7bn (3.2% of the loan book), a similar volume to Lloyd's exposure.

In all, Lloyds' balance sheet remains stronger and healthier than credit than Barclays', given the latter's stronger focus on corporates and investment banking. But Barclays' more diversified business model, in terms of both activity and geography, is proving particularly beneficial in the current crisis and making it less sensitive to lower interest rates in both the US and UK.

This better through-the-cycle position of Barclays compared to Lloyds is not priced into spreads in our view. Lloyds' HoldCo 5Y USD debt is trading with an aggregate Z-spread of 103bps (duration of 3.7 years), vs a 145bps (4.5) from Barclays. We do still see Lloyds Sr HoldCo (A3 Negative /BBB+ Negative by Moody's/S&P) and overall credit profile as stronger than Barclays' (Baa2 Stable/BBB Negative), as also reflected in its ratings, warranting tighter overall spreads, but we also see room for tightening of the gap between the two credits.

*\*The UK government injected £20.3bn into the group at the height of the financial crisis, acquiring a 43.4% stake. It began to reduce its ownership in September 2013. Following a series of granular share disposals, it announced in May 2017 the sale of all of its shares with a £900m nominal profit.*

### ECB Tiering Multiplier

As excess liquidity leapt to a new record high €2.8trn following the latest TLTRO-iii operation, we expect the ECB's Governing Council to agree to increase the tiering multiplier to exempt a larger share of bank reserves (currently six times each credit institution's minimum reserve requirement) from the -0.50% deposit rate this Thursday. This tiering system was implemented in September 2019, when total excess liquidity in the euro system stood at €1.8trn. Based on the current level of excess liquidity, euro area banks will pay over €9bn per year to the ECB according to our estimates, up from the around €5bn estimate based on September 2019 data.

### Primary and secondary markets

**Primary market** activity was limited throughout the week in the absence of a clear market trend, the start of the black-out period for several issuers and continued concerns about the number of Covid-19 infections in the US. That said, less than a handful of European names tapped the market for lower-ranked paper, which were met with varied demand levels. BBVA was the most active, with an EUR AT1 placed on Tuesday, followed by a GBP Tier 2 on Friday. Whilst demand for the former was adequate, the latter seems to have been less successful. BBVA became the first bank to issue a Green AT1, launched at 6.0%, with a book order above €2.75bn for a final deal size of €1bn. It is unclear whether the Green label led to stronger demand, yet the final price was 50bps inside IPT, with no clear NIC. According to the bank, the new issue may replace an 8.875% AT1 with a call option maturing in April 2021. The latter has raised theoretical questions on the 'greenness' of the bond, as it would be used to both finance green projects and refinance AT1 paper. That said, in practice, banks' funds are fungible, so that the format in which the ESG bonds are issued makes little difference, as long as the bank has enough ESG assets to fund.

The trend in the **secondary market** last week was mixed, albeit with the tightening observed early in the week reversing somewhat on Thursday and Friday. SP tightened marginally on aggregate (particularly in EUR), so did SNP (particularly in USD), yet Tier 2 paper widened marginally (particularly in USD).

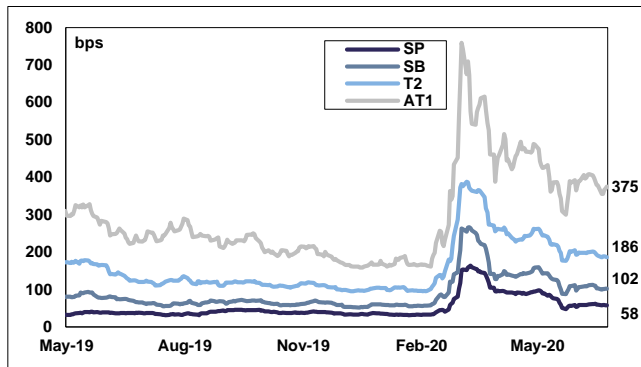
### Key Transactions

Bank	Rank	Amount	Maturity	Final Spread (bps)	IPT (bps)	NIC (bps)	Book Orders
<b>Rabobank</b>	AT1	EUR1bn	PNC7.5	4.375% (coupon)	4.75% (coupon)	-	EUR3bn
<b>BBVA</b>	AT1	EUR1bn	PNC5.5	6.0% (coupon)	6.5% (coupon)	0	>EUR2.75bn
<b>BBVA</b>	Tier 2	GBP300m	11NC6	G + 315	G + 315	-	>GBP300m
<b>SocGen</b>	SP	AUD	3Y	3mBBSW +93	3mBBSW + 105	-	-
<b>Bankinter</b>	AT1	EUR350m	PNC6	6.25% (coupon)	6.5% (coupon)	-	EUR800m

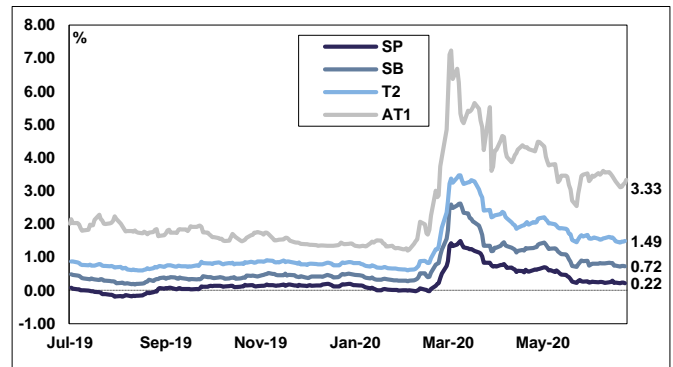
Source BondRadar, Bloomberg.

## Western European Banks EUR Spreads and Yields

### Aggregate Z-spread LTM (bps)



### Aggregate Yields LTM (bps)



Source: Bloomberg, Daiwa Capital Markets Europe. SP = Senior Preferred/Senior OpCo; SB = Senior Non-Preferred/Senior HoldCo; T2= Tier 2; AT1 = Additional Tier 1. All figures based on Z to worst spread of public benchmark issuances.

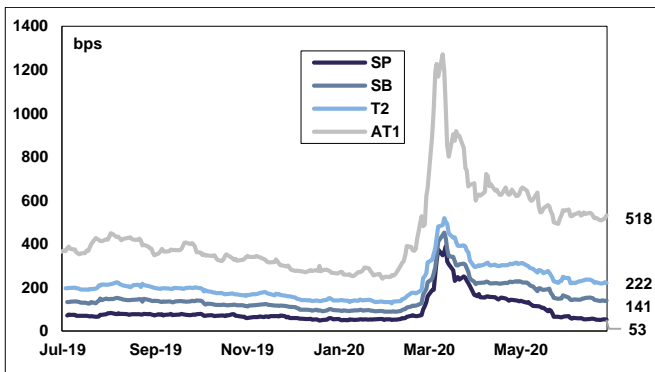
### Selected Names

	Sr Preferred/Sr OpCo					Sr Non-Preferred/Sr HoldCo					Tier 2				
	Dur.	Yield	Z	Z 5DΔ	Z YTD	Dur.	Yield	Z	Z 5DΔ	Z YTD	Dur.	Yield	Z	Z 5DΔ	Z YTD
Commerz	4.8	0.7	97	-2	48	4.1	1.2	153	1	80	5.1	3.3	358	6	161
Barclays	3.8	0.5	76	-5	33	3.3	0.8	108	-3	53	4.9	2.4	236	-5	115
BBVA	4.8	0.5	81	-3	31	4.4	0.9	125	-1	68	5.9	2.0	235	16	120
BFCM	4.0	0.2	49	-1	18	9.2	0.8	97	0	36	5.3	1.4	163	-2	71
BNPP	2.6	0.0	37	-1	17	5.2	0.7	100	-1	43	5.0	1.3	147	1	67
BPCE	3.7	0.2	53	-1	24	4.6	0.7	97	-1	45	2.8	1.0	121	-2	64
Credit Ag.	3.4	0.1	43	-1	12	5.6	0.7	94	0	42	5.1	1.8	204	2	74
Credit Sui.						6.7	0.9	119	1	49					
Danske	2.9	0.1	46	-1	10	2.8	0.9	120	-2	44	6.3	2.0	226	1	79
Deutsche	4.8	0.7	99	-4	13	2.8	1.5	172	-2	48	4.9	3.6	386	-7	92
DNB	3.3	0.1	42	0	11						6.9	1.2	151	-1	92
HSBC	3.2	0.2	51	-1	15	3.1	0.4	73	5	29	5.9	1.0	130	19	46
ING	1.6	0.0	37	-3	23	5.1	0.4	74	-1	26	5.4	1.3	165	-1	70
Intesa	4.6	1.0	132	-2	54						5.4	2.5	273	7	120
Lloyds	2.1	-0.1	19	-5	-6	3.9	0.7	99	-5	46	7.6	1.8	209	-1	95
Nordea	4.5	0.0	31	0	4	2.9	0.3	66	-1	28	2.3	1.2	118	-2	68
Rabobank	2.6	-0.1	24	0	8	6.2	0.4	72	-1	33	2.8	0.5	83	-2	35
RBS						3.5	1.0	133	-6	56					
Santander	3.9	0.3	61	-1	20	5.3	1.0	128	2	52	5.6	1.8	207	6	106
San UK	3.0	0.1	45	-3	13	3.4	0.9	130	-3	67					
SocGen	1.9	0.2	51	-2	24	6.1	1.1	133	0	62	4.2	1.3	156	-3	67
StanChart						6.8	1.0	123	1	52	2.3	1.4	90	7	42
Swedbank	4.7	0.3	61	-1		4.2	0.5	84	0	20	7.1	1.4	173	-1	72
UBS	1.4	0.0	35	-1	16	3.5	0.4	79	-2	37					
UniCredit	4.2	1.2	148	-3	63	5.3	2.0	226	-2	92	2.7	3.2	338	6	145

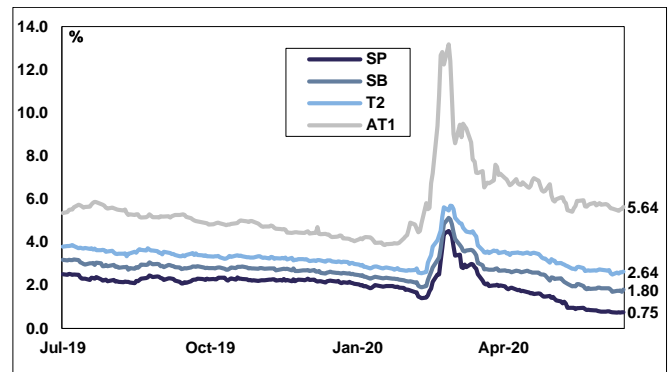
Source: Bloomberg, Daiwa Capital Markets Europe. Dur.= Duration. Yield= Yield to worst (%). Z = Z-Spread to Worst (bps). Z 5DΔ = last 5 days Z-spread net change (bps). Z YTD = year to date Z-Spread net change (bps). Blank cells represent lack of statistically significant data. Figures may not be representative of the whole market.

## Western European Banks USD Spreads and Yields

### Aggregate Z-spread LTM (bps)



### Aggregate Yields LTM (bps)



Source: Bloomberg, Daiwa Capital Markets Europe. SP = Senior Preferred/Senior OpCo; SB = Senior Non- Preferred/ Senior HoldCo; T2= Tier 2; AT1 = Additional Tier 1. All figures based on Z to worst spread of public benchmark issuances.

### Selected Names

	Sr Preferred/Sr OpCo					Sr Non-Preferred/Sr HoldCo					Tier 2				
	Dur.	Yield	Z	Z 5D $\Delta$	Z YTD	Dur.	Yield	Z	Z 5D $\Delta$	Z YTD	Dur.	Yield	Z	Z 5D $\Delta$	Z YTD
Barclays	2.6	0.9	65	1	15	4.5	1.8	145	1	40	5.5	3.1	258	0	85
BFCM	2.3	0.8	59	0	15										
BNPP	1.8	0.4	18	4	-13	4.6	1.7	132	-5	44	5.2	2.3	191	-2	68
BPCE	2.4	0.9	66	-3	14	4.3	1.9	146	-2	41	3.7	2.3	192	4	80
Credit Ag.	2.2	1.0	74	-3	17	3.9	1.5	107	-3	32	8.3	2.4	177	0	59
Credit Sui.	1.7	0.7	45	2	10	4.7	1.8	115	-1	41					
Danske	1.6	1.0	74	-2	5	3.0	1.9	141	-4	51					
Deutsche						3.0	2.5	204	-14	60	6.6	6.1	549	-6	151
HSBC	4.0	1.7	142	-12	33	5.0	1.9	138	4	46	10.7	3.1	245	8	116
ING	1.1	0.5	24	-5	0	4.9	1.3	94	-1	18	4.2	2.7	238	1	86
Intesa	3.6	2.3	202	0	74						4.1	4.4	398	19	166
Lloyds	3.2	1.3	97	-16	31	3.7	1.4	103	-10	21	5.0	2.4	198	-8	65
Nordea	2.9	0.6	38	-5		2.9	1.4	103	-10	16	2.1	1.4	103	-16	35
Rabobank	2.4	0.6	38	0	2	3.8	1.2	78	-4	7	4.9	1.8	138	0	46
RBS						4.2	1.8	144	-1	42	3.1	2.5	212	0	88
Santander	5.8	1.8	134	-2	47	5.2	2.2	177	0	58	4.7	2.7	231	6	115
San UK	2.4	0.8	60	-2	17	2.9	1.4	93	-2	22	4.6	3.0	255	-10	91
SocGen	4.8	1.3	96	-8		4.1	2.1	174	-1	74	4.5	2.9	245	-1	96
StanChart	0.9	1.2	94	-16	-158	4.4	2.3	178	2	73	5.7	3.1	269	3	115
UBS	9.8	1.5	98	-4	52	4.7	1.5	106	-2	33					
UniCredit	2.3	2.9	266	0	91	2.2	2.8	237	-15	104	7.5	5.2	456	0	128

Source: Bloomberg, Daiwa Capital Markets Europe. Dur.= Duration. Yield= Yield to worst (%). Z = Z-Spread to Worst (bps). Z 5D $\Delta$  = last 5 days Z-spread net change (bps). Z YTD = year to date Z-Spread net change (bps). Blank cells represent lack of statistically significant data. Figures may not be representative of the whole market.

## Credit Research

### Key contacts

<i>London</i>		
<i>Head of Research</i>	<i>Chris Scicluna</i>	+44 20 7597 8326
<i>Financials, Supras/Sovereigns &amp; Agencies</i>	<i>Israel Da Costa, CFA</i>	+44 20 7597 8355
<i>Research Assistant</i>	<i>Katherine Ludlow</i>	+44 20 7597 8318
<i>Tokyo</i>		
<i>Domestic Credit</i>		
<i>Chief Credit Analyst</i>	<i>Toshiyasu Ohashi</i>	+81 3 5555 8753
<i>Electronics, Automobiles, Non-Banks, Real Estate, REIT</i>	<i>Takao Matsuzaka</i>	+81 3 5555 8763
<i>Chemicals, Iron &amp; Steel</i>	<i>Kazuaki Fujita</i>	+81 3 5555 8765
<i>International Credit</i>		
<i>Non-Japanese/Samurai, European Sovereigns</i>	<i>Hiroaki Fujioka</i>	+81 3 5555 8761
<i>Non-Japanese/Samurai</i>	<i>Fumio Taki</i>	+81 3 5555 8787
<i>Non-Japanese</i>	<i>Jiang Jiang</i>	+81 3 5555 8755
<i>London Translation</i>		
<i>Head of Translation, Economic and Credit</i>	<i>Mariko Humphris</i>	+44 20 7597 8327

## DAIR <GO>

All of the research published by the London and New York research teams is available on our Bloomberg page at DAIR <GO>.

Access our research at:

<http://www.uk.daiwacm.com/ficc-research/research-reports>



Follow us  
[@DaiwaEurope](https://twitter.com/DaiwaEurope)

This document is produced by Daiwa Securities Co. Ltd and/or its affiliates and is distributed by Daiwa Capital Markets Europe Limited in the European Union, Iceland, Liechtenstein, Norway and Switzerland. Daiwa Capital Markets Europe Limited is authorised and regulated by The Financial Conduct Authority, is a member of the London Stock Exchange and an exchange participant of Eurex. Daiwa Capital Markets Europe Limited and its affiliates may, from time to time, to the extent permitted by law, participate or invest in, or be mandated in respect of, other transactions with the issuer(s) referred to herein, perform services for or solicit business from such issuer(s), and/or have a position or effect transactions in a particular issuer's securities or options thereof and/or may have acted as an underwriter during the past twelve months in respect of a particular issuer of its securities. In addition, employees of Daiwa Capital Markets Europe Limited and its affiliates may have positions and effect transactions in such securities or options and may serve as Directors of a particular issuer. Daiwa Capital Markets Europe Limited may, to the extent permitted by applicable UK law and other applicable law or regulation, effect transactions in securities of a particular issuer 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 is part of Daiwa Securities Group Inc. 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 market making activities, derivatives in respect of such securities or may have also performed investment banking and other services for the issuer of such securities. Daiwa Securities Group Inc., its subsidiaries or affiliates do and seek to do business with the company(s) covered in this research report. Therefore, investors should be aware that a conflict of interest may exist.

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 <http://www.us.daiwacm.com/>.

The statements in the preceding paragraphs are made as of July 2020.

## Explanatory Document of Unregistered Credit Ratings

In order to ensure the fairness and transparency in the markets, Credit Rating Agencies became subject to the Credit Rating Agencies' registration system based on the Financial Instruments and Exchange Act. In accordance with this Act, in soliciting customers, Financial Instruments Business Operators, etc. shall not use the credit ratings provided by unregistered Credit Rating Agencies without informing customers of the fact that those Credit Rating Agencies are not registered, and shall also inform customers of the significance and limitations of credit ratings, etc.

### ■ The Significance of Registration

Registered Credit Rating Agencies are subject to the following regulations:

- 1) Duty of good faith.
- 2) Establishment of control systems (fairness of the rating process, and prevention of conflicts of interest, etc.).
- 3) Prohibition of the ratings in cases where Credit Rating Agencies have a close relationship with the issuers of the financial instruments to be rated, etc.
- 4) Duty to disclose information (preparation and publication of rating policies, etc. and public disclosure of explanatory documents).

In addition to the above, Registered Credit Rating Agencies are subject to the supervision of the Financial Services Agency ("FSA"), and as such may be ordered to produce reports, be subject to on-site inspection, and be ordered to improve business operations, whereas unregistered Credit Rating Agencies are free from such regulations and supervision.

### ■ Credit Rating Agencies

#### [Standard & Poor's]

##### The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: S&P Global Ratings ("Standard & Poor's")

The name and registration number of the Registered Credit Rating Agency in the group: S&P Global Ratings Japan Inc. (FSA commissioner (Rating) No.5)

##### How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating Information" (<http://www.standardandpoors.co.jp/unregistered>) in the "Library and Regulations" section on the website of S&P Global Ratings Japan Inc. (<http://www.standardandpoors.co.jp>)

##### Assumptions, Significance and Limitations of Credit Ratings

Credit ratings assigned by Standard & Poor's are statements of opinion on the future credit quality of specific issuers or issues as of the date they are expressed and they are not indexes which show the probability of the occurrence of the failure to pay by the issuer or a specific debt and do not guarantee creditworthiness. Credit ratings are not a recommendation to purchase, sell or hold any securities, or a statement of market liquidity or prices in the secondary market of any issues.

Credit ratings may change depending on various factors, including issuers' performance, changes in external environment, performance of underlying assets, creditworthiness of counterparties and others. Standard & Poor's conducts rating analysis based on information it believes to be provided by the reliable source and assigns credit ratings only when it believes there is enough information in terms of quality and quantity to make a conclusion. However, Standard & Poor's does not perform an audit, due diligence or independent verification of any information it receives from the issuer or a third party, or guarantee its accuracy, completeness or timeliness of the results by using the information. Moreover, it needs to be noted that it may incur a potential risk due to the limitation of the historical data that are available for use depending on the rating.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of March 7th, 2017, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of S&P Global Ratings Japan Inc. (<http://www.standardandpoors.co.jp>)

#### [Moody's]

##### The Name of the Credit Rating Agencies Group, etc

The name of the Credit Rating Agencies group: Moody's Investors Service ("MIS")

The name and registration number of the Registered Credit Rating Agency in the group: Moody's Japan K.K. (FSA commissioner (Rating) No.2)

##### How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating explanation" in the section on "The use of Ratings of Unregistered Agencies" on the website of Moody's Japan K.K. (The website can be viewed after clicking on "Credit Rating Business" on the Japanese version of Moody's website ([https://www.moody.com/pages/default\\_ja.aspx](https://www.moody.com/pages/default_ja.aspx)))

##### Assumptions, Significance and Limitations of Credit Ratings

Credit ratings are Moody's Investors Service's ("MIS") current opinions of the relative future credit risk of entities, credit commitments, or debt or debt-like securities. MIS defines credit risk as the risk that an entity may not meet its contractual, financial obligations as they come due and any estimated financial loss in the event of default. Credit ratings do not address any other risk, including but not limited to: liquidity risk, market value risk, or price volatility. Credit ratings do not constitute investment or financial advice, and credit ratings are not recommendations to purchase, sell, or hold particular securities. No warranty, express or implied, as to the accuracy, timeliness, completeness, merchantability or fitness for any particular purpose of any such rating or other opinion or information, is given or made by MIS in any form or manner whatsoever.

Based on the information received from issuers or from public sources, the credit risks of the issuers or obligations are assessed. MIS adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MIS considers to be reliable. However, MIS is not an auditor and cannot in every instance independently verify or validate information received in the rating process.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of April 16th, 2018, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Moody's Japan K.K. ([https://www.moody.com/pages/default\\_ja.aspx](https://www.moody.com/pages/default_ja.aspx))

#### [Fitch]

##### The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: Fitch Ratings ("Fitch")

The name and registration number of the Registered Credit Rating Agency in the group: Fitch Ratings Japan Limited (FSA commissioner (Rating) No.7)

##### How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Outline of Rating Policies" in the section of "Regulatory Affairs" on the website of Fitch Ratings Japan Limited (<https://www.fitchratings.com/site/japan>)

##### Assumptions, Significance and Limitations of Credit Ratings

Ratings assigned by Fitch are opinions based on established criteria and methodologies. Ratings are not facts, and therefore cannot be described as being "accurate" or "inaccurate". Credit ratings do not directly address any risk other than credit risk. Credit ratings do not comment on the adequacy of market price or market liquidity for rated instruments. Ratings are relative measures of risk; as a result, the assignment of ratings in the same category to entities and obligations may not fully reflect small differences in the degrees of risk. Credit ratings, as opinions on relative ranking of vulnerability to default, do not imply or convey a specific statistical probability of default.

In issuing and maintaining its ratings, Fitch relies on factual information it receives from issuers and underwriters and from other sources Fitch believes to be credible. Fitch conducts a reasonable investigation of the factual information relied upon by it in accordance with its ratings methodology, and obtains reasonable verification of that information from independent sources, to the extent such sources are available for a given security or in a given jurisdiction. The assignment of a rating to any issuer or any security should not be viewed as a guarantee of the accuracy, completeness, or timeliness of the information relied on in connection with the rating or the results obtained from the use of such information. If any such information should turn out to contain misrepresentations or to be otherwise misleading, the rating associated with that information may not be appropriate. Despite any verification of current facts, ratings can be affected by future events or conditions that were not anticipated at the time a rating was issued or affirmed.

For the details of assumption, purpose and restriction of credit ratings, please refer to "Definitions of ratings and other forms of opinion" on the website of Fitch Rating Japan Limited.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of September 27th, 2019, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Fitch Rating Japan Limited (<https://www.fitchratings.com/site/japan>)

February 2020