

CERBT Account Update

Santa Monica-Malibu Unified School District Financial Oversight Committee Meeting

September 21, 2021

Discussion Overview

- CERBT Account Summary
- CERBT Investment Policy
- OPEB Funding Policies
- Trust Administration
- Contacts and Communication

CERBT Account Summary

OPEB Valuation Report Summary

OPEB Actuarial Valuation Report by Demsey, Filliger, and Associates

Valuation Date	07/01/2019
Present Value of Benefits (PVB)	\$73,274,636
Total OPEB Liability (TOL)	\$48,696,722
Valuation Assets	\$5,864,788
Net OPEB Liability	\$42,831,934
Normal Cost for 2019-20	\$2,467,889
Projected Retiree Premiums for 2021-22	\$1,341,150
CERBT Asset Allocation Strategy	Strategy 1
Discount Rate	4.09%

CERBT Account Summary

Account Summary as of September 9, 2021

Initial contribution <small>(6/23/2016)</small>	\$1,500,000
Additional contributions	\$3,500,000
Disbursements	(\$0)
CERBT expenses	(\$22,985)
Investment earnings	\$2,968,044
Total assets	\$7,945,059
Money-weighted annualized net rate of return <small>(6/23/2016 – 9/9/2021 = 5.21 Years)</small>	10.88%

In PEMHCA: Yes
CERBT agreement effective date: 11/24/2015

Cash Flow Summary by Fiscal Year

Fiscal Year	Contributions	Cumulative Net Contributions	Cumulative Investment Gains (Losses)	Cumulative Fees	Cumulative Ending Assets	Fiscal Year Net Rate of Return	Cumulative Net Rate of Return
2015-16	\$1,500,000	\$1,500,000	(\$8,990)	(\$24)	\$1,490,986	-	-
2016-17	\$2,500,000	\$4,000,000	\$224,277	(\$1,830)	\$4,222,447	11.56%	10.90%
2017-18	\$1,000,000	\$5,000,000	\$536,176	(\$6,006)	\$5,530,170	6.71%	8.04%
2018-19	\$0	\$5,000,000	\$879,948	(\$10,719)	\$5,869,229	6.24%	7.26%
2019-20	\$0	\$5,000,000	\$1,089,729	(\$15,770)	\$6,073,959	3.58%	6.13%
2020-21	\$0	\$5,000,000	\$2,761,612	(\$21,688)	\$7,739,924	27.62%	10.72%
as of 9/9/21	\$0	\$5,000,000	\$2,968,044	(\$22,985)	\$7,945,059	-	10.88%

Funded Status Comparison

Measurement Date	Total OPEB Liability	CERBT Assets	Funded Status
6/30/2015	\$36,397,922	\$0	0%
6/30/2017	\$40,194,946	\$4,222,447	11%
6/30/2019	\$48,696,722	\$5,864,788	12%

CERBT Investment Policy

CERBT Portfolios

Portfolios	CERBT Strategy 1	CERBT Strategy 2	CERBT Strategy 3
Expected Return	7.59%	7.01%	6.22%
Risk	11.83%	9.24%	7.28%

CERBT Portfolio Details

Asset Classification	Benchmark	CERBT Strategy 1	CERBT Strategy 2	CERBT Strategy 3
Global Equity	MSCI All Country World Index	59% ±5%	40% ±5%	22% ±5%
Fixed Income	Barclays Capital Long Liability Index	25% ±5%	43% ±5%	49% ±5%
Global Real Estate (REITs)	FTSE EPRA/NAREIT Developed Liquid Index	8% ±5%	8% ±5%	8% ±5%
Treasury Inflation Protected Securities (TIPS)	Barclays Capital Global Real: US TIPS Index	5% ±3%	5% ±3%	16% ±3%
Commodities	S&P GSCI Total Return Index	3% ±3%	4% ±3%	5% ±3%
Cash	3-Month Treasury Bill	0% +2%	0% +2%	0% +2%

CERBT investment results – time weighted

Fiscal Year	Strategy 1 (Inception June 1, 2007)	Strategy 2 (Inception October 1, 2011)	Strategy 3 (Inception January 1, 2012)
2007-2008	-4.80%	N/A	N/A
2008-2009	-23.03%	N/A	N/A
2009-2010	15.87%	N/A	N/A
2010-2011	24.96%	N/A	N/A
2011-2012	0.15%	N/A	N/A
2012-2013	11.78%	8.87%	5.21%
2013-2014	18.52%	15.58%	12.86%
2014-2015	-0.11%	-0.34%	-0.03%
2015-2016	1.04%	2.95%	4.18%
2016-2017	10.62%	7.28%	4.16%
2017-2018	8.00%	6.22%	4.74%
2018-2019	6.22%	7.07%	7.24%
2019-2020	3.58%	5.46%	6.37%
2020-2021	27.54%	19.71%	13.60%

Time weighted return reports the performance of the investment vehicle, not of the employer assets. Returns are gross. Historical performance is not necessarily indicative of actual future investment performance or of future total program cost. Current and future performance may be lower or higher than the historical performance data reported here. Investment return and principal value may fluctuate so that your investment, when redeemed, may be worth more or less than the original cost. The value of an employer's CERBT fund shares will go up and down based on the performance of the underlying funds in which the assets are invested. The value of the underlying funds' assets will, in turn, fluctuate based on the performance and other factors generally affecting the securities market.

CERBT Investment Returns Outperform Benchmarks

Periods Ended July 31, 2021

<u>Fund</u>	<u>Assets</u>	<u>1 Month</u>	<u>3 Months</u>	<u>FYTD</u>	<u>1 Year</u>	<u>3 Years</u>	<u>5 Years</u>	<u>10 Years</u>	<u>ITD</u>
CERBT Strategy 1 (Inception June 1, 2007)	\$13,318,370,063	1.29%	4.05%	1.29%	23.91%	11.88%	10.49%	8.63%	6.35%
Benchmark		1.28%	4.01%	1.28%	23.69%	11.58%	10.11%	8.32%	5.92%
CERBT Strategy 2 (Inception October 1, 2011)	\$1,842,656,076	1.57%	4.31%	1.57%	17.09%	10.78%	8.82%	-	8.54%
Benchmark		1.55%	4.27%	1.55%	16.90%	10.55%	8.46%	-	8.24%
CERBT Strategy 3 (Inception January 1, 2012)	\$832,686,610	1.90%	4.57%	1.90%	11.99%	9.54%	7.15%	-	6.75%
Benchmark		1.89%	4.54%	1.89%	11.86%	9.35%	6.85%	-	6.44%
CERBT Total	\$15,993,712,749								

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OPEB Funding Policy

Employer Controls the OPEB Funding Policy

- Chooses appropriate investment strategy
 - Based on investment time horizon
- Decides if, when, and how much to contribute
 - Voluntary and never required
- Decides if and when to seek reimbursement
 - Pay-go costs: FYE22 \$1,341,150
 - Implicit rate subsidies: FYE22 \$285,665
- Chooses outside consulting actuary

Financial reporting

Financial Reporting

- CEPPT is reported in compliance with GASB 84
- CERBT provides audited and compliant GASB 74 report in a Schedule of Changes in Fiduciary Net Position (FNP)
 - Published in February each year

CERBT FNP Fiscal Year	Availability
2015-16	Available at https://www.calpers.ca.gov/cerbt
2016-17	
2017-18	
2018-19	
2019-20	
2020-21	February 2022

Participation Costs

CERBT Total Participation Cost Fee Rate

- Total all-inclusive cost of CERBT participation is 10 basis points of assets under management
 - CERBT is a self-funded trust
 - CERBT does not profit
 - Employer account charged daily
 - Rate can be changed without prior notice and may be higher or lower in the future

CERBT Fee Rate History

Fiscal Year	Total Participation Cost
2007-2008	2.00 basis points
2008-2009	6.00 basis points
2009-2010	9.00 basis points
2010-2011	12.00 basis points
2011-2012	12.00 basis points
2012-2013	15.00 basis points
2013-2014	14.00 basis points
2014-2015	10.00 basis points
2015-2016	10.00 basis points
2016-2017	10.00 basis points
2017-2018	10.00 basis points
2018-2019	10.00 basis points
2019-2020	10.00 basis points
2020-2021	10.00 basis points
2021-2022	10.00 basis points

CERBT Experience Data

586 CERBT Employers

- State of California
- 151 Cities or Towns
- 10 Counties
- **77 School Employers**
- 28 Courts
- 319 Special Districts and other Public Agencies
 - (99 Water, 34 Sanitation, 33 Fire, 25 Transportation)

CERBT K-12 School Employers (50)

- Acalanes Union High School District
- Alhambra Unified School District
- Campbell Union Elementary School District
- Center Unified School District
- Chula Vista Elementary School District
- Dehesa Elementary School District
- Del Mar Union Elementary School District
- Enterprise Elementary School District
- Fallbrook Union High School District
- Franklin Elementary School District
- Fremont Union High School District
- Fresno Unified School District
- Grossmont Union High School District
- Igo, Ono, Platina Union Elementary School District
- Lafayette School District
- Laguna Beach Unified School District
- Lakeside Union Elementary School District
- Las Lomitas Elementary School District
- Liberty Union High School District
- Los Angeles Unified School District
- Luther Burbank Elementary School District
- Menlo Park City School District
- Metropolitan Education District
- Mill Valley School District
- Orinda Union School District
- Pleasanton Unified School District
- Rancho Santa Fe Elementary School District
- Redding Elementary School District
- Reed Union School District
- Rialto Unified School District
- Robla Elementary School District
- Rocklin Unified School District
- Sacramento City Unified School District
- San Bernardino City Unified School District
- San Francisco Unified School District
- San Marcos Unified School District
- San Ramon Valley Unified School District
- Santa Ana Unified School District
- **Santa Monica-Malibu Unified School District**
- Sequoia Union High School District
- Shasta Union Elementary School District
- Shasta Union High School District
- St. Helena Unified School District
- Tamalpais Union High School District
- Vacaville Unified School District
- West Contra Costa Unified School District
- Western Placer Unified School District
- William S. Hart Union High School District
- Yreka Union Elementary School District
- Yreka Union High School District

CERBT Community College Districts (15)

- Barstow Community College District
- Butte-Glenn Community College District
- Cabrillo Joint Community College District
- Foothill De-Anza Community College District
- Glendale Community College District
- Hartnell Community College District
- Los Angeles Community College District
- Marin Community College District
- Mt. San Jacinto Community College District
- Napa Community College District
- Riverside Community College District
- San Joaquin Delta Community College District
- Santa Monica Community College District
- West Valley-Mission Community College District
- Yuba Community College District

CERBT County Offices of Education, etc. (12)

- Eden Area ROP
- Los Angeles County Office of Education
- Napa County Office of Education
- Riverside County Schools
- Sacramento County Office of Education
- San Diego County Office of Education
- San Joaquin County Schools
- Santa Clara County Schools
- Santa Cruz County Office of Education
- Shasta County Schools
- Siskiyou County Office of Education
- Trinity County Schools

CERBT School Employers by TOL

TOL Range	Value of CERBT Assets	# of School Employers	Average Funded %
> \$1 billion	\$501,490,191	3	4%
\$500 million - \$999.9 million	\$126,996,627	1	24%
\$100 million - \$499.9 million	\$310,834,097	7	26%
\$75 million - \$99.9 million	\$16,470,327	4	4%
\$50 million - \$74.9 million	\$182,188,550	8	37%
\$25 million - \$49.9 million	\$96,575,015	9	36%
\$10 million - \$24.9 million	\$68,738,589	13	29%
\$1 million - \$9.9 million	\$68,424,941	24	60%
< \$1 million	\$1,367,265	8	126%
	\$1,373,085,602	77	48%

Data based on most recent actuarial valuation report submission

Santa Monica Community College District OPEB Valuation Report Summary

OPEB Actuarial Valuation Report by Total Compensation Systems

Valuation Date	6/30/2019
Present Value of Benefits (PVB)	\$187,656,443
Total OPEB Liability (TOL)	\$141,025,895
Valuation Assets	\$7,509,861
Net OPEB Liability	\$133,516,034
Projected Retiree Premiums for 2019-20	\$4,851,585
CERBT Asset Allocation Strategy	Strategy 1
Discount Rate	4.30%

Santa Monica Community College District CERBT Account Summary

Account Summary as of September 9, 2021

Initial contribution <small>(6/26/2009)</small>	\$1,496,996
Additional contributions	\$3,000,000
Disbursements	(\$0)
CERBT expenses	(\$54,560)
Investment earnings (S1)	\$5,728,065
Total assets	\$10,170,500
Money-weighted annualized net rate of return <small>(6/26/2009 – 9/9/2021 = 12.21 Years)</small>	10.10%

Agreement effective date: 6/24/2009
In PEMHCA: Yes

Los Angeles County Office of Education

OPEB Valuation Report Summary

OPEB Actuarial Valuation Report by Demsey, Filliger, and Associates

Valuation Date	7/1/2019
Present Value of Benefits (PVB)	\$38,364,248
Total OPEB Liability (TOL)	\$32,928,445
Valuation Assets	\$6,115,444
Net OPEB Liability	\$26,813,001
Projected Retiree Premiums for 2019-20	\$2,066,204
CERBT Asset Allocation Strategy	Strategy 3
Discount Rate	5.50%

Los Angeles County Office of Education

CERBT Account Summary

Account Summary as of September 9, 2021

Initial contribution <small>(7/2/2018)</small>	\$3,200,000
Additional contributions	\$7,580,000
Disbursements	(\$0)
CERBT expenses	(\$19,693)
Investment earnings (S3)	\$2,515,541
Total assets	\$13,275,848
Money-weighted annualized net rate of return <small>(7/2/2018 – 9/9/2021 = 3.19 Years)</small>	11.14%

Agreement effective date: 6/26/2018
In PEMHCA: Yes

Questions? Where to Get Trust Fund Information?

Name	Title	E-mail	Desk	Mobile
Matt Goss	Outreach & Support Program Manager	Matthew.Goss@calpers.ca.gov	(916) 795-9071	(916) 382-6487
Karen Lookingbill	Outreach & Support Manager	Karen.Lookingbill@calpers.ca.gov	(916) 795-1387	(916) 501-2219
Jasper Jacobs	Outreach & Support Analyst	Jasper.Jacobs@calpers.ca.gov	(916) 795-0432	(916) 717-3886
Jean MacDonald	Outreach & Support Analyst	Jean.MacDonald@calpers.ca.gov	(916) 795-0675	(916) 291-1325
Colleen Cain-Herrback	Administration & Reporting Program Manager	Colleen.Cain-Herrback@calpers.ca.gov	(916) 795-2474	(916) 505-2506
Robert Sharp	Assistant Division Chief	Robert.Sharp@calpers.ca.gov	(916) 795-3878	(916) 397-0756

Program E-mail Addresses	Prefunding Programs Webpages
CERBT4U@calpers.ca.gov – Questions & Document Submittal	www.calpers.ca.gov/CERBT
CEPPT4U@calpers.ca.gov – Questions & Document Submittal	www.calpers.ca.gov/CEPPT
CERBTACCOUNT@calpers.ca.gov – Online Record Keeping System	

CERBT Strategy 1

July 31, 2021



Objective

The CERBT Strategy 1 portfolio seeks to provide capital appreciation and income consistent with its strategic asset allocation. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 1 portfolio is invested in various asset classes. CalPERS periodically adjusts the composition of the portfolio in order to match the target allocations. Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 2 and Strategy 3, this portfolio has a higher allocation to equities than bonds and other assets. Historically, equities have displayed greater price volatility and, therefore, this portfolio may experience greater fluctuation of value. Employers that seek higher investment returns, and are able to accept greater risk and tolerate more fluctuation in returns, may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end:

CERBT Strategy 1	Annual Operating Ratio
\$13,318,370,063	0.10%

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 1 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	59%	± 5%	MSCI All Country World Index IMI (Net)
Fixed Income	25%	± 5%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	5%	± 3%	Bloomberg Barclays US TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 5%	FTSE EPRA/NAREIT Developed Index (Net)
Commodities	3%	± 3%	S&P GSCI Total Return Index
Cash	-	+ 2%	91-Day Treasury Bill

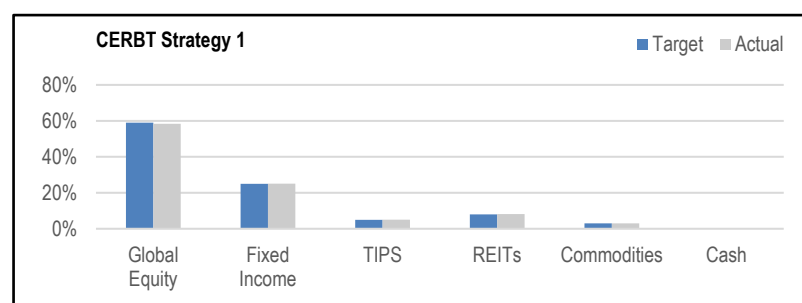
¹ Allocations were approved by the Board at the May 2018 Investment Committee meeting.

Portfolio Benchmark

The CERBT Strategy 1 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may temporarily deviate from the target allocation to a particular asset class based on market, economic, or other considerations.



CERBT Strategy 1 Performance as of July 31, 2021

	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	10 Years*	Since Inception* (June 1, 2007)
Gross Return ^{1,3}	1.29%	4.05%	1.29%	23.91%	11.88%	10.49%	8.63%	6.35%
Net Return ^{2,3}	1.28%	4.02%	1.28%	23.80%	11.78%	10.40%	8.52%	6.27%
Benchmark Returns	1.28%	4.01%	1.28%	23.69%	11.58%	10.11%	8.32%	5.92%
Standard Deviation ⁴	-	-	-	-	12.89%	10.37%	10.04%	12.71%

* Returns for periods greater than one year are annualized.

¹ Gross returns are net of SSGA operating expenses.

² Net returns are net of SSGA operating expenses, investment management, administrative and recordkeeping fees.

³ Expenses are described in more detail on page 2 of this document.

⁴ Standard deviation is based on gross returns and is reported for periods greater than 3 years.

CERBT Strategy 1

July 31, 2021



General Information

Information Accessibility

The CERBT Strategy 1 portfolio consists of assets managed internally by CalPERS and/or by external advisors. Since it is not a mutual fund, a prospectus is not available and daily holdings are not published. CalPERS provides a quarterly statement of the employer's account and other information about the CERBT. For total market value, detailed asset allocation, investment policy and current performance information, please visit our website at: www.calpers.ca.gov.

Portfolio Manager Information

The CalPERS Board, through its Investment Committee, directs the CERBT investment strategy based on policies approved by the Board of Administration. State Street Global Advisors (SSGA) manages all underlying investments for CERBT, which include: Global Equity, Fixed Income, Real Estate Investment Trusts, Treasury Inflation-Protected Securities, and Commodities.¹

Custodian and Record Keeper

State Street Bank serves as custodian for the CERBT. Northeast Retirement Services serves as recordkeeper.

Expenses

CERBT is a self-funded trust in which participating employers pay for all administrative and investment expenses. Expenses reduce the gross investment return by the fee amount. The larger the expenses, the greater the reduction of investment return. Currently, CERBT expenses are 0.10% which consist of administrative expenses borne by CalPERS to administer and oversee the Trust assets, investment management and administrative fees paid to SSGA to manage all asset classes, and recordkeeping fees paid to Northeast Retirement Services to administer individual employer accounts. The expenses described herein are reflected in the net asset value per unit. The expense ratio is subject to change at any time and without prior notification due to factors such as changes to average fund assets or market conditions. CalPERS reviews the operating expenses annually and changes may be made as appropriate. Even if the portfolio loses money during a period, the expenses will still be charged.

What Employers Own

Each employer invested in CERBT Strategy 1 owns units of this portfolio, which invests in pooled asset classes managed by CalPERS and/or external advisors. Employers do not have direct ownership of the securities in the portfolio.

Price

The value of the portfolio changes daily based upon the market value of the underlying securities. Just as prices of individual securities fluctuate, the portfolio's value also changes with market conditions.

Principal Risks of the Portfolio

The CalPERS CERBT Fund provides California government employers with a trust through which they may prefund retiree medical costs and other post-employment benefits (OPEB). CERBT is not, however, a defined benefit plan. There is no guarantee that the portfolio will achieve its investment objectives or provide sufficient funding to meet employer obligations. Further, CalPERS will not make up the difference between an employer's CERBT assets and the actual cost of OPEB provided to an employer's plan members.

An investment in the portfolio is not a bank deposit, nor is it insured or guaranteed by the Federal Deposit Insurance Corporation (FDIC), CalPERS, the State of California or any other government agency.

There are risks associated with investing, including possible loss of principal. The portfolio's risk depends in part on the portfolio's asset class allocations and the selection, weighting and risks of the underlying investments. For more information about investment risks, please see the document entitled "CERBT Principal Investment Risks" located at www.calpers.ca.gov.

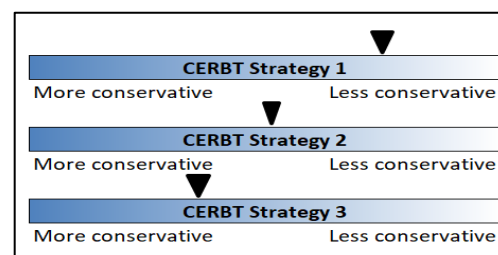
Fund Performance

Performance data shown on page 1 represents past performance and is no guarantee of future results. The investment return and principal value of an investment will fluctuate so that an employer's units, when redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than historical performance data shown. For current performance information, please visit www.calpers.ca.gov and follow the links to California Employers' Retiree Benefit Trust.

CERBT Strategy Risk Levels

CalPERS offers employers the choice of one of three investment strategies. Projected risk levels among strategies vary, depending upon the target asset class allocations. Generally, equities carry more risk than fixed income securities.

Asset Class Target Allocations	Strategy 1	Strategy 2	Strategy 3
Global Equity	59%	40%	22%
Fixed Income	25%	43%	49%
Treasury Inflation-Protected Securities	5%	5%	16%
Real Estate Investment Trusts	8%	8%	8%
Commodities	3%	4%	5%



¹ Since June 2018 SSGA has passively managed all CERBT asset classes. Previously Fixed Income, TIPS and Commodity asset classes were managed internally by CalPERS.

CERBT Strategy 2

July 31, 2021



Objective

The CERBT Strategy 2 portfolio seeks to provide capital appreciation and income consistent with its strategic asset allocation. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 2 portfolio is invested in various asset classes. CalPERS periodically adjusts the composition of the portfolio in order to match the target allocations. Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 1 and Strategy 3, this portfolio has a moderate allocation to equities, bonds and other assets. Historically, equities have displayed greater price volatility and, therefore, this portfolio may experience comparatively less fluctuation of value compared to CERBT Strategy 1 but more fluctuation of value compared to CERBT Strategy 3. Employers that seek a moderate approach to investing may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end:

CERBT Strategy 2	Annual Operating Ratio
\$1,842,656,076	0.10%

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 2 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	40%	± 5%	MSCI All Country World Index IMI (Net)
Fixed Income	43%	± 5%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	5%	± 3%	Bloomberg Barclays US TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 5%	FTSE EPRA/NAREIT Developed Index (Net)
Commodities	4%	± 3%	S&P GSCI Total Return Index
Cash	-	+ 2%	91-Day Treasury Bill

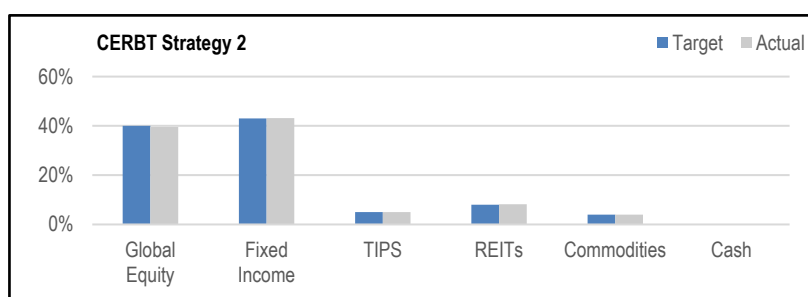
¹ Allocations were approved by the Board at the May 2018 Investment Committee meeting.

Portfolio Benchmark

The CERBT Strategy 2 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may temporarily deviate from the target allocation to a particular asset class based on market, economic, or other considerations.



CERBT Strategy 2 Performance as of July 31, 2021

	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	10 Years*	Since Inception* (October 1, 2011)
Gross Return ^{1,3}	1.57%	4.31%	1.57%	17.09%	10.78%	8.82%	-	8.54%
Net Return ^{2,3}	1.56%	4.28%	1.56%	17.00%	10.68%	8.73%	-	8.43%
Benchmark Returns	1.55%	4.27%	1.55%	16.90%	10.55%	8.46%	-	8.24%
Standard Deviation ⁴	-	-	-	-	9.92%	8.08%	-	7.71%

* Returns for periods greater than one year are annualized.

¹ Gross returns are net of SSGA operating expenses.

² Net returns are net of SSGA operating expenses, investment management, administrative and recordkeeping fees.

³ Expenses are described in more detail on page 2 of this document.

⁴ Standard deviation is based on gross returns and is reported for periods greater than 3 years.

CERBT Strategy 2

July 31, 2021



General Information

Information Accessibility

The CERBT Strategy 2 portfolio consists of assets managed internally by CalPERS and/or by external advisors. Since it is not a mutual fund, a prospectus is not available and daily holdings are not published.

CalPERS provides a quarterly statement of the employer's account and other information about the CERBT. For total market value, detailed asset allocation, investment policy and current performance information, please visit our website at: www.calpers.ca.gov.

Portfolio Manager Information

The CalPERS Board, through its Investment Committee, directs the CERBT investment strategy based on policies approved by the Board of Administration. State Street Global Advisors (SSGA) manages all underlying investments for CERBT, which include: Global Equity, Fixed Income, Real Estate Investment Trusts, Treasury Inflation-Protected Securities, and Commodities.¹

Custodian and Record Keeper

State Street Bank serves as custodian for the CERBT. Northeast Retirement Services serves as recordkeeper.

Expenses

CERBT is a self-funded trust in which participating employers pay for all administrative and investment expenses. Expenses reduce the gross investment return by the fee amount. The larger the expenses, the greater the reduction of investment return. Currently, CERBT expenses are 0.10% which consist of administrative expenses borne by CalPERS to administer and oversee the Trust assets, investment management and administrative fees paid to SSGA to manage all asset classes, and recordkeeping fees paid to Northeast Retirement Services to administer individual employer accounts. The expenses described herein are reflected in the net asset value per unit. The expense ratio is subject to change at any time and without prior notification due to factors such as changes to average fund assets or market conditions. CalPERS reviews the operating expenses annually and changes may be made as appropriate. Even if the portfolio loses money during a period, the expenses will still be charged.

What Employers Own

Each employer invested in CERBT Strategy 2 owns units of this portfolio, which invests in pooled asset classes managed by CalPERS and/or external advisors. Employers do not have direct ownership of the securities in the portfolio.

Price

The value of the portfolio changes daily based upon the market value of the underlying securities. Just as prices of individual securities fluctuate, the portfolio's value also changes with market conditions.

Principal Risks of the Portfolio

The CalPERS CERBT Fund provides California government employers with a trust through which they may prefund retiree medical costs and other post-employment benefits (OPEB). CERBT is not, however, a defined benefit plan. There is no guarantee that the portfolio will achieve its investment objectives or provide sufficient funding to meet employer obligations. Further, CalPERS will not make up the difference between an employer's CERBT assets and the actual cost of OPEB provided to an employer's plan members.

An investment in the portfolio is not a bank deposit, nor is it insured or guaranteed by the Federal Deposit Insurance Corporation (FDIC), CalPERS, the State of California or any other government agency.

There are risks associated with investing, including possible loss of principal. The portfolio's risk depends in part on the portfolio's asset class allocations and the selection, weighting and risks of the underlying investments. For more information about investment risks, please see the document entitled "CERBT Principal Investment Risks" located at www.calpers.ca.gov.

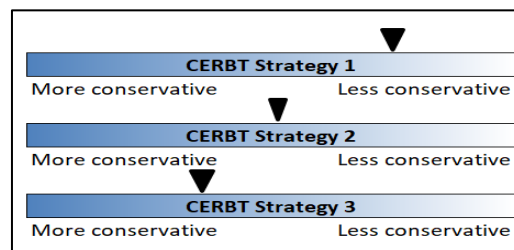
Fund Performance

Performance data shown on page 1 represents past performance and is no guarantee of future results. The investment return and principal value of an investment will fluctuate so that an employer's units, when redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than historical performance data shown. For current performance information, please visit www.calpers.ca.gov and follow the links to California Employers' Retiree Benefit Trust.

CERBT Strategy Risk Levels

CalPERS offers employers the choice of one of three investment strategies. Projected risk levels among strategies vary, depending upon the target asset class allocations. Generally, equities carry more risk than fixed income securities.

Asset Class Target Allocations ¹	Strategy 1	Strategy 2	Strategy 3
Global Equity	59%	40%	22%
Fixed Income	25%	43%	49%
Treasury Inflation-Protected Securities	5%	5%	16%
Real Estate Investment Trusts	8%	8%	8%
Commodities	3%	4%	5%



¹ Since June 2018 SSGA has passively managed all CERBT asset classes. Previously Fixed Income, TIPS and Commodity asset classes were managed internally by CalPERS.

CERBT Strategy 3

July 31, 2021



Objective

The CERBT Strategy 3 portfolio seeks to provide capital appreciation and income consistent with its strategic asset allocation. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 3 portfolio is invested in various asset classes. CalPERS periodically adjusts the composition of the portfolio in order to match the target allocations. Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 1 and Strategy 2, this portfolio has a lower allocation to equities than bonds and other assets. Historically, funds with a lower percentage of equities have displayed less price volatility and, therefore, this portfolio may experience comparatively less fluctuation of value. Employers that seek greater stability of value, in exchange for possible lower investment returns, may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end:

CERBT Strategy 3	Annual Operating Ratio
\$832,686,610	0.10%

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 3 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	22%	± 5%	MSCI All Country World Index IMI (Net)
Fixed Income	49%	± 5%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	16%	± 3%	Bloomberg Barclays US TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 5%	FTSE EPRA/NAREIT Developed Index (Net)
Commodities	5%	± 3%	S&P GSCI Total Return Index
Cash	-	+ 2%	91-Day Treasury Bill

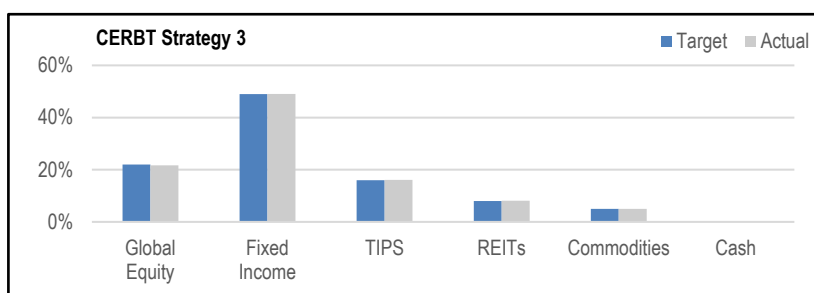
¹ Allocations were approved by the Board at the May 2018 Investment Committee meeting.

Portfolio Benchmark

The CERBT Strategy 3 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may temporarily deviate from the target allocation to a particular asset class based on market, economic, or other considerations.



CERBT Strategy 3 Performance as of July 31, 2021

	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	10 Years*	Since Inception* (January 1, 2012)
Gross Return ^{1,3}	1.90%	4.57%	1.90%	11.99%	9.54%	7.15%	-	6.75%
Net Return ^{2,3}	1.90%	4.54%	1.90%	11.90%	9.45%	7.06%	-	6.64%
Benchmark Returns	1.89%	4.54%	1.89%	11.86%	9.35%	6.85%	-	6.44%
Standard Deviation ⁴	-	-	-	-	7.53%	6.25%	-	5.88%

* Returns for periods greater than one year are annualized.

¹ Gross returns are net of SSGA operating expenses.

² Net returns are net of SSGA operating expenses, investment management, administrative and recordkeeping fees.

³ Expenses are described in more detail on page 2 of this document.

⁴ Standard deviation is based on gross returns and is reported for periods greater than 3 years.

CERBT Strategy 3

July 31, 2021



General Information

Information Accessibility

The CERBT Strategy 3 portfolio consists of assets managed internally by CalPERS and/or by external advisors. Since it is not a mutual fund, a prospectus is not available and daily holdings are not published.

CalPERS provides a quarterly statement of the employer's account and other information about the CERBT. For total market value, detailed asset allocation, investment policy and current performance information, please visit our website at: www.calpers.ca.gov.

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Principal Risks of the Portfolio

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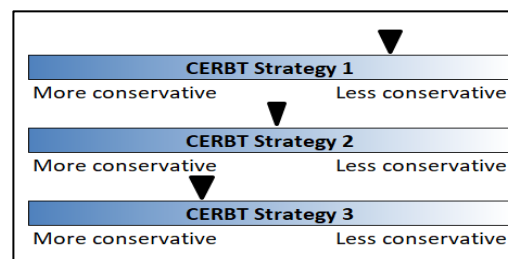
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Commodities	3%	4%	5%



¹ Since June 2018 SSGA has passively managed all CERBT asset classes. Previously Fixed Income, TIPS and Commodity asset classes were managed internally by CalPERS.

Investment Objective

The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

Benchmark

The MSCI ACWI IMI Index is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

Investment Strategy

The Strategy is managed using an "indexing" investment approach, by which SSGA attempts to approximate, before expenses, the performance of the Index over the long term. SSGA will typically attempt to invest in the equity securities comprising the Index, in approximately the same proportions as they are represented in the Index. Equity securities may include common stocks, preferred stocks, depository receipts, or other securities convertible into common stock. Equity securities held by the Strategy may be denominated in foreign currencies and may be held outside the United States. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSGA may employ a sampling or optimization technique to construct the portfolio in question. A Portfolio may also invest in the securities of Chinese companies, normally restricted to residents of the People's Republic of China (commonly known as "A Shares" or "China A Shares"), through the Stock Connect program or other channels.

From time to time securities are added to or removed from the Index. SSGA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, prior to or after their removal or addition to the Index. SSGA may also utilize other pooled investment vehicles, including those managed by SSGA and its affiliates, as substitutes for gaining direct exposure to securities or a group of securities in the Index. The Strategy may at times purchase or sell index futures contracts, or options on those futures, or engage in other transactions involving the use of derivatives, in lieu of investment directly in the securities making up the Index or to enhance the Strategy's replication of the Index return. The Strategy's return may not match the return of the Index.

SSGA may implement the Strategy's asset allocations through investments in investment pools (which may, but will not necessarily, be registered under the U.S. Investment Company Act of 1940, as amended) managed or sponsored by SSGA or an affiliate. Because of the unit issuance processes employed by the various underlying investment pools, allocations by the Strategy to certain pools on a given trading day may be invested in such pools at the next trading day's net asset value per unit. This will result in the portion of the Strategy's assets being invested in such investment pools being held in cash for the trading day and may result in increased tracking error. This could adversely impact the return to any investor.

Key Facts

- Managed using an indexing strategy
- May use futures and other derivatives
- Only designated 'Securities Lending' Portfolios may lend and enter repurchase agreements (See applicable governing documents for a Portfolio's authority to lend. Participation in a securities lending program may adversely affect the investment returns and risk profile of the Portfolio. See "Securities Lending Risk; Risks of Investment of Cash Collateral" in the Strategy Disclosure Document.)
- May invest in other investment pools, including those managed by SSGA and its affiliates
- Is not a leveraged Strategy
- Will not sell securities short

For the purpose of complying with the Global Investment Performance Standards (GIPS[®]), the firm ("SSGA-Global") is defined as all portfolios managed across the global offices of State Street Global Advisors (SSGA) and SSGA Funds Management, Inc., with the exception of Charitable Asset Management which is held out to the marketplace as a distinct business entity. Prior to January 2011, SSGA-Global excluded its wrap fee business and assets accounted for on a book value basis (global cash and stable value assets). Prior to July 2017, SSGA-Global excluded Fiduciary Advisory Solutions. In January 2011, SSGA acquired the Bank of Ireland Asset Management Limited (now known as SSGA Ireland Limited), a GIPS Compliant firm. On January 01, 2012 SSGA Ireland Limited assets were merged into SSGA-Global. In July 2016, SSGA acquired the asset management and advisory services business conducted by GE Asset Management ("GEAM"), a GIPS Compliant firm. On July 01, 2017 GEAM assets were merged into SSGA-Global.

The MSCI ACWI IMI Index Composite (the "Composite"), inception date 4/1/2008, seeks to achieve the Investment Objective described above using the Investment Strategy described above, and includes portfolios managed across the global offices of SSGA-Global. To receive a complete list and description of SSGA-Global's composites and/or a GIPS[®] compliant presentation, please contact your SSGA Representative.

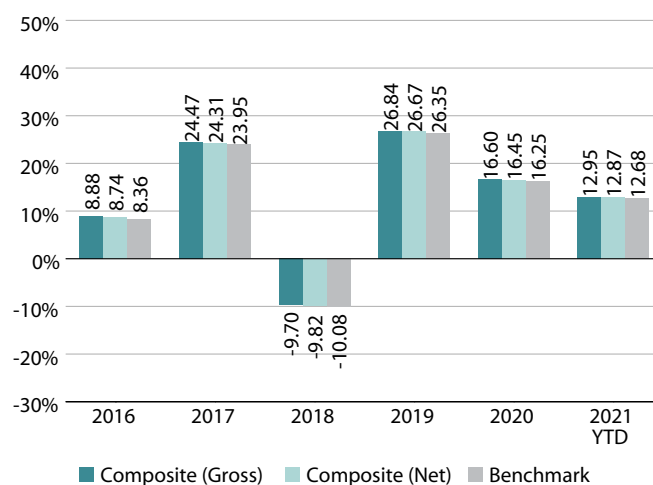
An investment in the Strategy is not FDIC insured, nor is it an obligation or deposit of, or guaranteed by State Street Corporation, SSGA or their affiliates.

The MSCI ACWI IMI Index is a trademark of MSCI Inc.

This document provides summary information regarding the Strategy. It should be read in conjunction with the Strategy's Disclosure Document, which is available from SSGA. The Strategy Disclosure Document contains important information about the Strategy, including a description of a number of risks.

Performance

Total Returns	Composite (Gross) ^{1,2}	Composite (Net) ^{1,3}	Benchmark ⁴
Q2 2021	7.26%	7.23%	7.18%
YTD	12.95%	12.87%	12.68%
1 Year	41.39%	41.21%	40.94%
3 Year	14.67%	14.52%	14.24%
5 Year	14.99%	14.84%	14.55%
10 Year	10.35%	10.20%	9.90%

Calendar Year Returns^{1,2,3,4}

1 Returns greater than one year are annualized. Returns represent past performance and are not a guarantee of future results. Current performance may differ from the performance shown. Returns shown are asset - weighted using Composite (as defined below) member market values, where the Composite member's return calculations are time-weighted and reflect the reinvestment of dividends and other income.

2 These performance figures are provided gross of fees and expenses other than actual trading fees and expenses, and reflect all items of income, gain, and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite). The performance figures do not take account of the mark to market value of the units of the securities lending cash collateral pools held by any of the portfolios in the Composite. If they had, the performance shown would have been lower.

3 These performance figures (i) are provided net of actual trading, audit, custody, administrative and legal fees and expenses; (ii) beginning on 9/30/2014, adjusted quarterly to reflect the highest investment management fee on the actual fee schedule, inclusive of incentive fee, if any, of any account within the Composite ("Management Fee") at the relevant time; prior to 9/30/2014, adjusted for an assumed investment management fee, which is equal to or higher than the Management Fee (except in each case certain small accounts-subject to a minimum investment management fee-may have incurred an actual investment management fee higher than that fee assumed in calculating the performance shown above); and (iii) reflect all items of income, gain and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite).

4 Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends (net of any applicable withholding tax rates) and other income and are calculated in U.S. dollars. It is not possible to invest directly in an index.

Performance returns are calculated in U.S. dollars.

Supplemental Information

Characteristics

Annual Dividend Yield (Trailing 12 Months)	1.44%
Beta (Trailing 36 Months)	1.00
Composite Assets Under Management (M)	US\$49,143.35
Estimated 3-5 Year EPS Growth	16.46%
Price/Book Ratio	3.4x
Price/Earnings (Forward 12 Months)	20.2x
Standard Deviation (Annualized 36 Months)	18.19%
Total Number of Holdings	4,727
Average Market Cap (M)	US\$365,228.94

Top Holdings

APPLE INC	3.05%
MICROSOFT CORP	2.58
AMAZON.COM INC	1.96
FACEBOOK INC-CLASS A	1.11
ALPHABET INC-CL C	0.98
ALPHABET INC-CL A	0.98
TESLA INC	0.69
TAIWAN SEMICONDUCTOR MANUFAC	0.68
NVIDIA CORP	0.66
JPMORGAN CHASE & CO	0.63

Sector Allocation

Information Technology	20.91%
Financials	13.86
Consumer Discretionary	12.87
Health Care	11.58
Industrials	10.85
Communication Services	8.69
Consumer Staples	6.51
Materials	5.24
Real Estate	3.47
Energy	3.40
Utilities	2.64

Top Countries

United States	57.92%
Japan	6.29
China	4.28
United Kingdom	3.91
Canada	2.94
France	2.69
Switzerland	2.38
Germany	2.31
Australia	1.99
Taiwan	1.87

The Supplemental Information above (except for the Beta and Standard Deviation, if shown) is that of a single representative account within the Composite, which is subject to change. The representative account was chosen because it has no material restrictions and fairly represents the investment style of the Strategy. The Supplemental Information should not be deemed to be reflective of (and could differ from) the overall Composite or any other single account within the Composite. Certain Supplemental Information may be rounded to the nearest hundredth decimal and may result in the total not adding up to 100.

The Top Holdings reflect certain securities that the representative account has bought and may not be representative of the Strategy's current or future investments. In the case of fixed income and cash funds the securities are aggregated and shown at the issuer level. The Top Holdings do not include other assets or instruments that may be held by the representative account including, for example and not by way of limitation, cash or cash equivalents and derivatives such as futures, options and swaps. The figures presented are as of the date shown above, do not include the representative account's entire investment portfolio, and may change at any time. This information should not be considered a recommendation to invest in a particular sector or to buy or sell any security. It is not known whether an investment in any sectors or securities will be profitable in the future.

Characteristics are calculated using the month-end market value of holdings of the representative account, and where averages are shown these reflect the market weights of the securities in the representative account. For beta and standard deviation, if shown, these reflect Composite month-end returns. Characteristics are as of the date indicated, are subject to change, and should not be relied upon as current thereafter.

Market data, prices, and dividend estimates for characteristics calculations provided by Factset Research Systems, Inc. All other portfolio data provided by SSGA. Sector reporting based on the Global Industry Classification Standard ("GICS") which was developed by and is the exclusive property and a service mark of MSCI Inc. ("MSCI") and Standard & Poor's, a division of The McGraw-Hill Companies, Inc. ("S&P") and is licensed for use by State Street. Effective October 1, 2018, GICS renamed the "Telecommunication Services" sector to "Communication Services", which resulted in the sector reclassification of some companies.

SSGA generally delegates commodities management for separately managed accounts to SSGA FM, a wholly owned subsidiary of State Street and an affiliate of SSGA. SSGA FM is registered as a commodity trading advisor ("CTA") with the Commodity Futures Trading Commission and National Futures Association.

State Street regards the Fact Sheets in their distributed form to be complete documents that include material information regarding the Strategy for investment consideration. The whole or any part of this work may not be reproduced, copied or transmitted or any of its contents disclosed to third parties without SSGA's express written consent.

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Expiration Date: 11/29/2021

Investment Manager

The Strategy is managed by State Street Global Advisors Trust Company, a wholly owned subsidiary of State Street Bank and Trust Company, and a global leader in providing investment management solutions to clients worldwide. To learn more about SSGA, visit our web site at www.ssga.com.

Important Message About Risk

For institutional / professional investors use only.

Investing involves risk including the risk of loss of principal. Equity securities are volatile and can decline significantly in response to broad market and economic conditions. Generally, among asset classes, stocks are more volatile than bonds or short-term instruments. Stock values fluctuate in response to the activities of individual companies, the stock market and economic conditions. At times, the risk level of the Strategy may be greater than that of the U.S. stock market in general. In addition, the Strategy may use derivative instruments which may involve risks such as potential illiquidity of the markets and additional risk of loss of principal.

This document provides summary information regarding the Strategy. This document should be read in conjunction with the Strategy's Disclosure Document, which is available from SSGA. The Strategy Disclosure Document contains important information about the Strategy, including a description of a number of risks.

The information provided does not constitute investment advice and it should not be relied on as such. It should not be considered a solicitation to buy or an offer to sell a security. It does not take into account any investor's particular investment objectives, strategies, tax status or investment horizon. You should consult your tax and financial advisor.

The trademarks and service marks referenced herein are the property of their respective owners. Third party data providers make no warranties or representations of any kind relating to the accuracy, completeness or timeliness of the data and have no liability for damages of any kind relating to the use of such data.

United States: State Street Global Advisors, 1 Iron Street, Boston, MA 02210.

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Securities Lending

The Strategy may participate in an agency securities lending program (the "Lending Program") sponsored by State Street Bank and Trust Company ("State Street") for the purpose of lending the Strategy's securities and investing the collateral in a collateral reinvestment fund (each a "Collateral Pool"). None of the Collateral Pools are FDIC-insured bank deposits or otherwise guaranteed by SSGA or State Street or any of their respective affiliates. Investors may lose money by participating in the Lending Program and through investments in a Collateral Pool. For more information, including the risks associated with participating in the Lending Program you should review the SSGA Securities Lending Program Disclosure and the disclosure document and fact sheet for the relevant Collateral Pool.

Investment Objective

The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

Benchmark

Bloomberg Barclays Long Liability Index

Investment Strategy

The Strategy is managed using an "indexing" investment approach, by which SSGA attempts to approximate, before expenses, the performance of the Index over the long term. The Strategy will not necessarily own all of the securities included in the Index.

The Strategy may attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index, in limited cases where we believe it is practical to do so. However, due to the diverse composition of securities in the Index and the fact that many of the securities comprising the Index may be unavailable for purchase, it may not be possible for the Strategy to purchase some of the securities comprising the Index. In such a case, SSGA will select securities for the Portfolio that SSGA expects will provide a return comparable to that of the Index.

SSGA expects that it will typically seek to replicate Index returns for the Portfolio through investments in the "cash" markets - actual holdings of debt securities and other instruments - rather than through "notional" or "synthetic" positions achieved through the use of derivatives, such as futures contracts or swap transactions (except in the unusual case where SSGA believes that use of derivatives is necessary to achieve an exposure that is not readily available through the cash markets). The Strategy's return may not match the return of the Index.

Additional permitted investments are cash and cash equivalents, including shares of registered money market funds for which an affiliate or non-affiliate of SSGA acts as the investment adviser (the "Money Market Funds"). Commercial Paper, if held directly by the Strategy, will have a minimum credit rating of A1 or P1. U.S. Government Note and Bond futures contracts shall be limited to exchange-traded futures contracts solely for hedging purposes to reduce strategy risk relative to the Index. Non-exchange traded derivatives shall not be utilized as an investment in the Strategy.

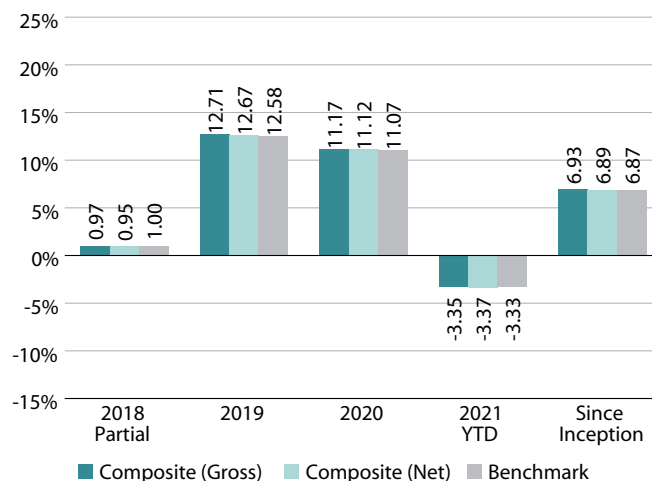
Key Facts

- Managed using an indexing strategy
- Does not normally use futures or other derivatives to create "notional" or "synthetic" index exposures
- Only designated 'Securities Lending' Portfolios may lend and enter repurchase agreements (See applicable governing documents for a Portfolio's authority to lend. Participation in a securities lending program may adversely affect the investment returns and risk profile of the Portfolio. See "Securities Lending Risk; Risks of Investment of Cash Collateral" in the Strategy Disclosure Document.)
- May invest in other investment pools, including those managed by SSGA and its affiliates
- Is not a leveraged strategy
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Performance

Total Returns	Composite (Gross) ^{1,2}	Composite (Net) ^{1,3}	Benchmark ⁴
Q2 2021	3.77%	3.76%	3.74%
YTD	-3.35%	-3.37%	-3.33%
1 Year	-2.02%	-2.06%	-2.02%
3 Year	6.93%	6.89%	6.87%
5 Year	N/A	N/A	N/A
Inception to Date (Jul 2018)	6.93%	6.89%	6.87%

Calendar Year Returns^{1,2,3,4}



1 Returns greater than one year are annualized. Returns represent past performance and are not a guarantee of future results. Current performance may differ from the performance shown. Returns shown are asset-weighted using Composite (as defined below) member market values, where the Composite member's return calculations are time-weighted and reflect the reinvestment of dividends and other income.

2 These performance figures are provided gross of fees and expenses other than actual trading fees and expenses, and reflect all items of income, gain, and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite). The performance figures do not take account of the mark to market value of the units of the securities lending cash collateral pools held by any of the portfolios in the Composite. If they had, the performance shown would have been lower.

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4 Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends (net of any applicable withholding tax rates) and other income and are calculated in U.S. dollars. It is not possible to invest directly in an index.

Performance returns are calculated in U.S. dollars.

For the purpose of complying with the Global Investment Performance Standards (GIPS), the firm ("SSGA-Global") is defined as all portfolios managed across the global offices of State Street Global Advisors (SSGA) and SSGA Funds Management, Inc., with the exception of Charitable Asset Management which is held out to the marketplace as a distinct business entity. Prior to January 2011, SSGA-Global excluded its wrap fee business and assets accounted for on a book value basis (global cash and stable value assets). Prior to July 2017, SSGA-Global excluded Fiduciary Advisory Solutions. In January 2011, SSGA acquired the Bank of Ireland Asset Management Limited (now known as SSGA Ireland Limited), a GIPS Compliant firm. On January 01, 2012 SSGA Ireland Limited assets were merged into SSGA-Global. In July 2016, SSGA acquired the asset management and advisory services business conducted by GE Asset Management ("GEAM"), a GIPS Compliant firm. On July 01, 2017 GEAM assets were merged into SSGA-Global.

The Bloomberg Barclays Long Liability Index Composite (the "Composite"), inception date 7/1/2018, seeks to achieve the Investment Objective described above using the Investment Strategy described above, and includes portfolios managed across the global offices of SSGA-Global. To receive a complete list and description of SSGA-Global's composites and/or a GIPS* compliant presentation, please contact your SSGA Representative.

An investment in the Strategy is not FDIC insured, nor is it an obligation or deposit of, or guaranteed by State Street Corporation, SSGA or their affiliates.

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Supplemental Information

Characteristics

Average Credit Quality	AA3
Average Effective Convexity	1.42
Average Effective Maturity	14.40
Average Yield to Worst	2.07%
Composite Assets Under Management (M)	US\$8,423.74
Effective Duration	11.05
Total Number of Holdings	4,580

Credit Quality Breakdown

Aaa	70.60%
Aa	2.40
A	9.42
Baa	15.29
Below BAA	2.24
Not Rated	0.05

Top Issuers

US/T	39.85%
FNMA	12.19
GNMA	5.09
FHLMC	4.73
FNCL	3.33
G2SF	0.98
FNCI	0.75
FHMS	0.74
MEX	0.60
VZ	0.38

Sector Allocation

Treasury	39.85%
Mortgage Backed Securities	27.08
CORPORATE - INDUSTRIAL	18.50
Corporate - Finance	5.47
Non Corporates	3.12
Corporate - Utility	2.81
CMBS	2.08
Cash	0.80
Asset Backed Securities	0.28

Investment Manager

The Strategy is managed by State Street Global Advisors Trust Company, a wholly owned subsidiary of State Street Bank and Trust Company, and a global leader in providing investment management solutions to clients worldwide. To learn more about SSGA, visit our web site at www.ssga.com.

The Supplemental Information above (except for the Beta and Standard Deviation, if shown) is that of a single representative account within the Composite, which is subject to change. The representative account was chosen because it has no material restrictions and fairly represents the investment style of the Strategy. The Supplemental Information should not be deemed to be reflective of (and could differ from) the overall Composite or any other single account within the Composite. Certain Supplemental Information may be rounded to the nearest hundredth decimal and may result in the total not adding up to 100.

The Top Holdings reflect certain securities that the representative account has bought and may not be representative of the Strategy's current or future investments. In the case of fixed income and cash funds the securities are aggregated and shown at the issuer level. The Top Holdings do not include other assets or instruments that may be held by the representative account including, for example and not by way of limitation, cash or cash equivalents and derivatives such as futures, options and swaps. The figures presented are as of the date shown above, do not include the representative account's entire investment portfolio, and may change at any time. This information should not be considered a recommendation to invest in a particular sector or to buy or sell any security. It is not known whether an investment in any sectors or securities will be profitable in the future.

Characteristics are calculated using the month-end market value of holdings of the representative account, and where averages are shown these reflect the market weights of the securities in the representative account. For beta and standard deviation, if shown, these reflect Composite month-end returns. Characteristics are as of the date indicated, are subject to change, and should not be relied upon as current thereafter.

Market data, prices, and estimates for characteristics calculations provided by Bloomberg Portfolio Risk and Analytics Schedule of Services (PORT+). Average Credit Quality reflects market value weight of all the rated securities held by the portfolio (excludes unrated securities) using the middle rating provided by either S&P, Moody's and Fitch or lower if only two agency ratings are available. All other portfolio data provided by SSGA. Characteristics are as of the date indicated, are subject to change, and should not be relied upon as current thereafter. Fixed income asset class and country reporting based on Bloomberg Barclays indices which are trademarks of Bloomberg Barclays Inc. and have been licensed for use by State Street. Bloomberg Barclays or its affiliates ("Bloomberg Barclays") shall not be liable for any inaccuracies or errors with respect to any data or Index referenced herein, nor does Bloomberg Barclays sponsor, endorse or promote the Strategy.

SSGA generally delegates commodities management for separately managed accounts to SSGA FM, a wholly owned subsidiary of State Street and an affiliate of SSGA. SSGA FM is registered as a commodity trading advisor ("CTA") with the Commodity Futures Trading Commission and National Futures Association.

State Street regards the Fact Sheets in their distributed form to be complete documents that include material information regarding the Strategy for investment consideration. The whole or any part of this work may not be reproduced, copied or transmitted or any of its contents disclosed to third parties without SSGA's express written consent.

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Expiration Date: 11/29/2021

Supplemental Information

Top Countries

United States	93.78%
Canada	0.79
Mexico	0.73
United Kingdom	0.63
Japan	0.46
Colombia	0.36
Philippines	0.30
Peru	0.26
China	0.25
Netherlands	0.25

Important Message About Risk

For institutional / professional investors use only.

Investing involves risk including the risk of loss of principal. Bonds generally present less short-term risk and volatility than stocks, but are subject to: interest rate risk (as interest rates rise, bond prices usually fall); issuer default risk; issuer credit risk; liquidity risk; and inflation risk. These effects are usually more pronounced for longer-term securities. Any fixed income security sold or redeemed prior to maturity may be subject to a substantial gain or loss. Investing in high yield fixed income securities, otherwise known as junk bonds, is considered speculative and involves greater risk of loss of principal and interest than investing in investment grade fixed income securities. These lower-quality debt securities involve greater risk of default and price changes due to potential changes in the credit quality of the issuer. In addition, the Strategy may use derivative instruments which may involve risks such as potential illiquidity of the markets and additional risk of loss of principal.

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The information provided does not constitute investment advice and it should not be relied on as such. It should not be considered a solicitation to buy or an offer to sell a security. It does not take into account any investor's particular investment objectives, strategies, tax status or investment horizon. You should consult your tax and financial advisor.

The trademarks and service marks referenced herein are the property of their respective owners. Third party data providers make no warranties or representations of any kind relating to the accuracy, completeness or timeliness of the data and have no liability for damages of any kind relating to the use of such data.

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Securities Lending

The Strategy may participate in an agency securities lending program (the "Lending Program") sponsored by State Street Bank and Trust Company ("State Street") for the purpose of lending the Strategy's securities and investing the collateral in a collateral reinvestment fund (each a "Collateral Pool"). None of the Collateral Pools are FDIC-insured bank deposits or otherwise guaranteed by SSGA or State Street or any of their respective affiliates. Investors may lose money by participating in the Lending Program and through investments in a Collateral Pool. For more information, including the risks associated with participating in the Lending Program you should review the SSGA Securities Lending Program Disclosure and the disclosure document and fact sheet for the relevant Collateral Pool.

Investment Objective

The Portfolio seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

Benchmark

FTSE® EPRA® NAREIT® Developed Index

Investment Strategy

The Strategy is managed using an "indexing" investment approach, by which SSGA attempts to approximate, before expenses, the performance of the Index over the long term. SSGA will typically attempt to invest in the equity securities comprising the Index, in approximately the same proportions as they are represented in the Index. Equity securities may include common stocks, preferred stocks, depository receipts, or other securities convertible into common stock. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSGA may employ a sampling or optimization technique to construct the portfolio in question.

From time to time securities are added to or removed from the Index. SSGA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, prior to or after their removal or addition to the Index. The Strategy's return may not match the return of the Index.

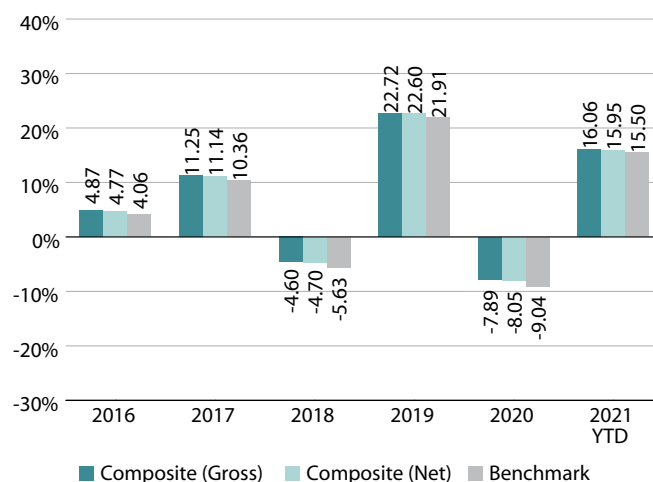
Key Facts

- Managed using an indexing strategy
- Only designated 'Securities Lending' Portfolios may lend and enter repurchase agreements (See applicable governing documents for a Portfolio's authority to lend. Participation in a securities lending program may adversely affect the investment returns and risk profile of the Portfolio. See "Securities Lending Risk; Risks of Investment of Cash Collateral" in the Strategy Disclosure Document.)
- May invest in other investment pools, including those managed by SSGA and its affiliates
- Is not a leveraged strategy
- Will not sell securities short

Performance

Total Returns	Composite (Gross) ^{1,2}	Composite (Net) ^{1,3}	Benchmark ⁴
Q2 2021	9.35%	9.30%	9.17%
YTD	16.06%	15.95%	15.50%
1 Year	34.68%	34.41%	33.55%
3 Year	7.48%	7.33%	6.39%
5 Year	5.96%	5.83%	4.98%
10 Year	7.20%	7.08%	6.38%

Calendar Year Returns^{1,2,3,4}



1 Returns greater than one year are annualized. Returns represent past performance and are not a guarantee of future results. Current performance may differ from the performance shown. Returns shown are asset-weighted using Composite (as defined below) member market values, where the Composite member's return calculations are time-weighted and reflect the reinvestment of dividends and other income.

2 These performance figures are provided gross of fees and expenses other than actual trading fees and expenses, and reflect all items of income, gain, and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite). The performance figures do not take account of the mark to market value of the units of the securities lending cash collateral pools held by any of the portfolios in the Composite. If they had, the performance shown would have been lower.

3 These performance figures (i) are provided net of actual trading, audit, custody, administrative and legal fees and expenses; (ii) beginning on 9/30/2014, adjusted quarterly to reflect the highest investment management fee on the actual fee schedule, inclusive of incentive fee, if any, of any account within the Composite ("Management Fee") at the relevant time; prior to 9/30/2014, adjusted for an assumed investment management fee, which is equal to or higher than the Management Fee (except in each case certain small accounts subject to a minimum investment management fee may have incurred an actual investment management fee higher than that fee assumed in calculating the performance shown above); and (iii) reflect all items of income, gain and loss (other than unrealized gain or loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite)).

4 Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends (net of any applicable withholding tax rates) and other income and are calculated in U.S. dollars. It is not possible to invest directly in an index.

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"FTSE" is a trademark of the London Stock Exchange Group companies, "Nareit" is a trademark of the National Association of Real Estate Investment Trusts ("Nareit") and "EPRA" is a trademark of the European Public Real Estate Association ("EPRA") and all are used by FTSE International Limited ("FTSE") under license.

The FTSE® EPRA® Nareit® Developed Index is calculated by FTSE. Neither FTSE, Euronext N.V., Nareit nor EPRA sponsor, endorse or promote SSGA's investment products and are not in any way connected to it and do not accept any liability.

All intellectual property rights within the index values and constituent list vest in FTSE, Euronext N.V., Nareit and EPRA. SSGA obtained full license from FTSE to use such intellectual property rights in the creation of this product.

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Supplemental Information

Characteristics

Annual Dividend Yield (Trailing 12 Months)	3.10%
Beta (Trailing 36 Months)	0.99
Composite Assets Under Management (M)	US\$3,386.96
Standard Deviation (Annualized 36 Months)	19.29%
Total Number of Holdings	353
Average Market Cap (M)	US\$19,639.80

Top Holdings

PROLOGIS INC	4.73%
PUBLIC STORAGE	2.43
SIMON PROPERTY GROUP INC	2.28
DIGITAL REALTY TRUST INC	2.26
VONOVIA SE	1.97
EQUINIX INC	1.92
WELLTOWER INC	1.86
AVALONBAY COMMUNITIES INC	1.56
EQUITY RESIDENTIAL	1.52
ALEXANDRIA REAL ESTATE EQUIT	1.43

Sector Allocation

Diversified	21.79%
Residential	17.68
Retail	14.15
Industrial	12.76
Office	10.99
Healthcare	7.43
Self Storage	5.17
Specialty	3.20
Lodging/Resorts	2.45
Data Centers	2.39
Industrial/Office	1.98

Top Countries

United States	56.94%
Japan	10.67
Hong Kong	5.61
Germany	4.92
United Kingdom	4.63
Australia	3.28
Canada	2.98
Singapore	2.87
Sweden	2.46
Belgium	1.14

Investment Manager

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Important Message About Risk

For institutional / professional investors use only.

Investing involves risk including the risk of loss of principal. Generally, among asset classes, stocks are more volatile than bonds or short-term instruments. Stock values fluctuate in response to the activities of individual companies and general market and economic conditions and at times the risk level of the Strategy may be greater than that of the U.S. stock market in general. In addition, the Strategy may use derivative instruments which may involve risks such as potential illiquidity of the markets and additional risk of loss of principal.

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Securities Lending

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The Top Holdings reflect certain securities that the representative account has bought and may not be representative of the Strategy's current or future investments. In the case of fixed income and cash funds the securities are aggregated and shown at the issuer level. The Top Holdings do not include other assets or instruments that may be held by the representative account including, for example and not by way of limitation, cash or cash equivalents and derivatives such as futures, options and swaps. The figures presented are as of the date shown above, do not include the representative account's entire investment portfolio, and may change at any time. This information should not be considered a recommendation to invest in a particular sector or to buy or sell any security. It is not known whether an investment in any sectors or securities will be profitable in the future.

Characteristics are calculated using the month-end market value of holdings of the representative account, and where averages are shown these reflect the market weights of the securities in the representative account. For beta and standard deviation, if shown, these reflect Composite month-end returns. Characteristics are as of the date indicated, are subject to change, and should not be relied upon as current thereafter.

Market data, prices, and dividend estimates for characteristics calculations provided by Factset Research Systems, Inc. All other portfolio data provided by SSGA.

SSGA generally delegates commodities management for separately managed accounts to SSGA FM, a wholly owned subsidiary of State Street and an affiliate of SSGA. SSGA FM is registered as a commodity trading advisor ("CTA") with the Commodity Futures Trading Commission and National Futures Association.

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U.S. Treasury Inflation Protected Securities (TIPS) Index Strategy

30 June 2021

Investment Objective

The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

Benchmark

Bloomberg Barclays U.S. Treasury Inflation Protected Securities (TIPS) Index

Investment Strategy

The Strategy is managed using an "indexing" investment approach, by which SSGA attempts to approximate, before expenses, the performance of the Index over the long term. The Strategy will not necessarily own all of the securities included in the Index.

The Strategy may attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index, in limited cases where we believe it is practical to do so. However, due to the diverse composition of securities in the Index and the fact that many of the securities comprising the Index may be unavailable for purchase, it may not be possible for the Strategy to purchase some of the securities comprising the Index. In such a case, SSGA will select securities for the Portfolio that SSGA expects will provide a return comparable to that of the Index.

SSGA expects that it will typically seek to replicate Index returns for the Portfolio through investments in the "cash" markets - actual holdings of debt securities and other instruments - rather than through "notional" or "synthetic" positions achieved through the use of derivatives, such as futures contracts or swap transactions (except in the unusual case where SSGA believes that use of derivatives is necessary to achieve an exposure that is not readily available through the cash markets).

SSGA may implement the Strategy's asset allocations through investments in investment pools (which may, but will not necessarily, be registered under the U.S. Investment Company Act of 1940, as amended) managed or sponsored by SSGA or an affiliate. Because of the unit issuance processes employed by the various underlying investment pools, allocations by the Strategy to certain pools on a given trading day may be invested in such pools at the next trading day's net asset value per unit. This will result in the portion of the Strategy's assets being invested in such investment pools being held in cash for the trading day and may result in increased tracking error. This could adversely impact the return to any investor.

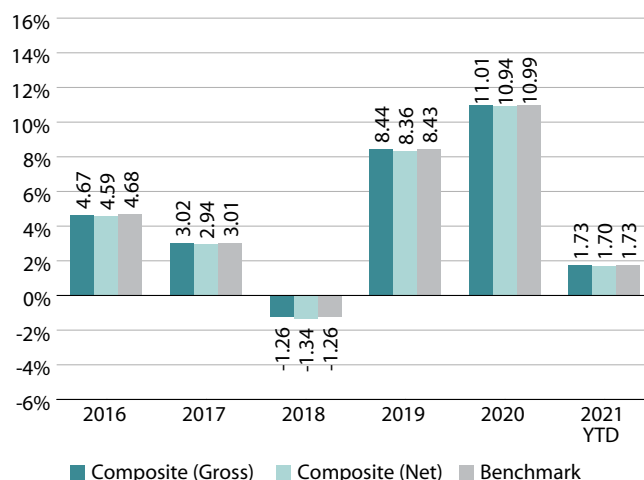
Key Facts

- Managed using an indexing strategy
- Does not normally use futures or other derivatives to create "notional" or "synthetic" index exposures
- Only designated 'Securities Lending' Portfolios may lend and enter repurchase agreements (See applicable governing documents for a Portfolio's authority to lend. Participation in a securities lending program may adversely affect the investment returns and risk profile of the Portfolio. See "Securities Lending Risk; Risks of Investment of Cash Collateral" in the Strategy Disclosure Document.)
- May invest in other investment pools, including those managed by SSGA and its affiliates
- Is not a leveraged strategy
- Will not sell securities short

Performance

Total Returns	Composite (Gross) ^{1,2}	Composite (Net) ^{1,3}	Benchmark ⁴
Q2 2021	3.25%	3.24%	3.25%
YTD	1.73%	1.70%	1.73%
1 Year	6.51%	6.44%	6.51%
3 Year	6.54%	6.47%	6.53%
5 Year	4.18%	4.10%	4.17%
10 Year	3.41%	3.25%	3.40%

Calendar Year Returns^{1,2,3,4}



1 Returns greater than one year are annualized. Returns represent past performance and are not a guarantee of future results. Current performance may differ from the performance shown. Returns shown are asset-weighted using Composite (as defined below) member market values, where the Composite member's return calculations are time-weighted and reflect the reinvestment of dividends and other income.

2 These performance figures are provided gross of fees and expenses other than actual trading fees and expenses, and reflect all items of income, gain, and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite). The performance figures do not take account of the mark to market value of the units of the securities lending cash collateral pools held by any of the portfolios in the Composite. If they had, the performance shown would have been lower.

3 These performance figures (i) are provided net of actual trading, audit, custody, administrative and legal fees and expenses; (ii) beginning on 9/30/2014, adjusted quarterly to reflect the highest investment management fee on the actual fee schedule, inclusive of incentive fee, if any, of any account within the Composite ("Management Fee") at the relevant time; prior to 9/30/2014, adjusted for an assumed investment management fee, which is equal to or higher than the Management Fee (except in each case certain small accounts-subject to a minimum investment management fee-may have incurred an actual investment management fee higher than that fee assumed in calculating the performance shown above); and (iii) reflect all items of income, gain and loss (other than unrealized gain or loss on units of the securities lending pools held by any portfolio in the Composite).

4 Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends (net of any applicable withholding tax rates) and other income and are calculated in U.S. dollars. It is not possible to invest directly in an index.

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The U.S. TIPS Index Composite (the "Composite"), inception date 8/1/2000, seeks to achieve the Investment Objective described above using the Investment Strategy described above, and includes portfolios managed across the global offices of SSGA-Global. To receive a complete list and description of SSGA-Global's composites and/or a GIPS[®] compliant presentation, please contact your SSGA Representative.

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Supplemental Information

Characteristics

Average Credit Quality	AAA
Average Effective Convexity	1.16
Average Effective Maturity	7.99
Composite Assets Under Management (M)	US\$21,802.37
Real Duration	7.61
Real Yield	-1.53%
Total Number of Holdings	45

Credit Quality Breakdown

Aaa	100.00%
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Top Issuers

US/T	99.88%
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Sector Allocation

Treasury	99.88%
Cash	0.12

Investment Manager

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The Top Holdings reflect certain securities that the representative account has bought and may not be representative of the Strategy's current or future investments. In the case of fixed income and cash funds the securities are aggregated and shown at the issuer level. The Top Holdings do not include other assets or instruments that may be held by the representative account including, for example and not by way of limitation, cash or cash equivalents and derivatives such as futures, options and swaps. The figures presented are as of the date shown above, do not include the representative account's entire investment portfolio, and may change at any time. This information should not be considered a recommendation to invest in a particular sector or to buy or sell any security. It is not known whether an investment in any sectors or securities will be profitable in the future.

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Market data, prices, and estimates for characteristics calculations provided by Bloomberg Portfolio Risk and Analytics Schedule of Services (PORT+). Average Credit Quality reflects market value weight of all the rated securities held by the portfolio (excludes unrated securities) using the middle rating provided by either S&P, Moody's and Fitch or lower if only two agency ratings are available. All other portfolio data provided by SSGA. Characteristics are as of the date indicated, are subject to change, and should not be relied upon as current thereafter. Fixed income asset class and country reporting based on Bloomberg Barclays indices which are trademarks of Bloomberg Barclays Inc. and have been licensed for use by State Street. Bloomberg Barclays or its affiliates ("Bloomberg Barclays") shall not be liable for any inaccuracies or errors with respect to any data or Index referenced herein, nor does Bloomberg Barclays sponsor, endorse or promote the Strategy. SSGA generally delegates commodities management for separately managed accounts to SSGA FM, a wholly owned subsidiary of State Street and an affiliate of SSGA. SSGA FM is registered as a commodity trading advisor ("CTA") with the Commodity Futures Trading Commission and National Futures Association.

State Street regards the Fact Sheets in their distributed form to be complete documents that include material information regarding the Strategy for investment consideration. The whole or any part of this work may not be reproduced, copied or transmitted or any of its contents disclosed to third parties without SSGA's express written consent.

Investment Objective

The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

Benchmark

S&P GSCI® Commodity Index

Investment Strategy

The Strategy is managed using an "indexing" investment approach, by which SSGA attempts to approximate, before expenses, the performance of the Index over the long term. The Strategy will not necessarily own all, or any, of the futures contracts included in the Index.

The Strategy typically attempts to replicate the performance of the Index by entering into derivatives transactions, such as total return swap transactions, that provide a return based on the performance of the Index. In some circumstances, the Strategy may purchase the commodity futures contracts comprising the Index, in the same proportions as they are represented in the Index. In other circumstances the Strategy may attempt instead to purchase a representative selection of the futures contracts that comprise the Index, in an attempt to replicate the performance of the Index. In such a case, SSGA will select a portfolio of investments for the Strategy (which may or may not be those futures contracts included in the Index) that SSGA expects will provide a return comparable to that of the Index.

The Strategy will typically maintain a substantial cash balance. The Strategy will normally invest that cash in other short-term pooled investment vehicles sponsored, managed, or otherwise affiliated with SSGA, such as, for example, registered investment companies, private investment pools, or commingled trust funds. More information on the cash strategy is available upon request. The Strategy may at any time invest in additional or different investment vehicles, or may invest directly in short investments, in SSGA's discretion.

The Strategy's return may not match the return of the Index.

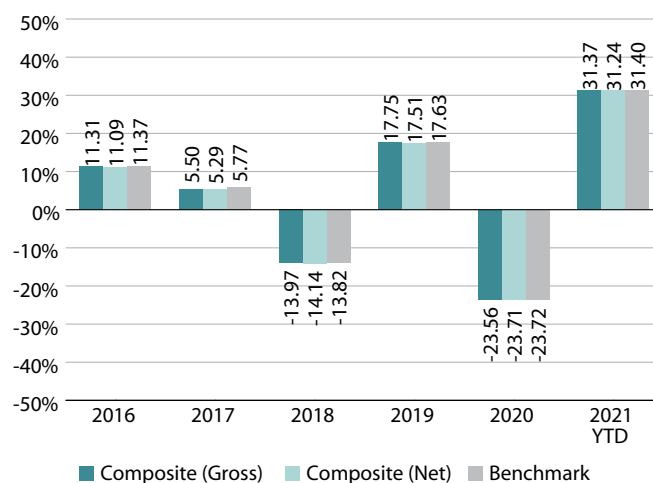
Key Facts

- Managed using an indexing strategy
- Will use futures and/or other derivatives
- May invest in other investment pools, including those managed by SSGA and its affiliates
- Will not lend its portfolio securities
- Is not a leveraged strategy
- Will not sell securities short

Performance

Total Returns	Composite (Gross) ^{1,2}	Composite (Net) ^{1,3}	Benchmark ⁴
Q2 2021	15.68%	15.62%	15.72%
YTD	31.37%	31.24%	31.40%
1 Year	57.21%	56.89%	57.37%
3 Year	-2.64%	-2.84%	-2.72%
5 Year	1.69%	1.48%	1.73%
10 Year	-6.53%	-6.73%	-6.48%

Calendar Year Returns^{1,2,3,4}



1 Returns greater than one year are annualized. Returns represent past performance and are not a guarantee of future results. Current performance may differ from the performance shown. Returns shown are asset - weighted using Composite (as defined below) member market values, where the Composite member's return calculations are time-weighted and reflect the reinvestment of dividends and other income.

2 These performance figures are provided gross of fees and expenses other than actual trading fees and expenses, and reflect all items of income, gain, and loss.

3 These performance figures (i) are provided net of actual trading, audit, custody, administrative and legal fees and expenses; (ii) beginning on 9/30/2014, adjusted quarterly to reflect the highest investment management fee on the actual fee schedule, inclusive of incentive fee, if any, of any account within the Composite ("Management Fee") at the relevant time; prior to 9/30/2014, adjusted for an assumed investment management fee, which is equal to or higher than the Management Fee (except in each case certain small accounts-subject to a minimum investment management fee-may have incurred an actual investment management fee higher than that fee assumed in calculating the performance shown above); and (iii) reflect all items of income, gain and loss.

4 Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends (net of any applicable withholding tax rates) and other income and are calculated in U.S. dollars. It is not possible to invest directly in an index.

Performance returns are calculated in U.S. dollars.

For the purpose of complying with the Global Investment Performance Standards (GIPS), the firm ("SSGA-Global") is defined as all portfolios managed across the global offices of State Street Global Advisors (SSGA) and SSGA Funds Management, Inc., with the exception of Charitable Asset Management which is held out to the marketplace as a distinct business entity. Prior to January 2011, SSGA-Global excluded its wrap fee business and assets accounted for on a book value basis (global cash and stable value assets). Prior to July 2017, SSGA-Global excluded Fiduciary Advisory Solutions. In January 2011, SSGA acquired the Bank of Ireland Asset Management Limited (now known as SSGA Ireland Limited), a GIPS Compliant firm. On January 01, 2012 SSGA Ireland Limited assets were merged into SSGA-Global. In July 2016, SSGA acquired the asset management and advisory services business conducted by GE Asset Management ("GEAM"), a GIPS Compliant firm. On July 01, 2017 GEAM assets were merged into SSGA-Global.

The S&P GSCI Composite (the "Composite"), inception date 9/1/2004 seeks to achieve the Investment Objective described above using the Investment Strategy described above, and includes portfolios managed across the global offices of SSGA-Global. To receive a complete list and description of SSGA-Global's composites and/or a GIPS® compliant presentation, please contact your SSGA Representative.

An investment in the Strategy is not FDIC insured, nor is it an obligation or deposit of, or guaranteed by State Street Corporation, SSGA or their affiliates.

The S&P GSCI® Commodity Index (the "Index") is a product of S&P Dow Jones Indices LLC ("SPDJI"), and has been licensed for use by SSGA. Standard & Poor's® and S&P® are registered trademarks of Standard & Poor's Financial Services LLC ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); and these trademarks have been licensed for use by SPDJI. S&P®, S&P GSCI® and S&P GSCI® Commodity Index are trademarks of S&P and have been licensed for use by SPDJI and its affiliates and sublicensed for certain purposes by SSGA. S&P GSCI® Commodity Index is now owned, endorsed, or approved by or associated with Goldman Sachs & Co., or its affiliated companies. SSGA's investment products are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, or their third party licensors and none of SPDJI, Dow Jones, S&P nor their respective affiliates or third party licensors makes any representation regarding the advisability of investing in such products.

This document provides summary information regarding the Strategy. It should be read in conjunction with the Strategy's Disclosure Document, which is available from SSGA. The Strategy Disclosure Document contains important information about the Strategy, including a description of a number of risks.

Supplemental Information

Characteristics

Composite Assets Under Management (M)	US\$1,246.43
Standard Deviation (Annualized 36 Months)	28.53%

Index Sector Allocation

Energy	57.46%
Agriculture	18.95
Industrial Metals	11.84
Livestock	6.78
Precious Metals	4.97

Investment Manager

The Strategy is managed by State Street Global Advisors Trust Company, a wholly owned subsidiary of State Street Bank and Trust Company, and a global leader in providing investment management solutions to clients worldwide. To learn more about SSGA, visit our web site at www.ssga.com.

Important Message About Risk

For institutional / professional investors use only.

Investing involves risk including the risk of loss of principal. Investing in commodities entails significant risk and is not appropriate for all investors. Commodity prices can be extremely volatile due to wide range of factors, such as market movements, real or perceived inflationary trends, commodity index volatility, international, economic and political changes, changes in interest rates and fluctuations in currency exchange rates. In addition, the Strategy may use derivative instruments which may involve risks such as potential illiquidity of the markets and additional risk of loss of principal.

This document provides summary information regarding the Strategy. This document should be read in conjunction with the Strategy's Disclosure Document, which is available from SSGA. The Strategy Disclosure Document contains important information about the Strategy, including a description of a number of risks.

The information provided does not constitute investment advice and it should not be relied on as such. It should not be considered a solicitation to buy or an offer to sell a security. It does not take into account any investor's particular investment objectives, strategies, tax status or investment horizon. You should consult your tax and financial advisor.

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The Supplemental Information above (except for the Beta and Standard Deviation, if shown) is that of a single representative account within the Composite, which is subject to change. The representative account was chosen because it has no material restrictions and fairly represents the investment style of the Strategy. The Supplemental Information should not be deemed to be reflective of (and could differ from) the overall Composite or any other single account within the Composite. Certain Supplemental Information may be rounded to the nearest hundredth decimal and may result in the total not adding up to 100.

Sector Allocations shown are that of the strategy's benchmark.

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Market data, prices, and dividend estimates for characteristics calculations provided by Factset Research Systems, Inc. All other portfolio data provided by SSGA. Sector reporting based on the Global Industry Classification Standard ("GICS") which was developed by and is the exclusive property and a service mark of MSCI Inc. ("MSCI") and Standard & Poor's, a division of The McGraw-Hill Companies, Inc. ("S&P") and is licensed for use by State Street. Effective October 1, 2018, GICS renamed the "Telecommunication Services" sector to "Communication Services", which resulted in the sector reclassification of some companies.

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