# MOODY'S INVESTORS SERVICE

# **CREDIT OPINION**

23 October 2019

## Update

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# Federal Home Loan Bank of New York

Update to credit analysis following ratings affirmation

## Summary

The <u>Federal Home Loan Bank of New York</u>'s (FHLBank New York) Aaa long-term and Prime-1 short-term deposit ratings were <u>recently affirmed</u> and are in-line with the deposit ratings of the other ten regional FHLBanks. These ratings reflect the combination of FHLBank New York's aa3 Baseline Credit Assessment (BCA) and our assumption of a very high likelihood of support from the US Government (Aaa stable) in the event that an individual FHLBank or the <u>FHLBank System</u> were in danger of default due to the FHLBanks' special role as providers of liquidity to the US banking system. The rating outlook is stable.

FHLBank New York's aa3 BCA is based on the strength of its advance business, minimal exposure to private-label MBS, superior risk management and the consistency of its performance. Compared with most other FHLBanks, FHLBank New York has a very strong advance business, with about \$102 billion outstanding as of 30 June 2019, down slightly from year-end 2018. The bank also has a sizable letter of credit business that generates incremental earnings. Favorably, FHLBank New York has de-minimis holdings of non-agency MBS and although its residential mortgage portfolio has grown modestly in recent years, at about \$3 billion in size, it remains small.

The stable outlook reflects our stable outlook on the ratings for the US Government. Any rating actions on the US Government would likely result in all individual FHLBanks' long-term deposit ratings, and the FHLBank System's Aaa long-term bond rating, moving in lock step with any US sovereign rating action. FHLBank New York, and the ten other regional FHLBanks, have joint and several liability for the FHLBank System's consolidated bonds and consolidated discount notes.

#### Exhibit 1

#### **Rating Scorecard - Key Financial Ratios**



[1] All ratios are as of 06/30/2019, except for Advances % Total Assets, which is as of 12/31/18. Source: Moody's Financial Metrics

## **Credit strengths**

- » Excellent credit quality of FHLBank New York's advance portfolio, investment portfolio and mortgage portfolio minimizes asset risk
- » Although narrowly focused, the FHLBanks, including New York, are central liquidity providers to US banks, underscoring their importance to the US financial system

## **Credit challenges**

- » Narrow charter and bank consolidation limit growth
- » Substantial single borrower concentrations
- » Reliant on confidence-sensitive market funding, but market access is strong due to GSE status

#### Outlook

Our stable outlook on FHLBank New York's long-term deposit ratings reflects the stable outlook on the US government's Aaa debt rating.

## Factors that could lead to an upgrade

At Aaa, an upgrade of FHLBank New York's long-term deposit rating is not possible. FHLBank New York's BCA is one notch higher than those of its peers, making upward movement in its BCA unlikely.

## Factors that could lead to a downgrade

Any negative rating action on the US Government would likely result in all individual FHLBanks' long-term deposit ratings moving in lock step with any US sovereign rating action.

Factors that could lead to a downgrade of FHLBank New York's BCA of aa3 include elevated loss expectations on its investment portfolio, a quarterly net loss or significant asset-liability mismatches. In addition, an expansion of its risk profile, for example due to a change in the FHLBanks' government mandate or self-initiated, could result in a lower standalone BCA. A BCA one notch lower would match the BCAs of its peers and would be unlikely to result in a lower long-term deposit rating.

## **Key Indicators**

Exhibit 2 Federal Home Loan Bank of New York (Consolidated Financials) [1]

	06-19 <sup>2</sup>	12-18 <sup>2</sup>	12-17 <sup>2</sup>	12-16 <sup>2</sup>	12-15 <sup>2</sup>	CAGR/Avg. <sup>3</sup>
Total Assets (USD Billion)	150.6	144.4	158.9	143.6	123.2	5.9 <sup>4</sup>
Net Income / Tangible Assets (%)	0.3	0.4	0.3	0.3	0.3	0.3 <sup>5</sup>
Liquid Assets (GSE) / Short Term Debt (%)	23.5	15.8	11.7	14.4	15.0	16.1 <sup>5</sup>
Tangible Common Equity / (Total Assets - Derivatives) (%)	5.0	5.4	5.2	5.4	5.6	5.3 <sup>5</sup>
Mortgage Loans / Total Assets (%)	2.0	2.0	1.8	1.9	2.0	2.0 <sup>5</sup>

[1]All figures and ratios are adjusted using Moody's standard adjustments. [2]Basel I; US GAAP. [3]May include rounding differences due to scale of reported amounts. [4]Compound Annual Growth Rate (%) based on time period presented for the latest accounting regime. [5]Simple average of periods presented for the latest accounting regime. Source: Moody's Investors Service; Company Filings

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

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### **Profile**

The FHLBanks are federally-chartered GSEs that were organized under the Federal Home Loan Bank Act of 1932. The FHLBanks together with the Office of Finance comprise the FHLBank System. Each of the FHLBanks and the Office of Finance operate under the supervisory and regulatory framework of the Federal Housing Finance Agency (FHFA). Each FHLBank operates as a separate entity with its own management, employees, and board of directors.

The FHLBanks' primary business is lending to member institutions, primarily banks, savings institutions and credit unions, in the form of advances, which are generally short-term and over-collateralized, minimizing the credit risk on these loans. In addition, the FHLBanks benefit from their statutory lien priority with respect to pledged member assets. The FHLBanks also purchase mortgage loans, principally 15-30 year conventional and government-guaranteed or insured fixed-rate loans. The FHLBanks also invest in securities, principally MBS, subject to an investment limit of three times regulatory capital without approval by the FHFA. Some FHLBanks offer correspondent services to their member institutions, including wire transfer, security safekeeping, and settlement services.

## **Detailed credit considerations**

## Asset quality and credit risk management

Excluding a tiny non-agency MBS portfolio, we believe FHLBank New York's asset quality is exceptional. In particular, advances, which represent about 70% of its total balance sheet, are an over-collateralized asset that has never resulted in a loss. This, as well as our view of FHLBank New York's superior risk management over the long-term, is reflected in the assigned aa1 score for Asset Risk in our scorecard, shown at the back of this report.

As shown in the table below, FHLBank New York's balance sheet composition is narrowly focused. Beyond its advance portfolio, investments, which are primarily high quality US government and agency guaranteed securities, comprise most of the balance. As noted, non-agency MBS holdings are de-minimus. In addition, FHLBank New York has limited direct mortgage holdings, representing about 2% of total assets as of 30 June 2019.



## FHLBank New York's asset mix compared to those of the other FHLBanks

Source: Company Filings

Exhibit 3

Nonetheless, similar to its peers, FHLBank New York has significant borrower concentrations, a long-term earnings risk. Its top five advance borrowers represented nearly 60% of total advances as of 30 June 2019. However, in terms of member numbers, the vast majority of its 300+ members are relatively small institutions.

#### Interest rate risk management

FHLBank New York manages its interest rate risk exposures through the use of debt with similar characteristics to its assets, as well as with derivatives. As noted, its primary asset is advances, which are offered in a variety of types, including fixed rate, variable rate, callable by the member, as well as putable advances. With a putable advance, the FHLBank purchases a put option from members, which allows the FHLBank to terminate the fixed rate advance on specified dates and offer, subject to certain conditions, replacement funding at prevailing market rates. Prepayment fees, which mitigate interest rate risk, are also a common feature of advances.

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8%

7%

6%

5%

4%

3%

2%

1%

0%

#### **Capital adequacy**

FHLBank New York is required by legislation to maintain minimum regulatory capital of 4% of its total assets. As of 30 June 2019, its regulatory capital ratio was roughly 5.0%, compared to about 5.4% at year-end 2018. The aa1 assigned score for Capital in our scorecard incorporates our estimate of FHLBank New York's TCE ratio on a risk-weighted basis, which is very strong.

#### Profitability

FHLBank New York's modest but consistent profitability, as measured by return on average assets (ROAA), reflects the primarily low risk profile of its balance sheet. In the first half of 2019, FHLBank New York's ROAA was 0.34%, similar to what it was in 2018. This compares to a median of 1.2% for A-rated US Banks in the first half of 2019. The baa1 assigned score for Profitability in our scorecard reflects the consistency of FHLBank New York's profitability.

#### **Liquidity and Funding**

FHLBanks' GSE status provides them with consistent and stable debt market access and informs the baa1 assigned score for Funding Structure in our scorecard. Consequently, the FHLBanks generally maintain somewhat lower liquidity than non-GSE entities. As of 30 June 2019, FHLBank New York had liquid assets as a percentage of short term debt of 23.5%.

The Federal Housing Finance Agency (FHFA), the regulator of the FHLBanks, issued updated liquidity guidance in the summer of 2018 that will take full effect on 31 December 2019. Under the updated guidance, the FHFA established requirements for the FHLBanks' base case liquidity and implemented new funding gap metrics for three-month and one-year maturity horizons. In addition, the guidance addressed liquidity stress testing and contingency funding plans. We expect that FHLBank New York will be in compliance with all its liquidity requirements.

#### Special role as a provider of liquidity to US financial institutions

As GSEs, the FHLBanks' ability to access funding throughout the cycle underpins their importance to the financial system. This is particularly true during times of extreme market disruption when they become a primary source of contingent liquidity for their members. As shown below, at the height of the recent financial crisis, advances to members climbed a few hundred billion dollars for the system as a whole before receding as the financial markets and overall economy recovered.



# FHLB Advances have proven to be a stable source of funding, even during times of crisis

Source: FDIC

600

400

300

200

100 0

billions 500

#### Environmental, social and governance considerations

1992 1993 1994 1995 1996

FHLBank New York's exposure to environmental risks is low, consistent with our general assessment for the global banking sector. See our Environmental risk heatmap for further information.

1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

Overall, we consider banks to face moderate social risks. The most relevant social risks for banks arise from the way they interact with their customers. Social risks are particularly high in the area of data security and customer privacy, which is partly mitigated by sizeable technology investments and banks' long track record of handling sensitive client data.

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Governance is highly relevant for FHLBank New York, as it is to all players in the banking industry. Corporate governance weaknesses can lead to deterioration in a bank's credit quality, while governance strengths can benefit a bank's credit profile. Governance risks are largely internal rather than externally driven, and for FHLBank New York we do not have any particular governance concerns. Nonetheless, corporate governance remains a key credit consideration and requires ongoing monitoring.

#### **GSE reform**

On 5 September, the U.S. Department of the Treasury published <u>recommended housing reforms</u>. Although the focus of the recommendations were centered on Fannie Mae and Freddie Mac, if implemented, the proposals would result in reduced market share for those entities. As a consequence, traditional banks' market share of US mortgages would increase, which would enhance the FHLBanks' market position.

The recommendations also suggested that the regulatory rule excluding captive insurance companies from FHLBank membership should be revisited in light of the continued evolution of the housing finance system. Allowing non-bank mortgage companies FHLBank membership would likely be credit negative for the FHLBanks as captive insurance companies and their affiliates are financially weaker than traditional FHLBank bank and insurance members. The timing and likelihood of all these proposals is uncertain.

## Methodology and scorecard

Our BCA Scorecard is designed to capture, express and explain in summary form our Rating Committee's judgment. When read in conjunction with our research, a fulsome presentation of our judgment is expressed. As a result, the output of our BCA Scorecard may materially differ from that suggested by raw data alone (though it has been calibrated to avoid the frequent need for strong divergence). The BCA Scorecard output and the individual scores are discussed in rating committees and may be adjusted up or down to reflect conditions specific to each rated entity. We also assess the level of support and, consequently, the ratings uplift from the US Government (Aaa stable) using our <u>Government-Related Issuers methodology</u>.

Exhibit 5 Rating Factors

#### Federal Home Loan Bank of New York

Macro Factors						
Weighted Macro Profile	Very Strong -	100%				
inancial Profile						
Inancial Profile		1				<b></b>
Factor	Historic Ratio	Initial Score	Expected Trend	Assigned Score	Key driver #1	Key driver #2
olvency						
Asset Risk						
Problem Loans / Gross Loans	0.0%	aal	$\leftrightarrow \rightarrow$	aa1	Long-run loss performance	
Capital						
angible Common Equity / Risk Weighted Assets (Basel I)	26.4%	aal	$\leftrightarrow \rightarrow$	aa1	Risk-weighted capitalisation	
Profitability						
let Income / Tangible Assets	0.3%	ba2	$\leftrightarrow$	baa1	Earnings quality	
Combined Solvency Score				aa2		
iquidity						
Funding Structure						
Aarket Funds / Tangible Banking Assets	94.1%	caa3	$\leftrightarrow \rightarrow$	baa1	Market funding quality	
Liquid Resources						
iquid Banking Assets / Tangible Banking Assets	12.7%	baa3	$\leftrightarrow \rightarrow$	baa2	Expected trend	
Combined Liquidity Score		b2		baa1		
Financial Profile				a1		
Qualitative Adjustments				Adjustment		
Business Diversification				0		
Deacity and Complexity				0		
Corporate Behavior				0		
otal Qualitative Adjustments				0		

Sovereign or Affiliate constraint	I [	Aa
Scorecard Calculated BCA range	l í	aa3 -
Assigned BCA	[	aa

Source: Moody's Investors Service

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## Ratings

Exhibit 6		
Category	Moody's Rating	
FEDERAL HOME LOAN BANK OF NEW YORK		
Outlook	Stable	
Bank Deposits	Aaa/P-	
PARENT: FEDERAL HOME LOAN BANKS		
Outlook	Stable	
Senior Unsecured	Aaa	
ST Issuer Rating	P-1	
Source: Moody's Investors Service		

Source: Moody's Investors Service

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