

## Overview

### Q1 2023

Below is a list of separately managed accounts (SMAs) that have either been added to or removed from the Approved List effective April 3<sup>rd</sup>, 2023. PMC's quantitative analysis is based on data for the period ending December 31<sup>st</sup>, 2022.

**Please note index-based ETFs, mutual funds, and SMAs now will be included on the PMC Approved List on an annual, rather than quarterly, basis. The annual Approved List for these products will be provided at the end of the first quarter.**

### SMAs added to the Approved List

SMA Name	Style	Ticker	SecID
Allspring Global Dividend Payers Equity Managed Account	Global Equity	ACM-AGDP	F000014YNG
Athena Market Rotation Managed Account *	Global Equity	ACM-AAMR	F00001ELUT
PGIM Custom Harvest Global Equity Plus Managed Account	Global Equity	SMA71464	F0000142MN
Western Asset Corporate Bond Ladders (1-10 Year) Portfolios Managed Account	Intermediate Bond	SMA60040	F00000XD6C
Western Asset Corporate Bond Ladders (1-10 Year) Portfolios Managed Account UMA	Intermediate Bond	BND-WACT	F00000XD6C
Nuveen Municipal Ladder 1-15 Years Managed Account	Intermediate Muni	SMA31029	F000000O1J
Principal Municipal California Fixed Income Managed Account	Intermediate Muni	SMA72623	F00001EVRM
Principal Municipal California Fixed Income Managed Account UMA	Intermediate Muni	BND-PMCFIMA	F00001EVRM
McKinley International Managed Account	Int'l Developed Mkts	ACM-MCKINT	FOUSA06TQW
Parametric Custom Core Global Ex-US ADR Managed Account - Benchmark: MSCI ACWI ex-US	Int'l Developed Mkts	SMA71570	F00000ZYJQ
Parametric Custom Core Global Ex-US ADR Managed Account - Benchmark: MSCI ACWI ex-US (External)	Int'l Developed Mkts	SMA71981	F00000ZYJQ
Putnam International Durable Equity (ADR Only) Managed Account [SB8]	Int'l Developed Mkts	ACM-PIDE	F0000125K7
T. Rowe International Core Equity Managed Account	Int'l Developed Mkts	ACM-TICE	F000010EA8
Chilton Strategic Equity Managed Account	Large-Cap Core	ACM-CSEM	F0000115AF
Eads and Heald Equity Core Growth Managed Account	Large-Cap Core	ACM-EAHECG	SAUSA001NV
Goldman Sachs S&P Dividend Income & Growth	Large-Cap Core	ACM-SPDIG	F00000OEGF
Calvert Large-Cap Growth Responsible Index SMA	Large-Cap Growth	ACM-CLCR	F000014K90
Capital Group US Equity SMA	Large-Cap Growth	ACM-CGUSE	F00000PZV1
Fred Alger Growth & Income Managed Account	Large-Cap Growth	ACM-FAGI	F00001CNCJ
Logan Large Cap Growth Managed Account	Large-Cap Growth	ACM-LOGLCG	SAUSA04AF6

Wedgewood Large Cap Focused Growth Managed Account	Large-Cap Growth	ACM-WPILCFG	SAUSA00312
William Blair All Cap Growth Managed Account	Large-Cap Growth	ACM-WBCACG	SAUSA0027N
Brookmont Dividend Growth Managed Account	Large-Cap Value	ACM-BRDV	FOUSA06PCK
Parametric Custom Core US Large - Mid Cap Value Managed Account- Benchmark: Russell 1000 Value	Large-Cap Value	SMA71571	FOUSA090CX
Parametric Custom Core US Large - Mid Cap Value Managed Account- Benchmark: Russell 1000 Value (External)	Large-Cap Value	SMA71987	FOUSA090CX
T. Rowe U.S. Select Value Equity Managed Account	Large-Cap Value	ACM-TULE	F000010EA9
Baron Mid Cap Growth Managed Account	Mid-Cap Growth	SMA63106	FOUSA05ZMG
Cozad US Equity Income Managed Account	Mid-Cap Value	ACM-CUEU	F00001EAWS
Eagle Vertical Income Portfolio Managed Account	Other	SMA63481	F0000107PT
Epoch US Shareholder Yield Institutional Managed Account	Other	ACM-USSY	F00000V36K
TCW New America Premier Equities Managed Account	Other	SMA62364	F000014JEQ
Reinhart Limited Duration Fixed Income Managed Account	Short Bond	SMA71073	F00000PIHN
First Trust Small Cap Core Managed Account	Small-Cap Core	ACM-FTASCC	SAUSA0020M
Leeward Small Cap Value Managed Account	Small-Cap Core	SMA65473	SAUSA002QA
Sapphire Star Capital Small Cap Managed Account	Small-Cap Core	ACM-SSCS	F00000ZEH6
Teton Small Cap Select Value Managed Account	Small-Cap Core	ACM-TSCS	F00000M88F
GW&K Small Cap Core Managed Account	Small-Cap Growth	ACM-GWKSCC	F00000JZDU
Royce Premier SMA Portfolios Managed Account *	Small-Cap Growth	ACM-LRPS	F000011N4T
Ziegler MVP Small Cap Core Managed Account	Small-Cap Growth	ACM-MVSCC	SAUSA000GK
Seizert Small Cap Value Managed Account	Small-Cap Value	ACM-SCVM	F00000NZFM

\* Approved-Qualitative product

## SMA's Removed from the Approved List

SMA Name	Style	Ticker	SecID
Lord Abbett 1-10 Year Municipal Ladder Managed Account	Intermediate Muni	SMA28802	F00000OIML
Lord Abbett 1-10 Year Municipal Ladder Managed Account UMA	Intermediate Muni	BND-LATL	F00000OIML
ClearBridge International Growth ADR ESG Portfolios **	Int'l Developed Mkts	ACM-CIGA	F00000VSZ0
Dana Catholic ESG Equity Managed Account *	Large-Cap Core	ACM-DCSRI	F00000Q1P9
Dana Social ESG Equity Managed Account *	Large-Cap Core	ACM-DANASR	SAUSA0034C
GMO Quality Strategy Managed Account	Large-Cap Core	ACM-GMOQ	FOUSA05ZB7
Profit Social Equity Managed Account	Large-Cap Core	ACM-PIMSCL	F00000JQGL
Advisory Research U.S. Select Concentrated Growth Managed Account	Large-Cap Growth	ACM-ARCG	F00000PXVM
Morningstar Capital Appreciation Managed Account	Large-Cap Growth	ACM-MISCASSB	F00000JSWC
Morningstar Hare Managed Account	Large-Cap Growth	ACM-MISHSSB	F00000JSWD
Morningstar Hare Non-MLP Managed Account	Large-Cap Growth	ACM-MHNP	F00000WJ6B
Principal Aligned Focused Blue Chip Equity Managed Account **	Large-Cap Growth	ACM-AFBC	F00000ZUB2
Hillman Focused Advantage Value Equity Portfolio	Large-Cap Value	ACM-HFCC	SAUSA002FI
Wright Investors Large Cap Value Equity Managed Account	Large-Cap Value	ACM-WILCVE	FOUSA05ZH8
GW&K Municipal Enhanced Yield Managed Account	Long Muni	SMA65923	FOUSA069OD
GW&K Municipal Enhanced Yield Managed Account UMA	Long Muni	BND-GWKMEY	FOUSA069OD
Lord Abbett 1-20 Year Municipal Ladder Managed Account	Long Muni	SMA28803	F00000OIMM
Lord Abbett 1-20 Year Municipal Ladder Managed Account UMA	Long Muni	BND-LAWL	F00000OIMM
Janus Henderson Opportunistic Alpha Managed Account	Mid-Cap Core	ACM-JCMOA	FOUSA06BHY
Green Alpha Next Economy Index Managed Account	Mid-Cap Growth	ACM-GANEI	F00000W4HR
Kayne Anderson Rudnick Small-Mid Cap Quality Value Managed Account	Mid-Cap Growth	ACM-KSMC	F0000004KV
Sage ESG Intermediate Term Fixed Income Managed Account	Short Bond	SMA61742	F00000YX81
Sage ESG Intermediate Term Fixed Income Managed Account UMA	Short Bond	BND-SEIT	F00000YX81
Sage Impact Bond Managed Account	Short Bond	SMA55656	F00000YV7I
Invesco Tax Free Impact Limited Term Managed Account	Short Muni	SMA60352	F00000ZBM7
Invesco Tax Free Impact Limited Term Managed Account UMA	Short Muni	BND-ITFILT	F00000ZBM7
Allspring Small Core Managed Account	Small-Cap Core	ACM-WFPS	SAUSA003D7
Sterling Capital Small Cap Relative Value	Small-Cap Core	ACM-SSCV	SAUSA0018H

\* **Approved-Qualitative product, dropped to Available**

\*\* **Previously Pending Review, dropped to Available**



## Overview

Below is a list of mutual funds that have either been added to or removed from the Approved effective April 3<sup>rd</sup>, 2023. PMC's quantitative analysis is based on data for the period ending December 31<sup>st</sup>, 2022

### Mutual Funds Added to the Approved List

Mutual Fund Name	Style	Ticker	SecID
American Funds Retire Inc Port-Cnsrv F2	Balanced	DFFWX	F00000VRH4
American Funds Retire Inc Port-Cnsrv F3	Balanced	FICWX	F00000YDDZ
Catalyst/SMH Total Return Income A	Balanced	TRIFX	FOUSA06R8F
Catalyst/SMH Total Return Income I	Balanced	TRIIX	F00000PVZT
Delaware Ivy Asset Strategy Fund CI A	Balanced	WASAX	FOUSA00JLL
Delaware Ivy Asset Strategy Fund CI I	Balanced	IVAX	FOUSA06BJ8
Delaware Ivy Asset Strategy Fund CI R6	Balanced	IASTX	F00000U1FI
Delaware Ivy Asset Strategy Fund CI Y	Balanced	WASYX	FOUSA00BLC
Fidelity Advisor Managed Retirement Income Mutual Fund Class Z6	Balanced	FRYMX	F000013OE6
Fidelity Advisor® Managed Retrmt Inc A	Balanced	FRAMX	FOUSA06K5B
Fidelity Advisor® Managed Retrmt Inc I	Balanced	FRIMX	FOUSA06K5E
Fidelity Managed Retirement Inc	Balanced	FIRMX	FOUSA06K5A
Franklin LifeSmart 2045 Retire Trgt A	Balanced	FTTAX	FOUSA05I2D
Hartford Balanced Income A	Balanced	HBLAX	FOUSA05IEF
Hartford Balanced Income I	Balanced	HBLIX	F000005OK6
JHancock Multimanager Lifestyle Cnsrv A	Balanced	JALRX	FOUSA05COW
Saratoga Aggressive Balanced Allc A	Balanced	SABAX	F00000ZM7P
Saratoga Aggressive Balanced Allc I	Balanced	SABIX	F00000ZM7R
Saratoga Moderate Balanced Allc A	Balanced	SMPAX	F00000ZM83
Saratoga Moderate Balanced Allc I	Balanced	SBMIX	F00000ZM85
Saratoga Moderately Agrsv Bal Allc A	Balanced	SAMAX	F00000ZM86
Saratoga Moderately Agrsv Bal Allc I	Balanced	SAMIX	F00000ZM88
T. Rowe Price Retirement 2040	Balanced	TRRDX	FOUSA02VND

T. Rowe Price Retirement 2040 Advisor	Balanced	PARDX	FOUSA04BEW
T. Rowe Price Retirement 2045	Balanced	TRRKX	FOUSA05C00
T. Rowe Price Retirement 2060	Balanced	TRRLX	F00000SZHW
T. Rowe Price Target 2060 I	Balanced	TTOIX	F00000WWMO
JPMorgan Floating Rate Income A	Bank Loan	JPHAX	F00000MB4P
JPMorgan Floating Rate Income I	Bank Loan	JPHSX	F00000MB4R
Transamerica Floating Rate A	Bank Loan	TFLAX	F00000QB74
Transamerica Floating Rate I	Bank Loan	TFLIX	F00000QB72
Virtus Seix Floating Rate High Inc I	Bank Loan	SAMBX	FOUSA05GSB
Columbia Commodity Strategy A	Commodity	CCSAX	F00000OE8B
Columbia Commodity Strategy Adv	Commodity	CCOMX	F00000PODV
Columbia Commodity Strategy Inst	Commodity	CCSZX	F00000OE8E
Destinations International Equity I	Foreign Large Cap Growth	DIEFX	F00000Y471
T. Rowe Price European Stock	Foreign Large Cap Growth	PRESX	FOUSA00EIX
Columbia International Div Inc A	Foreign Large Cap Value	CSVAX	FOUSA02VMS
Columbia International Div Inc Adv	Foreign Large Cap Value	CGOLX	F00000PLM6
Columbia International Div Inc Inst	Foreign Large Cap Value	CSVFX	FOUSA00AVS
Johnson International	Foreign Large Cap Value	JINTX	FOUSA07ZUP
Vanguard International Value Inv	Foreign Large Cap Value	VTRIX	FOUSA00FIG
Goldman Sachs Intl Sm Cp Insights A	Foreign Small Mid Cap Core	GICAX	FOUSA06LBE
Goldman Sachs Intl Sm Cp Insights Instl	Foreign Small Mid Cap Core	GICIX	FOUSA06LBG
Goldman Sachs Intl Sm Cp Insights Inv	Foreign Small Mid Cap Core	GIRLX	F00000J3JD
Destinations Equity Income I	Global Equity	DGEFX	F00000Y472
Lazard Global Equity Select Port Instl	Global Equity	GESIX	F00000QKMC
Lazard Global Equity Select Port Open	Global Equity	GESOX	F00000QKMN
Lord Abbett Global Equity A	Global Equity	LGCAx	F00000XQWT
Lord Abbett Global Equity F	Global Equity	LGCFX	F00000XQWV
Lord Abbett Global Equity I	Global Equity	LGCYX	F00000XQWW
Yorktown Growth A	Global Equity	AFGGX	FOUSA05ILG
Yorktown Growth Institutional	Global Equity	APGRX	F00000PRU3
Yorktown Growth L	Global Equity	APITX	FOUSA05ILC
DWS High Income A	High Yield	KHYAX	FOUSA00DAX

DWS High Income Inst	High Yield	KHYIX	FOUSA02VES
DWS High Income S	High Yield	KHYSX	F00000037B
Lord Abbett High Income Muni Bond A	High Yield	HYMAX	FOUSA05BF1
Lord Abbett High Income Muni Bond F	High Yield	HYMFX	FOUSA06L5F
Lord Abbett High Income Muni Bond I	High Yield	HYMIX	FOUSA088AX
MassMutual High Yield I	High Yield	MPHZX	F00000LPFQ
MassMutual High Yield Svc	High Yield	DLHYX	FOUSA00A8G
MassMutual High Yield Y	High Yield	BXHYX	F00001CPKI
Nuveen High Yield Income A	High Yield	NCOAX	F00000GVCJ
Nuveen High Yield Income I	High Yield	NCOIX	F00000GVCM
Russell Inv Tax-Exempt High Yield Bd A	High Yield	RTHAX	F00000VDZ6
Russell Inv Tax-Exempt High Yield Bd M	High Yield	RHYTX	F00000Y9PZ
Russell Inv Tax-Exempt High Yield Bd S	High Yield	RTHSX	F00000VDZ9
BlackRock GNMA Instl	Intermediate Bond	BGNIX	FOUSA00ILE
BlackRock GNMA Inv A	Intermediate Bond	BGPAX	FOUSA00IQU
Brandes Core Plus Fixed Income I	Intermediate Bond	BCPIX	FOUSA06O1L
BrandywineGLOBAL Flexible Bond I	Intermediate Bond	LFlix	F00000WYYO
PIMCO Total Return IV A	Intermediate Bond	PTUZX	F00000LZDQ
PIMCO Total Return IV Instl	Intermediate Bond	PTUIX	F00000LZDM
T. Rowe Price GNMA	Intermediate Bond	PRGMX	FOUSA00EIIY
AB Municipal Income California A	Intermediate Muni	ALCAX	FOUSA00B3P
AB Municipal Income California Advisor	Intermediate Muni	ALCVX	FOUSA07WYN
Delaware Tax-Free New Jersey A	Intermediate Muni	FINJX	FOUSA00CNW
Delaware Tax-Free New Jersey Instl	Intermediate Muni	FINLX	F00000PIKM
Eaton Vance OR Municipal Income A	Intermediate Muni	ETORX	FOUSA00EVY
Eaton Vance OR Municipal Income I	Intermediate Muni	EIORX	F00000J8LG
Sterling Capital NC Interm Tax-Free A	Intermediate Muni	BNCAX	FOUSA00BDA
Sterling Capital NC Interm Tax-Free I	Intermediate Muni	BBNTX	FOUSA00BDB
Eaton Vance Global Bond Fund Class A	International Bond	EAIIX	FOUSA06IAZ
Eaton Vance Global Bond Fund Class I	International Bond	EIIMX	F00000M1AN
Harbor Diversified Intl All Cp Admin	Int'l Developed Mkts	HRIDX	F00000W7A2
Harbor Diversified Intl All Cp Instl	Int'l Developed Mkts	HAIDX	F00000W7A1

Harbor Diversified Intl All Cp Inv	Int'l Developed Mkts	HIIDX	FO0000W7A3
Harbor Diversified Intl All Cp Retire	Int'l Developed Mkts	HNIDX	FO0000WOVM
JNL/Mellon International Index A	Int'l Developed Mkts	46648M540	FVUSA04AIT
State Street Glb All Cap Eq ex-US Idx	Int'l Developed Mkts	SSGVX	F00000T8Y8
State Street Glb All Cap Eq ex-US Idx I	Int'l Developed Mkts	SSGJX	F00000QT2B
State Street Glb All Cap Eq ex-US Idx K	Int'l Developed Mkts	SSGLX	F00000QT2A
Thornburg International Equity A	Int'l Developed Mkts	TGVAX	FOUSA00INQ
Thornburg International Equity I	Int'l Developed Mkts	TGVIX	FOUSA02UJS
Thornburg International Equity R5	Int'l Developed Mkts	TIVRX	FOUSA05BEG
Thornburg International Equity R6	Int'l Developed Mkts	TGIRX	F00000O37M
abrdn China A Share Equity A	Int'l Emerging Mkts	GOPAX	FOUSA05ANA
abrdn China A Share Equity I/S	Int'l Emerging Mkts	GOPSX	FOUSA05AN9
abrdn China A Share Equity Inst	Int'l Emerging Mkts	GOPIX	FOUSA05AN8
Acadian Emerging Markets I	Int'l Emerging Mkts	AEMZX	F00000XOT1
Acadian Emerging Markets Investor	Int'l Emerging Mkts	AEMGX	FOUSA00B60
Acadian Emerging Markets Y	Int'l Emerging Mkts	AEMVX	F00000XOT0
BNY Mellon Global Emerging Mkts - A	Int'l Emerging Mkts	DGEAX	F00000QSIX
BNY Mellon Global Emerging Mkts - I	Int'l Emerging Mkts	DGIEX	F00000QSIZ
BNY Mellon Global Emerging Mkts - Y	Int'l Emerging Mkts	DGEYX	F00000QSJ0
Fidelity® SAI Emerging Markets Index	Int'l Emerging Mkts	FERGX	F00000WCPE
DWS Communications A	Large-Cap Core	COMAX	FOUSA00CPM
JNL Ser Tr:M S&P 500;I	Large-Cap Core	46648M649	FVUSA04AXN
Jnl/Mellon Cap S&P 500 Index A	Large-Cap Core	46648M656	FVUSA04AIU
JPMorgan Equity Index I	Large-Cap Core	HLEIX	FOUSA00D39
JPMorgan Equity Index R6	Large-Cap Core	OGFAX	F00000XF1S
Northern US Quality ESG I	Large-Cap Core	NUEIX	F000014VXC
Northern US Quality ESG K	Large-Cap Core	NUESX	F00000XTVA
Schwab Health Care	Large-Cap Core	SWHFX	FOUSA00HHN
T. Rowe Price Dividend Growth	Large-Cap Core	PRDGX	FOUSA00EJ4
T. Rowe Price Dividend Growth Advisor	Large-Cap Core	TADGX	FOUSA05GKV
T. Rowe Price Dividend Growth I	Large-Cap Core	PDGIX	F00000WMTX
Vanguard Mega Cap Index Institutional	Large-Cap Core	VMCTX	FOUSA06LI3



Allspring Discovery Innovation A	Large-Cap Growth	WFSTX	FOUSA00L8U
Allspring Discovery Innovation Admin	Large-Cap Growth	WFTDX	F00000J8L6
Allspring Discovery Innovation Instl	Large-Cap Growth	WFTIX	F00000XYUE
Congress Large Cap Growth Institutional	Large-Cap Growth	CMLIX	FOUSA00BN6
Congress Large Cap Growth Retail	Large-Cap Growth	CAMLX	FOUSA08O13
F/m Investments Large Cap Focused Inst	Large-Cap Growth	IAFLX	F00000XN05
F/m Investments Large Cap Focused Inv	Large-Cap Growth	IAFMX	F00000XN04
JNL/Mellon Nasdaq® 100 Index A	Large-Cap Growth	46649U574	FVUSA04AQD
JNL/Mellon Nasdaq® 100 Index I	Large-Cap Growth	46649U566	FOUSA06N5K
Nuveen Winslow Large-Cap Growth ESG A	Large-Cap Growth	NWCAX	FOUSA08PQ1
Nuveen Winslow Large-Cap Growth ESG I	Large-Cap Growth	NVLIX	FOUSA08PQ5
Nuveen Winslow Large-Cap Growth ESG R6	Large-Cap Growth	NWCFX	F00000PHXG
TCW New America Premier Equities I	Large-Cap Growth	TGUSX	F00000WJF3
TCW New America Premier Equities N	Large-Cap Growth	TGUNX	F00000WJF4
Fidelity® Select Insurance Port	Large-Cap Value	FSPCX	FOUSA00CJ8
Guinness Atkinson Global Energy	Large-Cap Value	GAGEX	FOUSA058DN
JNL/Mellon Capital Dow 10 A	Large-Cap Value	46649U624	FVUSA0014H
JNL/Mellon Dow Index I	Large-Cap Value	46649U616	F00000Z1XO
TCW Relative Value Dividend Apprec I	Large-Cap Value	TGDFX	FOUSA05B8A
TCW Relative Value Dividend Apprec N	Large-Cap Value	TGIGX	FOUSA00BVA
Fidelity® SAI Long-Term Treasury Bd Idx	Long Bond	FBLTX	F00000W4CG
Delaware Tax-Free Oregon A	Long Muni	FTORX	FOUSA00E2Y
Delaware Tax-Free Oregon Instl	Long Muni	FTOTX	F00000PIKU
MFS AR Municipal Bond A	Long Muni	MFARX	FOUSA00DPD
MFS AR Municipal Bond I	Long Muni	MARLX	F00000WZ9C
MFS WV Municipal Bond A	Long Muni	MFVVX	FOUSA00DPP
MFS WV Municipal Bond I	Long Muni	MWVIX	F00000WZ9B
Putnam CA Tax Exempt Income A	Long Muni	PCTEX	FOUSA00E00
Putnam CA Tax Exempt Income Y	Long Muni	PCIYX	FOUSA06O6K
Putnam MA Tax Exempt Income A	Long Muni	PXMAX	FOUSA00EQ6
Putnam MA Tax Exempt Income Y	Long Muni	PMAYX	FOUSA06O6L
Putnam OH Tax Exempt Income A	Long Muni	PXOHX	FOUSA00EQ7

Putnam OH Tax Exempt Income Y	Long Muni	POTYX	FOUSA0606Q
Ave Maria Value	Mid-Cap Core	AVEMX	FOUSA02T06
Fidelity® Select Brokerage & Invmt Mgmt	Mid-Cap Core	FSLBX	FOUSA00CIE
Jnl/Mellon Capital S&P 400 Midcap Idx A	Mid-Cap Core	46648M631	FVUSA04AIR
Jnl/Mellon Capital S&P 400 Midcap Idx I	Mid-Cap Core	46648M623	FVUSA04AXO
Black Oak Emerging Technology	Mid-Cap Growth	BOGSX	FOUSA00LIX
Sit Mid Cap Growth	Mid-Cap Growth	NBNGX	FOUSA00E59
Fuller & Thaler Behav Md-Cp Val Instl	Mid-Cap Value	FTVSX	F00000ZLC4
Fuller & Thaler Behav Md-Cp Val Investor	Mid-Cap Value	FTVNX	F00000ZLC5
PGIM Jennison Utility A	Mid-Cap Value	PRUAX	FOUSA00EMT
PGIM Jennison Utility R6	Mid-Cap Value	PRUQX	F00000ZTQ5
PGIM Jennison Utility Z	Mid-Cap Value	PRUZX	FOUSA00KDM
Recurrent MLP & Infrastructure Class I	Mid-Cap Value	RMLPX	F00000ZDRY
Neuberger Berman Real Estate A *	REITs	NREAX	F00000H3SH
Neuberger Berman Real Estate I *	REITs	NBRIX	FOUSA05GWC
Neuberger Berman Real Estate Tr *	REITs	NBREFX	FOUSA02URZ
Fidelity® Shrt-Term Trs Bd Index	Short Bond	FUMBX	F00000ZCYA
Payden Low Duration Fund	Short Bond	PYSBX	FOUSA00DA2
AB Intermediate New York Municipal A	Short Muni	ANIAX	FOUSA02UHY
AB Intermediate New York Municipal Adv	Short Muni	ANIYX	F00000VPD7
DWS Short Term Municipal Bond A	Short Muni	SRMAX	FOUSA02W32
DWS Short Term Municipal Bond Inst	Short Muni	MGSMX	FOUSA00BRV
DWS Short Term Municipal Bond S	Short Muni	SRMSX	FOUSA05BHV
Franklin Federal Lmted-Term T/F Inc A1	Short Muni	FFTFX	FOUSA057KO
Franklin Federal Lmted-Term T/F Inc Adv	Short Muni	FTFZX	F00000LMHH
Jnl/Mellon Capital Small Cap Index A	Small-Cap Core	46648M615	FVUSA04AIV
Royce Premier Instl *	Small-Cap Core	RPFIX	FOUSA02VUU
Royce Premier Invmt *	Small-Cap Core	RYPRX	FOUSA00DZI
Royce Premier Service *	Small-Cap Core	RPFIX	FOUSA02VSA
Schwab Small-Cap Equity	Small-Cap Core	SWSCX	FOUSA04B17
American Beacon Stephens Sm Cp Gr Inv	Small-Cap Growth	STSGX	FOUSA05GFX
American Beacon Stephens Sm Cp Gr R5	Small-Cap Growth	STSIX	FOUSA05J8F

American Beacon Stephens Sm Cp Gr Y	Small-Cap Growth	SPWYX	F00000NDB2
AQR Small Cap Momentum Style I	Small-Cap Growth	ASMOX	F000002M68
AQR Small Cap Momentum Style N	Small-Cap Growth	ASMNX	F00000OTS6
Carillon Scout Small Cap I	Small-Cap Growth	UMBHX	FOUSA00FKF
Fuller & Thaler Behavioral Sm-Cp Gr Inv	Small-Cap Growth	FTXNX	F00000ZLDG
Fuller & Thaler Behavioral Sm-Cp GrInstl	Small-Cap Growth	FTXSX	F00000ZLDI
Oberweis Small-Cap Opportunities	Small-Cap Growth	OBSOX	FOUSA00KT0
Royce Premier W *	Small-Cap Growth	RPRWX	FOUSA05C0P
Saratoga Small Capitalization A	Small-Cap Growth	SSCYX	FOUSA05GS3
Saratoga Small Capitalization I	Small-Cap Growth	SSCPX	FOUSA00D1U
Foundry Partners Fdmtl Sm Cp Val Instl	Small-Cap Value	DRISX	FOUSA06MT1
Foundry Partners Fdmtl Sm Cp Val Inv	Small-Cap Value	DRSVX	FOUSA05GLJ

\* Approved-Qualitative product

## Mutual Funds Removed from the Approved List

Mutual Fund Name	Style	Ticker	SecID
Neuberger Berman Strategic Income A *	Alternative Fixed Income	NSTAX	FOUSA06N5B
Neuberger Berman Strategic Income I *	Alternative Fixed Income	NSTLX	FOUSA05HD8
Catalyst/CIFC Floating Rate Income A	Bank Loan	CFRAX	F00000P04M
Catalyst/CIFC Floating Rate Income I	Bank Loan	CFRIX	F00000P04O
Eaton Vance Floating-Rate Advantage A	Bank Loan	EAFAX	FOUSA06KW3
Eaton Vance Floating-Rate Advantage Adv	Bank Loan	EVFAX	FOUSA06KW2
Eaton Vance Floating-Rate Advantage I	Bank Loan	EIFAX	FOUSA06KW6
Invesco Oppenheimer International Gr A	Foreign Large Cap Growth	OIGAX	FOUSA00KH0
Invesco Oppenheimer International Gr R	Foreign Large Cap Growth	OIGNX	FOUSA02T2Y
Invesco Oppenheimer International Gr R6	Foreign Large Cap Growth	OIGIX	F00000NQI4
Invesco Oppenheimer International Gr Y	Foreign Large Cap Growth	OIGYX	FOUSA05GRJ
William Blair International Ldrs I	Foreign Large Cap Growth	WILIX	F00000ODNB
William Blair International Ldrs R6	Foreign Large Cap Growth	WILJX	F00000ODNC
Virtus NFJ International Value R6	Foreign Large Cap Value	ANAVX	F00000QKLD
AMG TimesSquare International SmallCap I *	Foreign Small Mid Cap Growth	TQTIX	F00000YDG7
AMG TimesSquare International SmallCap N *	Foreign Small Mid Cap Growth	TCMPX	F00000P103
AMG TimesSquare International SmallCap Z *	Foreign Small Mid Cap Growth	TCMIX	F00000P102
Artisan Global Opportunities Advisor	Global Equity	APDRX	F00000SRWQ
Artisan Global Opportunities Instl	Global Equity	APHRX	F00000MPIS
Artisan Global Opportunities Inv	Global Equity	ARTRX	FOUSA06UQV
Sit ESG Growth I	Global Equity	IESGX	F00000X1C1
Sit ESG Growth S	Global Equity	SESGX	F00000X1C2
T. Rowe Price Global Growth Stock	Global Equity	RPGEX	FOUSA07WT7
T. Rowe Price Global Growth Stock Adv	Global Equity	PAGLX	FOUSA07WT8
T. Rowe Price Global Growth Stock I	Global Equity	RGGIX	F00000YM01
Catalyst/SMH High Income A	High Yield	HIIFX	FOUSA06R8D
Catalyst/SMH High Income I	High Yield	HIIX	F00000PVZS
Victory High Yield A	High Yield	GUHYX	FOUSA00JG5
Victory High Yield Y	High Yield	RSYYX	F000002R8H

Fidelity® Series Infl-Prtct Bd Idx	Inflation-Protected Bond	FSIPX	F000002YIQ
T. Rowe Price Inflation Protected Bd	Inflation-Protected Bond	PRIPX	FOUSA02VQF
T. Rowe Price Inflation Protected Bond I	Inflation-Protected Bond	TIIPX	F00000WMWZ
iShares US Aggregate Bond Index Instl	Intermediate Bond	BMOIX	F00000LXVI
iShares US Aggregate Bond Index Inv A	Intermediate Bond	BMOAX	F00000LXVH
iShares US Aggregate Bond Index K	Intermediate Bond	WFBIX	FOUSA00B54
JPMorgan US Aggregate Bond ETF *	Intermediate Bond	BBAG	F0000118ZF
MassMutual Core Bond A	Intermediate Bond	MMCBX	FOUSA00HIO
MassMutual Core Bond I	Intermediate Bond	MCZZX	F00000JUFG
Virtus Newfleet Core Plus Bond R6	Intermediate Bond	VBFRX	F00000Y4E0
Federated Hermes International Equity R6	Int'l Developed Mkts	PEIRX	F0000100XO
JPMorgan International Equity A	Int'l Developed Mkts	JSEAX	FOUSA02VLF
JPMorgan International Equity I	Int'l Developed Mkts	VSIEX	FOUSA00J3P
Goldman Sachs Emerging Markets Eq A	Int'l Emerging Mkts	GEMAX	FOUSA00K7H
Goldman Sachs Emerging Markets Eq Instl	Int'l Emerging Mkts	GEMIX	FOUSA00GNY
Goldman Sachs Emerging Markets Eq Inv	Int'l Emerging Mkts	GIRMX	F00000J3J9
Pear Tree Axiom Emerging Mkts Wld Eq Ins	Int'l Emerging Mkts	QEMAX	FOUSA00BBP
Pear Tree Axiom Emerging Mkts Wld Eq Ord	Int'l Emerging Mkts	QFFOX	FOUSA00CVL
Pear Tree Axiom Emerging Mkts Wld Eq R6	Int'l Emerging Mkts	QFFRX	F00000Y8DJ
Voya Emerging Markets Index P2	Int'l Emerging Mkts	VPEPX	F00000YJEM
Voya Emerging Markets Index Port I	Int'l Emerging Mkts	IEPIX	F00000N2IQ
Voya Emerging Markets Index Port S	Int'l Emerging Mkts	IEPSX	F00000N2IR
TIAA-CREF Growth & Income Advisor	Large-Cap Core	TGIHX	F00000W9TB
TIAA-CREF Growth & Income Instl	Large-Cap Core	TIGRX	FOUSA02VH2
TIAA-CREF Growth & Income Premier	Large-Cap Core	TRPGX	F000003V00
TIAA-CREF Growth & Income Retail	Large-Cap Core	TIIRX	FOUSA05HAH
TIAA-CREF Growth & Income Retire	Large-Cap Core	TRGIX	FOUSA04AP1
Monetta Young Investor Growth	Large-Cap Growth	MYIFX	FOUSA05XP0
State Street Instl Premier Growth Eq Inv	Large-Cap Growth	SSPGX	FOUSA00ILZ
State Street Instl Premier Growth Eq Svc	Large-Cap Growth	SSPSX	FOUSA00IHF
American Century Discplnd Cor Val A	Large-Cap Value	AMADX	FOUSA00HTE
American Century Discplnd Cor Val I	Large-Cap Value	AMGIX	FOUSA00KC7

American Century Disclnd Cor Val Inv	Large-Cap Value	BIGRX	FOUSA00BE9
Davenport Value & Income	Large-Cap Value	DVIPX	F00000JTPV
Delaware Ivy Value A	Large-Cap Value	IYVAX	FOUSA00ELI
Delaware Ivy Value I	Large-Cap Value	IYAIX	FOUSA06BJT
Delaware Ivy Value R6	Large-Cap Value	IVALX	F00000U1F5
Delaware Ivy Value Y	Large-Cap Value	IYVYX	FOUSA04BGR
Lord Abbett Affiliated A	Large-Cap Value	LAFFX	FOUSA00B28
Lord Abbett Affiliated F	Large-Cap Value	LAAFX	FOUSA06KXL
Lord Abbett Affiliated I	Large-Cap Value	LAFYX	FOUSA00IBU
T. Rowe Price Value	Large-Cap Value	TRVLX	FOUSA00B10
T. Rowe Price Value Adv	Large-Cap Value	PAVLX	FOUSA00L3V
T. Rowe Price Value I	Large-Cap Value	TRPIX	F00000VWN2
Virtus NFJ Large-Cap Value A	Large-Cap Value	PNBAX	FOUSA02VAU
Virtus NFJ Large-Cap Value Fund Inst	Large-Cap Value	ANVIX	FOUSA00L7N
Virtus NFJ Large-Cap Value P	Large-Cap Value	ALCPX	FOUSA06V9L
T. Rowe Price US Trs Long-Term Idx I	Long Bond	PRUUX	F00000YWTR
T. Rowe Price US Trs Long-Term Idx Z	Long Bond	TRZUX	F000014VHK
Thrivent Municipal Bond S	Long Muni	TMBIX	FOUSA00G65
13D Activist A	Mid-Cap Core	DDDAX	F00000H35Y
13D Activist I	Mid-Cap Core	DDDIX	F00000H35W
Government Street Opportunities	Mid-Cap Core	GVMCX	FOUSA05BDZ
SEI Mid-Cap F (SIMT)	Mid-Cap Core	SEMCX	FOUSA00B70
SEI Mid-Cap Y (SIMT)	Mid-Cap Core	SFDYX	F00000U3WD
Marsico Midcap Growth Focus Fund	Mid-Cap Growth	MXXIX	FOUSA00G0F
Marsico Midcap Growth Focus Fund;Institutional	Mid-Cap Growth	MIDFX	F00001CMDK
AAM/Phocas Real Estate A	REITs	APRAX	F000010IS3
AAM/Phocas Real Estate I	REITs	APRIX	FOUSA05KKV
Schwab Fundamental Global Real Estt Idx	REITs	SFREX	F00000TP34
Caval Hill Limited Duration A	Short Bond	AASTX	F00000LZOY
Caval Hill Limited Duration Instl	Short Bond	AISTX	FOUSA05GKY
Caval Hill Limited Duration Investor	Short Bond	APSTX	FOUSA00BB2
Delaware Limited-Term Diversified Inc A	Short Bond	DTRIX	FOUSA00C1N

Delaware Limited-Term Diversified Inc I	Short Bond	DTINX	FOUSA00BBH
Fidelity® Series Treasury Bill Index	Short Bond	FHQFX	F000010M52
Oakhurst Short Duration Bond	Short Bond	FWSBX	F00000PHW1
Eaton Vance National Ltd Mat Muni Inc A	Short Muni	EXNAX	FOUSA00I8B
Eaton Vance National Ltd Mat Muni Inc I	Short Muni	EINAX	FOUSA00005
MFS Municipal Limited Maturity R6	Short Muni	MTLRX	F00000ZFKB
BNY Mellon Select Managers Sm Cp Val A	Small-Cap Core	DMVAX	FOUSA088CN
BNY Mellon Select Managers Sm Cp Val I	Small-Cap Core	DMVIX	FOUSA088CP
BNY Mellon Select Managers Sm Cp Val Y	Small-Cap Core	DMVYX	F00000Q2W1
Madison Small Cap Fund I *	Small-Cap Core	MSCIX	F000016L34
Madison Small Cap Y *	Small-Cap Core	BVAOX	FOUSA00J9S
T. Rowe Price Small-Cap Value	Small-Cap Core	PRSVX	FOUSA00EKG
T. Rowe Price Small-Cap Value Adv	Small-Cap Core	PASVX	FOUSA00H10
T. Rowe Price Small-Cap Value I	Small-Cap Core	PRVIX	F00000VWN1
Artisan Small Cap Institutional	Small-Cap Growth	APHSX	F0000002ZK
Lisanti Small Cap Growth	Small-Cap Growth	ASCGX	FOUSA057CV
Wasatch Micro Cap	Small-Cap Growth	WMICX	FOUSA00FLQ
Wasatch Micro Cap Institutional	Small-Cap Growth	WGICX	F000014IXV

**\* Approved-Qualitative product, dropped to Available**

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## Overview

Below is a list of Active and Passive ETFs that have either been added to or removed from the Approved List effective April 3<sup>rd</sup>, 2023. PMC's quantitative analysis is based on data for the period ending December 31<sup>st</sup>, 2022.

### ETFs Added to the Approved List

ETF Name	Style	Ticker	SecID
Invesco Growth Multi-Asset Allc ETF	Balanced	PSMG	F00000Y8GN
SPDR® SSgA Global Allocation ETF	Balanced	GAL	F00000MBNR
ABERDEEN PHYSICAL SWISS GOLD ETF	Commodity	SGOL	F00000412U
abrdn Blmb AllcCmdStrK1Fr ETF	Commodity	BCI	F00000Y5ZP
Global X Uranium ETF	Commodity	URA	F00000HH7X
SPDR® Gold MiniShares	Commodity	GLDM	F000010PZ8
SPDR® Blmbg Barclays Em Mkts Lcl Bd ETF	Emerging Markets Bond	EBND	F00000LKUY
FlexShares Mstar DevMks exUS FctTilt ETF	Foreign Large Cap Value	TLTD	F00000MFKC
IQ 500 International ETF	Foreign Large Cap Value	IQIN	F0000109A7
iShares Edge MSCI Intl Value Factor ETF	Foreign Large Cap Value	IVLU	F00000VIWQ
Pacer Global Cash Cows Dividend ETF	Global Equity	GCOW	F00000WCRE
SPDR® Global Dow ETF	Global Equity	DGT	FEUSA0002E
iShares BB Rated Corporate Bond ETF	High Yield	HYBB	F000010RTM
VictoryShares USAA Core Intmdt-TermBd ETF	Intermediate Bond	UITB	F00000Z74J
Hartford Municipal Opportunities ETF	Intermediate Muni	HMOP	F00000Z5LY
IQ MacKay Municipal Intermediate ETF	Intermediate Muni	MMIT	F00000YLZS
iShares Core MSCI Intl Dev Mkts ETF	Int'l Developed Mkts	IDEV	F00000YBTL
WisdomTree Emerging Mkts Qual Div Gr ETF	Int'l Emerging Mkts	DGRE	F00000PV9L
iShares Russell 3000	Large-Cap Core	IWV	FEUSA00014
iShares S&P 100	Large-Cap Core	OEF	FEUSA0002J
SPDR® Port S&P 1500 Comps Stk Mkt ETF	Large-Cap Core	SPTM	FEUSA0002H
First Trust NASDAQ® Cln Edge®StGidIfsETF	Large-Cap Growth	GRID	F0000040LU
BRANDYWINEGLBL DYN US LRG CAP VL ETF	Large-Cap Value	DVAL	F00001DDPD
iShares US Healthcare Providers	Large-Cap Value	IHF	FEUSA04AFE
Grayscale Bitcoin Trust	Leveraged	GBTC	F00000XOBX



Vanguard Long-Term Corporate Bd ETF	Long Bond	VCLT	F000003Z3S
IQ MacKay Municipal Insured ETF	Long Muni	MMIN	F00000YLZR
VanEck Intermediate Muni ETF	Long Muni	ITM	FOUSA06MKC
SPDR® Portfolio S&P 400 Mid Cap ETF	Mid-Cap Core	SPMD	FEUSA04AE7
iShares Morningstar Mid-Cap Growth ETF	Mid-Cap Growth	IMCG	FEUSA04ACR
iShares US Oil Equipment & Services ETF	Mid-Cap Growth	IEZ	FEUSA04AFC
Alerian Energy Infrastructure ETF	Mid-Cap Value	ENFR	F00000Q9WN
First Trust Cnsmr Staples AlphaDEX® ETF	Mid-Cap Value	FXG	FOUSA06GID
Global X MLP & Energy Infrastructure ETF	Mid-Cap Value	MLPX	F00000PAX8
Global X MLP ETF	Mid-Cap Value	MLPA	F00000MDEO
iShares S&P Mid-Cap 400 Value ETF	Mid-Cap Value	IJJ	FEUSA0000J
Invesco Treasury Collateral ETF	Short Bond	CLTL	F00000XE99
Invesco Variable Rate Preferred ETF	Short Bond	VRP	F00000SIWE
ISHARES 0 TO 3 MNTH TREASURY BND ETF	Short Bond	SGOV	F0000150N8
iShares Ultra Short-Term Bond ETF	Short Bond	ICSH	F00000PI3E
Natixis Loomis Sayles Shrt Dur Inc ETF	Short Bond	LSST	F00000ZLDF
Principal Spectrum Pref Secs Actv ETF	Short Bond	PREF	F00000X9S8
VictoryShares USAA Core S/T Bd ETF	Short Bond	USTB	F00000Z74G
SPDR® Portfolio S&P 600 Sm Cap ETF	Small-Cap Core	SPSM	F00000PTNZ
SPDR® S&P Oil & Gas Equipment&Svcs ETF	Small-Cap Core	XES	FEUSA04AG7
SPDR® S&P Transportation ETF	Small-Cap Core	XTN	FEUSA04AHH
Invesco S&P SmallCap Health Care ETF	Small-Cap Growth	PSCH	F0000050GV

## ETFs Removed from the Approved List

ETF Name	Style	Ticker	SecID
Global X Lithium & Battery Tech ETF	Commodity	LIT	F00000HH7Z
Invesco DB Agriculture Fund	Commodity	DBA	FOUSA069V4
Invesco DB Oil Fund	Commodity	DBO	FOUSA069V0
iShares MSCI Intl Small-Cap Mltfct ETF *	Foreign Small Mid Cap Core	ISCF	F00000VB53
iShares MSCI Global Multifactor ETF	Global Equity	ACWF	F00000V7L9
Invesco BulletShares 2022 HY Corp Bd ETF	High Yield	BSJM	F00000TU9J
Ishares Tr Intrm Tr Crp Etf	Intermediate Bond	IGIB	FOUSA069WY
iShares MSCI Emerging Mkts Mltfctr ETF *	Int'l Emerging Mkts	EMGF	F00000VB50
Eaton Vance Stock NextShares	Large-Cap Core	EVSTC	F00000U1UP
Invesco National AMT-Free Muni Bd ETF	Long Muni	PZA	FOUSA06LRT
SPDR® Gold MiniShares	Mid-Cap Core	FXH	FOUSA06GIG
iShares US Utilities	Mid-Cap Value	IDU	FEUSA0000Z
iShares MSCI USA Small-Cap Mltfctr ETF *	Small-Cap Core	SMLF	F00000V7LB

\* Approved-Qualitative product, dropped to Available

## Overview

Below is a list of Strategic Beta ETFs that have either been added to or removed from the Approved List effective April 3<sup>rd</sup>, 2023. PMC's quantitative analysis is based on data for the period ending December 31<sup>st</sup>, 2022.

### Strategic Beta ETFs Added to the Approved List

ETF Name	Style	Ticker	SecID	Designation
Vanguard Intl Div Apprec ETF	Foreign Large Cap Growth	VIGI	F00000WC5P	Dividend Screened/Weighted
iShares MSCI Intl Small-Cap Mlftct ETF	Foreign Small Mid Cap Core	ISCF	F00000VB53	Quality
Schwab Fundamental Intl Sm Co ETF	Foreign Small Mid Cap Value	FNDC	F00000PNZQ	Fundamentals Weighted
SPDR® Gold MiniShares	Global Equity	DEW	FEUSA04AFP	Dividend Screened/Weighted
Fidelity® Momentum Factor ETF	Large-Cap Growth	FDMO	F00000X9NP	Momentum
Invesco S&P 500® Momentum ETF	Large-Cap Growth	SPMO	F00000VR1Y	Momentum
Invesco S&P SmallCap Low Volatility ETF	Small-Cap Core	XSLV	F00000LI6X	Low/High Beta;Low/Minimum Volatility/Variance

### Strategic Beta ETFs Removed from the Approved List

ETF Name	Style	Ticker	SecID	Designation
SPDR® Gold MiniShares	Global Equity	ACWF	F00000V7L9	
SPDR® S&P Global Dividend ETF	Global Equity	WDIV	F00000PKT4	
Schwab Fundamental Emerg Mkts Lg Co ETF	Int'l Emerging Mkts	FNDE	F00000PNZR	

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