Interest Rates Used in Appropriations, Including PECO Executive Summary December 19, 2023

The Revenue Estimating Conference adopted a series of interest rates for use in the state budgeting process, including any bonding related to Public Education Capital Outlay (PECO). The adopted interest rates take into consideration current benchmark rates and market volatility.

The long-term interest rate is used for bond issues with maturity structures of 20 years or more. The Conference maintained a long-term interest rate of 5.25%, the same as the rate adopted in July 2023, after considering information provided by the Division of Bond Finance. The Division of Bond Finance recommends a range for the long-term interest rate based on a benchmark rate of 3.99% plus a spread of 140 basis points for volatility for an interest rate of 5.39% on the low end and a benchmark rate of 3.99% plus a spread of 144 basis points for volatility for an interest rate of 5.43% on the high end. The 5.25% adopted rate has a spread of 126 basis points over the benchmark rate.

Long-Term Interest Rate

Fiscal Year 2024-25		2025-26	2026-27	2027-28	2028-29	
Interest Rate	5.25%	5.25%	5.25%	5.25%	5.25%	

As recommended by the Division of Bond Finance in December 2019, the Conference discontinued the adoption of a short-term or variable interest rate forecast. The adopted short-term interest rate was previously used to calculate debt service on the outstanding Everglades variable rate bonds. Variable rate bonds were initially issued in 2006 and 2007. The last outstanding issue of Everglades VR 2007A&B Bonds has now been refunded with fixed-rate bonds and was called for redemption on December 4, 2019. The Division of Bond Finance has no plans to recommend the issuance of variable rate bonds in the future.

Finally, the Conference adopted interest rates for use by the Revenue Estimating Conference in its calculation of the Maximum Appropriations for Public Education Capital Outlay (PECO). The adopted interest rates take into consideration current benchmark rates and the December 2023 National Economic Estimating Conference forecast for the yield on municipal bonds – the Bond Buyer 20-Bond Index. The December forecast for the Bond Buyer 20-Bond Index indicated a slight increase in interest rates in FY 2023-24, unchanged rates in FY 2024-25, and small decreases in the remaining fiscal years. The Conference maintained the rates in each fiscal year to preserve a spread of approximately 50 basis points above the new Bond Buyer 20-Bond Index.

PECO Bonds Interest Rate

Fiscal Year	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
Interest Rate - July 2023	4.25%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Interest Rate - December 2023	4.25%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%

Division of Bond Finance Interest Rate Calculations

December 19, 2023

Division of Bond Finance Calculation of Long-Term Interest Rate

Long-Term Interest Rate Information*							
<u>Low End</u> <u>High En</u>							
Current Estimated Long-Term Interest Rate ¹	3.99%	3.99%					
Plus: Volatility Spread ²	1.40%	1.44%					
Long-Term Interest Rate Range	5.39%	5.43%					

Interest rate estimate for a 30-year bond issue based on 5% coupons and estimated yields and credit spreads as of December 14, 2023. Estimate represents the true interest cost, which factors in the cost of call optionality based on the market standard 10-year par call structure. Excludes costs of issuance and underwriter's discount, which would increase the true cost of borrowing.

Long-Term Interest Rate:

The interest rate range noted above is based on the Division of Bond Finance's historical methodology that analyzes interest rate trends and volatility over the past 20 years and most recent 12-month period. Based on estimated yields and credit spreads as of December 14, 2023, the Division's methodology produces a range of 5.39% to 5.43% for the long-term interest rate.

Since the last conference in July 2023, the municipal market experienced a rapid selloff, with the 30-year AAA benchmark yield increasing by 111 basis points in just 68 trading days. But since peaking at 4.57% in late October, the 30-year AAA benchmark has decreased by 100 basis points as the municipal market saw a significant rally in interest rates. Investors have continued to shift funds out of the tax-exempt market, with year-to-date outflows from municipal bond funds totaling \$12.8 billion as of December 7. Issuance of new money bonds has also picked up relative to the first half of the year, with year-over-year volume only down 6.5% through November (compared to a 20% year-over-year decline through June). However, these market dynamics took a backseat to macro-economic developments, as slowing economic growth, decreasing inflation, and a pause in rate increases by the Fed shifted the market's interest rate outlook. Based on these data points, the market moved ahead of the Fed's recent pivot towards potential rate cuts in 2024, but investor sentiment has not fully shifted positive yet (as noted by the continued fund outflows). If fund inflows resume, the municipal market could quickly return to the positive supply/demand dynamic that drove interest rates to historic lows in recent years. However, investor sentiment remains fickle and, as recent history has demonstrated, can shift rapidly based on economic data.

Short-Term Interest Rate:

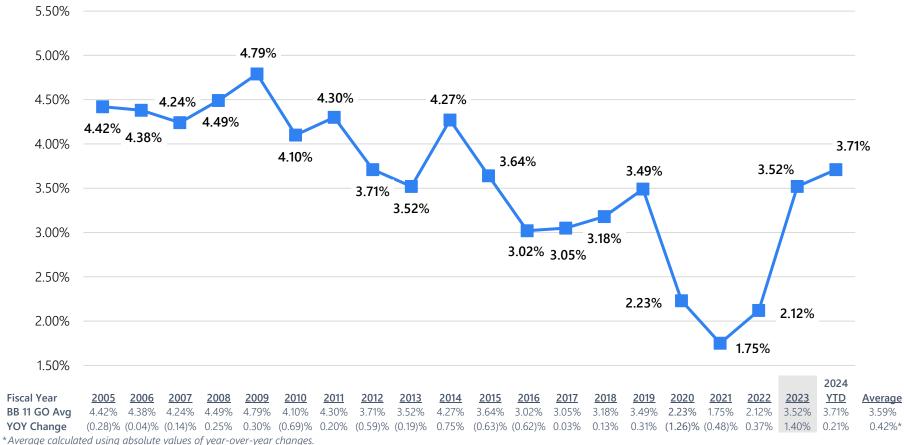
The State does not have any outstanding variable rate debt and there are no current plans for the issuance of additional variable rate debt. As a result, the Division has not produced a short-term interest rate analysis for this conference.

Used two measures to calculate interest rate volatility; (1) Bond Buyer 11 GO Bond Index maximum annual change over the last 20 fiscal years of 140 basis points and (2) TM3 Municipal Market Data ("MMD") 30-year AAA benchmark yield high-low range over the prior 12 months of 144 basis points.

^{*} The Division of Bond Finance has supplied the above interest rates to assist the REC in adopting official rates that would be used by State agencies for planning and budgetary purposes. There can be no assurance that actual interest rates for any particular bond issue will not exceed the rates shown above.

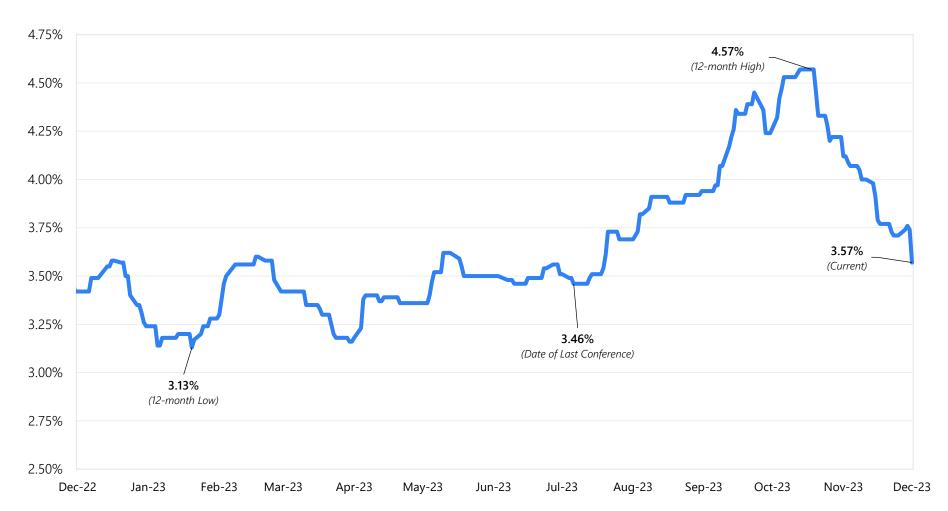
Long-Term Interest Rate Volatility Change in Bond Buyer 11 GO Bond Average Annual Interest Rates Last 20 Years

The largest year-over-year change in the annual average Bond Buyer GO Bond Index over the last 20 fiscal years is 140 basis points.



Long-Term Interest Rate Volatility Change in 30-Year Benchmark AAA MMD Rate Last 12 Months

The 30-year benchmark AAA MMD interest rate ranged from a low of 3.13% to a high of 4.57% over the last 12 months, a difference of 144 basis points. These are stated yields assuming 5% coupons and do not factor in costs of issuance, underwriter's discount, or the effect of call optionality.



PECO BOND SALES AND INTEREST RATES

(BOLD font indicates forecasted values)

YIELD	Bond Buyer 2	0-Bond Index	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028	Series 2029	Series 2030
	Jul 2023	Dec 2023	FY24-25	FY25-26	FY26-27	FY27-28	FY28-29	FY29-30	FY30-31
2023 Q3	3.88%	3.37%							
2023 Q4	3.83%	3.82%							
2024 Q1	3.75%	3.57%							
2024 Q2	3.71%	3.59%							
2024 Q3	3.67%	3.76%	4.25% Dec 2023						
2024 Q4	3.63%	3.94%	4.25% Jul 2023						
2025 Q1	3.59%	3.80%							
2025 Q2	3.57%	3.70%							
2025 Q3	3.55%	3.60%		4.00% Dec 2023					
2025 Q4	3.54%	3.54%		4.00% Jul 2023					
2026 Q1	3.52%	3.49%							
2026 Q2	3.51%	3.43%							
2026 Q3	3.50%	3.39%			4.00% Dec 2023				
2026 Q4	3.50%	3.35%			4.00% Jul 2023				
2027 Q1	3.49%	3.33%							
2027 Q2	3.49%	3.31%							
2027 Q3	3.48%	3.31%				4.00% Dec 2023			
2027 Q4	3.48%	3.30%				4.00% Jul 2023			
2028 Q1	3.48%	3.31%							
2028 Q2	3.48%	3.31%							
2028 Q3	3.47%	3.31%					4.00% Dec 2023		
2028 Q4	3.47%	3.31%					4.00% Jul 2023		
2029 Q1	3.47%	3.31%							
2029 Q2	3.47%	3.31%							
2029 Q3	3.47%	3.31%						4.00% Dec 2023	
2029 Q4	3.47%	3.32%						4.00% Jul 2023	
2030 Q1	3.47%	3.32%							
2030 Q2	3.48%	3.33%							
2030 Q3	3.49%	3.33%							4.00% Dec 2023
2030 Q4	3.49%	3.34%							4.00% Jul 2023
2031 Q1	3.49%	3.34%							
2031 Q2	3.50%	3.34%							

ADOPTED December 2023	4.25%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
ADOI 1ED December 2023	7.23/0	7.00/0	7.00/0	7.00 /0	7.00/0	7.00/0	7.00 /0