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Innovation Meets Sustainability:

Nasdaq-100 ESG IndexTM

June 2022

Index Objectives

- Reduce the degree to which the portfolio's economic value is at risk because of ESG factors, or more technically, aim to significantly improve the portfolio's ESG 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 with very low tracking error to the Nasdaq-100[®] (NDX[™]).

Index Mechanics

- The Nasdaq-100 ESG Index at all times consists of a selection of securities in the Nasdaq-100 Index.
- The Nasdaq-100 Index is reconstituted annually in December.
- The ESG characteristics of the underlying issuers are re-evaluated each quarter (March, June, September, December). Hence, there is a reconstitution and a rebalancing *each quarter*.
- Securities removed from the Nasdaq-100 Index outside of a reconstitution are removed from the Nasdaq-100 ESG Index (NDXESG[™]) and are not replaced.

Weighting Scheme

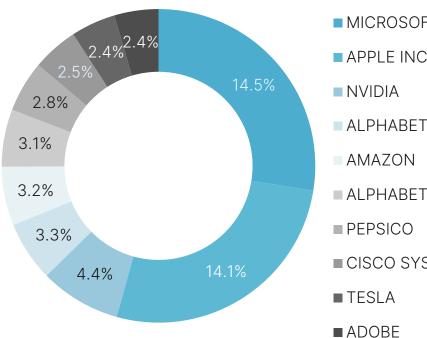
- The Nasdaq-100 ESG Index is a modified market capitalization-weighted index that considers a company's ESG Risk Rating Score as an adjustment factor.
- Two factors play into the index weight of an issuer:
 - The Nasdaq-100 Market Value, and
 - The ESG Risk Rating Score.
- In general, for each issuer: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

Exclusions June 2022: NDXESG

Symbol	Nasdaq-100 ESG Reason for Exclusion	Nasdaq-100 Weight (%)	Company Name	ICB Industry
HON	Revenue from military contracting weapons. Provide non-nuclear materials for nuclear weapons and involved in management of labs where nuclear weapons are designed and tested.	1.14%	Honeywell International	Industrials
ADI	Revenue from military contracting weapon-related products and/or services.	0.72%	Analog Devices	Technology
AEP	Revenue from thermal coal power generation, nuclear production, and oil & gas generation.	0.44%	American Electric Power Company	Utilities
EXC	Revenue from nuclear production	0.38%	Exelon	Utilities
XEL	Revenue from thermal coal power generation, nuclear production, oil & gas production, and oil & gas generation.	0.34%	Xcel Energy	Utilities
CEG	ESG Risk Rating Score has not yet been determined.	0.18%	Constellation Energy Corp	Utilities

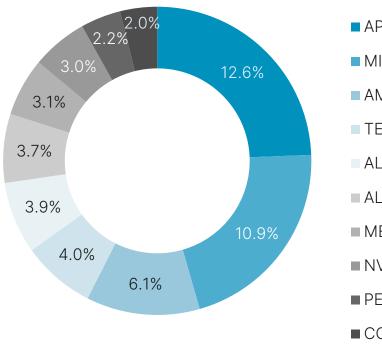
Top 10 Constituents: NDXESG vs NDX

NDXESG: Top 10 Weight = 52.8%



MICROSOFT CORP ■ APPLE INC. ALPHABET CL C AI PHABET CL A ■ CISCO SYSTEMS

NDX: Top 10 Weight = 51.6%



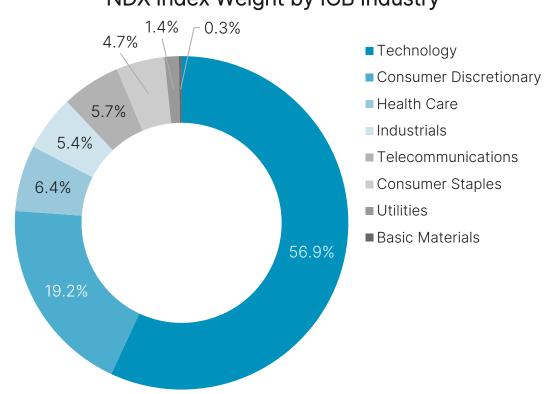
APPI F MICROSOFT AMAZON TELSA ALPHABET CL C ■ ALPHABET CL A ■ META ■ NVIDIA ■ PEPSICO ■ COSTCO

Sector Exposures: NDXESG vs NDX

NDXESG Index Weight by ICB Industry 0.2% 4.7% 4.9% 5.8% 6.0% 14.9% 63.4%

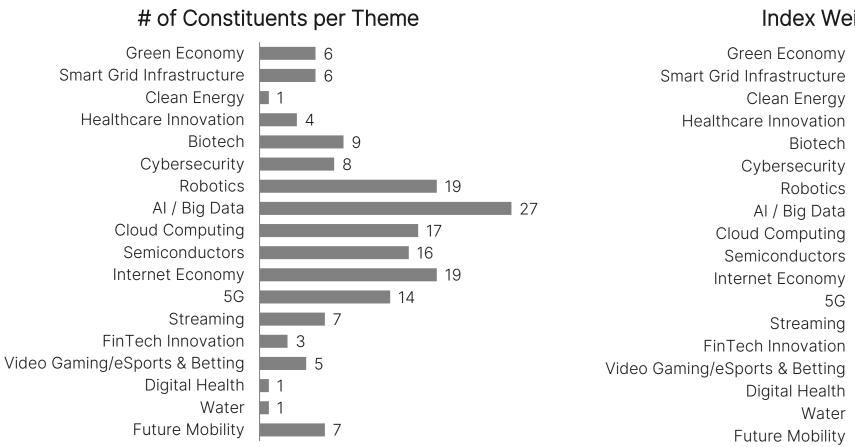
Technology

- Consumer Discretionary
- Health Care
- Telecommunications
- Industrials
- Consumer Staples
- Basic Materials



NDX Index Weight by ICB Industry

Nasdaq-100 by Thematic Exposures



Index Weight per Theme

7.2%

4.0%

5.0%

7.4%

1.6%

0.3%

0.3%

5.3%

3.5%

1.4%

Biotech

Robotics

5G

Streaming

Water

10.9%

14.8%

20.7%

40.0%

32.2%

34.2%

33.2%

Source: Nasdaq, FactSet. Data as of 6/30/2022.

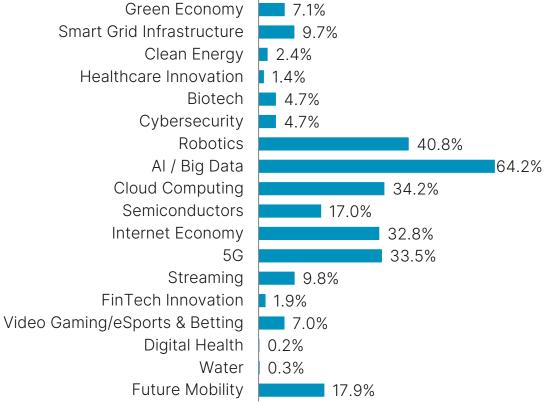
Based on overlap with existing Nasdaq Thematic Indexes, except for 5G, Streaming, and Video Gaming/eSports & Betting where competitor products were analyzed.

61.9%

Nasdaq-100 ESG by Thematic Exposures

of Constituents per Theme Green Economy 6 Smart Grid Infrastructure Δ Clean Energy 1 Healthcare Innovation 4 Biotech 9 Cybersecurity 8 Robotics 19 AI / Big Data 27 Cloud Computing Semiconductors Internet Economy 19 5G 13 Streaming 7 FinTech Innovation 3 Video Gaming/eSports & Betting 5 Digital Health 1 Water 1 Future Mobility

Index Weight per Theme



Source: Nasdaq, FactSet. Data as of 6/30/2022.

Based on overlap with existing Nasdaq Thematic Indexes, except for 5G, Streaming, and Video Gaming/eSports & Betting where competitor products were analyzed.

Top 10 Largest Overweights: NDXESG vs NDX

Symbol	Nasdaq-100 ESG Weight (%)	Nasdaq-100 Weight (%)	Difference Weight (%)	Company Name	ICB Industry
MSFT	14.55	10.92	3.62	Microsoft	Technology
AAPL	14.14	12.58	1.56	Apple	Technology
NVDA	4.42	3.03	1.38	Nvidia	Technology
CSCO	2.51	1.67	0.84	Cisco	Telecommunications
ADBE	2.40	1.63	0.77	Adobe	Technology
PEP	2.79	2.17	0.61	PepsiCo	Consumer Staples
AMAT	1.14	0.75	0.39	Applied Materials	Technology
INTC	1.80	1.44	0.36	Intel	Technology
QCOM	1.69	1.35	0.34	Qualcomm	Technology
ADP	1.15	0.83	0.32	Automatic Data Processing	Industrials

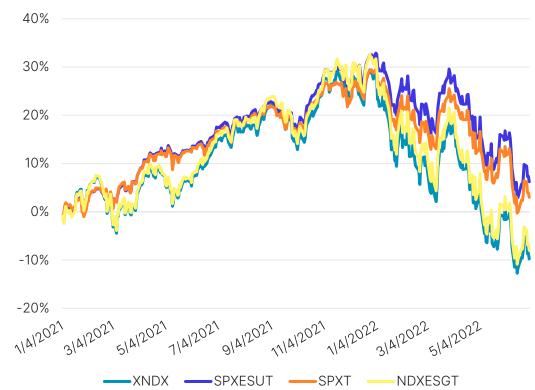


Top 10 Largest Underweights: NDXESG vs NDX

Symbol	Nasdaq-100 ESG Weight (%)	Nasdaq-100 Weight (%)	Difference Weight (%)	Company Name	ICB Industry
AMZN	3.21	6.14	-2.93	Amazon	Consumer Discretionary
META	1.27	3.15	-1.88	Meta	Technology
TSLA	2.43	3.97	-1.54	Tesla	Consumer Discretionary
GOOG	3.27	3.90	-0.63	Alphabet CI C	Technology
GOOGL	3.12	3.73	-0.60	Alphabet CI A	Technology
КНС	0.11	0.44	-0.33	Kraft Heinz	Consumer Staples
COST	1.68	2.00	-0.33	Costco	Consumer Discretionary
CMCSA	1.36	1.65	-0.30	Comcast	Telecommunications
MRNA	0.28	0.54	-0.26	Moderna	Health Care
CHTR			-0.20	Charter Communications	Telecommunications

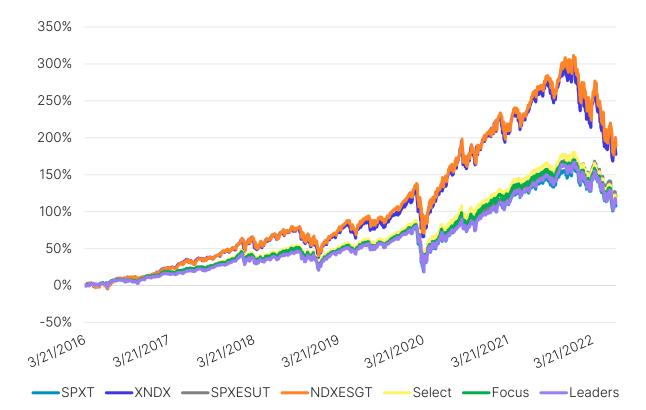
Data as of EOD 6/30/2022. Sources: Nasdaq Global Indexes.

Performance – NDX vs. NDXESG



12/31/2020 - 6/30/2022

Since Beginning of Backtest 3/21/2016 – 6/30/2022



ESG Comparisons – NDX/NDXESG

Index	Benchmark	Number of Securities	% Exclusion from the Benchmark	Weighted Average Sustainalytics ESG Risk Score	Simple Average Sustainalytics ESG Risk Score
MSCI USA Index		625	n/a	21.5	21.8
MSCI USA Extended ESG Focus Index	MSCI USA Index	306	51%	20.7	21.1
MSCI USA Extended ESG Leaders Index	MSCI USA Index	278	55%	19.3	20.1
MSCI USA ESG Universal Select Business Screens Index	MSCI USA Index	573	8%	20.0	21.2
Nasdaq-100 Index		102	n/a	20.4	20.3
Nasdaq-100 ESG Index	Nasdaq-100 Index	96	6%	18.4	20.0
S&P 500 Index		503	n/a	21.4	21.5
S&P 500 ESG Index	S&P 500 Index	306	39%	20.6	20.7

Data as of 6/30/2022 Sources: Sustainalytics, FactSet, Bloomberg, Nasdaq Global Indexes.

RESOURCES

RESOURCES Nasdaq-100 ESG Index

- Overview
 - <u>https://indexes.nasdaqomx.com/Index/Overview/NDXESG</u>
- Methodology
 - <u>https://indexes.nasdaqomx.com/docs/methodology_NDXESG.pdf</u>
- Research
 - https://indexes.nasdaqomx.com/docs/NDXESG_Research.pdf
- Fact Sheet
 - <u>https://indexes.nasdaqomx.com/docs/FS_NDXESGT.pdf</u>
- Carbon Credit Report
 - NDXESG: https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NDXESG.pdf
 - NDX: <u>https://indexes.nasdaqomx.com/docs/Carbon%20Footprint%20Report%20-%20NDX.pdf</u>

Exclusions based on ESG risk

- Companies with a "Severe" ESG Risk Rating 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.

Exclusions based on ESG risk – continued

- Exclude any company that has a controversy score 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.

Exclusions based on international norms

- A company must not violate the United Nations Global Compact:
 - 10 principles around human rights, labor, environment, and anticorruption.
 - https://www.unglobalcompact.org/what-is-gc/mission/principles
- Securities are excluded from NDXESG/NGXESG that are classified as noncompliant.
 - 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.

Exclusions based on business involvements

Business Involvement 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 Weighting scheme – continued

 $ESG Risk - Adjusted NDX Market Value = \frac{40 - ESG Risk Rating Score}{40} \times NDX Market Value$

- 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 Weighting scheme – continued

For Illustrative Purposes Only.

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

Security	Parent Index Market Value	ESG Risk Rating	(40-ESG Risk	ESG Adjusted Market Value	Weight in ESG	Weight in Parent	ESG Excess
	Warket Value	Score	Rating	Warket Value	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%

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