

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Sustainable U.S. Large Cap Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Sustainable U.S. Large Cap Equity Index would be if the Goldman Sachs ActiveBeta® Paris-Aligned Sustainable U.S. Large Cap Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Sustainable U.S. Large Cap Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

**Goldman Sachs ActiveBeta® Paris-Aligned Sustainable U.S. Large Cap Equity Index Hypothetical Weights for 11/12/2024**

Name	Weight
3M COMPANY	0.000999
ABBOTT LABORATORIES	0.003448
ABBVIE INC	0.009737
ACCENTURE PLC-CL A	0.003864
ADOBE INC	0.006717
ADVANCED MICRO DEVICES	0.003956
AFLAC INC	0.001498
AGILENT TECHNOLOGIES INC	0.000662
AIRBNB INC	0.000199
AKAMAII TECHNOLOGIES INC	0.001565
ALEXANDRIA REAL ESTATE EQUITIES	0.000945
ALIGN TECHNOLOGY INC	0.000879
ALLSTATE CORP	0.001305
ALNYLAM PHARMACEUTICALS INC	0.000456
AMERICAN EXPRESS CO	0.005568
AMERICAN INTERNATIONAL GROUP INC	0.002496
AMERICAN TOWER CORP	0.000661
AMERIPRISE FINL	0.006247
AMETEK INC	0.001196
AMGEN INC	0.001463
AMPHENOL CORP NEW CL A	0.003285
ANALOG DEVICES INC	0.001329
ANSYS INC	0.000199
AON PLC	0.001635
APOLLO GLOBAL MANAGEMENT INC	0.003661
APPLIED MATERIALS INC	0.005440
APPLOVIN CORP	0.001251
ARCH CAPITAL GROUP LTD	0.001718
ARCHER-DANIELS-MIDLAND CO	0.002245
ARES MANAGEMENT CORP	0.000530
ARISTA NETWORKS INC	0.002601
ARTHUR J GALLAGHER & CO	0.001495
AT&T	0.005400
ATLIASSIAN CORPORATION PLC	0.003421
AUTODESK INC	0.001724
AUTOMATIC DATA PROCESSING	0.001184
AUTOZONE INC	0.001725
AVALONBAY COMMUNITIES INC	0.001672
AVANTOR INC	0.001239
AVERY DENNISON CORP	0.002387
AXON ENTERPRISE INC	0.001195
BANK OF AMERICA CORP	0.006681
BANK OF NEW YORK MELLON CORP	0.005637
BAXTER INTL.	0.000226
BECTON DICKINSON AND CO	0.001274
BEST BUY CO INC	0.002016
BIOGEN INC	0.001675
BLACKROCK FINANCE INC	0.002363
BLACKSTONE INC	0.001422
BOOKING HOLDINGS INC	0.006926
BOSTON SCIENTIFIC CORP	0.003702
BRISTOL-MYERS SQUIBB CO	0.003396
BROADCOM INC	0.021340
BROADRIDGE FINL SOLUTIONS I COM	0.001707
BROWN & BROWN INC	0.002173
BUILDERS FIRSTSOURCE INC	0.004358
BURLINGTON STORES INC	0.000217
CADENCE DESIGN SYSTEMS INC	0.001685
CAPITAL ONE FINL.	0.002985
CARDINAL HEALTH INC	0.000200
CARLISLE COS INC	0.001326
CARNIVAL CORP	0.002050
CARVANA CO	0.000838
CBOE GLOBAL MARKETS INC	0.001472
CBRE GROUP INC	0.000335
CDW CORP/DE	0.001108
CELANESE CORP	0.002330
CENCORA INC	0.003942
CENTENE CORP	0.001300
CHARTER COMMUNICATIONS INC	0.000837
CHIPOTLE MEXICAN GRILL INC	0.000918
CHUBB LTD	0.003923
CHURCH & DWIGHT CO INC	0.002408
CINCINNATI FINANCIAL CORP	0.002398

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Name	Weight
CINTAS CORP	0.003735
CISCO SYSTEMS INC	0.003988
CITIGROUP INC	0.003844
CITIZENS FINANCIAL GROUP INC	0.000606
CLOROX COMPANY	0.002603
CME GROUP INC	0.001590
COCA-COLA CO/THE	0.006440
COGNIZANT TECHNOLOGY SOLUTIONS C	0.001321
COINBASE GLOBAL INC -CLASS A	0.000468
COLGATE-PALMOLIVE CO	0.007503
COMCAST CORP-CLASS A	0.002640
CONAGRA BRANDS INC	0.002872
CONSTELLATION BRANDS INC CL A	0.000842
COOPER COMPANIES INC	0.000695
COPART INC	0.000190
CORNING INC	0.000970
CORPAY INC	0.000633
CORTEVA INC	0.001013
CRH PLC	0.001050
CROWDSTRIKE HOLDINGS INC	0.001011
CSX CORP	0.001590
CVS HEALTH CORP	0.002525
D R HORTON INC	0.000746
DANAHER CORP	0.002512
DARDEN RESTAURANTS INC	0.000851
DECKERS OUTDOOR CORP	0.003067
DEERE & CO	0.000977
DELL TECHNOLOGIES INC - C	0.001683
DEXCOM INC	0.000329
DIGITAL REALTY TRUST INC	0.001132
DISCOVER FINANCIAL SERVICES	0.002849
DOLLAR GENERAL CORP	0.001625
DOLLAR TREE	0.000923
DOMINOS PIZZA INC	0.003066
DOORDASH INC	0.000528
DOVER CORP	0.001265
DOW INC	0.000566
DUPONT DE NEMOURS INC	0.000193
EBAY INC	0.001287
ECOLAB INC	0.001765
EDISON INTERNATIONAL	0.001056
EDWARDS LIFESCIENCES CORP	0.000864
ELECTRONIC ARTS INC	0.002174
ELEVANCE HEALTH INC	0.001019
ELI LILLY & CO	0.020633
EMCOR GROUP INC	0.003510
ENTEGRIS INC	0.000173
EQUIFAX INC	0.000330
EQUINIX INC	0.000200
EQUITY RESIDENTIAL	0.001434
ESSEX PROPERTY TRUST INC	0.001325
ESTEE LAUDER COMPANIES INC	0.001060
EVEREST GROUP LTD	0.001280
EXPEDIA GROUP INC	0.001166
EXPEDITORS INTL WASH INC	0.001681
EXTRA SPACE STORAGE INC	0.000212
FACTSET RESEARCH SYSTEMS INC	0.001294
FAIR ISAAC CORP	0.005791
FASTENAL CO	0.004757
FEDEX CORP	0.001318
FERGUSON PLC	0.000776
FIDELITY NATIONAL FINANCIAL INC	0.000401
FIDELITY NATIONAL INFORMATION SE	0.000873
FIFTH THIRD BANCORP	0.000814
FIRST CITIZENS BANCSHARES INC/NC	0.000624
FISERV INC	0.003138
FORD MOTOR CO	0.002128
FORTINET INC	0.001615
GARMIN LTD	0.000754
GARTNER INC	0.001538
GE HEALTHCARE TECHNOLOGIES INC	0.000537
GEN DIGITAL INC	0.001188
GENERAL ELECTRIC CO	0.003554
GENERAL MILLS INC	0.000986

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Name	Weight
GENERAL MOTORS CO	0.000654
GENUINE PARTS CO	0.000208
GILEAD SCIENCES INC	0.002115
GLOBAL PAYMENTS INC	0.000889
GODADDY INC	0.002309
GRACO	0.002258
GUIDEWIRE SOFTWARE INC	0.000519
HARTFORD FINANCIAL SERVICES GROU	0.003600
HCA HEALTHCARE INC	0.001414
HERSHEY CO/THE	0.000444
HEWLETT PACKARD ENTERPRISE COMPA	0.003158
HILTON WORLDWIDE HOLDINGS INC	0.002484
HOLOGIC INC	0.003331
HOME DEPOT INC	0.010382
HOWMET AEROSPACE INC	0.001419
HP INC	0.000671
HUBBELL INC -CL B	0.000304
HUBSPOT INC	0.002537
HUNTINGTON BANCSHARES INC/OH	0.000662
IDEX CORP	0.002099
IDEXX LABORATORIES INC	0.004586
ILLINOIS TOOL WORKS	0.002776
ILLUMINA INC	0.000912
INSULET CORP	0.001401
INTEL CORP	0.001043
INTERACTIVE BROKERS GROUP INC	0.000542
INTERCONTINENTAL EXCHANGE INC	0.003022
INTERNATIONAL BUSINESS MACHINES	0.004764
INTL FLAVORS & FRAGRANCES	0.000938
INTUIT COM	0.003486
INTUITIVE SURGICAL INC	0.004045
INVITATION HOMES INC	0.001058
IQVIA HOLDINGS INC	0.001605
IRON MTN INC	0.002460
JABIL INC	0.001696
JACK HENRY & ASSOCIATES INC	0.001841
JOHNSON & JOHNSON	0.011346
JOHNSON CONTROLS INTERNATIONAL P	0.000606
JPMORGAN CHASE & CO	0.019361
KELLANOVA	0.000558
KEURIG DR PEPPER INC	0.001085
KEYCORP	0.000200
KEYSIGHT TECHNOLOGIES INC	0.001187
KIMBERLY-CLARK CORP	0.002440
KIMCO REALTY CORP	0.000143
KKR & CO INC	0.001975
KLA CORP	0.002972
KRAFT HEINZ CO/THE	0.001499
LABCORP HOLDINGS INC	0.001566
LAM RESEARCH CORP	0.003236
LAS VEGAS SANDS CORP	0.000146
LENNAR CORP	0.002625
LINDE PLC	0.003588
LIVE NATION ENTERTAINMENT IN	0.000212
LOWES COS INC	0.003902
LPL FINANCIAL HOLDINGS INC	0.001245
M & T BANK CORP	0.000835
MANHATTAN ASSOCIATES INC	0.004131
MARKEL GROUP INC	0.001367
MARRIOTT INTERNATIONAL -CL A	0.000929
MARSH & MCLENNAN COS	0.004508
MARTIN MARIETTA MATERIALS	0.000335
MARVELL TECHNOLOGY INC	0.000147
MASCO CORP	0.002545
MASTERCARD INC-CLASS A	0.015307
MCCORMICK & CO-NON VTG SHRS	0.000100
MCKESSON CORP	0.002697
MEDTRONIC PLC	0.001645
MERCK & CO. INC.	0.007625
META PLATFORMS INC	0.040098
METLIFE INC	0.001140
METTLER-TOLEDO INTL	0.004159
MICROCHIP TECHNOLOGY INC	0.001079
MICRON TECHNOLOGY INC	0.001987

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Name	Weight
MID-AMERICA APARTMENT COMM	0.001192
MONDELEZ INTERNATIONAL INC	0.001235
MONOLITHIC POWER SYSTEMS INC	0.000482
MONSTER BEVERAGE CORP	0.000802
MOODYS CORP	0.004760
MORGAN STANLEY	0.003770
MOTOROLA SOLUTIONS INC	0.004875
NASDAQ INC	0.000973
NETAPP INC	0.001913
NETFLIX INC	0.006132
NIKE INC	0.002415
NORDSON CORP	0.001602
NORTHERN TRUST CORP	0.002819
NUCOR CORP	0.001865
NUTANIX INC	0.004727
NVIDIA CORP	0.107008
NVR INC	0.001445
O REILLY AUTOMOTIVE INC	0.002164
OLD DOMINION FREIGHT LINE INC	0.000131
OMNICOM GROUP	0.002141
ON SEMICONDUCTOR CORPORATION	0.000780
ORACLE CORP	0.003954
OTIS WORLDWIDE CORP	0.002573
OWENS CORNING INC	0.002163
PACCAR INC	0.000505
PALANTIR TECHNOLOGIES INC	0.000296
PALO ALTO NETWORKS INC	0.001935
PARKER HANNIFIN CORP	0.000813
PAYCHEX INC	0.000375
PAYPAL HOLDINGS INC.	0.001715
PENTAIR PLC	0.000315
PEPSICO INC	0.005182
PFIZER INC	0.000668
PINTEREST INC	0.003515
PNC FINANCIAL SERVICES GROUP	0.001182
POOL CORP	0.000116
PPG INDUSTRIES INC	0.001641
PRINCIPAL FINANCIAL GROUP INC	0.001662
PROCTER & GAMBLE CO	0.011451
PROGRESSIVE CORP	0.003158
PROLOGIS INC	0.001248
PRUDENTIAL FINANCIAL INC	0.002266
PTC INC	0.002281
PUBLIC STORAGE	0.000811
PULTE GROUP INC	0.001626
PURE STORAGE INC - CLASS A	0.003170
QUALCOMM INC	0.007301
QUEST DIAGNOSTICS INC	0.002724
RAYMOND JAMES FINL.	0.001671
REALTY INCOME CORP	0.000784
REGENERON PHARMACEUTICALS	0.002973
REGIONS FINANCIAL CORP	0.000476
RELIANCE STEEL & ALUMINUM	0.001594
REPUBLIC SERVICES INC	0.003169
RESMED INC	0.000597
REVVITY INC	0.000553
ROLLINS INC	0.001562
ROPER TECHNOLOGIES INC	0.003430
ROSS STORES	0.000925
ROYAL CARIBBEAN CRUISES LTD	0.000966
RPM INTERNATIONAL INC	0.002456
S&P GLOBAL INC	0.002194
SALESFORCE INC	0.007159
SCHWAB (CHARLES) CORP	0.000450
SEAGATE TECHNOLOGY PLC	0.000904
SERVICENOW INC	0.003816
SHERWIN-WILLIAMS CO	0.002095
SIMON PROPERTY GROUP INC	0.001628
SKYWORKS SOLUTIONS INC	0.002152
SNAP-ON INC	0.002049
SS&C TECHNOLOGIES HOLDINGS INC	0.003385
STANLEY BLACK & DECKER	0.000346
STATE STREET CORP	0.002918
STERIS PLC	0.001238

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Name	Weight
STRYKER CORP	0.002539
SUN COMMUNITIES INC	0.001413
SUPER MICRO COMPUTER INC	0.000120
SYNCHRONY FINANCIAL	0.003686
SYNOPSYS INC	0.000873
SYSCO CORP	0.004103
T ROWE PRICE GROUP INC	0.001854
T-MOBILE US INC	0.004527
TAKE-TWO INTERACTIVE SOFTWARE IN	0.000200
TARGET CORP	0.003627
TE CONNECTIVITY LTD	0.000667
TELEDYNE TECHNOLOGIES INC	0.001708
TERADYNE INC	0.000604
TEXAS INSTRUMENTS INC	0.003809
THE CIGNA GROUP	0.003138
THERMO FISHER SCIENTIFIC INC	0.004345
TJX COMPANIES INC	0.005536
TOLL BROTHERS INC	0.000606
TRACTOR SUPPLY COMPANY	0.000611
TRADE DESK INC/THE -CLASS A	0.000200
TRADEWEB MARKETS INC	0.000224
TRANSUNION	0.000586
TRAVELERS COS INC/THE	0.002160
TRIMBLE INC	0.001514
TRUIST FINANCIAL CORP	0.000320
TYLER TECHNOLOGIES INC	0.000106
TYSON FOODS INC	0.000307
UBER TECHNOLOGIES INC	0.003638
ULTA BEAUTY INC	0.003778
UNION PACIFIC CORP	0.000541
UNITED AIRLINES HOLDINGS INC	0.000225
UNITED RENTALS INC	0.000300
UNITEDHEALTH GROUP INC	0.012525
US BANCORP	0.000754
VENTAS INC	0.000775
VERALTO CORP	0.002140
VERISIGN INC	0.005870
VERISK ANALYTICS INC	0.001231
VERIZON COMMUNICATIONS INC	0.004434
VERTEX PHARMACEUTICALS INC	0.002376
VERTIV HOLDINGS CO	0.001803
VIATRIS INC	0.003348
VICI PROPERTIES INC	0.001280
VISA INC-CLASS A SHARES	0.014587
VULCAN MATERIALS CO	0.000302
WALMART INC	0.013822
WALT DISNEY CO/THE	0.002754
WARNER BROS DISCOVERY INC	0.002058
WASTE MANAGEMENT INC	0.001820
WATERS CORP	0.000942
WATSCO INC	0.000845
WELLS FARGO & CO	0.005064
WELLTOWER INC	0.001758
WESTERN DIGITAL CORP	0.000696
WESTINGHOUSE AIR BRAKE TECHNOLOG	0.002935
WEYERHAEUSER CO	0.000213
WILLIAMS-SONOMA INC	0.003438
WILLIS TOWERS WATSON PLC	0.001206
WORKDAY INC	0.000481
WP CAREY & CO LLC	0.001740
WR BERKLEY CORP	0.000660
WW GRAINGER INC	0.006227
YUM! BRANDS	0.002427
ZEBRA TECHNOLOGIES CORP	0.000359
ZIMMER BIOMET HOLDINGS INC	0.001733
ZOETIS INC	0.001468
ZOOM VIDEO COMMUNICATIONS INC	0.002296

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