

# INTERNATIONAL EQUITY ESG STRATEGY

QUARTERLY FACT SHEET | 31 MARCH 22



## INVESTMENT STRATEGY

The Strategy employs a rigorous bottom-up research process to identify promising stocks of non-U.S. companies trading below their intrinsic value. Actively integrating ESG criteria into the fundamental approach allows the Strategy to reflect ESG values through the portfolio's investments without sacrificing the potential for attractive long-term risk-adjusted performance. The portfolio is high conviction but also well diversified by sector, country and market capitalization. Our three-basket portfolio construction process aids in balancing risk across the portfolio and constructing a portfolio which has the potential to participate throughout the market cycle.

## PORTFOLIO MANAGERS

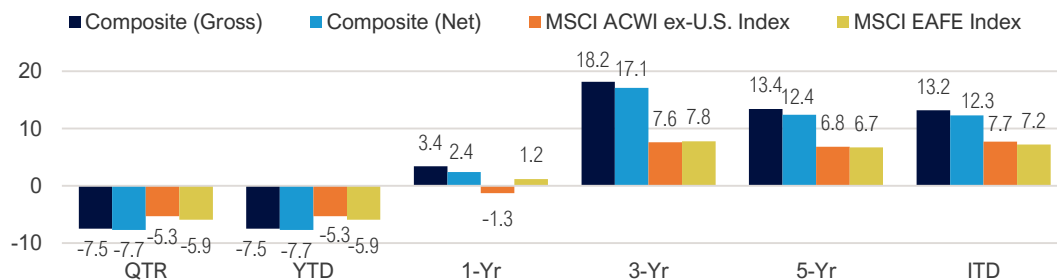
**Lei Wang, CFA**

Began with firm in 2004.  
Industry experience since 1996.

Supported by the entire Thornburg investment team.

## INVESTMENT RESULTS

### ANNUALIZED RETURNS (%)



### CALENDAR YEAR RETURNS (%)

	2016	2017	2018	2019	2020	2021
Composite (Gross)	8.71	23.89	-12.64	25.96	28.11	22.22
Composite (Net)	7.67	23.46	-13.21	24.79	26.90	21.05
MSCI ACWI ex-U.S. Index	4.50	27.19	-14.20	21.51	10.65	7.87
MSCI EAFE Index	1.00	25.03	-13.79	22.01	7.82	11.26
Excess Return (Gross) vs. MSCI ACWI ex-U.S. Index	4.22	-3.30	1.56	4.44	17.45	14.35
Excess Return (Gross) vs. MSCI EAFE Index	7.71	-1.14	1.15	3.94	20.29	10.96

ITD is Inceptions to Date. In US\$ terms. Returns may increase or decrease as a result of currency fluctuations. Periods less than one year are not annualized.

Performance data for the International Equity ESG Strategy is from the International Equity ESG Composite, inception date of 1 October 2015. The International Equity ESG Composite includes discretionary accounts invested in the International Equity ESG Strategy. Returns are calculated using a time-weighted and asset-weighted calculation including reinvestment of dividends and income. Periods less than one year are not annualized. Individual account performance will vary. The performance data quoted represents past performance; it does not guarantee future results. Gross of fee returns are net of transaction costs. Net of fee returns are net of transaction costs and investment advisory fees. Thornburg Investment Management Inc.'s fee schedule is detailed in Part 2A of its ADV brochure. Performance results of the firm's clients will be reduced by the firm's management fees. For example, an account with a compounded annual total return of 10% would have increased by 159% over ten years. Assuming an annual management fee of 0.75%, this increase would be 142%.

## STRATEGY PROFILE

### BENCHMARK

MSCI ACWI ex-U.S. Index  
MSCI EAFE Index

### eVESTMENT UNIVERSE

ACWI ex-U.S. All Cap Core Equity

### EXPECTATIONS

Excess return 200-300 bps annualized over a full market cycle

Ex-ante tracking error range 3-6%

### HOLDINGS INFORMATION

Typically 50-70 holdings

Weight at purchase less than 5%, typically 1% to 3%

### EXPECTED TURNOVER RANGE

No explicit target, typically 40-80% depending on market environment and opportunity set

### MARKET CAPITALIZATION

Large Cap, average daily trading volume of \$10M or more

### CASH EXPOSURE

<10% under normal conditions

### INDUSTRY EXPOSURE

Maximum of 25%

### COUNTRY EXPOSURE

Maximum of 25%

### EMERGING MARKETS EXPOSURE

Maximum of 35%

## AVAILABLE VEHICLES

Separate Account  
U.S. Mutual Fund

## PORTFOLIO CHARACTERISTICS

### RISK STATISTICS

(GROSS VS. MSCI ACWI EX-U.S. INDEX)	3-YR	5-YR
Annualized Alpha	10.62%	6.73%
Beta	0.95	0.94
Standard Deviation	17.20%	15.11%
Tracking Error	6.89%	5.92%
Sharpe Ratio	1.02	0.81
Information Ratio	1.56	1.11
Up Capture	120.68%	112.83%
Down Capture	78.31%	81.85%

Past performance does not guarantee future results.

PORTFOLIO STATISTICS	REP. ACCT.	MSCI ACWI EX-U.S. INDEX
Active Share	87.1%	--
Weighted Average Market Cap.	\$115.5B	\$92.8B
Median Market Cap	\$42.9B	\$9.5B
Price to Earnings (Forecast 1-Fiscal Year)	19.6x	13.1x
Est 3-5 Yr EPS Growth	16.8%	14.6%
Price-to-Book	2.9x	1.8
Price-to-Cash Flow	16.5x	8.5x
Return on Assets	7.8%	7.2%

TOP REGIONS† (%)	REP. ACCT.	RELATIVE WEIGHT
Japan	19.3	5.2
Developed North America	17.4	9.0
Eurozone	15.6	-4.3
Other Developed Europe & MidEast	12.3	0.8
Emerging Asia	11.8	-10.5
UK	7.4	-2.2

### FIVE LARGEST COUNTRIES† (%)

	REP. ACCT.	RELATIVE WEIGHT
Japan	19.3	5.2
United States	10.2	10.1
China	9.3	0.7
France	8.8	1.6
United Kingdom	7.4	-2.2

† Holdings are classified by country of risk as determined by MSCI and Bloomberg.

(GROSS VS. MSCI EAFE INDEX)	3-YR	5-YR
Annualized Alpha	10.81%	7.02%
Beta	0.90	0.91
Standard Deviation	17.20%	15.11%
Tracking Error	8.16%	6.80%
Sharpe Ratio	1.02	0.81
Information Ratio	1.28	0.98
Up Capture	116.33%	109.17%
Down Capture	74.78%	76.75%

### TEN LARGEST HOLDINGS (%)

(AS OF 28 FEBRUARY 22)	REP. ACCT.
E.ON SE	2.9
Roche Holding AG	2.8
Seven & i Holdings Co. Ltd.	2.6
Tencent Holdings Ltd.	2.6
Tesco plc	2.4
Sony Group Corp.	2.4
Hitachi Ltd.	2.3
Meituan	2.3
Recruit Holdings Co. Ltd.	2.3
Enel SpA	2.3

SECTOR ALLOCATION (%)	REP. ACCT.	RELATIVE WEIGHT
Information Technology	23.4	11.2
Industrials	16.7	4.4
Consumer Staples	11.8	3.4
Materials	9.6	0.7
Consumer Discretionary	9.2	-1.9
Financials	7.6	-13.0
Health Care	6.3	-3.0
Communication Services	2.9	-3.3
Utilities	0.8	-2.4
Real Estate	0.7	-1.7
Cash	11.0	

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\*Includes assets under management (\$44.2B) and assets under advisement (\$1.7B).

# IMPORTANT INFORMATION

Source: FactSet, and Thornburg.

Unless otherwise noted, all data is as of 31 March 22.

Investments in the Strategy carry risks, including possible loss of principal. Carefully consider the Strategy's investment objectives, risks, and expenses before investing. There is no guarantee that the portfolio will meet its investment objectives.

Diversification does not assure or guarantee better performance and cannot eliminate the risk of investment losses. Portfolio characteristics are derived using currently available data from independent research resources that are believed to be accurate. Portfolio attributes can and do vary. Portfolios invested in a limited number of holdings may expose an investor to greater volatility. There is no guarantee that the Strategy will meet its investment objectives or expectations. Cash may also include cash equivalents and currency forwards.

Portfolio holdings and characteristics shown herein are from a representative account managed within the investment composite. The representative account is selected based on account characteristics that Thornburg believes accurately represent the investment strategy as a whole. Should these characteristics change materially, Thornburg may select a different representative account. Holdings may change daily and may vary among accounts, which may contribute to different investment results. The representative account information is supplemental to the strategy's composite and GIPS compliant presentation.

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The MSCI ACWI ex USA Net Total Return USD Index is a market capitalization weighted index representative of the market structure of 46 developed and emerging market countries in North and South America, Europe, Africa, the Middle East, and the Pacific Rim, excluding securities of United States' issuers. The index is calculated with net dividends reinvested in U.S. dollars.

The MSCI EAFE (Europe, Australasia, Far East) Net Total Return USD Index is an unmanaged index. It is a generally accepted benchmark for major overseas markets. Index weightings represent the relative capitalizations of the major overseas developed markets on a U.S. dollar adjusted basis. The index is calculated with net dividends reinvested in U.S. dollars.

Portfolio construction will have significant differences from that of a benchmark index in terms of security holdings, industry weightings, asset allocations and number of positions held, all of which may contribute to performance, characteristics and volatility differences. Investors may not make direct investments into any index.

Active Share – A measure of the percentage of stock holdings in a manager's portfolio that differ from the benchmark index.

Alpha – A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. A positive alpha figure indicates the portfolio performed better than its beta would predict. In contrast, a negative alpha indicates under-performance, given the expectations established by the beta.

Beta – A measure of market-related risk. Less than one means the portfolio is less volatile than the index, while greater than one indicates more volatility than the index.

P/E – Price/Earnings ratio (P/E ratio) is a valuation ratio of a company's current share price compared to its per-share earnings. P/E equals a company's market value per share divided by earnings per share. Forecasted P/E is not intended to be a forecast of the fund's future performance.

Sharpe Ratio – A risk-adjusted measure developed by Nobel Laureate William Sharpe. It is calculated by using standard deviation and excess return to determine reward per unit of risk. The higher the Sharpe Ratio, the better the fund's historical risk-adjusted performance. The Geometric Sharpe ratio is calculated for the past three-year period by dividing a fund's annualized excess returns by its annualized standard deviation.

Return on Assets (ROA) – An indicator of how profitable a company is relative to its total assets. ROA gives an idea as to how efficient management is at using its assets to generate earnings.

Information Ratio – A measure of the consistency of excess returns over the benchmark. It is the excess return divided by the tracking error (or standard deviation of excess return). The higher the information ratio, the higher the expected return of the portfolio given the amount of risk taken.

Tracking Error – A measure of how closely a portfolio follows its benchmark. Typically, it's the standard deviation of the difference in returns between a portfolio and the benchmark. Actively managed portfolios tend to have a higher tracking error compared to passively managed investments.

Standard Deviation - A measure of the dispersion of a set of data from its mean. The more spread apart the data, the higher the deviation. Values within one standard deviation of the mean represent approximately two-thirds of the data set, assuming a normal distribution.

Upside/Downside Capture Ratio - A ratio that shows whether a given fund has outperformed - gained more or lost less than - a broad market benchmark during periods of market strength and weakness, and if so, by how much.

Price/Book ratio (P/B ratio) - A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share.

Price/Cash Flow - The measure of the market's expectations regarding a firm's future financial health. It is calculated by dividing price per share by cash flow per share.

Earnings per Share (EPS) - The total earnings divided by the number of shares outstanding.

All MPT statistics (alpha, beta, and R-squared) are based on a least-squared regression of the portfolio return over Treasury bills (called excess return) and the excess returns of the benchmark.

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