

## **Macquarie Group Limited**

## **Full Rating Report**

#### Ratings

**Foreign Currency** 

Long-Term IDR Short-Term IDR	A- F2
Viability Rating	a-
Support Rating Support Rating Floor	5 NF
Sovereign Risk Long-Term Foreign-Currency IDR	AAA
Long-Term Local-Currency IDR	AAA

#### **Outlooks**

Long-Term Foreign-Currency	Stable
IDR	
Sovereign Long-Term Foreign-	Stable
Currency IDR	
Sovereign Long-Term Local-	Stable
Currency IDR	

#### **Financial Data**

#### **Macquarie Group Limited**

	31 Mar 19	31 Mar 18
Total assets (USDbn)	144.0	146.7
Total assets (AUDbn)	203.2	191.3
Total equity (AUDbn)	18.0	17.8
Operating profit (AUDbn)	2.0	2.5
Published net income (AUDbn)	3.0	2.6
Comprehensive income (AUDbn)	3.3	2.6
Impaired loans/gross loans (%)	2.5	0.8
Operating profit/average total assets (%)	1.0	1.4
Tangible common equity/tangible assets (%)	7.6	8.8
Loans/customer deposits (%)	140.6	138.1

Source: Fitch Ratings, Fitch Solutions, MGL

## Related Research

Macquarie Group Limited - Ratings Navigator (July 2019) Macquarie Bank Limited - Ratings Navigator (July 2019) Macquarie Bank Limited (August 2019) Macro-Prudential Risk Monitor (April 2019)

## **Analysts**

Tim Roche +61 2 8256 0310 tim.roche@fitchratings.com

Jack Do +61 2 8256 0355 jack.do@fitchratings.com

## **Key Rating Drivers**

Regulators Prioritise Depositor Protection: Macquarie Group Limited's (MGL) Viability Rating (VR) is at the same level as the overall consolidated risk profile of the group. Meanwhile, Macquarie Bank Limited (MBL; A/Stable/a) is rated one notch higher to reflect the strong preference of Australian authorities to prioritise bank depositors and the regulatory restrictions on dividends and liquidity transfers from MBL. MGL has sizeable non-banking operations that are subject to lower regulatory scrutiny, but have greater potential for earnings.

**Strong Risk Controls:** MGL's centralised risk framework appears strong. The group has oversight of risk through a dedicated team, which has supported a strong risk-management culture. The framework sets boundaries for divisions to operate within and helps offset MGL's higher risk appetite relative to retail-oriented Australian banks.

**Conservative Liquidity Management:** A high reliance on wholesale funding is offset by the consolidated group's conservative liquidity management. However, there is limited standalone liquidity at MGL, with liquid assets typically held by operating subsidiaries.

**Solid Capitalisation Buffers:** Fitch Ratings expects MGL to maintain large capital buffers over regulatory minimums, reflecting the group's sound capital management. This helps to offset higher earnings and asset-quality volatility relative to other Australian banking groups. MGL's double leverage is low and likely to remain so, given management targets a ratio under 110%.

**Asset-Quality Cyclicality:** The nature of MGL's operations and its greater exposure to non-retail lending is likely to result in higher average impaired-asset levels through the cycle compared with most retail-oriented domestic peers. MGL's adoption of AASB 9 and Fitch's adoption of stage III loans instead of impaired loans for the impaired loan ratio were the main drivers of the rise in the impaired loan ratio over the financial year to end-March 2019 (FYE19).

**Earnings Volatility Reduced Over Time:** MGL's investment banking and other capital market-oriented operations, which are a core part of the group, drive some earnings volatility from year-to-year. However, the level of potential volatility has significantly reduced compared with prior to the global financial crisis, as MGL expanded its annuity-style businesses, which have more predictable and stable revenues.

**Sovereign Support Unreliable:** Fitch believes support from authorities cannot be relied upon for MGL. Support is more likely to be provided to MBL as the group's deposit-taking institution.

**MFHL's Ratings Equalised:** Macquarie Financial Holdings Pty Limited (MFHL, A-/Stable) is rated at the same level as MGL because it is an integral part of MGL's core non-bank operations, and a default would likely have huge reputational risk for MGL.

## **Rating Sensitivities**

**Balance Sheet Deterioration:** Significant weakening of MGL's risk-management framework, liquidity or capital position could result in a downgrade of MGL's Issuer Default Ratings (IDR) and Viability Rating. MGL's ratings may also be under pressure if there is a large and sustained increase in common-equity double leverage, although Fitch does not expect this to occur.

**Limited Upside:** There is limited upside rating potential given the group's specialised franchise outside Australia and earnings volatility inherent in its market-oriented operations.

www.fitchratings.com 19 August 2019

## **Operating Environment**

MGL is the most internationally active among Fitch-rated banking groups in Australia. Only a third of MGL's group income in FY19 was generated in Australia. North America (primarily the US), Europe and Asia are the main non-domestic markets and many have low systemic risk, as indicated by macro-prudential indicators of '1' – for more details see Macro-Prudential Risk Monitor - April 2019. Geographic diversification and sound regulatory oversight from most of MGL's operating markets should help it withstand economic downturns. One of the key drivers for MBL being rated one notch higher than MGL is the stronger prudential regulation in Australia, which is focused on the protection of bank depositors rather than group creditors.

The operating environment for Australian banks remains challenging following a number of official inquiries into conduct within the sector and growing regulatory oversight. MGL is likely to be less impacted by these factors than other domestic banks given the nature of its business and large overseas operations. Conversely, the geographic spread of operations means it is the most directly exposed of the Australian banks to international developments.

## **Company Profile**

MGL is the listed non-operating holding company of the Macquarie group. Its two main subsidiaries are MBL, which undertakes the group's more traditional banking operations, and MFHL, which undertakes the group's non-banking operations. The group offers a full suite of banking services in Australia. Outside Australia, MGL focuses on niche areas that have superior growth opportunities or where the bank believes it has an expertise advantage.

MGL has five broad operating divisions and its operations are largely client-focused. There are two capital markets-facing businesses – Macquarie Capital Group (MacCap) and Commodities and Global Markets (CGM) – and three businesses with more stable earnings streams – Macquarie Asset Management (MAM), Banking and Financial Services (BFS) and Corporate and Asset Finance (CAF). The divisions are supported by centralised risk management, treasury, IT, finance services, legal and governance.

MGL has a greater exposure to capital-market businesses relative to other Australian banking groups, which increases potential earnings volatility. About 66% of MGL's revenue was generated outside Australia in FY19, which means its profit could be influenced by exchange-rate movements. All operating groups, except BFS, generated most of their revenue overseas in FY19. BFS is Australian-focused, generating all revenue domestically.

## Management and Strategy

MGL's management has a high degree of depth and experience, and senior management tenure tends to be long as a result of promotions typically coming from within the group. Fitch believes this is likely to continue and has played a part in maintaining the consistent group culture and performance.

Although MGL has grown its retail banking operations in recent years, it has historically targeted niches where it has expertise or competitive advantages, which has resulted in reasonable market shares in most of its key operating segments. While Fitch believes this reflects a greater risk appetite relative to most other Australian banks, it has also provided earnings and geographic diversity. Risk is managed well across the organisation – the group provides a centralised framework for the individual businesses to operate within but strategy tends to be driven at the individual business level.

The nature of MGL's operations means it can at times be acquisitive, although the group has shown itself to be disciplined with such transactions. Significant acquisitions are likely to be funded through capital raising or facilities, and sufficient surplus capital is retained on the balance sheet for smaller acquisitions. Expansion tends to be related to an existing business as opposed to greenfield. The group continues to be pragmatic with its business decisions, so that

#### **Related Criteria**

Bank Rating Criteria (October 2018) Short-Term Ratings Criteria (May 2019)



a business is likely to be sold, restructured or placed into run-off if internal capital return hurdles do not meet expectations.

## **Risk Appetite**

MGL has a strong, consistent and proven risk management culture, stemming from a centralised risk management group. This helps offset the group's higher risk appetite relative to most other Australian banking groups. The risk appetite and framework for each of the operating divisions is set at the group level, but risk ownership remains at the operating division level along with strategic development.

Worst-case scenarios are used to analyse proposed businesses and MGL will not proceed if losses threaten the group's viability. More generally, MGL says the group uses worst-case scenarios in stress-testing to monitor exposures and potential losses. These measures are supported by a group-wide exposure limit structure.

MBL has the largest balance sheet within the group, and therefore, the greatest risk exposure. Details of underwriting, growth and market risk can be found in the MBL report listed under Related Research on the front page.

## **Financial Profile**

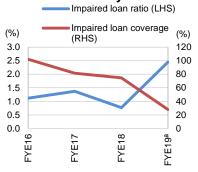
## **Asset Quality**

The structure of MGL's operation means it has a greater level of commercial and non-lending exposure relative to most domestic peers. Fitch believes this will result in greater volatility in asset quality and a higher average impaired-asset level through the cycle, although this was not the reason of the increase in the impaired loan ratio in FYE19. This was due to MGL's adoption of AASB 9 and Fitch's adoption of stage III loans instead of impaired loans for the impaired loan ratio.

MGL's non-trading equity investments totalled AUD5.9 billion at FYE19, or AUD6.1 billion after adjusting for hedging positions and non-controlling interest – the adjusted number was equivalent to 40% of Fitch Core Capital (FYE18: 41%). The group says these exposures are regularly tested for impairment. The group's financial investments, including equities and debt securities at FYE19 were generally of good quality. Around 92% were classified as investment grade under MGL's internal scoring and about 96% was classified as Stage I under AASB 9. Most of these exposures were to Australian financial institutions.

The group's loans (mostly held by MBL) are reasonably well diversified by geography, industry and single name, although there is a level of single-name concentration in the securities and non-listed equity exposures. Equity trading assets totalled AUD8.3 billion, or 54% of FCC, at FYE19 (FYE18: AUD4.5 billion or 27% of FCC). These were mostly held in MBL and were almost entirely listed exposures. These exposures are primarily client-related, limiting the risk to MGL. The level of holdings can vary greatly from year to year, depending on the holdings of physical commodities, market conditions and long equity positions taken.

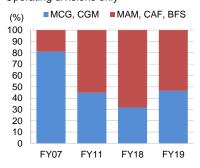
## **MGL Asset Quality**



<sup>a</sup> Stage 3 loans, impaired loans previously Source: Fitch Ratings, Fitch Solutions, MGL

### **MGL Profit Split**

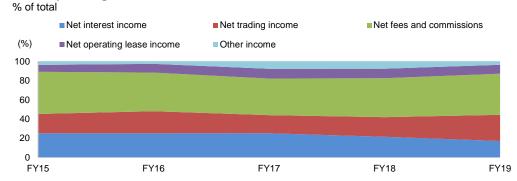
Operating divisions only



Source: Fitch Ratings, MGL

## Earnings and Profitability

## **MGL** Operating Income



Source: Fitch Ratings, Fitch Solutions, MGL

The nature of MGL's operations means that its earnings have the potential to be more variable than those of most Australian retail banks. However, MGL has reduced this through investments into the fund management and leasing businesses, which tend to have more steady income sources than the capital markets businesses. The capital market businesses provide revenue diversity and growth potential in favourable market conditions, such as in FY19 when the segment net profit rose 76% from FY18.

MGL expects FY20 earnings to be moderately weaker than in FY19 due to the expectation that favourable market conditions, which boosted earnings in the CGM and MacCap divisions, will ease. Net fees and commissions are MGL's largest revenue source (AUD4.4 billion or 43% of operating income in FY19) and are generated primarily in MFHL through its fund and asset management activities. MGL's other main revenue sources included net interest income, net trading income and operating lease income, which are primarily earned by MBL.

MGL's cost/income ratio is high relative to Australia's major banks. The ratio sits at about 70% in most financial years and we expect this to continue. Staff costs have traditionally been the largest expense and contain a sizeable variable component. We expect technology and compliance costs to remain high to address increasing digitalisation in the banking system and greater regulatory scrutiny. Impairment charges are typically more volatile and have larger proportions of non-loan charges relative to domestic retail-focused peers. MGL also has a higher level of income that Fitch classifies as non-operating – this is mostly related to asset sales and can vary greatly from year to year depending on the number and size of disposals.

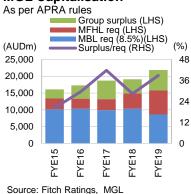
#### Capitalisation and Leverage

MGL's large capital surplus relative to regulatory minimums reflects its sound capital position and capital management. Fitch believes this is likely to continue due to the nature of its business model and risk appetite compared with domestic peers. Internal sources of capital are likely to remain sufficient to meet organic growth and the group retains access to fresh capital from markets if required for acquisitions or expansion.

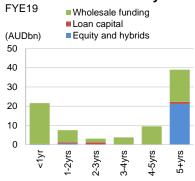
MGL is not required to calculate risk-weighted regulatory capital ratios, but is instead required to hold a nominal capital amount that is calculated by aggregating the minimum capital requirements of the group's banking and non-banking operations. The minimum requirement was AUD15.7 billion at FYE19, with MGL holding AUD6.1 billion surplus to this, assuming an 8.5% Tier 1 ratio for the banking group using the Australian Prudential Regulation Authority's (APRA) Basel III rules (FYE18: AUD14.9 billion requirement and AUD4.2 billion surplus). Surplus levels can vary from year to year due to acquisitions and business opportunities, but typically remain high relatively to minimum requirements.

MGL's tangible common equity/tangible assets fell to 7.6% by FEY19 (FYE18: 8.8%), while common equity double leverage remained low (102% at FYE19). MGL limits the latter to 110%.

## MGL Capitalisation

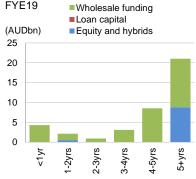


### **MGL Wholesale Maturity**



#### Non-Bank Funding Maturity

Source: Fitch Ratings, MGL



Source: Fitch Ratings, MGL

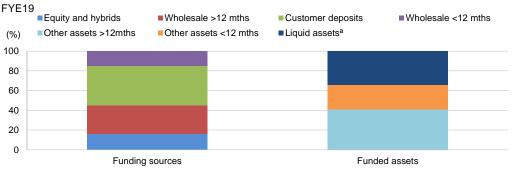
## Funding and Liquidity

MGL relies on wholesale funding for its non-banking group operations as it does not have a banking licence and cannot gather deposits – this activity is undertaken by MBL. The reliance on wholesale funding sources, particularly offshore, presents higher levels of risks, but MGL offsets this through its conservative approach to liquidity management. Liquid assets throughout the group are typically held at the operating subsidiary level rather than the group level, meaning MGL is reliant on interest and dividend payments from subsidiaries to meet debt repayments. This is one of the key reasons Fitch places a one-notch rating difference between the IDRs of MBL and MGL.

The non-bank operations have wholesale funding maturities of AUD4.3 billion in FY20, which are offset by cash and liquid assets of AUD1.8 billion at FYE19 and AUD15.6 billion on deposit with MBL. The deposit reflects excess funding provided to MFHL from MGL and is an important source of liquidity given MFHL does not have access to central bank repurchase facilities.

MGL and MBL are the only entities within the group that issue debt instruments to external investors as the other entities are internally funded. The differing funding and asset structures of bank and non-bank group results in two slightly differing liquidity policies. MGL's (non-banking group) is set so that it is able to meet all of its liquidity obligations over a 12-month period assuming no access to funding markets. MBL's is similar but varies only in that it assumes constrained access to funding markets rather than no access.

#### **MGL Funded Balance Sheet**



<sup>a</sup> Includes self-securitised mortgages in MBL Source: Fitch Ratings, MGL

#### **ESG Considerations**

Unless otherwise disclosed in this section, the highest level of ESG credit relevance is a score of 3 - ESG issues are credit neutral or have only a minimal credit impact on the entity, either due to their nature or the way in which they are being managed by the entity.

For more information on our ESG Relevance Scores, visit www.fitchratings.com/esg



## Annex

<b>Business Groups</b>	
Macquarie Asset Management Macquarie Infrastructure and Real Assets	A full-service asset manager with assets under management (AUM) of AUD543 billion at FYE19.  A global business, specialising in investing in infrastructure and other real assets through public and private funds, co-investments, partnerships and separately managed accounts. It had equity under management of AUD117 billion at FYE19.
Macquarie investment management	Operates largely in Australia and the US, with AUM of AUD361 billion at FYE19. Undertakes MGL's more traditional fund-management operations.
Corporate and Asset Finance Principal finance	Undertakes MGL's corporate lending and asset leasing operations.  This division provides corporate and real-estate loans in primary markets, invests in debt in the secondary markets on an opportunistic basis and a transportation finance portfolio. Portfolio totalled AUD13 billion at FYE19.
Asset finance	MGL's asset-leasing business, which operates globally, covers asset classes such as gas and electricity meters, mining equipment and rail assets. Leases totalled AUD8 billion at FYE19.
Banking and Financial Services	Largely responsible for MGL's retail and small-business banking operations, which are almost exclusively in Australia.
Personal banking	Provides retail-banking products through intermediaries and white-label products.
Wealth management	Conducts MGL's retail wealth-management and stock-broking operations.
Business banking	Provides banking services to SMEs, professionals and high-net-worth individuals.
Commodities and Global Markets  Commodity markets and finance	Combines MGL's commodities and financial markets and securities businesses while retaining a focus on commodities and other niche markets.  A global business that provides risk management, lending and financing, and physical execution and logistics services across the energy, metals and agricultural sectors globally.
Credit markets	Operates in the US and provides asset-backed financing products for credit originators and credit investors across commercial and residential mortgages, consumer loans, syndicated corporate loans and middle-market corporate loans.
Fixed-income and currencies	Provides fixed-income and currency-trading and hedging services to corporate and institutional clients globally.
Cash equities and equity derivatives and trading	Provides an institutional global cash equities platform with a strong Asia-Pacific focus, while the derivatives business offers products to both retail and institutional clients in selected locations.
Futures	Offers access to, and clearing services for, a broad range of major exchanges globally for corporate and institutional clients, including other divisions of MGL.
Central	Operates bespoke and non-divisional services, including fostering cross-sale initiatives within the CGM group.
Macquarie Capital	Comprises MGL's corporate advisory and equity and debt capital-market businesses. It also encompasses the group's private-equity and principal investments.
Source: Fitch Ratings, Macquarie Group Limited	

Macquarie Group Limited August 2019



# Macquarie Group Limited Income Statement

_		31 Mar 2019		31 Mar 2018		31 Mar 2017	31 Mar 2017		
_	Year End	Year End	As % of	Year End	As % of	Year End	As % of	Year End	As % o
	USDm	AUDm	Earning Assets		Earning Assets		Earning Assets		Earning Asset
	Audited -	Audited -		Audited -		Audited -		Audited -	
	Unqualified	Unqualified		Unqualified		Unqualified		Unqualified	
Interest Income on Loans	n.a.	n.a.	_	n.a.	_	n.a.		n.a.	
2. Other Interest Income	3.795.1	5.355.0	3.51	4.943.0	3.27	5.138.0	3.53	5.461.0	3.3
3. Dividend Income	-,	5,355.0 n.a.	3.31	4,943.0 52.0	0.03	95.0	0.07	156.0	0.1
4. Gross Interest and Dividend Income	n.a. <b>3,795.1</b>	5,355.0	3.51	4.995.0	3.31	5,233.0	3.60	5,617.0	3.4
5. Interest Expense on Customer Deposits	3,793.1 n.a.	n.a.	3.31	4,995.0 n.a.	3.31	5,233.0 n.a.	3.00	5,617.0 n.a.	3.4
6. Other Interest Expense	2,547.8	3,595.0	2.35	2,957.0	1.96	2,953.0	2.03	3,182.0	1.9
7. Total Interest Expense	2,547.8 <b>2,547.8</b>	3,595.0	2.35 <b>2.35</b>	2,957.0 <b>2.957.0</b>	1.96	2,953.0 <b>2.953.0</b>	2.03 2.03	3,182.0	1.9
8. Net Interest Income	2,547.8 1,247.3	1,760.0	2.35 1.15	2,957.0	1.35	2,953.0	1.57	2,435.0	1.4
9. Net Fees and Commissions	3,108.4	4,386.0	2.87	3,840.0	2.54	3,446.0	2.37	3,898.0	2.3
10. Net Gains (Losses) on Trading and Derivatives	1,978.0	2,791.0	1.83	1,937.0	1.28	1,694.0	1.16	2,229.0	1.3
11. Net Gains (Losses) on Assets and Liabilities at FV	114.1	161.0	0.11	133.0	0.09	75.0	0.05	(162.0)	(0.10
12. Net Gains (Losses) on Other Securities	12.0	17.0	0.01	76.0	0.05	419.0	0.29	188.0	0.1
13. Net Insurance Income	n.a.	n.a.		n.a.		33.0	0.02	72.0	0.0
14. Other Operating Income	838.4	1,183.0	0.77	1,199.0	0.79	1,059.0	0.73	1,019.0	0.6
15. Total Non-Interest Operating Income	6,050.9	8,538.0	5.59	7,185.0	4.76	6,726.0	4.62	7,244.0	4.4
16. Total Operating Income	7,298.2	10,298.0	6.74	9,223.0	6.11	9,006.0	6.19	9,679.0	5.9
17. Personnel Expenses	3,697.3	5,217.0	3.42	4,493.0	2.98	4,379.0	3.01	4,244.0	2.6
18. Other Operating Expenses	1,793.0	2,530.0	1.66	2,133.0	1.41	2,029.0	1.40	2,007.0	1.2
19. Total Non-Interest Expenses	5,490.3	7,747.0	5.07	6,626.0	4.39	6,408.0	4.41	6,251.0	3.8
20. Equity-accounted Profit/ Loss - Operating	(39.7)	(56.0)	(0.04)	241.0	0.16	51.0	0.04	4.0	0.0
21. Pre-Impairment Operating Profit	1,768.2	2,495.0	1.63	2,838.0	1.88	2,649.0	1.82	3,432.0	2.1
22. Loan Impairment Charge	185.7	262.0	0.17	63.0	0.04	271.0	0.19	553.0	0.3
23. Securities and Other Credit Impairment Charges	187.8	265.0	0.17	226.0	0.15	74.0	0.05	169.0	0.1
24. Operating Profit	1,394.7	1,968.0	1.29	2,549.0	1.69	2,304.0	1.58	2,710.0	1.6
25. Equity-accounted Profit/ Loss - Non-operating	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
26. Goodwill Impairment	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
27. Non-recurring Income	586.1	827.0	0.54	768.0	0.51	613.0	0.42	160.0	0.1
28. Non-recurring Expense	17.7	25.0	0.02	77.0	0.05	99.0	0.07	77.0	0.0
29. Change in Fair Value of Own Debt	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
30. Other Non-operating Income and Expenses	777.4	1,097.0	0.72	224.0	0.15	286.0	0.20	222.0	0.1
31. Pre-tax Profit	2,740.5	3,867.0	2.53	3,464.0	2.29	3,104.0	2.13	3,015.0	1.8
32. Tax expense	622.9	879.0	0.58	883.0	0.58	868.0	0.60	927.0	0.5
33. Profit/Loss from Discontinued Operations	n.a.	n.a.		n.a.		n.a.		n.a.	
34. Net Income	2,117.6	2,988.0	1.96	2,581.0	1.71	2,236.0	1.54	2,088.0	1.2
35. Change in Value of AFS Investments	(43.9)	(62.0)	(0.04)	(376.0)	(0.25)	(162.0)	(0.11)	112.0	0.0
36. Revaluation of Fixed Assets	n.a.	n.a.	,	n.a.	-	n.a.	-	n.a.	
37. Currency Translation Differences	299.1	422.0	0.28	263.0	0.17	(130.0)	(0.09)	(188.0)	(0.12
38. Remaining OCI Gains/(losses)	(59.5)	(84.0)	(0.06)	93.0	0.06	(16.0)	(0.01)	(33.0)	(0.02
39. Fitch Comprehensive Income	2,313.2	3,264.0	2.14	2,561.0	1.70	1,928.0	1.33	1,979.0	1.2
40. Memo: Profit Allocation to Non-controlling Interests	4.3	6.0	0.00	24.0	0.02	19.0	0.01	25.0	0.0
41. Memo: Net Income after Allocation to Non-controlling Interests	2.113.3	2.982.0	1.95	2,557.0	1.69	2,217.0	1.52	2.063.0	1.2
42. Memo: Common Dividends Relating to the Period	1,385.5	1,955.0	1.28	1.785.0	1.18	1,597.0	1.10	1,357.0	0.8
43. Memo: Preferred Dividends and Interest on Hybrid Capital Accounted	n.a.	n.a.	1.20	1,765.0	0.01	15.0	0.01	17.0	0.0
for as Equity Related to the Period	II.a.	II.d.	-	14.0	0.01	13.0	0.01	17.0	0.0
Exchange rate	US	D1 = AUD1.411034	4 US	D1 = AUD1.30463	US	D1 = AUD1.3082	USI	D1 = AUD1.306	



# Macquarie Group Limited Balance Sheet

	V	31 Mar 2019	A = 0/ - 1	31 Mar 2018		31 Mar 2017		31 Mar 2016	A = 0/
	Year End USDm	Year End AUDm	As % of Assets	Year End AUDm	As % of Assets	Year End AUDm	As % of Assets	Year End AUDm	As % o
ssets									
. Loans 1. Residential Mortgage Loans	30,513.8	43,056.0	21.19	36,937.0	19.31	32,791.0	17.93	31,378.0	15.9
2. Other Mortgage Loans	0.0	0.0	0.00	0.0	0.00	n.a.	-	n.a.	
3. Other Consumer/ Retail Loans	n.a.	n.a.		n.a.		n.a.	-	n.a.	
Corporate & Commercial Loans     Other Loans	10,864.4	15,330.0 20,628.0	7.54 10.15	15,157.0 29,966.0	7.92 15.66	15,928.0 29,379.0	8.71 16.06	18,651.0 31,738.0	9.4 16.1
6. Less: Loan Loss Allowances	14,619.1 382.7	540.0	0.27	470.0	0.25	29,379.0 874.0	0.48	933.0	0.4
7. Net Loans	55,614.5	78,474.0	38.62	81,590.0	42.64	77,224.0	42.23	80,834.0	41.0
8. Gross Loans	55,997.2	79,014.0	38.89	82,060.0	42.89	78,098.0	42.71	81,767.0	41.5
9. Memo: Impaired Loans included above	1,371.3	1,935.0	0.95	630.0	0.33	1,071.0	0.59	915.0	0.4
10. Memo: Specific Loan Loss Allowances  Other Earning Assets	n.a.	n.a.		177.0	0.09	417.0	0.23	413.0	0.2
Loans and Advances to Banks	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
2. Reverse Repos and Securities Borrowing	20,798.9	29,348.0	14.44	28,990.0	15.15	18,154.0	9.93	24,066.0	12.2
3. Derivatives	10,245.7	14,457.0	7.12	12,937.0	6.76	12,106.0	6.62	17,983.0	9.1
4. Trading Securities and at FV through Income	14,609.1	20,614.0	10.15	16,579.0	8.67	27,874.0	15.24	24,718.0	12.5
Securities at FV through OCI / Available for Sale     Securities at Amortised Cost / Held to Maturity	3,697.3 n.a.	5,217.0 n.a.	2.57	6,166.0 n.a.	3.22	6,893.0 n.a.	3.77	11,456.0 n.a.	5.8
7. Other Securities	n.a.	n.a.		n.a.		n.a.		n.a.	
8. Total Securities	18,306.4	25,831.0	12.71	22,745.0	11.89	34,767.0	19.01	36,174.0	18.3
9. Memo: Government Securities included Above	3,929.7	5,545.0	2.73	6,457.0	3.37	7,371.0	4.03	6,982.0	3.5
10. Memo: Total Securities Pledged	1,222.5	1,725.0	0.85	3,359.0	1.76	5,709.0	3.12	5,136.0	2.6
11. Equity Investments in Associates	2,990.0	4,219.0	2.08	4,055.0	2.12	2,095.0	1.15	2,691.0	1.0
12. Investments in Property 13. Insurance Assets	n.a. 270.0	n.a. 381.0	0.19	n.a. 647.0	0.34	380.0 721.0	0.21 0.39	288.0 850.0	0. 0.
14. Other Earning Assets	n.a.	n.a.	0.19	n.a.	0.54	n.a.	0.55	n.a.	0
15. Total Earning Assets	108,225.6	152,710.0	75.16	150,964.0	78.90	145,447.0	79.53	162,886.0	82.
Non-Earning Assets	2 222 2	0.707.0	1.00	0.500.0	5.00	0.047.0	5.00	0.000.0	
Cash and Due From Banks     Memo: Mandatory Reserves included above	6,936.0	9,787.0	4.82	9,569.0	5.00	9,317.0	5.09	9,062.0 n.a.	4.0
3. Foreclosed Assets	n.a. n.a.	n.a. n.a.		n.a. n.a.		n.a. n.a.		n.a.	
4. Fixed Assets	3,331.6	4,701.0	2.31	11,426.0	5.97	11,009.0	6.02	11,521.0	5.
5. Goodwill	731.4	1,032.0	0.51	469.0	0.25	442.0	0.24	525.0	0.
6. Other Intangibles	708.0	999.0	0.49	524.0	0.27	567.0	0.31	553.0	0.
7. Current Tax Assets	281.4	397.0	0.20	376.0	0.20	471.0	0.26	476.0	0
B. Deferred Tax Assets	730.7	1,031.0	0.51	650.0	0.34	638.0	0.35	850.0	0.
9. Discontinued Operations 10. Other Assets	n.a.	n.a. 32,525.0	16.01	n.a. 17,347.0	9.07	n.a. 14,986.0	8.19	n.a. 10,882.0	-
11. Total Assets	23,050.5 <b>143,995.1</b>	203,182.0	100.00	191,325.0	100.00	182,877.0	100.00	196,755.0	5. <b>100.</b>
iabilities and Equity		·		·		·		·	
. Interest-Bearing Liabilities									
Total Customer Deposits	39,822.6	56,191.0	27.66	59,412.0	31.05	57,708.0	31.56	52,245.0	26.
Deposits from Banks     Repos and Securities Lending	n.a. 3,428.7	n.a. 4,838.0	2.38	10,057.0 5,383.0	5.26 2.81	10,125.0 6,947.0	5.54 3.80	14,799.0 9,061.0	7. 4.
Commercial Paper and Short-term Borrowings	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.
5. Customer Deposits and Short-term Funding	43,251.3	61,029.0	30.04	74,852.0	39.12	74,780.0	40.89	76,105.0	38.
6. Senior Unsecured Debt	35,568.2	50,188.0	24.70	53,717.0	28.08	50,828.0	27.79	63,685.0	32.
7. Subordinated Borrowing	2,150.9	3,035.0	1.49	2,855.0	1.49	2,880.0	1.57	3,322.0	1.
8. Covered Bonds	n.a.	n.a.	4.50	n.a.	-	n.a.	-	n.a.	
9. Other Long-term Funding  10. Total LT Funding	6,603.7 <b>44,322.8</b>	9,318.0 <b>62,541.0</b>	4.59 <b>30.78</b>	n.a. <b>56,572.0</b>	29.57	n.a. <b>53,708.0</b>	29.37	n.a. <b>67,007.0</b>	34.
11. Memo: o/w matures in less than 1 year	n.a.	n.a.	30.76	n.a.	29.31	n.a.	25.51	n.a.	J <del>4</del> .
12. Trading Liabilities	5,746.1	8,108.0	3.99	10,424.0	5.45	7,471.0	4.09	7,702.0	3.
13. Total Funding	93,320.2	131,678.0	64.81	141,848.0	74.14	135,959.0	74.34	150,814.0	76.
14. Derivatives	8,976.4	12,666.0	6.23	11,925.0	6.23	11,128.0	6.08	14,744.0	7.
15. Total Funding and Derivatives Non-Interest Bearing Liabilities	102,296.6	144,344.0	71.04	153,773.0	80.37	147,087.0	80.43	165,558.0	84.
Fair Value Portion of Debt	n.a.	n.a.		n.a.		n.a.		n.a.	
2. Credit impairment reserves	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
3. Reserves for Pensions and Other	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
4. Current Tax Liabilities	292.7	413.0	0.20	262.0	0.14	212.0	0.12	469.0	0.
5. Deferred Tax Liabilities	301.2	425.0	0.21	749.0	0.39	621.0	0.34	543.0	0.
6. Other Deferred Liabilities	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
7. Discontinued Operations 8. Insurance Liabilities	n.a. 267.2	n.a. 377.0	0.19	n.a. 640.0	0.33	n.a. 714.0	0.39	n.a. 771.0	0.
9. Other Liabilities	25,039.1	35,331.0	17.39	15,184.0	7.94	14,105.0	7.71	11,863.0	6
10. Total Liabilities	128,196.8	180,890.0	89.03	170,608.0	89.17	162,739.0	88.99	179,204.0	91.
Hybrid Capital	0.700.0	2 200 2	4.00	0.507.0	1.00	0.000.0	4.57	1 007 0	
Prof. Shares and Hybrid Capital accounted for as Debt	2,783.8 282.1	3,928.0 398.0	1.93	2,537.0 400.0	1.33	2,868.0 401.0	1.57 0.22	1,887.0 403.0	0
2. Pref. Shares and Hybrid Capital accounted for as Equity  Equity	202.1	J30.U	0.20	400.0	0.21	401.0	0.22	403.0	0
1. Common Equity	11,325.7	15,981.0	7.87	15,051.0	7.87	14,157.0	7.74	13,568.0	6
2. Non-controlling Interest	150.2	212.0	0.10	1,432.0	0.75	1,316.0	0.72	157.0	0.
Securities Revaluation Reserves	6.4	9.0	0.00	17.0	0.01	393.0	0.21	555.0	0
4. Foreign Exchange Revaluation Reserves	584.0	824.0	0.41	375.0	0.20	248.0	0.14	377.0	0
5. Fixed Asset Revaluations and Other Accumulated OCI	666.2	940.0	0.46	905.0	0.47	755.0	0.41	604.0	0.
<ol><li>Total Equity</li><li>Memo: Equity plus Pref. Shares and Hybrid Capital accounted for as E</li></ol>	<b>12,732.5</b> 13,014.6	17,966.0 18 364.0	<b>8.84</b> 9.04	17,780.0 18 180.0	<b>9.29</b> 9.50	16,869.0	<b>9.22</b> 9.44	<b>15,261.0</b>	<b>7.</b> 7.
<ol> <li>Memo: Equity plus Pref. Shares and Hybrid Capital accounted for as E</li> <li>Total Liabilities and Equity</li> </ol>	13,014.6 143,995.1	18,364.0 <b>203,182.0</b>	100.00	18,180.0 <b>191,325.0</b>	9.50 <b>100.00</b>	17,270.0 <b>182,877.0</b>	100.00	15,664.0 <b>196,755.0</b>	100.
9. Memo: Fitch Core Capital	10,863.7	15,329.0	7.54	16,787.0	8.77	15,843.0	8.66	13,876.0	7.
•	,		-						



Macquarie Group Limited Summary Analytics

	31 Mar 2019	31 Mar 2018	31 Mar 2017	31 Mar 2016
	Year End	Year End	Year End	Year End
A. Interest Ratios				
Interest Ratios     Interest Income/ Average Earning Assets	3.43	3.29	3.56	3.61
Interest Income on Loans/ Average Gross Loans	n.a.	n.a.	n.a.	n.a
Interest Expense on Customer Deposits/ Average Customer Deposits	n.a.	n.a.	n.a.	n.a.
Interest Expense on Customer Deposits Average Customer Deposits     Interest Expense/ Average Interest-bearing Liabilities	2.38	1.94	1.86	1.92
Interest Expense/ Average Interest-bearing Liabilities     Net Interest Income/ Average Earning Assets	2.36 1.13	1.34	1.55	1.92
Net Interest income/ Average Lanning Assets     Net Int. Inc Less Loan Impairment Charges/ Av. Earning Assets	0.96	1.30	1.37	1.21
7. Net Interest Inc Less Preferred Stock Dividend/ Average Earning Assets	1.13	1.33	1.54	
3. Other Operating Profitability Ratios	1.13	1.33	1.54	1.56
Operating Profit/ Risk Weighted Assets	n.a.	n.a.	n.a.	n.a.
2. Non-Interest Expense/ Gross Revenues	75.23	71.84	71.15	64.58
3. Loans and securities impairment charges/ Pre-impairment Op. Profit	21.12	10.18	13.02	21.04
Operating Profit/ Average Total Assets	0.98	1.36	1.21	1.37
5. Non-Interest Income/ Gross Revenues	82.91	77.90	74.68	74.84
6. Non-Interest Expense/ Average Total Assets	3.87	3.52	3.36	3.16
7. Pre-impairment Op. Profit/ Average Equity	14.25	16.58	16.84	23.41
Pre-impairment Op. Profit/ Average Total Assets	1.25	1.51	1.39	1.73
Operating Profit/ Average Equity	11.24	14.89	14.65	18.49
C. Other Profitability Ratios	11,27	14.00	14.00	10.40
Net Income/ Average Total Equity	17.07	15.08	14.21	14.24
2. Net Income/ Average Total Assets	1.49	1.37	1.17	1.05
3. Fitch Comprehensive Income/ Average Total Equity	18.65	14.96	12.26	13.50
4. Fitch Comprehensive Income/ Average Total Assets	1.63	1.36	1.01	1.00
5. Taxes/ Pre-tax Profit	22.73	25.49	27.96	30.75
6. Net Income/ Risk Weighted Assets	n.a.	n.a.	n.a.	n.a.
D. Capitalization				
FCC/ FCC-Adjusted Risk Weighted Assets	n.a.	n.a.	n.a.	n.a.
2. Tangible Common Equity/ Tangible Assets	7.64	8.82	8.71	7.10
3. Equity/ Total Assets	8.84	9.29	9.22	7.76
4. Basel Leverage Ratio	0.00	n.a.	n.a.	n.a.
5. Common Equity Tier 1 Capital Ratio	0.00	n.a.	n.a.	n.a.
6. Fully Loaded Common Equity Tier 1 Capital Ratio	n.a.	n.a.	n.a.	n.a.
7. Tier 1 Capital Ratio	0.00	n.a.	n.a.	n.a.
8. Total Capital Ratio	n.a.	n.a.	n.a.	n.a.
9. Impaired Loans less Loan Loss Allowances/ Fitch Core Capital	9.10	0.95	1.24	(0.13)
10. Impaired Loans less Loan Loss Allowances/ Equity	7.76	0.90	1.17	(0.12)
11. Cash Dividends Paid & Declared/ Net Income	65.43	69.70	72.09	65.80
12. Risk Weighted Assets/ Total Assets	n.a.	n.a.	n.a.	n.a.
13. Risk Weighted Assets - Standardised/ Risk Weighted Assets	n.a.	n.a.	n.a.	n.a.
14. Risk Weighted Assets - Advanced Method/ Risk Weighted Assets	n.a.	n.a.	n.a.	n.a.
E. Loan Quality				
1. Impaired Loans/ Gross Loans	2.45	0.77	1.37	1.12
2. Growth of Gross Loans	(3.71)	5.07	(4.49)	9.82
3. Loan Loss Allowances/ Impaired Loans	27.91	74.60	81.61	101.97
4. Loan Impairment Charges/ Average Gross Loans	0.33	0.08	0.34	0.71
5. Growth of Total Assets	6.20	4.62	(7.05)	4.67
6. Loan Loss Allowances/ Gross Loans	0.68	0.57	1.12	1.14
7. Net Charge-offs/ Average Gross Loans	0.16	0.38	0.23	0.76
8. Impaired Loans + Foreclosed Assets/ Gross Loans + Foreclosed Assets	2.45	0.77	1.37	1.12
F. Funding and Liquidity				
1. Loans/ Customer Deposits	140.62	138.12	135.33	156.51
2. Liquidity Coverage Ratio	n.a.	n.a.	n.a.	n.a.
3. Customer Deposits/ Total Funding (including Pref. Shares & Hybrids)	41.32	41.03	41.45	34.12
4. Interbank Assets/ Interbank Liabilities	n.a.	n.a.	n.a.	n.a.
5. Net Stable Funding Ratio	n.a.	n.a.	n.a.	n.a.
6. Growth of Total Customer Deposits	(5.42)	2.95	10.46	10.25



# Macquarie Group Limited Reference Data

	V	31 Mar 2019	4 - 0'	31 Mar 2018		31 Mar 2017	A = 0/ = 1	31 Mar 2016	As % of
	Year End USDm	Year End AUDm	As % of Assets	Year End AUDm	As % of Assets	Year End AUDm	As % of Assets	Year End AUDm	As '
	OSDIII	AUDIII	Assets	AUDIII	Assets	AUDIII	Assets	AUDIII	Α3
Off-Balance Sheet Items									
. Managed Securitized Assets Reported Off-Balance Sheet	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
. Other off-balance sheet exposure to securitizations	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
. Guarantees	151.0	213.0	0.10	312.0	0.16	289.0	0.16	249.0	(
. Acceptances and documentary credits reported off-balance sheet	768.9	1,085.0	0.53	1,087.0	0.57	843.0	0.46	765.0	
. Committed Credit Lines	7,454.1	10,518.0	5.18	8,439.0	4.41	9,156.0	5.01	7,417.0	:
. Other Contingent Liabilities	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
. Other Off-Balance Sheet items	2,999.2	4,232.0	2.08	1,760.0	0.92	1,177.0	0.64	1,159.0	
. Total Assets under Management	390,706.4	551,300.0	271.33	496,700.0	259.61	481,700.0	263.40	478,600.0	24
Average Balance Sheet									
. Average Loans	56,350.7	79,512.7	39.13	79,288.0	41.44	79,617.0	43.54	78,068.0	3
. Average Earning Assets	110,500.7	155,920.3	76.74	151,856.7	79.37	147,025.0	80.40	155,408.0	7
. Average Total Assets	141,764.8	200,035.0	98.45	187,987.3	98.26	190,908.3	104.39	197,940.3	10
. Average Managed Securitized Assets (OBS)	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
. Average Interest-Bearing Liabilities	107,235.5	151,313.0	74.47	152,343.3	79.63	158,686.3	86.77	166,104.7	
. Average Common equity	10,872.7	15,341.7	7.55	14,783.3	7.73	13,780.0	7.54	12,777.3	
. Average Equity	12,405.6	17,504.7	8.62	17,115.7	8.95	15,730.3	8.60	14,660.0	
. Average Customer Deposits	39,739.9	56,074.3	27.60	58,708.7	30.69	55,130.3	30.15	50,515.3	
Maturities									
set Maturities:									
ians & Advances < 3 months	n.a.	n.a.		n.a.	_	n.a.	-	n.a.	
pans & Advances 3 - 12 Months	n.a.	n.a.	_	n.a.	_	n.a.	_	n.a.	
ians and Advances 1 - 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ans & Advances > 5 years	n.a.	n.a.		n.a.		n.a.		n.a.	
Jalis & Advances > 5 years	II.a.	II.a.	-	II.a.	=	n.a.	-	ıı.a.	
ebt Securities < 3 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ebt Securities 3 - 12 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ebt Securities 1 - 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ebt Securities > 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
oans & Advances to Banks < 3 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
pans & Advances to Banks 3 - 12 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
pans & Advances to Banks 1 - 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ans & Advances to Banks > 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
bility Maturities:									
etail Deposits < 3 months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
etail Deposits 3 - 12 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
etail Deposits 1 - 5 Years	n.a.	n.a.	_	n.a.	-	n.a.	-	n.a.	
etail Deposits > 5 Years	n.a.	n.a.	_	n.a.	-	n.a.	-	n.a.	
ther Deposits < 3 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ther Deposits 3 - 12 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ther Deposits 1 - 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
ther Deposits > 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
eposits from Banks < 3 Months	n.a.	n.a.		n.a.		n.a.		n.a.	
eposits from Banks 3 - 12 Months	n.a.	n.a.		n.a.		n.a.		n.a.	
			-		=		=		
eposits from Banks 1 - 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
eposits from Banks > 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
enior Debt Maturing < 3 months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
enior Debt Maturing 3-12 Months	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
enior Debt Maturing 1- 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
enior Debt Maturing > 5 Years	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
otal Senior Debt on Balance Sheet	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
air Value Portion of Senior Debt	n.a.	n.a.	-	n.a.		n.a.	-	n.a.	
ubordinated Debt Maturing < 3 months	n.a.	n.a.	_	n.a.	_	n.a.	_	n.a.	
ubordinated Debt Maturing 3-12 Months	n.a.	n.a.	_	n.a.	_	n.a.	-	n.a.	
ubordinated Debt Maturing 3 12 Months	n.a.	n.a.	-	n.a.	-	n.a.	_	n.a.	
ubordinated Debt Maturing > 5 Years	n.a.	n.a.		n.a.		n.a.	-	n.a.	
otal Subordinated Debt on Balance Sheet	2,150.9	3,035.0	1.49	2,855.0	1.49	2,880.0	1.57	3,322.0	
air Value Portion of Subordinated Debt	n.a.	n.a.	-	n.a.	-	n.a.		n.a.	
Risk Weighted Assets									
Risk Weighted Assets	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
Fitch Core Capital Adjustments for Insurance and Securitisation Risk Weighted Asse	n.a.	n.a.		n.a.		n.a.	-	n.a.	
Fitch Core Capital Adjusted Risk Weighted Assets	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
Other Fitch Adjustments to Risk Weighted Assets	n.a.	n.a.	-	n.a.		n.a.	-	n.a.	
Fitch Adjusted Risk Weighted Assets	n.a.	n.a.	-	n.a.	-	n.a.	-	n.a.	
itch Core Capital Reconciliation									
	12,732.5	17 000 0	0.04	17 700 0	0.00	16,869.0	0.00	15 004 0	
Total Equity on reported (including non controlling interests)		17,966.0	8.84	17,780.0	9.29		9.22	15,261.0	
	0.0 0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	
Total Equity as reported (including non-controlling interests) Fair-value adjustments relating to own credit risk on debt issued		0.0	0.00	0.0	0.00	0.0	0.00	0.0	
Fair-value adjustments relating to own credit risk on debt issued Non-loss-absorbing non-controlling interests			0.51	469.0	0.25	442.0	0.24	525.0	
Fair-value adjustments relating to own credit risk on debt issued Non-loss-absorbing non-controlling interests Goodwill	731.4	1,032.0				567.0	0.31	553.0	
Fair-value adjustments relating to own credit risk on debt issued Non-loss-absorbing non-controlling interests Goodwill Other intangibles	731.4 708.0	999.0	0.49	524.0	0.27				
Fair-value adjustments relating to own credit risk on debt issued Non-loss-absorbing non-controlling interests Goodwill Other intangibles Deferred tax assets deduction	731.4 708.0 429.5	999.0 606.0	0.30	0.0	0.00	17.0	0.01	307.0	
Fair-value adjustments relating to own credit risk on debt issued  Non-loss-absorbing non-controlling interests Goodwill Other intangibles Deferred tax assets deduction Net asset value of insurance subsidiaries	731.4 708.0 429.5 0.0	999.0 606.0 0.0	0.30 0.00	0.0 0.0	0.00 0.00	17.0 0.0	0.01 0.00		
Fair-value adjustments relating to own credit risk on debt issued	731.4 708.0 429.5	999.0 606.0	0.30	0.0	0.00	17.0	0.01	307.0	
Fair-value adjustments relating to own credit risk on debt issued  Non-loss-absorbing non-controlling interests Goodwill Other intangibles Deferred tax assets deduction Net asset value of insurance subsidiaries	731.4 708.0 429.5 0.0	999.0 606.0 0.0	0.30 0.00	0.0 0.0	0.00 0.00	17.0 0.0	0.01 0.00	307.0 0.0	
Fair-value adjustments relating to own credit risk on debt issued  Non-loss-absorbing non-controlling interests  Goodwill  Other intangibles  Deferred tax assets deduction  Net asset value of insurance subsidiaries  First loss tranches of off-balance sheet securitizations  Fund for general banking risks if not already included and readily convertible into equi	731.4 708.0 429.5 0.0 0.0	999.0 606.0 0.0 0.0	0.30 0.00 0.00	0.0 0.0 0.0	0.00 0.00 0.00	17.0 0.0 0.0	0.01 0.00 0.00	307.0 0.0 0.0 0.0	
Fair-value adjustments relating to own credit risk on debt issued  Non-loss-absorbing non-controlling interests  Goodwill  Other intangibles  Deferred tax assets deduction  Net asset value of insurance subsidiaries  First loss tranches of off-balance sheet securitizations	731.4 708.0 429.5 0.0 0.0	999.0 606.0 0.0 0.0	0.30 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00	17.0 0.0 0.0 0.0	0.01 0.00 0.00 0.00	307.0 0.0 0.0	

The ratings above were solicited and assigned or maintained at the request of the rated entity/issuer or a related third party. Any exceptions follow below.

ALL FITCH CREDIT RATINGS ARE SUBJECT TO CERTAIN LIMITATIONS AND DISCLAIMERS. PLEASE READ THESE LIMITATIONS AND DISCLAIMERS BY FOLLOWING THIS LINK: HTTPS://FITCHRATINGS.COM/UNDERSTANDINGCREDITRATINGS. IN ADDITION, RATING DEFINITIONS AND THE TERMS OF USE OF SUCH RATINGS ARE AVAILABLE ON THE AGENCY'S PUBLIC WEB SITE AT WWW.FITCHRATINGS.COM. PUBLISHED RATINGS, CRITERIA, AND METHODOLOGIES ARE AVAILABLE FROM THIS SITE AT ALL TIMES. FITCH'S CODE OF CONDUCT, CONFIDENTIALITY, CONFLICTS OF INTEREST, AFFILIATE FIREWALL, COMPLIANCE, AND OTHER RELEVANT POLICIES AND PROCEDURES ARE ALSO AVAILABLE FROM THE CODE OF CONDUCT SECTION OF THIS SITE. FITCH MAY HAVE PROVIDED ANOTHER PERMISSIBLE SERVICE TO THE RATED ENTITY OR ITS RELATED THIRD PARTIES. DETAILS OF THIS SERVICE FOR RATINGS FOR WHICH THE LEAD ANALYST IS BASED IN AN EU-REGISTERED ENTITY CAN BE FOUND ON THE ENTITY SUMMARY PAGE FOR THIS ISSUER ON THE FITCH WEBSITE.

Copyright © 2019 by Fitch Ratings, Inc., Fitch Ratings Ltd. and its subsidiaries. 33 Whitehall Street, NY, NY 10004. Telephone: 1-800-753-4824, (212) 908-0500. Fax: (212) 480-4435. Reproduction or retransmission in whole or in part is prohibited except by permission. All rights reserved. In issuing and maintaining its ratings and in making other reports (including forecast information), 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 manner of Fitch's factual investigation and the scope of the third-party verification it obtains will vary depending on the nature of the rated security and its issuer, the requirements and practices in the jurisdiction in which the rated security is offered and sold and/or the issuer is located, the availability and nature of relevant public information, access to the management of the issuer and its advisers, the availability of pre-existing third-party verifications such as audit reports, agreed-upon procedures letters, appraisals, actuarial reports, engineering reports, legal opinions and other reports provided by third parties, the availability of independent and competent third-party verification sources with respect to the particular security or in the particular jurisdiction of the issuer, and a variety of other factors. Users of Fitch's ratings and reports should understand that neither an enhanced factual investigation nor any third-party verification can ensure that all of the information Fitch relies on in connection with a rating or a report will be accurate and complete. Ultimately, the issuer and its advisers are responsible for the accuracy of the information they provide to Fitch

The information in this report is provided "as is" without any representation or warranty of any kind, and Fitch does not represent or warrant that the report or any of its contents will meet any of the requirements of a recipient of the report. A Fitch rating is an opinion as to the creditworthiness of a security. This opinion and reports made by Fitch are based on established criteria and methodologies that Fitch is continuously evaluating and updating. Therefore, ratings and reports are the collective work product of Fitch and no individual, or group of individuals, is solely responsible for a rating or a report. The rating does not address the risk of loss due to risks other than credit risk, unless such risk is specifically mentioned. Fitch is not engaged in the offer or sale of any security. All Fitch reports have shared authorship. Individuals identified in a Fitch report were involved in, but are not solely responsible for, the opinions stated therein. The individuals are named for contact purposes only. A report providing a Fitch rating is neither a prospectus nor a substitute for the information assembled, verified and presented to investors by the issuer and its agents in connection with the sale of the securities. Ratings may be changed or withdrawn at any time for any reason in the sole discretion of Fitch. Fitch does not provide investment advice of any sort. Ratings are not a recommendation to buy, sell, or hold any security. Ratings do not comment on the adequacy of market price, the suitability of any security for a particular investor, or the tax-exempt nature or taxability of payments made in respect to any security. Fitch receives fees from issuers, insurers, guarantors, other obligors, and underwriters for rating securities. Such fees generally vary from US\$1,000 to US\$750,000 (or the applicable currency equivalent) per issue. In certain cases, Fitch will rate all or a number of issues issued by a particular issuer or guaranter or guaranter or guaranter or guaranter or guaranter or guarante

For Australia, New Zealand, Taiwan and South Korea only: Fitch Australia Pty Ltd holds an Australian financial services license (AFS license no. 337123) which authorizes it to provide credit ratings to wholesale clients only. Credit ratings information published by Fitch is not intended to be used by persons who are retail clients within the meaning of the Corporations Act 2001.