

## Innovation Meets Sustainability

Nasdaq-100 ESG<sup>™</sup> Index (NDXESG<sup>™</sup>) & Nasdaq Next Generation 100 ESG<sup>™</sup> Index (NGXESG<sup>™</sup>) June 2024 Reconstitution

## NDXESG / NGXESG Index Objectives

- Reduce the degree to which the portfolio's economic value is at risk because of Environmental, Social, and Governance (ESG) factors, or more technically, aim to significantly improve the portfolio's Sustainalytics ESG Risk Rating Score;
- Exclude enterprises that create reputational risks or violate fundamental values;
- Eliminate business exposures that are off-limit for most ESG-conscious investors and
- Aim to deliver similar performance to the Nasdaq-100® (NDX®)/ Nasdaq Next Generation 100<sup>™</sup> Index (NGX<sup>™</sup>) (very low tracking error).

## NDXESG / NGXESG Index Mechanics

- At all times, the Nasdaq-100 ESG Index (NDXESG) / Nasdaq Next Generation 100 ESG Index (NGXESG) consists of a selection of securities in the Nasdaq-100 / Nasdaq Next Generation 100 Index.
- The Nasdaq-100 and Nasdaq Next Generation 100 Indexes are reconstituted annually in December.
- The ESG characteristics of the underlying issuers are re-evaluated each quarter (March, June, September, and December). Hence, there is an NDXESG / NGXESG reconstitution and rebalancing each quarter.
- Securities removed from the Nasdaq-100 / Nasdaq Next Generation 100 Index outside of a reconstitution are removed from the Nasdaq-100 ESG Index / Nasdaq Next Generation 100 ESG Index and are not replaced.

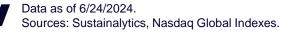
## NDXESG / NGXESG Weighting Scheme

- The Nasdaq-100 ESG Index / Nasdaq Next Generation 100 ESG Index are modified market capitalization-weighted indexes that consider a company's ESG Risk Rating Score as an adjustment factor.
- Two factors play into the index weight of an issuer:
  - The Nasdaq-100 / Nasdaq Next Generation 100 Market Value, and
  - The ESG Risk Rating Score.
- In general, for each issuer:
  - Everything else equal, the higher the weight in the Nasdaq-100 and/or the better the ESG Risk Rating Score, the higher the weight in the NDXESG Index, and vice versa. Same for Nasdaq Next Generation 100 and NGXESG.

## June 2024 Reconstitution NDXESG ESG Exclusions: 8

Symbol	Company Name	ICB Industry	Nasdaq-100 ESG: Reason(s) for Exclusion	Nasdaq-100® Weight (%)
HON	Honeywell International	Industrials	Revenue from military contracting weapons. Involvement in Controversial Weapons: Tailor- made and essential.	0.94
ADI	Analog Devices	Technology	Revenue from military contracting weapon- related products and/or services.	0.77
CEG	Constellation Energy	Utilities	Revenue from nuclear production and oil & gas generation.	0.46
AEP	American Electric Power	Utilities	Revenue from thermal coal power generation, nuclear production, and oil & gas generation.	0.31

Symbol	Company Name	ICB Industry	Nasdaq-100 ESG: Reason(s) for Exclusion	Nasdaq-100® Weight (%)
FANG	Diamondback Energy	Energy	Revenue from oil & gas production. Involvement in shale energy extraction and/or production.	0.23
BKR	Baker Hughes	Energy	Revenue from oil & gas supporting products/services.	0.22
XEL	Xcel Energy	Utilities	Revenue from thermal coal power generation, nuclear production, oil & gas production, and oil & gas generation.	0.20
ARM	Arm Holdings	Technology	ESG Risk Rating Score Unavailable	0.13



Symbol	Company Name	ICB Industry	Nasdaq Next Generation 100 ESG: Reason(s) for Exclusion	Nasdaq Next Generation 100 <sup>™</sup> Weight (%)
AXON	Axon Enterprise	Industrials	Manufacture riot control protection equipment and riot control weapons.	1.51
DKNG	DraftKings	Consumer Discretionary	Revenue from gambling operations.	1.37
CASY	Casey's General Stores	Consumer Staples	Revenue from tobacco products – retail.	0.95
LNT	Alliant Energy	Utilities	Revenue from oil & gas generation and thermal coal power generation.	0.90

Symbol	Company Name	ICB Industry	Nasdaq Next Generation 100 ESG: Reason(s) for Exclusion	Nasdaq Next Generation 100 <sup>™</sup> Weight (%)
BIDU	Baidu	Technology	Global Standards Screening non-compliance.	0.86
EVRG	Evergy	Utilities	Revenue from nuclear production and thermal coal power generation.	0.83
WWD	Woodward	Industrials	Revenue from military contracting weapon-related products and/or services, and oil & gas supporting products/services.	0.77
СНК	Chesapeake Energy	Energy	Revenue from oil & gas production. Involvement in shale energy extraction and/or production.	0.74

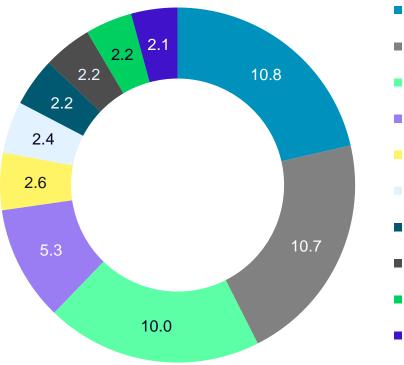
Symbol	Company Name	ICB Industry	Nasdaq Next Generation 100 ESG: Reason(s) for Exclusion	Nasdaq Next Generation 100™ Weight (%)
APA	APA	Energy	ESG Risk Rating Score is greater than 40. Revenue from oil & gas production. Involvement in shale energy extraction and/or production.	0.72
CHDN	Churchill Downs	Consumer Discretionary	Revenue from gambling operations.	0.70
WYNN	Wynn Resorts	Consumer Discretionary	Revenue from gambling operations.	0.69
CZR	Caesars Entertainment	Consumer Discretionary	Revenue from gambling operations.	0.58

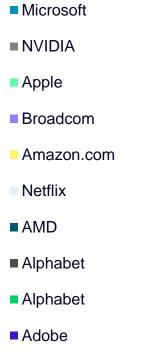
Symbol	Company Name	ICB Industry	Nasdaq Next Generation 100 ESG: Reason(s) for Exclusion	Nasdaq Next Generation 100™ Weight (%)
LLYVK	Liberty Media	Consumer Discretionary	ESG Risk Rating Score has not yet been determined.	0.16



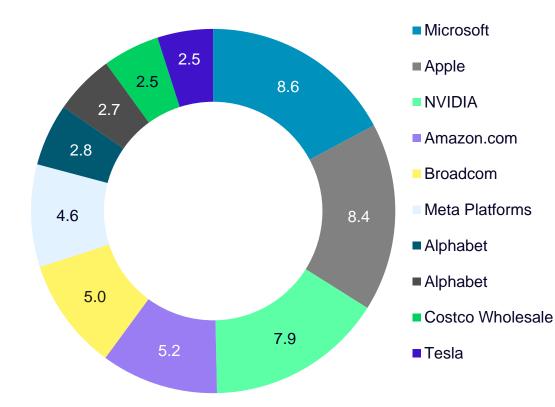
## Top 10 Constituents by Index Weight (%)

NDXESG Top 10 Weight = 50.6%

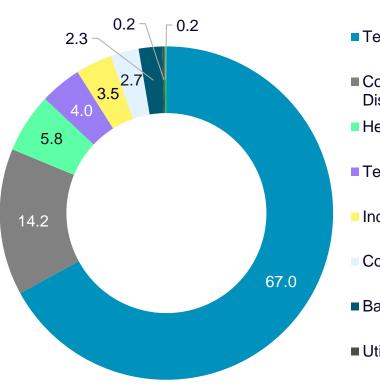




NDX Top 10 Weight = 50.2%



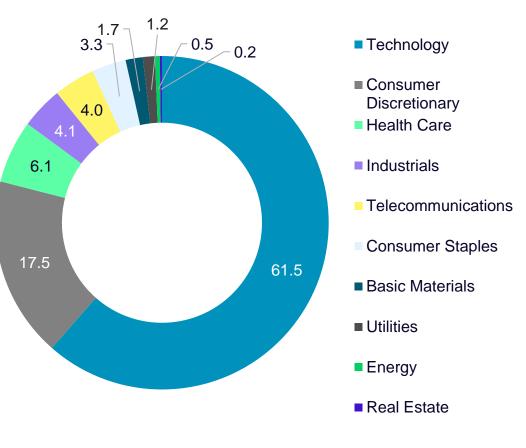
## Sector Exposure by Index Weight (%)



### NDXESG Index Weight by ICB Industry

- Technology
- Consumer Discretionary
- Health Care
- Telecommunications
- Industrials
- Consumer Staples
- Basic Materials
- Utilities
- Real Estate



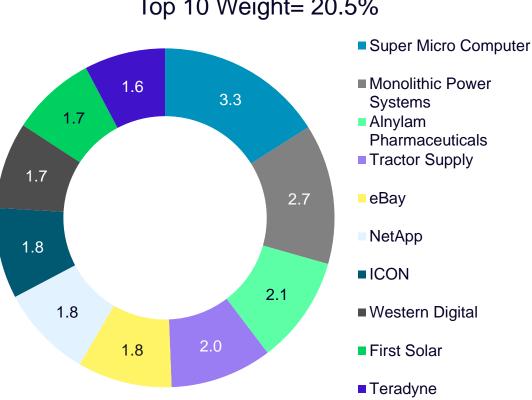


## Top 10 Constituents by Index Weight (%)



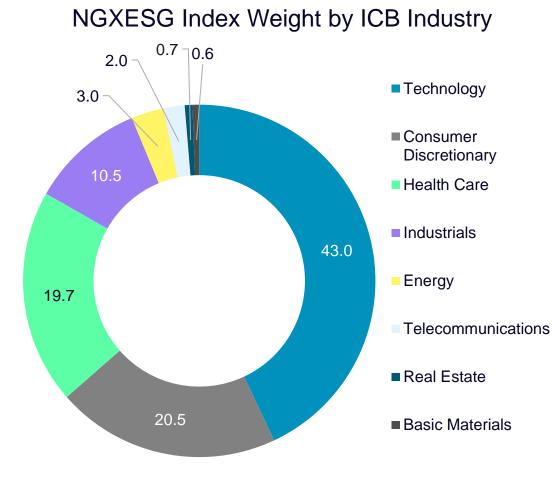
Super Micro Computer

- Monolithic Power Systems
- Tractor Supply
- Western Digital
- NetApp
- Seagate Technology Holdings
- First Solar
- Teradyne

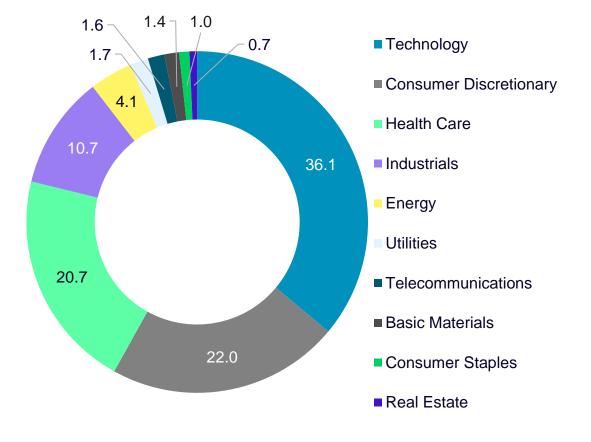


NGX Top 10 Weight= 20.5%

## Sector Exposure by Index Weight (%)



### NGX Index Weight by ICB Industry



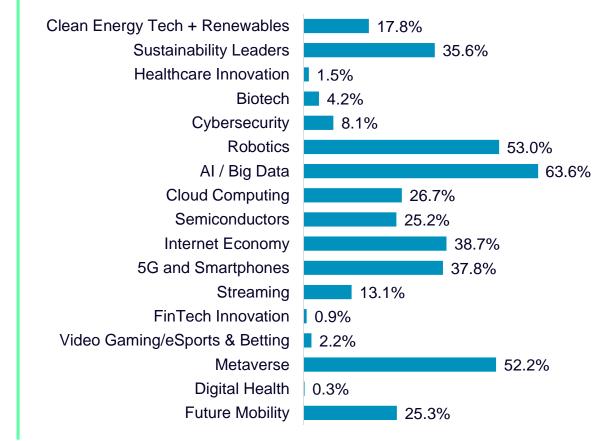
Data as of EOD 6/28/2024. Source: Nasdaq Global Indexes

## Thematic Exposure: Nasdaq-100

#### Clean Energy Tech + Renewables 12 Sustainability Leaders 37 Healthcare Innovation Biotech 9 Cybersecurity 6 Robotics 22 AI / Big Data 32 **Cloud Computing** 15 Semiconductors 17 Internet Economy 13 5G and Smartphones 16 Streaming 7 FinTech Innovation 3 Video Gaming/eSports & Betting 3 Metaverse 18 Digital Health 1 **Future Mobility** 8

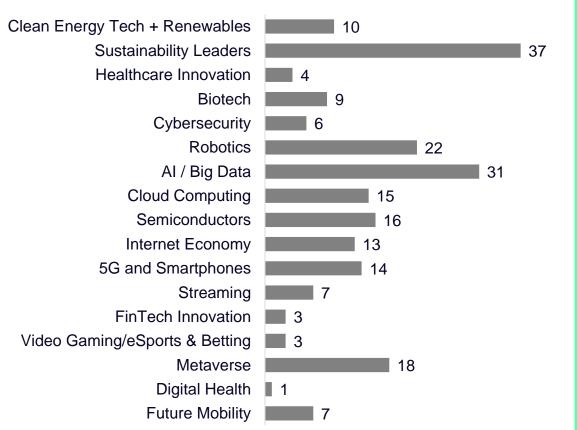
# of Constituents per Theme

### Index Weight per Theme

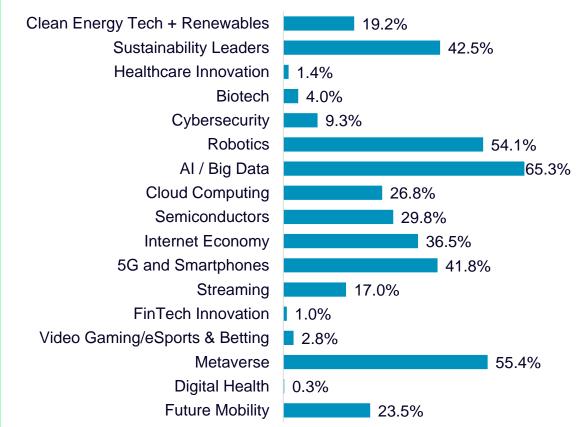


Source: Nasdaq, FactSet. Data as of 6/28/2024.

## Thematic Exposure: Nasdaq-100 ESG



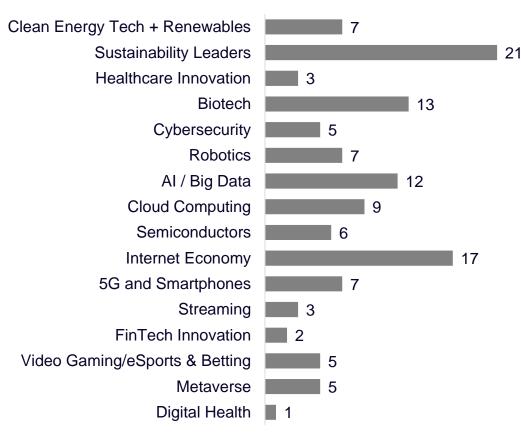
### # of Constituents per Theme



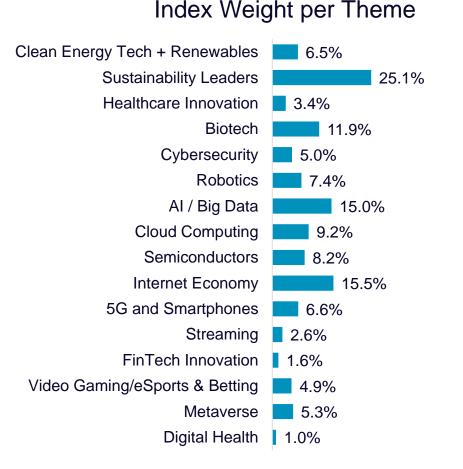
#### Index Weight per Theme

Source: Nasdaq, FactSet. Data as of 6/28/2024.

## Thematic Exposure: Nasdaq Next Generation 100



### # of Constituents per Theme



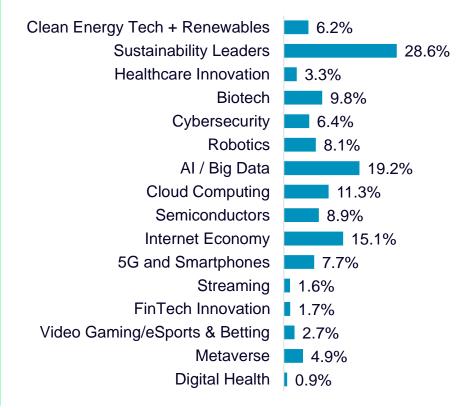
#### Source: Nasdaq, FactSet. Data as of 6/28/2024.

# Thematic Exposure: Nasdaq Next Generation 100 ESG

Clean Energy Tech + Renewables 6 Sustainability Leaders 21 Healthcare Innovation 3 Biotech 13 Cybersecurity 5 Robotics 6 AI / Big Data 12 **Cloud Computing** 9 Semiconductors 6 Internet Economy 15 5G and Smartphones 7 Streaming 2 FinTech Innovation 2 Video Gaming/eSports & Betting 2 Metaverse 4 Digital Health

# of Constituents per Theme

### Index Weight per Theme



Source: Nasdaq, FactSet. Data as of 6/28/2024.

## Top 10 Largest Overweights: NDXESG vs. NDX

Symbol	Company Name	ICB Industry	Nasdaq-100 ESG Weight (%)	Nasdaq-100 Weight (%)	Weight Difference (%)
NVDA	NVIDIA	Technology	10.7	7.9	2.8
MSFT	Microsoft	Technology	10.8	8.6	2.2
AAPL	Apple	Technology	10.0	8.4	1.6
LIN	Linde	Basic Materials	2.1	1.4	0.7
AMAT	Applied Materials	Technology	1.8	1.3	0.5
CSCO	Cisco Systems	Telecommunications	1.8	1.3	0.5
AMD	AMD	Technology	2.2	1.8	0.5
ADBE	Adobe	Technology	2.1	1.7	0.5
NFLX	Netflix	Consumer Discretionary	2.4	2.0	0.4
QCOM	QUALCOMM	Technology	1.9	1.5	0.4

## Top 10 Largest Underweights: NDXESG vs. NDX

Symbol	Company Name	ICB Industry	Nasdaq-100 ESG Weight (%)	Nasdaq-100 Weight (%)	Weight Difference (%)
META	Meta Platforms	Technology	1.4	4.6	-3.2
AMZN	Amazon.com	Consumer Discretionary	2.6	5.2	-2.6
COST	Costco Wholesale	Consumer Discretionary	1.7	2.5	-0.8
TSLA	Tesla	Consumer Discretionary	1.9	2.5	-0.6
GOOGL	Alphabet	Technology	2.2	2.8	-0.5
GOOG	Alphabet	Technology	2.2	2.7	-0.5
TMUS	T-Mobile US	Telecommunications	1.1	1.4	-0.3
PDD	PDD Holdings	Technology	0.3	0.6	-0.3
MNST	Monster Beverage	Consumer Staples	0.1	0.3	-0.2
AMGN	Amgen	Health Care	0.9	1.1	-0.2

## Top 10 Largest Overweights: NGXESG vs. NGX

Symbol	Company Name	ICB Industry	NGXESG Weight (%)	NGX Weight (%)	Weight Difference (%)
WDC	Western Digital	Technology	2.6	1.7	0.9
TSCO	Tractor Supply	Consumer Discretionary	2.7	2.0	0.8
STX	Seagate Technology Holdings	Technology	2.2	1.5	0.7
ZBRA	Zebra Technologies	Industrials	1.7	1.1	0.6
LOGI	Logitech International	Technology	1.6	1.0	0.6
NTAP	NetApp	Technology	2.4	1.8	0.6
FLEX	Flex Ltd	Technology	1.3	0.8	0.5
TRMB	Trimble	Industrials	1.5	0.9	0.5
POOL	Pool	Consumer Discretionary	1.3	0.8	0.5
JBHT	JB Hunt Transport Svcs	Industrials	1.6	1.1	0.4

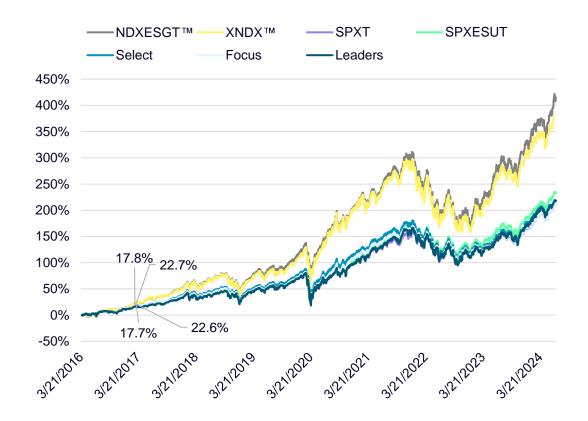
## Top 10 Largest Underweights: NGXESG vs. NGX

Symbol	Company Name	ICB Industry	NGXESG Weight (%)	NGX Weight (%)	Weight Difference (%)
ALNY	Alnylam Pharmaceuticals	Health Care	1.3	2.1	-0.8
STLD	Steel Dynamics	Basic Materials	0.6	1.4	-0.8
UAL	United Airlines Holdings	Consumer Discretionary	0.5	1.1	-0.6
RIVN	Rivian Automotive	Consumer Discretionary	0.4	0.9	-0.5
RPRX	Royalty Pharma	Health Care	0.5	0.8	-0.3
VTRS	Viatris	Health Care	0.6	0.9	-0.3
ARGX	argenx	Health Care	0.7	0.9	-0.2
SWKS	Skyworks Solutions	Technology	1.0	1.2	-0.2
JD	JD.com	Consumer Discretionary	0.7	0.8	-0.2
HOLX	Hologic	Health Care	1.0	1.2	-0.2

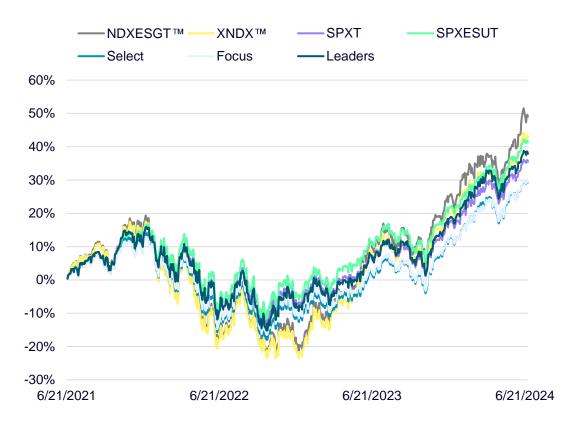


## Performance – NDXESG vs. NDX

## Since Beginning of NDXESG Backtest 3/21/2016 – 6/28/2024



### Since NDXESG Inception 6/21/2021 – 6/28/2024



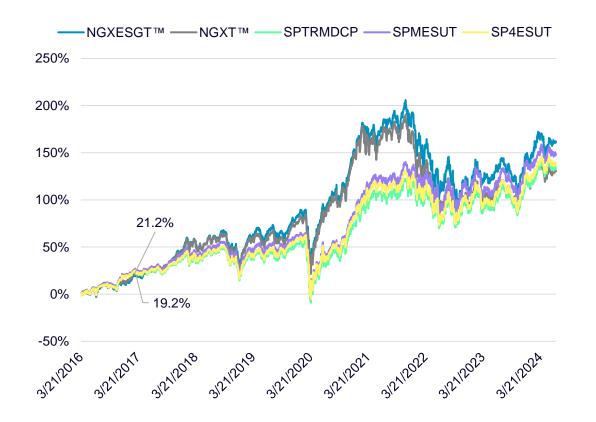
\*XNDX: Nasdaq-100® Total Return<sup>™</sup>; NDXESGT: Nasdaq-100 ESG Total Return<sup>™</sup>; SPXESUT: S&P 500 ESG Index TR; SPXT: S&P 500 TR; Select: MSCI USA ESG Universal Sel Business Screens TR; ; Focus: MSCI USA Extended ESG Focus TR; Leaders: MSCI USA Extended ESG Leaders TR

Total Return Data\* as of 6/28/2024. Source: Nasdaq Global Indexes, FactSet, Bloomberg.



## Performance – NGXESG vs. NGX

## Since Beginning of NGXESG Backtest 3/21/2016 – 6/28/2024



Total Return Data\* as of 6/28/2024. Source: Nasdaq Global Indexes, FactSet, Bloomberg..

### Since NGXESG Inception 7/22/2021 – 6/28/2024



\*NGXT: Nasdaq Next Generation 100 Total Return<sup>™</sup>; NGXESGT: Nasdaq Next Generation 100 ESG Total Return<sup>™</sup>; SP4ESUT: S&P Sustainability Screened TR; SPTRMDCP: S&P MidCap 400 TR ; SPMESUT: S&P MidCap 400 ESG TR



## ESG Comparisons – NDXESG vs. NDX

Index Name	Benchmark	# of Securities	% Exclusion from the	Sustainalytics ESG Risk Rating Score	
	Denominark		Benchmark	Weighted Average	Simple Average
Nasdaq-100 Index®		102	n/a	19.3	19.2
Nasdaq-100 ESG™ Index	Nasdaq-100®	94	8%	17.4	18.8
MSCI USA Index		600	n/a	20.5	20.7
MSCI USA Extended ESG Focus Index	MSCI USA	278	54%	19.6	19.5
MSCI USA Extended ESG Leaders Index	MSCI USA	299	50%	18.0	19.0
MSCI USA ESG Universal Select Business Screens Index	MSCI USA	560	7%	19.1	20.2
S&P 500 Index		503	n/a	20.5	20.5
S&P 500 ESG Index	S&P 500	320	36%	19.1	19.6

## ESG Comparisons – NGXESG vs. NGX

Index Name	Benchmark	# of Securities	% Exclusion	Sustainalytics ESG Risk Rating Score	
Index Name	Index	# Or Securities	from the Benchmark	Weighted Average	Simple Average
Nasdaq Next Generation 100™ Index		103		19.6	19.8
Nasdaq Next Generation ESG 100™ Index	Nasdaq Next Generation 100™	90	13%	17.2	18.7
S&P MidCap 400 Index		398		22.1	22.2
S&P MidCap 400 Sustainability Screened Index	S&P MidCap 400	367	8%	21.6	21.6
S&P MidCap 400 ESG Index	S&P MidCap 400	283	29%	21.1	21.2

RESOURCES

## RESOURCES Nasdaq-100 ESG Index (NDXESG)

- Overview
  - <u>https://indexes.nasdaqomx.com/Index/Overview/NDXESG</u>
- Methodology
  - https://indexes.nasdaqomx.com/docs/methodology\_NDXESG.pdf
- Research
  - https://indexes.nasdaqomx.com/docs/NDXESG\_Research.pdf
- Fact Sheet
  - https://indexes.nasdaqomx.com/docs/FS\_NDXESGT.pdf
- Carbon Credit Report
  - NDXESG: <u>https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NDXESG.pdf</u>
  - NDX: <a href="https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20">https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20</a>—%20NDX.pdf

### RESOURCES

## Nasdaq Next Generation 100 ESG Index (NGXESG)

- Overview
  - <u>https://indexes.nasdaqomx.com/Index/Overview/NGXESG</u>
- Methodology
  - https://indexes.nasdaqomx.com/docs/methodology\_NGXESG.pdf
- Research
  - https://indexes.nasdaqomx.com/docs/NGXESG\_Research.pdf
- Fact Sheet
  - https://indexes.nasdaqomx.com/docs/FS\_NGXESGT.pdf
- Carbon Credit Report
  - NGXESG: <u>https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NGXESG.pdf</u>
  - NGX: <a href="https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NGX.pdf">https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NGX.pdf</a>

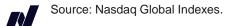


### APPENDIX NDXESG / NGXESG Exclusions Based on ESG Risk

Companies with a "Severe" ESG Risk Rating Score are automatically disqualified from inclusion.

• A rating of greater than 40 is considered "Severe"; 30-40 is considered "High"; 20-30 is "Medium"; 10-20 is "Low"; and 0-10 is "Negligible".

Exclude any company that has not been researched yet.

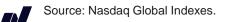


# NDXESG / NGXESG Exclusions Based on ESG Risk – continued

- Exclude any company that has a Controversy Rating equal to 5:
  - The Controversy Rating reflects:
    - Incidents with negative Environmental, Social, and Governance (ESG) implications.
    - A company's level of involvement in and how it manages these issues.
  - Categorical scores are on a scale of 1 to 5.

# NDXESG / NGXESG Exclusions Based on International Norms

- A company must not violate the United Nations Global Compact and related international norms and standards, such as the Organization for Economic Cooperation and Development (OECD) Guidelines and United Nations (UN) Guiding Principles.
  - 10 principles around human rights, labor, environment, and anti-corruption.
  - <u>https://www.unglobalcompact.org/what-is-gc/mission/principles</u>
- Securities are excluded from NDXESG/NGXESG that are classified as non-compliant.
  - Each company in the index is therefore classified as either compliant or on the watch list with the UN Global Compact framework for following international norms.



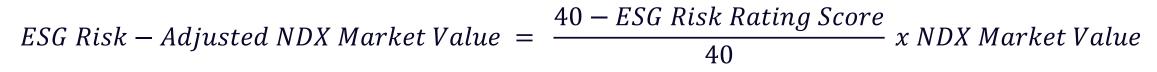
## NDXESG / NGXESG Exclusions Based on Business Involvements

**Business Involvements Considered\*:** 

- 1. Energy (Arctic Oil & Gas; Nuclear Power; Oil & Gas; Oil Sands; Shale Energy; Thermal Coal)
- 2. Health & Life (Alcohol; Recreational Cannabis; Tobacco)
- 3. Defense & Military (Controversial weapons; Military Contracting; Riot Control; Small Arms)
- 4. Values-Based (Adult Entertainment; Gambling)



### APPENDIX NDXESG / NGXESG Weighting Scheme



- Initial security weights are calculated by dividing a security's ESG Risk-Adjusted NDX Market Value by the sum of the ESG Risk-Adjusted NDX Market Values of all Index Securities.
- Afterwards, the same four-stage weight adjustment process as exists for NDX at its annual reconstitution is applied to produce final weights on a quarterly basis for NDXESG.
- (All the above applies for NGX and NGXESG, as well.)

### APPENDIX NDXESG / NGXESG Weighting Scheme – continued

For Illustrative Purposes Only.

The information included on this slide is not based on actual data.

Security	Parent Index	ESG Risk	(40-ESG	ESG Adjusted	Weight in	Weight in	ESG
	Market Value	Rating	Risk	Market Value	ESG	Parent	Excess
		Score	Rating		Index	Index	Weight
			Score)/40		(before		
					capping)		
Company A	157,440,900.96	9.669091	0.76	119,383,139.64	5%	2%	3%
Company B	408,425,550.79	10.14988	0.75	304,788,747.93	12%	5%	7%
Company C	466,765,510.49	10.33926	0.74	346,115,277.80	14%	6%	8%
Company D	337,399,212.20	10.56613	0.74	248,274,134.49	10%	4%	6%
Company E	36,052,270.56	12.02819	0.70	25,211,182.25	1%	0%	1%
Company F	590,398,129.57	16.18527	0.60	351,504,303.67	14%	7%	7%
Company G	268,545,835.16	19.19268	0.52	139,692,956.82	6%	3%	2%
Company H	311,917,708.29	20.84302	0.48	149,385,045.36	6%	4%	2%
Company I	547,470,308.53	22.79236	0.43	235,516,830.87	10%	7%	3%
Company J	24,733,442.74	24.69826	0.38	9,461,619.64	0%	0%	0%
Company K	435,838,825.61	27.38121	0.32	137,493,977.85	6%	5%	0%
Company L	118,577,295.32	27.73561	0.31	36,356,957.07	1%	1%	0%
Company M	307,719,744.86	28.36004	0.29	89,546,103.32	4%	4%	0%
Company N	441,090,355.41	33.1488	0.17	75,549,938.88	3%	6%	-2%
Company O	834,726,757.15	35.35263	0.12	96,982,201.14	4%	10%	-7%
Company P	550,834,597.82	37.24048	0.07	38,001,025.35	2%	7%	-5%
Company Q	269,359,777.85	37.4192	0.06	17,379,073.33	1%	3%	-3%
Company R	844,981,656.98	38.72938	0.03	26,841,302.95	1%	11%	-10%
Company S	359,845,558.64	39.02818	0.02	8,742,612.50	0%	5%	-4%
Company T	646,652,051.08	39.70698	0.01	4,736,994.67	0%	8%	-8%

Source: Nasdaq Global Indexes.

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