

## CREDIT OPINION

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New Issue

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## Connecticut (State of)

New Issue - Moody's Assigns Aa3 to Connecticut's \$500M GO Bonds; Outlook Negative

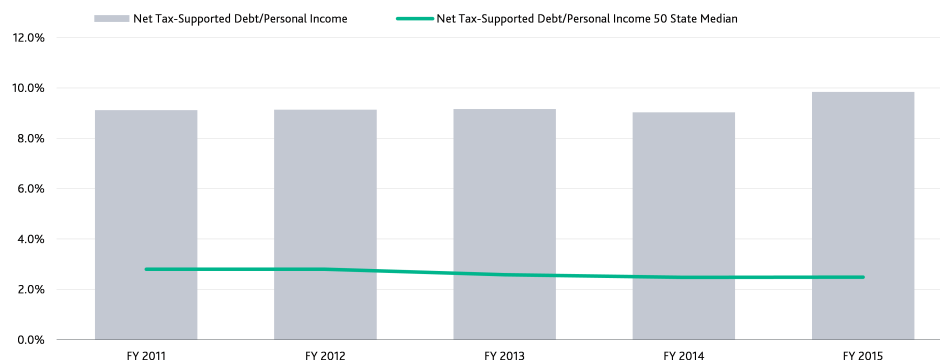
### Summary Rating Rationale

Moody's Investors Service has assigned a Aa3 to the State of Connecticut's \$250 million General Obligation (GO) Bonds (2016 Series D) and \$250 million Taxable General Obligation Bonds (2016 Series A). The bonds are expected to sell August 3.

The Aa3 rating reflects Connecticut's high income levels, strong governance, and healthy liquidity, offset by high fixed costs for debt service, pension, and post employment benefits relative to the state's budget; unfunded pension liabilities and debt outstanding that are among the highest, relative to revenues, in the country; and minimal reserve levels as well as a lagging economy and recent population loss.

Exhibit 1

### Connecticut Net Tax-Supported Debt Far Exceeds State Median High debt stems from borrowing for local governments



Source: Connecticut audited financial statements; Moody's Investors Service

### Credit Strengths

- » Legislated support for application of operating surpluses to the Budget Reserve Fund (BRF)
- » Wealthiest state in the nation with per capita personal income levels well above national levels
- » Strong governance with the ability to make mid-year budget adjustments

## Credit Challenges

- » Fixed costs for debt, pension and other post-employment benefits (OPEB) relative to budget are among the highest in the nation
- » Vulnerability to financial market fluctuations due to effect on capital gains for very high -wealth residents and employment in the financial services sector
- » General fund balance sheet will remain negative over near term and rainy day fund modest due to state's slower recovery from the recession

## Rating Outlook

The negative outlook reflects a lagging economy and weakening demographics that have led to budgetary strain. While we expect the state to solve the budgetary gaps with recurring solutions, we believe that economic trends will place negative pressure on the state's finances in the next few years, while the very high fixed costs reduce flexibility.

## Factors that Could Lead to an Upgrade

- » Achievement and maintenance of higher GAAP-basis combined available reserve levels
- » Established trend of structural budget balance
- » Evidence of sustained stronger economic performance
- » Reduced debt ratios relative to Moody's 50-state median and lower fixed annual costs
- » Significantly improved funding of pension and post-retirement liabilities

## Factors that Could Lead to a Downgrade

- » Lack of improvement in available reserve levels
- » Reversion to significant one-time budget solutions, including deficit financings
- » Revenue weakness driven by delayed economic recovery
- » Cash flow strain stemming from reduced liquidity
- » Significant increase in fixed costs as percent of budget

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## Key Indicators

Exhibit 2

Connecticut	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Operating Fund Revenues (000s)	13,935,599	16,378,765	16,909,327	16,880,411	17,187,461
Balances as % of Operating Fund Revenues	-12.5%	-6.4%	-7.2%	-1.2%	-2.3%
Net Tax-Supported Debt (000s)	18,247,554	18,615,067	19,623,311	20,272,617	22,103,517
Net Tax-Supported Debt/Personal Income	9.1%	9.1%	9.2%	9.0%	9.8%
Net Tax-Supported Debt/Personal Income 50 State Median	2.8%	2.8%	2.6%	2.5%	2.5%
Debt/All Governmental Funds Revenue	83.2%	78.9%	80.1%	81.4%	88.8%
Debt/All Governmental Funds Revenue 50 State Median*	22.7%	24.3%	23.8%	23.0%	20.4%
Adjusted Net Pension Liability/All Govt Funds Revenue	189.7%	243.4%	236.0%	213.3%	N/A
Adjusted Net Pension Liability/All Govt Funds Revenue 50 State Median	48.7%	63.9%	60.3%	59.2%	N/A
Total Non-Farm Employment Change (CY)	1.1%	0.9%	0.9%	0.7%	1.6%
Per Capita Income as a % of US (CY)	141.1%	141.7%	139.8%	140.9%	140.5%

Source: Connecticut audited financial statements; Moody's Investors Service

## Recent Developments

On June 27, the Connecticut Legislature's Office of Fiscal Analysis projected a \$322.9 million deficit for fiscal 2016, roughly in line with the \$316 million deficit previously projected by the state comptroller's office. Deficit projections had been growing since the winter, as revenue collections fell short of budget. The majority of the shortfall stemmed from lower than anticipated personal income tax receipts. The state's rainy day fund, with a balance of \$406 million, will be sufficient to cover the deficit leaving the state with little cushion.

The state passed an amended fiscal 2017 budget in May. The revised budget resulted in significant expenditure cuts of \$847.2 million to balance the 2017 budget. The revision also canceled a net \$642.3 million in bond authorizations.

## Detailed Rating Considerations

### Economy

Connecticut's economic recovery continues to lag that of the nation. As of May 2016, the state's unemployment rate stood at 5.7% versus 4.7% for the nation and the state's job count is still less than the peak prior to the recession. Employment growth in education and health services, leisure and hospitality, transportation and utilities and professional and business services is skewed toward lower-wage industries: the state has experienced only 7.1% growth in average annual wages from fiscal 2011-2015 versus 14.5% in fiscal 2004-2008.

Economic headwinds include lackluster performance in the state's high-paid financial activities sector. While the US has recovered nearly all the financial activities jobs lost in the recession. Connecticut continued to lose finance jobs into 2014 and has since recovered only about one quarter of those lost. In another blow to the state's recovery, [General Electric Co.](#) (GE, A1 stable) announced in January that it will move its corporate headquarters to [Boston, MA](#) (Aaa stable) from [Fairfield, CT](#) (Aaa stable). According to Moody's Analytics, GE is the 20th-largest employer in Connecticut in terms of employees (4,300 with about 800 in the Fairfield headquarters). In addition, the state has had deteriorating demographics with two years of population loss since 2013, contributing to an underperforming housing market.

### Finances and Liquidity

In fiscal 2013, the state implemented a plan to begin addressing Connecticut's sizeable \$1.2 billion cumulative GAAP deficit. The state issued \$560 million of general obligation bonds, which generated \$598.5 million in proceeds (of the \$750 million total authorized by legislature) amortizing the bonds over 15 years and reducing the accumulated GAAP deficit to \$618.5 million. The remaining portion of the deficit will be amortized over 13 years starting in fiscal 2016, resulting in an annual payment of about \$47.5 million. These amounts will be "deemed appropriated", meaning no further legislative action is needed to make the payments.

The GAAP bond proceeds are not counted as General Fund revenues, and the proceeds cannot be used for any current or future budget appropriations. While the funding strategy enabled the state to begin addressing its longstanding sizeable GAAP deficit and injects discipline into the plan, the additional debt adds to the state's already high debt levels and fixed costs. Even with the plan, the unassigned General Fund balance will remain negative over the near term.

#### LIQUIDITY

Connecticut's liquidity remains healthy. The state did not have to borrow for cash flow purposes in calendar 2015 or fiscal 2016. Cash balances averaged \$2 billion in fiscal 2016 and stood at \$1.8 billion, including bond proceeds, as of June 30, 2016.

### Debt and Pensions

#### DEBT STRUCTURE

Connecticut is a frequent borrower and the state's debt per capita and debt-to-personal income ranked first and second, respectively, among the 50 states for Moody's 2015 debt medians. Net tax-supported debt equaled \$5,491 per capita and 9.0% of total state personal income, well above the 50-state median of \$1,054 in debt per capita and 2.6% for debt-to-personal income. These high debt ratios are partly due to substantial capital financing for K-12 school building construction that is carried out at the local level in many other states. However, with the \$2 billion POBs and the sale of \$560 million in GAAP Conversion bonds to address a portion of the state's sizeable cumulative GAAP deficit, on top of the state's normal sizeable annual debt issuances, Connecticut's debt ratios will likely remain among the highest in the country. Connecticut adheres to a 20-year level principal repayment schedule for its general obligation debt, with a declining debt service schedule that provides some flexibility.

#### DEBT-RELATED DERIVATIVES

The state has \$1.7 billion in variable rate debt, most of which is indexed to either SIFMA or CPI, or approximately 11.2% of the state's total GO debt. Only \$55.6 million of the state's variable rate debt is swapped to fixed, based on 60% of LIBOR or a percentage point above CPI, after a \$280 million swap was terminated at par on March 1, 2015. As of March 31, 2016, the mark-to-market was minimal, at negative \$2.1 million against the state. In accordance with its swap guidelines, the state generally negotiates provisions that permit funding a required termination payment over a period of time to allow time for a refunding. Accordingly, the state would have 270 days to fund a termination payment for its general obligation swaps. The state has no plan to incorporate swaps into future GO bonds.

#### PENSIONS AND OPEB

Connecticut's adjusted net pension liability (ANPL), our measure of the government's pension burden, is significantly above the 50-state median. As of 2014, the three-year average ANPL was 225% of total governmental revenue, the second highest among the states. The state participates in 3 pension systems, of which the most significant are the State Employees Retirement System and the Teachers Retirement System. Connecticut is among the handful of states that take responsibility for directly funding teacher pensions. Moody's ANPL reflects certain adjustments made to improve comparability of reported pension liabilities. The state contributes the full amount of its actuarially determined contribution, about \$2.2 billion in fiscal 2015.

Connecticut also has a very high OPEB liability. As of the 2013 valuation, the liability stood at \$19.5 billion. The state is responsible for the \$2.4 billion Teachers' OPEB liability. The OPEB trust fund contained \$229.6 million in net assets as of June 30, 2015.

The state's combined debt service, pension, and OPEB contributions in fiscal 2015 were nearly 30% of own-source governmental revenues, among the highest among the states. The high fixed costs are reflective of the state's absorption of certain costs covered by local governments in most other states but also reduce the state's budgetary flexibility.

#### Governance

The state has a constitutional balanced budget requirement, strong, binding consensus revenue process supported by nonpartisan and objective economic analysis that is conducted three times a year (January, April and November) or can be scheduled more frequently during times of revenue shortfalls or economic distress. There is a constitutional cap on spending, however, the Attorney General opined in November 2015 that it is not operative until the General Assembly adopts definitions. There is a statutory limit on debt payable from the general fund. The state is not subject to mandated initiatives or voter referenda. The Governor has limited executive

authority to cut expenses by up to 5% of an individual appropriation, not to exceed 3% of any fund, without legislative approval, and if a deficit exceeds 1% of the general fund, there are requirements for a timely deficit mitigation plan to be developed. A supermajority is not required for tax increases or legislatively enacted budget adjustments. There is monthly budget reporting by both the Governor's budget office and the State Comptroller and budget adoption has been timely. The state does not conduct a debt affordability analysis, however, both the Governor's budget office and the Office of Fiscal Analysis prepare Fiscal Accountability reports that include multiple-year financial planning including projections of debt issuance, debt levels and debt cost. The state has frequently maintained a rainy day fund over the years, and there are statutory requirements that all budget surplus funds be deposited to the rainy day fund at year-end.

## Legal Security

The bonds will be secured by the full faith and credit of the State of Connecticut.

## Use of Proceeds

The proceeds of the bonds will be used for various purposes of the state.

## Obligor Profile

The State of Connecticut has a population of almost 3.6 million people. The state, located in the northeastern US, has a large and diverse economy with a gross state product of \$253 billion. It is the wealthiest state in the country with per capita income of 141% of the US average.

## Methodology

The principal methodology used in this rating was US States Rating Methodology published in April 2013. Please see the Ratings Methodologies page on [www.moody.com](http://www.moody.com) for a copy of this methodology.

## Ratings

Exhibit 3

### Connecticut (State of)

Issue	Rating
Taxable General Obligation Bonds (2016 Series A)	Aa3
Rating Type	Underlying LT
Sale Amount	\$250,000,000
Expected Sale Date	08/03/2016
Rating Description	General Obligation
General Obligation Bonds (2016 Series D)	Aa3
Rating Type	Underlying LT
Sale Amount	\$250,000,000
Expected Sale Date	08/03/2016
Rating Description	General Obligation

Source: Moody's Investors Service

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