



## Product Coverage ESG Index Derivatives - Futures & Options

March 2024

## **Derivatives on ESG Equity Indices at Eurex**

## Based on Benchmarks from STOXX, MSCI & DAX

			STOXX			
EUF	ко ѕтохх		STOXX	Europe 600		STOXX USA 500
EURO STOXX 50 ESG SX5EESG	EURO STOXX 50 Low Carbon - SX5ELCEP	STOXX EUROPE 600 ESG-X SXXPESGX	STOXX EUROPE Climate Impact SXECITEP	STOXX Europe ESG Leaders Select 30 SEESGSEP	STOXX Europe 600 SRI (Socially Responsible Investing)	STOXX USA 500 ESG-X SU5LESGX
Futures & Options	Futures	Futures & Options	Futures	Futures & Options	Futures	Futures

			MSCI				DAX
MSCI World	MSCI EM	MSCI EAFE	MSCI USA	MSCI Japan	MSCI Europe	MSCI EM Asia	DAX 50
ESG Screened futures - HRLA +	ESG Screened futures - HRRA	ESG Screened futures - HRWA	ESG Screened futures - HRIA +	ESG Screened futures - HRYA	ESG Enhanced Focus - SHSA	Asia ESG Screened futures - MUYA	DAX 50 ESG - DAXESGK
Index Options - NU721415	ESG Enhanced Focus - SHRA		Index Options - NU728007	ESG Enhanced Focus - SHWA	ESG Screened AUEA, MSCI EMU ESG Screened -	ESG Screened Index Options - NU733353	
ESG Enhanced Focus - SJYA	iShares MSCI EM ESG Enh. UCITS Options - EEDM LN		ESG Enhanced Focus - SICA		UMEA iShares MSCI		
iShares MSCI World ESG Enh. UCITS	ESG Screened Index		iShares MSCI USA ESG Enh. UCITS		Europe ESG Enh. UCITS Options -		
Options - EEWD LN MSCI World SRI	Options - NU728007 MSCI EM SRI		Options - EEDS LN MSCI USA SRI		EMNU GY MSCI Europe SRI		
Futures	Futures		Futures		Futures		Futures & Options
Futures, Options on ETFs & Index Options	Futures & Options on ETFs	Futures	Futures, Options on ETFs & Index Options	Futures	Futures & Options on ETFs	Futures	

## **Eurex product coverage**

## ESG index methodologies and principles

Index Composition Approach	Description	EUREX Product Coverage <sup>2</sup> (Bloomberg Prod. Code)
Negative Screening	Excluding companies based on standardized/common exclusions screens such as tobacco, thermal coals, controversial weaponsetc.	STOXX Europe 600 ESG-X futures (FUEA) / options (SXXPESGX) STOXX USA 500 ESG-X futures (QFCA)
Norms-Based Screening	Excluding companies that are not in compliance with the United Nations Global Compact principles	MSCI ESG Screened futures (8 regions)/ options (4 regions) (HRLA, AUEA, UMEA, HRRA, HRWA, HRIA, HRYA, MUYA)
ESG Integration Positive Screening	Incorporating ESG scores to enhance the risk-return profile of a benchmark index Inclusion of companies that show (relatively) the best performance on ESG criteria chosen by the index providers	DAX 50 ESG futures (XSDA) / options (DAXESGK) STOXX Europe ESG Leaders Select 30 futures (AVSA)/ options (SEESGSEP) EURO STOXX 50 ESG futures (XSSA) / options (SX5EESG) STOXX Europe 600 SRI futures (CIEA) MSCI SRI futures (4 regions) (CIWA, CIYA, CISA, CITA ) <u>Bloomberg MSCI Euro Corporate SRI Index</u> fut. (LXYA Index)
Green Bond Investing	Active selection of <b>green bonds</b> according to the criteria set out by MSCI ESG research and Green Bond Principles	Bloomberg MSCI Global Green Bond Index fut. (LXAA Index)
Climate Thematics	Aim at reducing exposures to companies directly involved in fossil value chain or transition risk	EURO STOXX 50 Low Carbon futures (BCYA) STOXX Europe Climate Impact futures <sup>3</sup> (FAEA) MSCI ESG Enhanced Focus CTB futures (5 regions) (SJYA, SHRA, SHSA, FIFA, SHRA)

2) I his is ordered by the main index methodology. All graphs are only used for illustrative purposes. It is possible that certain indices could have multiple index composition approaches indicated on the left. Please refer to the Appendix for more information on index methodology. 3) The full name of the index tracked is STOXX® Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Index Futures (FSCI)

## **Volume and Open Interest: Eurex Derivatives on ESG Indices**

Strong track record especially in STOXX Europe 600 ESG-X futures



**Benchmark Derivatives Products** 





- Total current notional open interest monthend stands at €5.9 Billion
- **3.2 m contracts** were traded in total in 2023
- € Value of traded volume in ESG Index derivatives segment in 2023 (F&O) exceeded
   €66 bn
- Over 1.7 m contracts traded in STOXX EUROPE 600 ESG-X futures (FSEG) in 2023

77.931

## **Eurex Monthly Statistics: Futures & Options on ESG Indices**

### Reported date April 3, 2024

Product Name	Eurex Product Code	Traded Contracts Last Month	Daily Average Last Month	Traded Contracts FY 2024	Daily Average FY 2024	Capital Volume EUR Last Month	Capital Volume EUR FY 2024	Open Interest Monthend	Capital Open Interest Monthend
STOXX EUROPE 600 ESG-X	FSEG	227,636	11,382	335,314	5,322	4,271,046,140	6,207,476,130	77,931	1,479,909,690
EURO STOXX 50 ESG	FSSX	121,778	6,089	134,386	2,133	2,485,941,155	2,732,295,985	50,718	1,057,216,710
EURO STOXX 50 ESG	OSSX	47,948	2,397	70,674	1,122	805,846,800	1,191,500,800	37,208	643,166,800
STXE 600 ESG-X	OSEG	14,824	741	64,111	1,018	271,580,500	1,156,215,500	21,207	394,355,200
MSCI World ESG Screened	FMSW	19,357	968	20,439	324	666,814,780	702,181,460	9,725	344,706,318
MSCI Europe ESG Screened	FMSR	21,030	1,052	21,230	337	607,098,750	612,657,750	9,910	290,363,000
MSCI USA ESG Screened	FMSU	13,444	672	14,238	226	595,001,492	628,162,128	6,277	289,609,435
MSCI EM ESG Screened	FMSM	31,272	1,564	35,705	567	450,906,254	512,018,797	17,368	252,945,296
FUT ON MSCI EM ASIA ESG SCREEN	FMSS	26,712	1,336	26,712	424	478,132,657	478,132,657	13,314	239,654,463
STXE ESG Ldrs Select 30	OSLS							4,600	57,200,000
STXE ESG Ldrs Select 30	FSLS	4,218	211	4,218	67	51,741,620	51,741,620	2,109	25,877,430
MSCI EAFE ESG Screened	FMSF	420	21	1,050	17	9,428,718	22,830,509	200	4,608,269
DAX 50 ESG	OSDX							327	4,252,400
DAX 50 ESG	FSDX	280	14	345	5	4,990,090	6,080,615	229	4,102,535
MSCI Europe ESG Enh. F.	FMFO	226	11	261	4	5,398,290	6,192,135	107	2,592,075
STOXX EUROPE 600 SRI	FSRI	139	7	154	2	2,272,090	2,507,940	34	559,980
Fixed Income Derivatives									
BBG Barc MSCI EU IG SRI TR	FECX	17,621	881	20,182	320	2,801,727,640	3,204,482,360	5,661	905,646,780
Total		546,905	27,345	749,229	11,893	13,507,926,976	17,519,366,621	256,925	5,996,766,381

## **Active Members in all EUREX ESG Index Derivatives**

## Growing base of clients involved / Liquidity providers

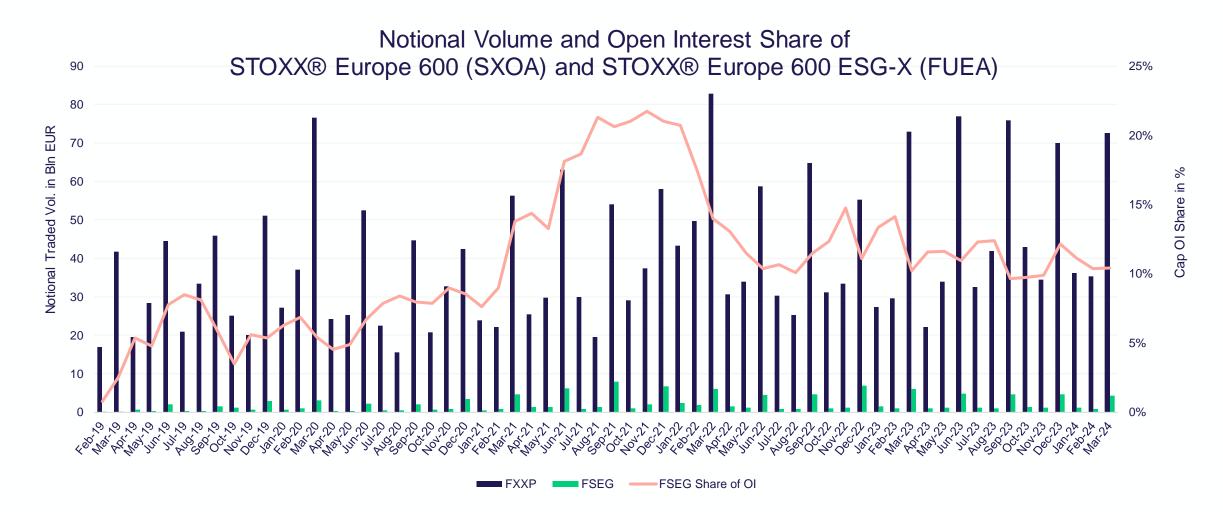
Company	Futures/Options	Member ID	Phone Number	_																	
DRW Investments (UK) Ltd.	Futures	DRWAM	+44 20 7031 1369	-																	
Flow Traders B.V	Futures	NEDAM	+31 20 799 8622	- 100																	
Optiver VOF	Futures & Options	OPXAM	+31 20 708 7621	100																	11
Susquehanna	Futures & Options	SISDB	+353 1 802 8118														ſ			н	
Société Générale	Futures	SOGFR	+33 1 42 13 3750														i I I			н	
Liquidity Provider (OFF B	Book / TES)			80												$\mathbb{H}^{1}$				H	
Company	Futures/Options	Member ID	Phone Number	_																Ц	$\boldsymbol{\mu}$
Bank of America Merill Lynch	Futures & Options	MLEPA	+44 207 996 1885										1	11						н	
BARCLAYS	Futures & Options	BBIDB BACLO	+33 1 44 58 3297	60					. 1												
BNP Paribas	Futures & Options	BNAPA	+49 69 7193 3117					.1												Ш	
Citi Bank	Futures	SAILO	+44 20 3569 3517	40																Ш	
Danske Bank Copenhagen	Futures	DDBCO	+45 45 14 72 93	40																П	
Danske Bank Helsinki	Futures	DDBCO	+358 10 236 4713	_												11		111		н	Н
Danske Bank Stockholm	Futures	DDBCO	+468 5688 0531	_	. []		И													н	П
Deutsche Bank Frankfurt	Futures	DBKFR	+49 69 910 38503	20										H		H				H	H
Flow Traders B.V	Futures	NEDAM	+31 20 799 8622		$X \parallel$		ш									<b>i I</b> '				Ш	
Goldman Sachs	Futures & Options	GSIEB	+44 207 774 9077	J												11				Ш	
IMC Trading	Futures	INMAM	+31 20 798 8519	0										Ш						Ш	Ц
Optiver VOF	Futures & Options	OPXAM	+31 20 708 7621	0	19	19	-19	-19	20	-20	20	20	20	-20	21	21	21	21	21	5	ĉ
Skandinaviska Enskilda Banken	Futures	ENSLO	+46 8 5162 3145	Е	Apr-19	Aug-19	Oct-19	Dec-19	Feb-20	Apr-20	Jun-20	Aug-20	Oct-20	Dec-20	Feb-21	Apr-21	Jun-21	Aug-21	Oct-21	) Oec	Ech_00
Société Générale	Futures	SOGFR	+33 1 42 13 3750				-		-						-						
Susquehanna	Futures & Options	SISDB	+353 1 802 8118							Ν	Mark	(et	Mal	(er			Prir	ncipa	al		

Apr-22 Jun-22 Aug-22 Oct-22 Teb-23 Jun-23 Aug-23 Oct-23 Dec-23 Feb-24

Agent — Total

## **ESG benchmark Gaining Momentum**

Comparison between STOXX<sup>®</sup> Europe 600 and STOXX<sup>®</sup> Europe 600 ESG-X Index Futures

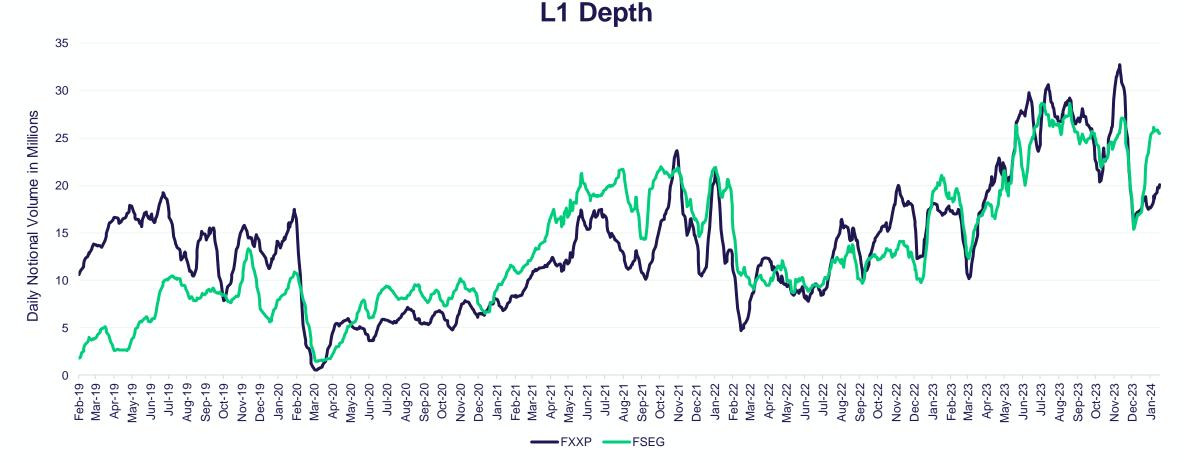


EUREX

## High relative orderbook depth in STXE 600 ESG-X Futures

## Observation period average contracts from 9 AM till 5 PM

On a notional basis, the size of the BBO of STXE 600 ESG-X (FSEG) is comparable to the standard STOXX Europe 600 futures (FXXP) and picking up in the beginning of 2024



**EUREX** 

## STOXX / DAX Product Specifications of Derivatives on ESG Indices

		Benchmark Future	S					Options on E	ESG Indices						
	DAX <sup>®</sup>	STOXX Europe 600 <sup>®</sup>	EURO STOXX 50 <sup>®</sup>	STOXX <sup>®</sup> Europe 600 ESG-X	STOXX <sup>®</sup> USA 500 ESG-X	STOXX <sup>®</sup> Europe ESG Leaders	STOXX <sup>®</sup> Europe Climate	EURO STOXX <sup>®</sup> 50 Low Carbon	DAX <sup>®</sup> 50	EURO STOXX 50 <sup>®</sup>	STOXX® Europe 600 SRI	STOXX <sup>®</sup> Europe 600 ESG-X	STOXX <sup>®</sup> Europe ESG Leaders	DAX <sup>®</sup> 50	EURO
						Select 30	Impact		ESG	ESG			Select 30	ESG	STOXX 50 <sup>®</sup> ESG
EUREX Product Code	FDAX	FXXP	FESX	FSEG	FSUS	FSLS	FSCI	FSLC	FSDX	FSSX	FSRI	OSEG	OSLS	OSDX	OSSX*
Currency		E	UR		USD					E	JR				
Index Type	Total Return							Pric	се						
Bloomberg Prod. Code	GX1 <index></index>	SXOA <index></index>	VGA <index></index>	FUEA <index></index>	QFCA <index></index>	AVSA <index></index>	FAEA <index></index>	BCYA <index></index>	XSDA <index></index>	XSSA <index></index>	CIEA <index></index>	SXXPESGX OMON	SEESGSEP OMON	DAXESGK Index OMON	SX5EESG Index OMON
Bloomberg Index	0.14			SXXPESGX	SU5LESGX	SEESGSEP		SXE5LCEP	DAXESGK	SX5EESG	SXXPSRI	SXXPESGX	SEESGSEP	DAXESGK	SX5EESG
Code	GXA <index></index>	SXXP <index></index>	SX5E <index></index>	<index></index>	<index></index>	<index></index>	SXECITEP <index></index>	<index></index>	<index></index>	<index></index>	<index></index>	<index></index>	<index></index>	<index></index>	<index>.</index>
Reuters Product Code	0#FDX	0#FXXP	0#STXE	0#FSEG	0#FSUS	0#FSLS	0#FSCI	0#FSLC	FSDX	FSSX		OSEG.EX	OSLS.EX	OSDX.EX	OSSX.EX
Contract months				The next three q	uarter months of the	cycle March, June,	September and Dece	mber (9 months)				Up to 60 months	Up to 60 months	Up to 5 years	Up to 5 years
Multiplier	25	50	10	100	100	100	100	100	10	100	100	100	100	10	100
Tick Size (order book)	0.5	0.1	1	0.1	0.05	0.1	0.1	0.1	0.5	0.05	0.1	0.01	0.01	0.1	0.01
Tick Value, in currency	12.5 EUR	5 EUR	10 EUR	10 EUR	5 USD	10 EUR	10 EUR	10 EUR	5 EUR	5 EUR	10 EUR	1 EUR	1 EUR	1 EUR	1 EUR
Minimum Block Trade	250	100	1000	50	100	50	50	50	100	100	50	50	50	100	100
Size, in lots															
CFTC Approved					Yes (F	utures)					No	No	No	No	No
Underlying STOXX	DAX®	STOXX Europe	EURO STOXX 50 <sup>®</sup>	STOXX <sup>®</sup> Europe 600 ESG-X	STOXX <sup>®</sup> USA 500 ESG-X	STOXX® Europe ESG Leaders	STOXX® Europe Climate	EURO STOXX <sup>®</sup> 50 Low Carbon	DAX® 50	EURO STOXX 50 <sup>®</sup> ESG	STOXX® Europe 600 SRI	STOXX <sup>®</sup> Europe 600 ESG-X	STOXX® Europe ESG Leaders	<u>DAX® 50</u>	EURO
Factsheet						Select 30	Impact		ESG				Select 30	ESG	STOXX 50 <sup>®</sup> ESG

## **MSCI - Product Specifications of Derivatives on ESG Indices**

			Benchma	rk Futures										Futures/O	ptions on ES	G Indices							
	MSCI World	MSCI EM	MSCIEAFE	MSCI USA	MSCI Japan	MSCI Europe	MSCI World ESG Screened	MSCI EM ESG Screened	MSCI EAFE ESG Screened	MSCI USA ESG Screened	MSCI Japan ESG Screened	MSCI World SRI	MSCI EM SRI	MSCI Europe SRI	MSCI USA SRI		MSCI Europe IESG Screened	MSCI EMU ESG Screened	MSCI World ESG Enhanced Focus CTB	MSCI EM ESG Enhanced Focus CTB	MSCI Japan ESG Enhanced Focus CTB	MSCI USA ESG Enhanced Focus CTB	MSCI Europe ESG Enhanced Focus CTB
EUREX Product Code	FMWO	FMEM	FMFA	FMUS	FMJP	FMEU	FMSW OMSW	FMSM OMSM	FMSF	FMSU OMSU	FMSJ	FMRW	FMRM	FMRE	FMRQ	FMSS	FMSR	FMSO	FMFW	FMFE	FMFJ	FMFU	FMFO
Currency			USD			EUR				USD				EUR	USD		USD			U	SD		EUR
Index Type												NTR											
Bloomberg Prod. Code	ZWPA	ZTSA	FFAA	ZSOA	FMIA	ZRPA	HRLA	HRRA	HRWA	HRIA	HRYA	CIWA	CIYA	CISA	CITA	MUYA	AUEA	UMEA	SJYA	SHRA	SHWA	SICA	SHSA
Bloomberg Index Code	NDDUWI	NDUEEGF	NDDUEAFE	NDDUUS	NDDUJN	MSDEE15N	NU721415	NU728007	NU728974	NU721417	NU721420	M1WOSOCR	M1EMS	M7CXBRM	M1USSI	NU733561	NE721416	NE721421	NU723911	NU723916	NU723913	NU723912	NE723914
Reuters Product Code	0#FMWO	0#FMEM	0#FMFA	0#FMUS	0#FMJP	0#FMEU	0#FMSW	0#FMSM	0#FMSF	0#FMSU	0#FMSJ	0#FMRW	0#FMRM	0#FMRE	0#FMRQ	0#FMSS	0#FMSR	0#FMSO	0#FMFW	0#FMFE	0#FMFJ	0#FMFU	0#FMFO
Contract months											Up to 36	months; quarter	y months										
Multiplier	10	100	10	10	10	100	10	10	10	10	10	10	10	10	10	20	10	10	10	10	10	10	10
Tick Size (order book)	1	0.1	1	1	1	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Tick Value, in currency	10 USD	10 USD	10 USD	10 USD	10 USD	5 EUR	5 USD	5 USD	5 USD	5 USD	5 USD	5 USD	5 USD	5 EUR	5 USD	10 USD	5 EUR	5 EUR	5 USD	5 USD	5 USD	5 USD	5 EUR
Minimum Block Trade	100	50	1	10	50	250	100	50	50	100	50	10	10	10	10	1	1	1	1	1	1	1	1
Contract value, in currency*	85K	53K	67K	116K	67K	28K	29K	15K	20K	38K	20K	43K	16K	35K	58K	38K	24K	24K	26K	14K	19K	34K	20K
CFTC Approved						Yes							Ν	lo		Yes	N	lo			Yes		
Underlying Factsheet	MSCI World	MSCI EM	MSCI EAFE	<u>MSCI USA</u>	<u>MSCI Japan</u>	MSCI Europe	MSCI World ESG Screened	MSCI EM ESG Screened	MSCI EAFE ESG Screened	MSCI USA ESG Screened	MSCI Japan ESG Screened	MSCI World SRI	MSCI EM SRI	MSCI Europe SRI	MSCI USA SRI	MSCI EM Asia ESG Screened	MSCI Europe ESG Screened	MSCI EMU ESG Screened	MSCI World ESG Enhanced Focus CTB	MSCI Emerging Markets ESG Enhanced Focus CTB	MSCI Japan ESG Enhanced Focus CTB	MSCI USA ESG Enhanced Focus CTB	MSCJ Europe ESG Enhanced Focus CTB

\* As of May 5, 2022

## **MSCI - Product Specifications of Derivatives on ESG Indices**

		O	otions on ETFs	
	iShares MSCI World ESG Enhanced UCITS	iShares MSCI EM ESG Enhanced UCITS	iShares MSCI USA ESG Enhanced UCITS	iShares MSCI Europe ESG Enhanced UCITS
EUREX Product Code	EEWD	EEDM	EEDS	EMNU
Currency Index Type		USD	NTR	EUR
Bloomberg Prod. Code	EEWD LN	EEDM LN	EEDS LN	EMNU GY
Bloomberg Index Code	EEWD LN	EEDM LN	EEDS LN	EMNU GY
Reuters Product Code	EEWD.L	EEDM.L	EEDS.L	EMNU.DE
Contract months				
Multiplier	1000	1000	1000	1000
Tick Size (order book)	0.01	0.01	0.01	0.01
Tick Value, in currency	10 USD	10 USD	10 USD	10 EUR
Minimum Block Trade	500	500	500	500
Contract value, in currency*	7К	5K	8K	6К
CFTC Approved			No	
Underlying Factsheet	iShares MSCI World ESG Enhanced UCITS	iShares MSCI EM ESG Enhanced UCITS	iShares MSCI USA ESG Enhanced UCITS	iShares MSCI Europe ESG Enhanced UCITS

\* As of May 5, 2022



# Appendix

# ESG Index Methodology as Provided by Index Providers

A detailed description of the index methodology can be found on the STOXX website at www.stoxx.com. or the MSCI website at www.msci.com



## **1. STOXX ESG-X Indexes**

Universe STOXX EUROPE 600 STOXX USA 500	Selection Exclusion-based Maintenance Quarterly rebalancing, annual review	Weighting         Free Float Market Cap         Index Type         Price Index	•
Free floa market c	<ul> <li>STOXX will exclude company</li> <li>Military Contracting Involve</li> <li>10% aggregated revenue the</li> <li>Controversial weapons: Antiphosphorus</li> <li>Tobacco</li> <li>0% revenue threshold for m</li> <li>5% revenue threshold from</li> <li>Small arms</li> <li>0% revenue threshold for (1 small arms, to civilian custor)</li> <li>5% revenue threshold from enforcement customers</li> <li>Unconventional Oil &amp; Gas</li> <li>5% revenue threshold for (1 production)</li> </ul>	hreshold from manufacturing related systems, components and products/services -personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white nanufacturing tobacco products (1) supplying tobacco-related products/services and (2) distribution and/or retail sale of tobacco products 1) manufacturing and selling assault weapons (2) selling small arms (non-assault weapons) and (3) selling key components of personnel and/or distribution of (1) assault weapons, (2) small arms and (3) manufacturing and selling small arms to military / law 1) Oil & Gas exploration & extraction in Arctic regions, (2) extracting oil sands and (3) shale energy exploration and/or 1) coal mining and exploration and (2) power generating capacity (coal-fired electricity, heat or steam generation capacity /	

In case a company increases its ESG Controversy Rating to Category 5 (Severe) and becomes non-complaint based on the Sustainalytics Global Standards Screening assessment, the company is deleted on the third dissemination day and replaced.<sup>2</sup>

Λ.

## 2. MSCI ESG Screened Indexes<sup>1</sup>

## ESG Exclusion (Screening) Criteria for MSCI World, EAFE, EM, EM Asia, Japan & USA



1) For further information on the upcoming index methodology changes please see the MSCI consultation: MSCI Index Consultation



#### Thermal Coal

Companies deriving 5% or more revenue from mining or thermal coal or 5% or more revenue from thermal coal-based power generation

### Oil Sands

Companies deriving 5% or more revenue from oil sands extraction

Palm Oil
 Companies deriving 5% or more revenue from palm oil production

### Arctic Oil & Gas

Companies deriving 5% or more revenue from arctic oil & gas extraction

### Controversy Thematic Indicators

Companies with a controversy score of 1 on the following indicators: "Environment – Land Use and Biodiversity Score" and "Environment – Supply Chain Management Score"

### Tobacco

Companies classified as producers or deriving 5% or more aggregate revenue from production, distribution, retail and supply of tobacco-related products

### Controversial weapons

Companies with ties to cluster bombs, landmines, depleted uranium weapons, chemical and biological weapons, blinding laser weapons, non-detectable fragments, incendiary weapons

### Civilian Firearms

Companies classified as producers of firearms and small arms ammunition for civilian market or deriving 5% or more revenue from distribution of firearms and small arms

### Nuclear Weapons

Companies connect with nuclear weapons: Manufacturers, providers of components or auxiliary services related to nuclear warheads and missiles; Assemblers of delivery platforms for nuclear weapons

Carbon intensity reduction target
 A carbon intensity reduction target of 30% will be applied to each MSCI ESG
 Screened Index

## **UN Global Compact**

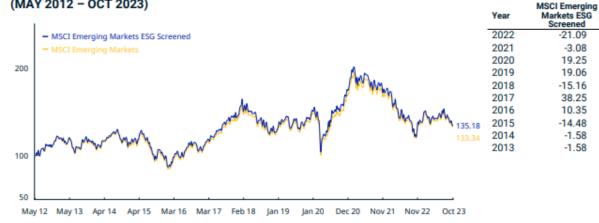
Companies that are not in compliance with the United Nations Global Compact principles

### Screens on Very Severe Controversies

The existing screens on Very Severe Controversies (i.e., companies with MSCI ESG Controversies Score of zero) and UN Global Compact will be applied on a monthly basis rather than quarterly, with an implementation as of the last business day of each month

## 2.a. MSCI EM ESG Screened Index (e.g.)

### CUMULATIVE INDEX PERFORMANCE - NET RETURNS (USD) (MAY 2012 - OCT 2023)



#### INDEX PERFORMANCE – NET RETURNS (%) (OCT 31, 2023)

ANNUAL PERFORMANCE (%)

MSCI Emerging

Markets

-20.09

-2.54

18.31

18.42

-14.57

37.28

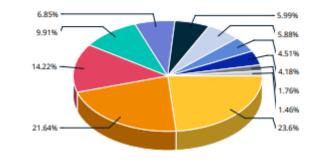
11.19

-14.92

-2.19

-2.60

#### SECTOR WEIGHTS



Financials 23.6%
 Information Technology 21.64%
 Consumer Discretionary 14.22%
 Communication Services 9.91%
 Materials 6.85%
 Consumer Staples 5.99%
 Industrials 5.88%
 Energy 4.51%
 Health Care 4.18%
 Real Estate 1.76%
 Utilities 1.46%

			( / (	,	,						(,	/
						ANNU/	ALIZED					
	1 Mo	3 Mo	1 Yr	YTD	3 Yr	5 Yr	10 Yr M	Since ay 31, 2012	Div Yld (%)	P/E	P/E Fwd	P/BV
MSCI Emerging Markets ESG Screened	-3.80	-12.37	10.78	-2.26	-4.51	1.54	1.18	2.67	3.05	13.69	11.21	1.56
MSCI Emerging Markets	-3.89	-12.16	10.80	-2.14	-3.67	1.59	1.19	2.55	3.18	13.52	11.04	1.54

#### INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 2012 - OCT 31, 2023)

				ANNUALIZED STD DEV (%) 2				SHARPE	RATIO 2.3		MAXIMUM DRAWDOWN			
	Beta	Tracking Error (%)	Turnover (%) 1	3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr	Since May 31, 2012	(%)	Period YYYY-MM-DD		
MSCI Emerging Markets ESG Screened	1.00	0.65	8.40	17.99	18.91	17.00	-0.27	0.08	0.08	0.17	40.33	2021-02-17-2022-10-24		
MSCI Emerging Markets	1.00	0.00	6.15	17.99	18.91	17.02	-0.23	0.08	0.08	0.17	39.00	2021-02-17-2022-10-24		
	<sup>1</sup> Last	12 months	<sup>2</sup> Based o	n monthly	net returns	data <sup>s</sup>	Based on	NY FED Ov	ernight SO	FR from Sep	p 1 2021 &	on ICE LIBOR 1M prior that date		

FUNDAMENTALS (OCT 31, 2023)

## 3. DAX<sup>®</sup> 50 ESG Index

### Universe

HDAX<sup>®</sup> (DAX<sup>®</sup> + MDAX<sup>®</sup> + TecDAX<sup>®</sup>)

## Weighting Free Float Market Cap Component level cap 7%

Maintenance Quarterly rebalancing, annual review Selection

Based on ESG and Liquidity Ranking

Index Type Price Index

## Selection:

- Rank remaining securities by
  - I. free-float market capitalization
  - II. order book volume and
  - III. ESG score
- Select 50 large and liquid companies with good ESG scores
- Selection mechanism designed to achieve low turnover

In case a company increases its **ESG Controversy Rating to Category 5** and becomes non-complaint **based on the Sustainalytics Global Standards Screening** assessment, the company is **deleted** on the **third dissemination day and replaced.**<sup>2</sup>



Selection Exclusion Not Selected

## Filter base universe: HDAX®

(DAX<sup>®</sup> + MDAX<sup>®</sup> + TecDAX<sup>®</sup>) for stocks in breach of a minimum ESG screen<sup>1</sup>):

- Global Standard Screening Assessment (if non-compliant)
- ESG Exclusion Criteria (please refer to the next slide)

## Maintenance:

- Annual recomposition in September applying the "Regular Exit" and "Regular Entry" rules
- Quarterly rebalancing applying the "Fast Exit" and "Fast Entry" rules
- Daily screening<sup>3</sup>

1) Military contracting here refers to revenues from manufacturing military weapons systems and/or integral tailor made components or from tailor made products or services that support military weapons 2) In case a company increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the company is deleted on the third dissemination day and replaced

For further information on the selection and replacement criteria, please see the Index Guide <a href="https://www.dax-indices.com/document/Resources/Guides/DAX\_Equity\_Indices.pdf">https://www.dax-indices.com/document/Resources/Guides/DAX\_Equity\_Indices.pdf</a> For index methodology changes, please refer to <a href="https://www.stoxx.com/market-consultations">https://www.stoxx.com/market-consultations</a>

## 3. DAX<sup>®</sup> 50 ESG Index

Universe HDAX® (DAX® + MDAX® + TecDAX®)	WeightingFree Float Market CapComponent level cap 7%MaintenanceQuarterly rebalancing, annual review	Selection         Based on ESG and Liquidity Ranking         Index Type         Price Index
Filter base universe: HDAX <sup>®</sup> (DAX <sup>®</sup> + ME for stocks in breach of a minimum ESG sc ESG Exclusion Criteria		
<ul> <li>Controversial Weapons</li> <li>Military Contracting         <ul> <li>&gt;5% revenues from (1) manufacturing military weapons</li> </ul> </li> </ul>	pon systems and/or integral, tailor-made components of these weapons, or	

- (2) from tailor made products and/or services that support military weapons
- Nuclear Power
  - >5% revenues from revenues from nuclear power (1) production, (2) supporting products/services, or (3) distribution
- Thermal Coal
  - >5% revenues from (1) thermal coal extraction (including thermal coal mining and exploration), (2) power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)
- Tobacco
  - >0% revenue from manufacturing tobacco products, and >5% revenues from (1) supplying tobacco-related products/services (2) distribution and/or retail sale of tobacco products
- Small arms
  - >0% revenues from manufacturing and selling key components of small arms or from (1) manufacturing and selling assault weapons (2) selling small arms (non-assault weapons) and (3) selling key components of small arms to civilian customers
  - >5% revenues from retail and/or distribution of (1) assault weapons, (2) small arms (non-assault weapons) or (3) manufacturing and selling small arms to military / law enforcement customers
- Unconventional Oil & Gas
  - >5% revenues from (1) Oil & Gas exploration & extraction in Arctic regions (2) extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day >5% revenues from shale energy exploration and/or production
- ESG Controversy & ESG Risk Rating<sup>2</sup>
  - Controversy rating of category 5 ("Severe")
  - ESG Risk Rating "Severe"

 1) As identified by Sustainalytics. Additionally, companies which do not have product involvement data are not considered for selection. Companies with no ESG scores are assigned a zero score

 2) In case a company increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the company is deleted on the third dissemination day and replaced. For further information on the selection and replacement criteria, please see the Index Guide <a href="https://www.dax-indices.com/document/Resources/Guides/DAX\_Equity\_Indices.pdf">https://www.dax-indices.com/document/Resources/Guides/DAX\_Equity\_Indices.pdf</a>

 For index methodology changes, please refer to <a href="https://www.stoxx.com/market-consultations">https://www.stoxx.com/market-consultations</a>

## 4. EURO STOXX 50<sup>®</sup> ESG Index

UniverseWeighting Free Float Market CapEURO STOXX® indexMaintenance Quarterly review		Selection ESG integration by replacement + Introduction of cap factors to ensure overall ESG score exceeds the target Index Type Price return in EUR and USD	
Universe = Replacement Integration      Free float market of      O	Replace Comp All ex capita Globa Militi 10 Contr Toba 09 59 Sma 09 59 Sma 09 59 59 The 59 The 59	Integration by replacement         prent criteria:         poanies with the lowest ESG scores are excluded (based on number of holdings) until a total of 20% of the initial Eurostoxx 50 componenets         cluded companies are replaced by a Eurostoxx company with a higher ESG score (>50) in the same ICB Supersector. Ranked based on n         alization         al Standards Screening (if non-compliant)         tary Contracting Involvement         % aggregated revenue threshold from manufacturing related systems, components and products/services         roversial weapons: Anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and wite cools         6 revenue threshold for manufacturing tobacco products         6 revenue threshold for (1) supplying tobacco-related products/services and (2) distribution and/or retail sale of tobacco products         8 revenue threshold for (1) manufacturing and selling assault weapons, (2) selling small arms (non-assault weapons) and (3) selling key cornal arms, to civilian customers         6 revenue threshold for metail and/or distribution of (1) assault weapons, (2) small arms and (3) manufacturing and selling small arms to more forcement customers         6 revenue threshold for (1) Oil & Gas         6 revenue threshold for (1) Oil & Gas exploration & extraction in Arctic regions, (2) extracting oil sands and (3) shale energy exploration and rmal Coal         6 revenue threshold for (1) coal mining and exploration and (2) power generating capacity (coal-fired electricity, heat or steam generation cal electricity pro	narket hite phosphorus mponents of hilitary / law d/or production

In case a company increases its ESG Controversy Rating to Category 5 and becomes non-complaint based on the Sustainalytics Global Standards Screening assessment, the company is deleted on the third dissemination day and replaced.<sup>2)</sup> STOXX will exclude companies that Sustainalytics identifies to have a "Severe" ESG Risk Rating

## 5. STOXX® Europe ESG Leaders Select 30 Index

## Risk Based & ESG-Screened futures and options

Universe	<b>Weighting</b> Volatility weighted (Inverse); 10% cap factor	<b>Selection</b> Based on volatility ranking and selection of the 30 companies with the highest 12m historical dividend yield
STOXX® Global ESG Leaders Index	Maintenance Quarterly upon review of base index	Index Type Price Index

## Selection of the STOXX® Global ESG Leaders Index

#### Universe:

STOXX Global 1800

### **Exclusion criteria:**

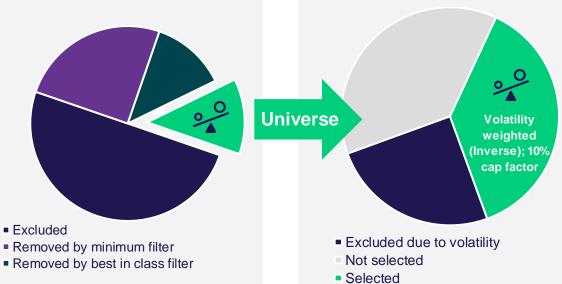
- Identified as Non-Compliant based on Sustainalytics Global Standards Screening (GSS) Assessment.
- ESG Exclusion Criteria (please refer to next slide)

### Selection criteria:

- Minimum Filter: Based on normalized scores, selects all companies which have a score greater than or equal to the 50th percentile (i.e. above average) in all three criteria
- Best-in-Class Filter: E,S,G, Individual Leadership Filter (Best 25%)

### Weighting:

Price weighted with an ESG Score factor



19

1)

### Selection criteria:

Selection of the STOXX Europe ESG Leaders Select 30 EUR

- Stocks that do not have both 12 month historical daily pricing data and 12 month historical dividend yield are removed from the base universe
  - Stocks whose previous 3 and 12 month historical volatilities are the highest are excluded
  - 2. Remaining stocks with the highest 12month historical dividend yields are then selected to be included in the index
- The percentage of exclusion/inclusion at step 1 and 2 is the same and is determined by the Equal Strength Ratio<sup>1)</sup>



## 5. STOXX® Europe ESG Leaders Select 30 Index

## Risk Based & ESG-Screened futures and options

Universe	<b>Weighting</b> Volatility weighted (Inverse); 10% cap factor	<b>Selection</b> Based on volatility ranking and selection of the 30 companies with the highest 12m historical dividend yield
STOXX® Global ESG Leaders Index	Maintenance Quarterly upon review of base index	Index Type Price Index

## Exclusion Criteria of the STOXX Europe ESG Leaders Select 30 EUR

- Exclusion Criteria
- Controversial weapons
  - >0 % revenues from internal production or sale of controversial weapons, the ultimate holding company owns >10% of voting rights of an involved company or >10% of voting rights of a company is owned by the involved company
- Tobacco
  - >0% revenue from manufacturing tobacco products, or >5% revenues from (1) supplying tobacco-related products/services (2) distribution and/or retail sale of tobacco products
- Thermal Coal
  - >5% revenues from (1) revenues from thermal coal extraction (including thermal coal mining and exploration), or (2) power generating capacity (coal-fired electricity, heat, or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)
- Small arms
  - >0% revenues from manufacturing and selling key components of small arms or from (1) manufacturing and selling assault weapons to civilian customers (2) selling small arms (non-assault weapons) to civilian customers, or (3) selling key components of small arms to civilian customers
  - >5% revenues from retail and/or distribution of (1) assault weapons, (2) small arms (non-assault weapons), or (3) manufacturing and selling small arms to military / law enforcement customers
- Military Contracting
  - In > 10% aggregated revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons and from tailor made products and/or services that support military weapons
- Unconventional Oil & Gas
  - >5% revenues from (1) Oil & Gas exploration & extraction in Arctic regions (2) extracting oil sands (this category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day), or >5% revenues from shale energy exploration and/or production
- ESG Controversy & ESG Risk Rating
- Controversy rating of category 5 ("Severe"), and ESG Risk Rating of "Severe"

EUREX

## 6. STOXX Europe Climate Impact Index

## STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index

Universe STOXX® EUROPE 600	Weighting Free-float market cap (FMC) constituent capping at 5%	Selection Based on CDP Climate Scoring	<ul> <li>Methodology changes to be implemented in March</li> </ul>
	Maintenance Quarterly rebalancing, annual review	<b>Index Type</b> Price Index	2024.

The STOXX Europe Climate Impact index has a 53.60% lower carbon footprint than the STOXX Europe 600 index

### **STOXX Climate Impact Indices**

- Unique concept utilizing forward-looking indicators based on CDP research
- Constituents with a CDP Performance Band Score of between A (Leadership) and B-(Management)
- Focus on solving the climate problem and managing climate change risks and impact

## **Exclusion Criteria**<sup>1</sup>

- Norms Based Screening "RED"
- Controversial Weapons "RED"
- Tobacco: > 0% Revenues from involvement in the production of tobacco products, > 5% Revenues from the wholesale or retail distribution of tobacco products, > 5% Revenues from services related to tobacco products
- Thermal Coal: > 5% Revenues from thermal coal mining, including any exposure in production or services, > 5% Revenues from generation of electric power using coal
- Civilian Firearms: > 0% Revenues from involvement in the production of civilian firearms and/or the provision of related services, > 5% Revenues from involvement in the distribution of civilian firearms
- Military: > 10% Revenues from involvement in military equipment and services
- Unconventional Oil & Gas Involvement: > 5% Revenues from the extraction and processing of oil sands, > 5% Revenues from the extraction of oil and gas extraction through arctic drilling, > 5% Revenues from hydraulic fracturing



### Weighting

- Free-float market cap (FMC) multiplied by the corresponding Z-score carbon intensity factor of each constituent with constituent capping at 5%
- Overweight stocks with lower carbon intensities, underweight those with higher emissions

## 7. EURO STOXX<sup>®</sup> 50 Low Carbon Index

## **Environmental Investment Case**

<b>Universe</b>	Weighting	Same constituents as the benchmark	<ul> <li>Methodology changes</li></ul>
<b>EURO STOXX 50</b>	Price weighted: free-float market cap (FMC)		to be implemented in
All constituents as of December each year <sup>2)</sup>	Component capping of 5%		March 2024.
	Maintenance Quarterly rebalancing, annual review	Index Type Price Index	

Reduces carbon footprint without applying exclusions, as it has a 63.80% lower carbon footprint than the EURO STOXX 50 index

### Low Carbon Indices

- No adverse effects from weight optimization
- Low tracking error with similar risk-return profile compared to the benchmark
- Aligned with "Low Carbon Benchmark" definition (article 23a) provided in proposal of EU Commission amending regulation 2016/1011
- Component capping of 5%

### **Exclusion Criteria<sup>3</sup>**

- Norms Based Screening "RED"
- Controversial Weapons "RED"
- Tobacco: > 0% Revenues from involvement in the production of tobacco products, > 5% Revenues from the wholesale or retail distribution of tobacco products, > 5% Revenues from services related to tobacco products
- Military: > 10% Revenues from involvement in military equipment and services
- Civilian Firearms: > 0% Revenues from involvement in the production of civilian firearms and/or the provision of related services, > 5% Revenues from involvement in the distribution of civilian firearms
- Unconventional Oil & Gas Involvement: > 5% Revenues from the extraction and processing of oil sands, > 5% Revenues from the extraction of oil and gas extraction through arctic drilling, > 5% Revenues from hydraulic fracturing
- Thermal Coal: > 5% Revenues from thermal coal mining, including any exposure in production or services, > 5% Revenues from generation of electric power using coal

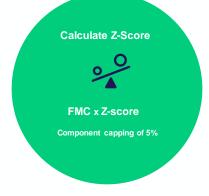
### Selection

- Same constituents as the benchmark at the annual review in December
- Uses both, all stocks with Reported and Estimated Carbon Intensity data<sup>1)</sup>
- Calculate a Z-Score (Carbon-tilt overweights low emitters and underweights high emitters)

### Weighting

- Price weighted: free-float market cap (FMC) multiplied by the corresponding Z-score carbon intensity factor of each constituent. Overweight stocks with lower carbon intensities, underweight those with higher emissions
- Component capping of 5%

2)



- 1) Carbon Intensity: ((Scope 1 + Scope 2 Greenhouse Gas Emissions (GHG)) / Revenue (\$1 million)) Please refer to <u>STOXX Index Methodology Guide</u> for details on index selection, review, and other details.
- 3) For index methodology changes, please refer to https://www.stoxx.com/market-consultations

## 8. ESG Enhanced Focus Index CTB

#### Universe

- MSCI World Index
- MSCI Europe Index
- MSCI USA Index
- MSCI EM Index
- MSCI Japan Index

#### Weighting

Sector/country weights are constrained to +/-5% from the sector/country weights of the Parent Index<sup>1)</sup> Security weight in proportion to the Parent Index<sup>2)</sup> Maintenance Quarterly rebalancing and review

## Key characteristics of parent index are maintained

- Tracking Error Constraint<sup>3)</sup>
- Minimum Constituent Weight: Constituent weight in the Screened Parent
- Targeted Carbon Emission:
  - Reduce the weighted average greenhouse gas intensity by 30% and by 7% on an annualized basis
  - Reduce the weighted average potential emissions intensity by 30%
  - Have at least equivalent ratio of weighted average "Green Revenues" to weighted average "Fossil Fuels-based Revenues" as that of the underlying investment universe
  - Increase the weight of companies with credible carbon reduction targets through the weighting scheme.
  - Be sector-diversified and target companies with high ESG ratings in each sector.

**Target:** Maximize exposure to positive environmental, social and governance factors while maintaining risk and return characteristics similar to parent index



### Selection

Through an optimization process that aims to maximize exposure to ESG factors for a target tracking error budget and incorporate the minimum standards of the EU Climate Transition Benchmark (CTB). Index Type Net Total return

### Exclusion Criteria (more details next slide)

- Involvement with:
  - Thermal coal and unconventional oil and gas extraction
  - Weapons (controversial, nuclear weapons, civilian firearms, conventional weapons)
  - Tobacco
- Non-compliance with the United Nations Global Compact principles
- ESG Controversity Score = 0 (,Red Flag') Environment Controverstiy Score = 0 or 1<sup>4</sup>)
- Additional
  - Turnover cap of 10% for SAIR and 5% for QIR

For countries with less than 2.5% weight in the Parent Index, the upper bound of country weight in the MSCI ESG Enhanced Focus CTB Index is set at three times of the country's weight in the Parent Index.
 Minimum(Security Weight in the Screened Parent +2%, 3 times Security Weight in the Screened Parent), Maximum(Minimum Security Weight in Screened Parent, 0.5 times Security Weight in the Screened Parent)
 Subject to a predicted tracking error target (0.75% for World, USA, Japan, Europe and 1.0% for EM)

4) More on MSCI ESG Controversies, please see https://www.msci.com/documents/10199/acbe7c8a-a4e4-49de-9cf8-5e957245b86b

5) For further information on the upcoming index methodlogy changes please see the MSCI consultation: MSCI Index Consultation

## 9. MSCI Socially Responsible Investing (SRI) Indexes



## 10. STOXX SRI (Socially Responsible Investing) Index

Universe	Selection Best-in-class & norms and values-based	<b>Weighting</b> Free Float Market Capitalization, 10% Cap	
	screens		
STOXX EUROPE 600	Maintenance	Index Type	
	Quarterly review	Price Index	

## **Selection criteria**

### **Emission Exclusions**

 Remove 10% highest emitters (companies are screened on Scope 1 & 2 emission intensities based on ISS ESG emissions data)

## **Baseline Exclusions**

- Global Standard Screening
- Controversial Weapons
- ESG controversies (Category 5)
- ESG Risk Ratings (Severe)

## **Exclusion of ESG laggards**

ESG Score < 50 or #N/A</li>

### **Product Involvement**

TobaccoThermal CoalUnconventional Oil & GasWeaponsAdult EntertainmentAlcoholGamblingConventional Oil & GasNuclear Power

## **Best in Class / Final selection**

- Allocate to11 ICB Industry groups
- Rank according to ESG scores
- Top-ranked securities selected per ICB until
- target ICB + Stock Count reached
- Target number of securities = 200

## **Product Involvement Screens**

2)

Tobacco production	>0%
Tobacco retail/distribution	>0%
Tobacco related products/services	>0%
Thermal coal extraction	>0%
Thermal coal power generation capacity	>0%
Nuclear power: production, products/services, power distribution	n >25%
Oil Sands	>0%
Small arms: civilian customers, key components	>0%
Small arms: retail/distribution, law enforcement	>5%
Military contracting: weapons	>0%
Military contracting: non-weapons	>5%
Adult entertainment production	>0%
Adult entertainment distribution	>5%
Alcohol	>5%
Gambling	>5%
Oil & Gas: production/extraction	>0%
Oil & Gas: power generation capacity, products/services	>25%
Arctic Oil & Gas	>0%
Shale Energy	>0%

In case a company increases its ESG Controversy Rating to Category 5 (Severe) and becomes non-complaint based on the Sustainalytics Global Standards Screening assessment, the company is deleted on the third dissemination day. The constituent's weight will be distributed among the remaining constituents.<sup>2</sup>

1) For further information on the Selection criteria please see the <u>Index Methodology Guide</u>

For index methodology changes, please refer to https://www.stoxx.com/market-consultations

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