EUREX Architects of trusted markets



MSCI ESG Enhanced Focus CTB Index

Integrating ESG and Low Carbon

May 2024

Eurex ESG derivatives offering

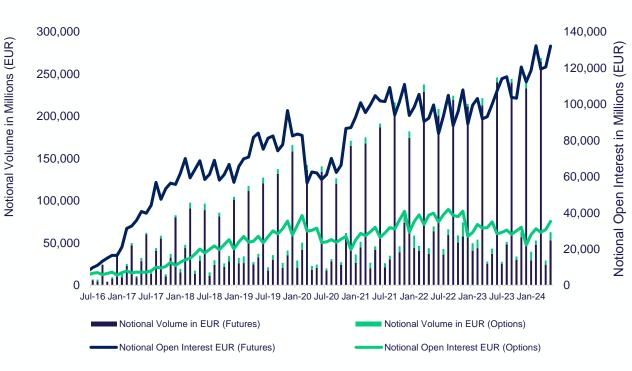
Index methodologies and ESG principles

	Methodology	Principles		Product coverage					
se 1	Negative Screening	Excluding companies based on controversial product involvements, like tobacco, weapons	S	es / options itures	MU				
s Phase	Norms-Based Screening	Excluding companies of the benchmark index based on breaches of UN Global Compact principles		MSCI ES	G Screened fut. / opt.	(6 regions)	Ų.		
pproache: 2	ESG Integration	Incorporating ESG scores to enhance the risk-return profile of a benchmark index	5	STOXX	STOXX 50 Low Carbor Europe Climate Impac rp Leaders Select futur	ct futures	E		
Investment A Phase	Positive Screening	Inclusion of companies that show (relatively) the best performance on ESG (by sector)			X 50 ESG futures / op STOXX 50 ESG futures				
	Green Bond Investing	Active selection of green bonds according to the criteria set out by MSCI ESG research and Green Bond Principles			Enhanced Focus CTB MSCI Global Green Bo		E		
ESG Phase 3	SRI (Socially Responsible Investment)	Investment strategy that considers both financial return and social/environmental good		(SRI future Transition (CTB) / Par PAB) Benchmark futur imate Change ESG fut	es E	Thematics		
Ph	Impact Investing	Investments focused on companies aiming to solve sustainable development goals (SDGs)	Blo		ures E <u>SRI Index</u> fut.				
					E 1 / 1				
	FIXED	OME New: Launch of Options (4 regions)			Evaluated	E = Environr	mental		
	4	MU = Methodology upd							

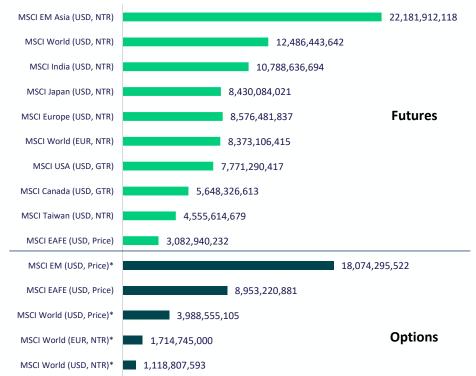
Eurex: The Global Home of MSCI Derivatives

	2024 Traded volume EUR 453.8 Billion 7.6 million contracts	Open Interest EUR 167 Billion 2.9 million contracts
by Trading volumes with 27% market share	CAGR 2016 – 2024: 22%	CAGR 2016 – 2024: 21%

Evolution of Notional Volume and Notional Open Interest



Open Interest for top MSCI Products



Open Interest as of May 31, 2024 Open Interest Market Share as of Dec 2023, Source: FIA Statistics do not include Open Interest and Traded Volumes for MSCI ESG & Dividend Products * Options not eligible under SEC no-action relief as of May 31, 2024. For eligible options, visit: : <u>MSCI Options Snapshot.pdf</u>



(eurex.com)

May 2024

ESG Enhanced Focus Index CTB Methodology

 MSCI World Index MSCI Europe Index MSCI USA Index MSCI EM Index MSCI EM Index MSCI Japan Index Sector/country weights are constrained to +/-5% from the sector/country weights of the Parent Index¹⁾ Security weight in proportion to the Parent Index²⁾ Maintenance Quarterly rebalancing and review 	 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
--	---

- Tracking Error Constraint³⁾
- Minimum Constituent Weight: Constituent weight in the Screened Parent
- Targeted Carbon Emission:

EUREX

- 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



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 Flag⁴) Environment Controverstiy Score = 0 or 1⁴)
- Additional
 - Turnover cap of 10% for SAIR and 8% for QIR
- 1) 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.
- 2) 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)

May 2024

Public

Overview of the MSCI ESG Screens (exclusions)



Thermal Coal

- Companies deriving 5% or more revenue from the mining of thermal coal and its sale to external parties. It excludes: revenue from metallurgical coal; coal mined for internal power generation intra-company sales of mined thermal coal; and revenue from coal trading.
- Companies deriving 5% or more revenue from the thermal coal based power generation.

Oil Sands

Artic Oil & Gas

Companies deriving 5% or more revenue from oil sands extraction

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

Palm Oil

Companies deriving 5% or more revenue from palm oil production

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 producer or deriving 5% or more aggregate revenue from production, distribution, retail and supply of tobacco-related products

Controversial Weapons

Companies with ties to cluster munitions, landmines, depleted uranium weapons, biological/chemical weapons, blinding lasers, non-detectable fragments and incendiary weapons

Civilian Firearms

Companies

- Classified as producer of firearms and small arms ammunition for civilian market
- Deriving 5% or more revenue from the distribution of firearms and small arms

Carbon intensity reduction target*

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

Nuclear Weapons

All Companies connected with nuclear weapons as

 Manufacturer, provider of components or auxiliary services related to nuclear warheads and missiles; Assembler of delivery platforms for nuclear weapons



UN Global Compact

MSCI ESG Global Norms Screening is designed to help investors determine which publicly traded companies breach the standards of conduct enumerated by the United Nations Global Compact Principles, the United Nations Guiding Principles on Business and Human Rights, and the ILO Conventions. All companies determined as failing to comply with the UNGC principles are excluded

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

0.09

0.08

NORTHROP GRUMMAN CORP

CANADIAN NAT RESOURCES

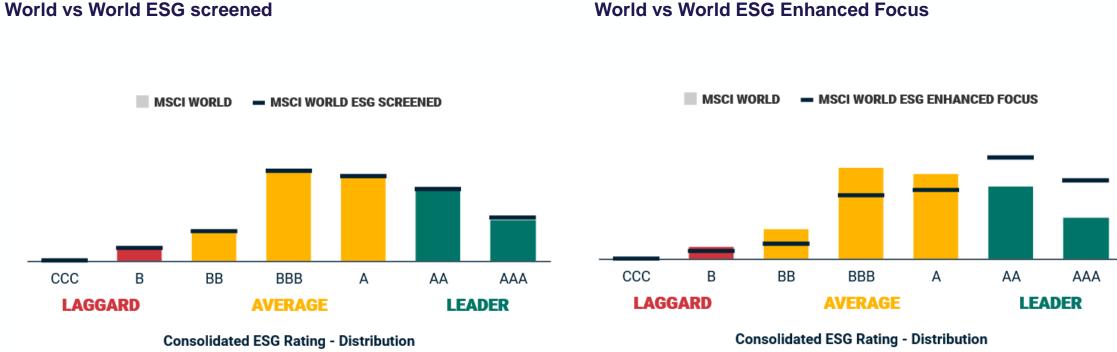
ANGLO AMERICAN

MSCI exclusion comparison



Data as of December, 2021

MSCI World – Weighting comparison*

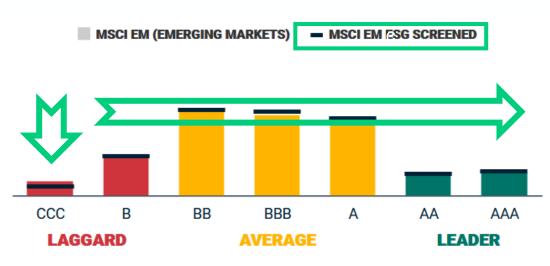


World vs World ESG Enhanced Focus

* Source MSCI data tool link: Index Profile Tool - MSCI

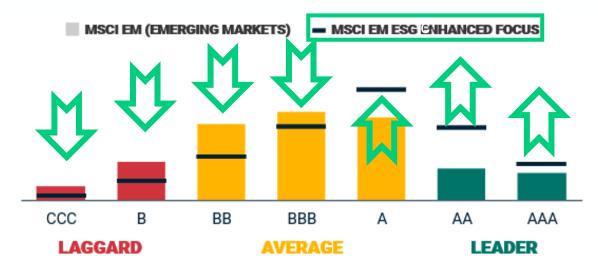
MSCI EM – Weighting comparison*

EM vs EM ESG screened



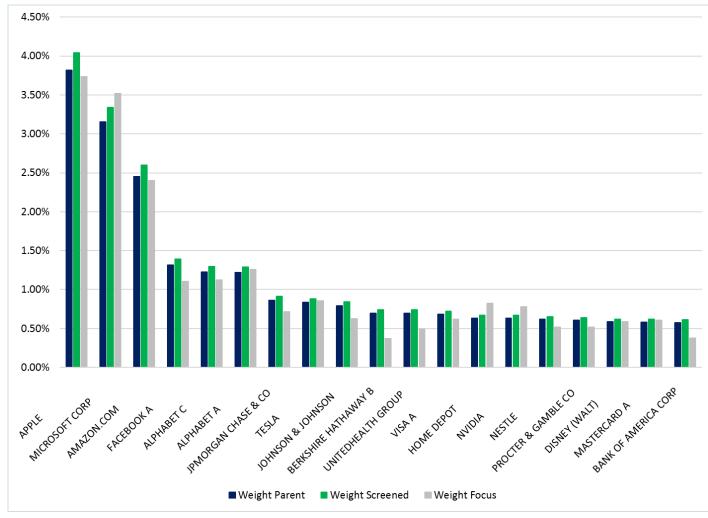
Consolidated ESG Rating - Distribution

EM vs EM ESG Enhanced Focus

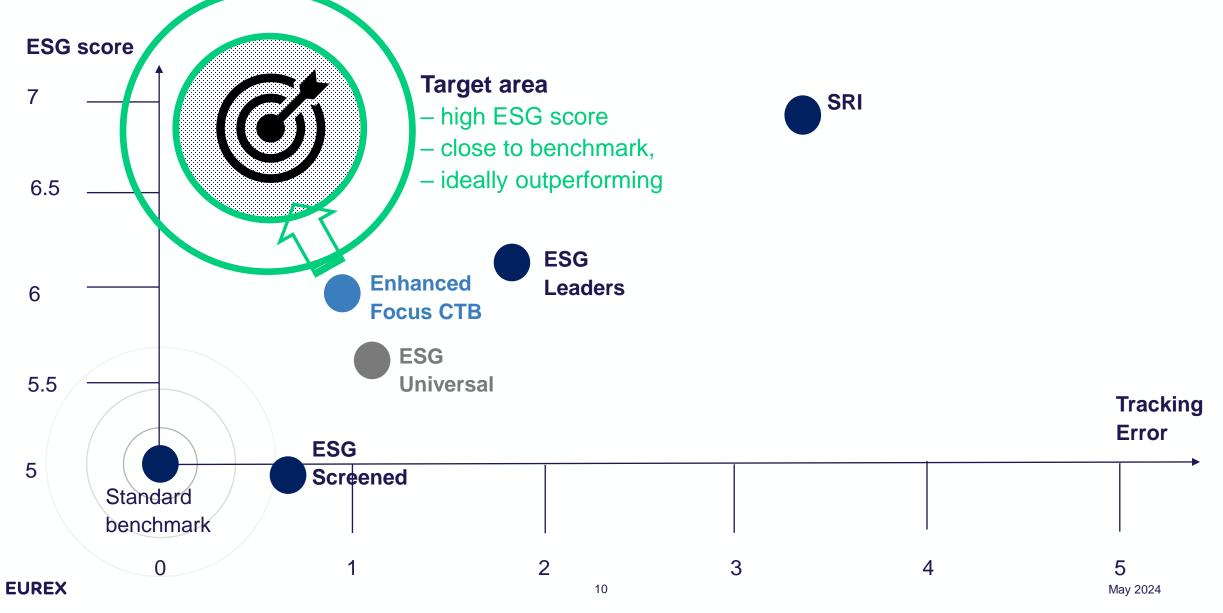


Consolidated ESG Rating - Distribution

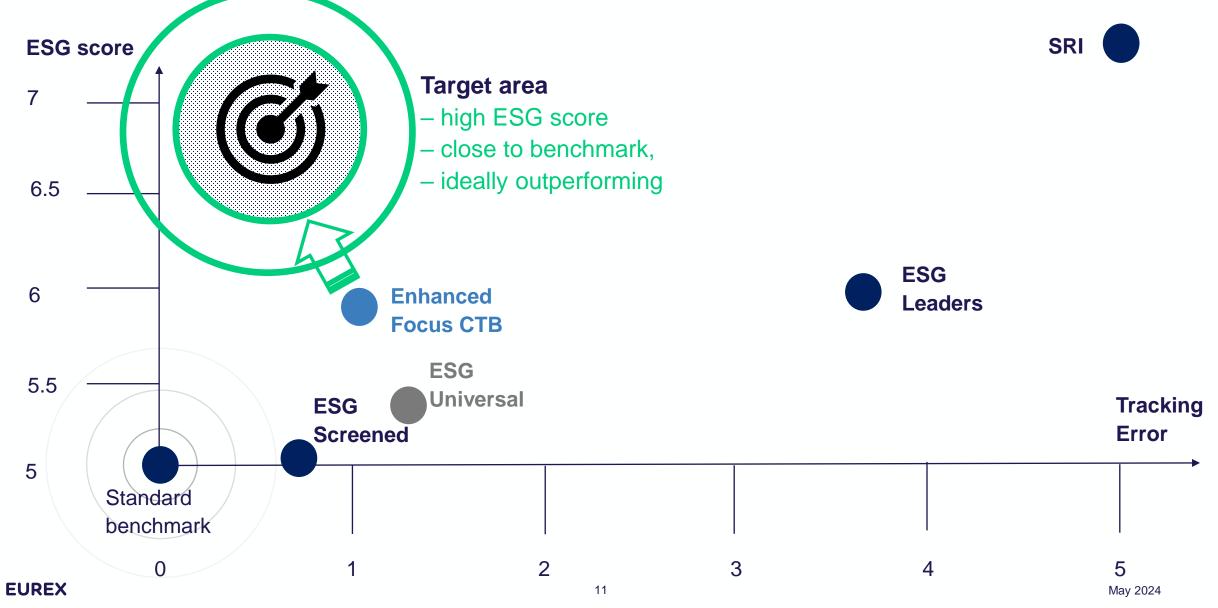
MSCI World – Weighting comparison



- Weightings in screened are all higher than in Parent index, as it is same weighting methodology, but less stocks
- For Enhanced Focus, the weighting can be higher or lower than in Parent index
- The weighting differences can be substantial: certain weights in the Enhanced Focus are between -75% and +200% different towards screened



Public



CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD)

ANNUAL PERFORMANCE (%)



*Source MSCI https://www.msci.com/documents/10199/2d51730c-2429-2dda-bb74-9f9536b3a566

ESG Enhanced Focus CTB Index methodology

Parameters / Inde	ex	MSCI ESG Enhanced Focus CTB*							
Index Objective		Designed to maximize its exposure to positive environmental, social and governance (ESG) factors while reducing the carbon equivalent exposure to carbon dioxide (CO2) and other greenhouse gases (GHG) as well as its exposure to potential emissions risk of fossil fuel reserves by thirty percent (30%)							
Selection (Optim	ization + Screens)	 Utilizes optimization with an aim to maximize exposure to high ESG ratings for a specific tracking error target Screens: Tobacco, Controversial Weapons, Thermal Coal, Civilian Firearms, Nuclear Weapons, Unconventional Oil and Gas, ESG Red Flags, Missing ESG Controversy Score, ESG Score or ESG Rating & Companies failing to comply with UN Global compact principles* 							
Screened Parent		• The Screened Parent is constructed by excluding securities from Parent Index based on the exclusion criteria as per screens. The security weights are then normalized to 100%.							
	Tracking Error Constraint	• Subject to a predicted tracking error target (0.75% for World, Japan, EMU, Europe, 1.0% for EM and 0.6% for USA)							
	Sector Weights	 Sector weights are constrained to +/-5% from the sector weights of the Parent Index 							
	Country Weights	 Country weights are constrained to +/-5% from country weights of the Parent Index* 							
of iinec	Security Weight Upper Bound	 Minimum (Security Weight in the Screened Parent +2%, 5 times Security Weight in the Screened Parent) 							
istics of maintained	Security Weight Lower Bound	Maximum (Minimum Security Weight in Screened Parent, 0.25 times Security Weight in the Screened Parent)							
erist e m	Minimum Constituent Weight	Minimum constituent weight in the Screened Parent							
ract x ar	Turnover	 Turnover cap of 10% for SAIR and 8% for QIR as part of optimization constraints 							
Key characteristics of parent index are maintair	Transition & Physical Risk Objectives	 Greenhouse Gas (GHG) Intensity (Scope 1+2+3) 30% to parent index (Minimum average reduction of 7% per annum) Minimum active weight in High Climate Impact Sector of 0% Minimum Increase in aggregate weight in companies setting targets relative to the aggregate weight of such companies in the Parent Index of 10% Minimum reduction in Weighted Average Potential Emissions Intensity of 30% Minimum ratio of Weighted Average Green Revenue/ Weighted Average Fossil fuels-based Revenue at least equal 							
		*Source: https://www.msci.com/eqb/methodology/meth_docs/MSCI_ESG_Enhanced_Focus_Indexes_CTB_Methodology_Nov2021.pd							
UREX		13							

MSCI - Product Specifications ESG Derivatives

	Benchmark Futures							ESG Futures												ESG Options				Options on ETFs			
	MSCI World	MSCI EM	MSCI EAFE	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 ESG Enhance d Focus CTB	MSCI EM ESG Enhance d Focus CTB	MSCI Japan ESG Enhance d Focus CTB	MSCI USA ESG Enhance d Focus CTB	MSCI Europe ESG Enhance d Focus CTB	MSCI EM Asia ESG Screened	MSCI Europe ESG Screened	MSCI EMU ESG Screened	MSCI EM Asia ESG Screened	MSCI EM ESG Screened	MSCI USA ESG Screened	MSCI World ESG Screened	iShares MSCI World ESG Enhance d UCITS	iShares MSCI EM ESG Enhanced UCITS	iShares MSCI USA ESG Enhanced UCITS	iShares MSCI Europe ESG Enhance d UCITS
EUREX Product Code	FMWO	FMEM	FMFA	FMUS	FMJP	FMEU	FMSW	FMSM	FMSF	FMSU	FMSJ	FMFW	FMFE	FMFJ	FMFU	FMFO	FMSS	FMSR	FMSO	OMSS	OMSM	OMSU	OMSW	EEWD	EEDM	EEDS	EMNU
Currency			USD			EUR					USD					EUR	USD	El	JR	USD	USD	USD	USD	ι	JSD		EUR
Index Type													NTR														
Bloomberg Prod. Code	ZWPA	ZTSA	FFAA	ZSOA	FMIA	ZRPA	HRLA	HRRA	HRWA	HRIA	HRYA	SJYA	SHRA	SHWA	SICA	SHSA	MUYA	AUEA	UMEA	-	-	-	-	EEWD LN	EEDM LN	EEDS LN	EMNU GY
Bloomberg Index Code	NDDUWI	NDUEEGF	NDDUEAFE	NDDUUS	NDDUJN	MSDEE15N	I NU721415	NU728007	NU728974	NU721417	NU721420	NU723911	NU723916	NU723913	NU723912	NE723914	NU733561	NE721416	NE721421	NU733353	NU728007	NU721417	NU721415	EEWDLN	EEDM LN	EEDS LN	EMNU GY
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#FMFW	0#FMFE	0#FMFJ	0#FMFU	0#FMFO	0#FMSS	0#FMSR	0#FMSO	0#OMSS	0#OMSM	0#OMSU	0#OMSW	EEWD.L	EEDM.L	EEDS.L	EMNU.DE
Contract months														Up to	36 months	; quarterly	months										
Multiplier	10	100	10	10	10	100	10	10	10	10	10	10	10	10	10	10	20	10	10	10	10	10	10	1000	1000	1000	1000
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	0.01	0.01	0.01	0.01
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 USD	5 USD	5 EUR	10 USD	5 EUR	5 EUR	10 USD	10 USD	10 USD	10 USD	10 USD	10 USD	10 USD	10 EUR
Minimum Block Trade	100	50	1	10	50	250	100	50	50	100	50	1	1	1	1	1	1	1	1	1	10	10	10	500	500	500	500
Contract value, in currency*	85K	53K	67K	116K	67K	28K	29K	15K	20K	38K	20K	26K	14K	19K	34K	20K	38K	24K	24K	17k	13k	35k	28k	7K	5K	8K	6K
CFTC Approved									Yes														No				
Underlying Factsheet	<u>MSCI</u> World	<u>MSCI EM</u>	<u>MSCI</u> EAFE	<u>MSCI</u> USA	<u>MSCI</u> Japan	<u>MSCI</u> Europe	MSCI World ESG Screened	MSCI EM ESG Screened	MSCI EAFE ESG Screened	<u>MSCI</u> <u>USA ESG</u> <u>Screened</u>	<u>MSCI</u> Japan ESG Screened	MSCI World ESG Enhanced Focus CTB	MSCI Emerging Markets ESG Enhanced Focus CTB	<u>MSCI</u> <u>Japan</u> <u>ESG</u> <u>Enhanced</u> <u>Focus</u> <u>CTB</u>	<u>MSCI</u> USA ESG Enhanced <u>Focus</u> CTB		MSCI EM Asia ESG Screened		MSCI EMU ESG Screened	<u>MSCI EM Asia</u> ESG Screened	MSCI EM ESG Screened	MSCI USA ESG Screened	MSCI World ESG Screened	<u>iShares MSCI</u> World ESG Enhancec UCITS	<u>iShares</u> <u>MSCI EM</u> <u>ESG</u> <u>Enhanced</u> <u>UCITS</u>	<u>iShares MSCI USA ESG Enhanced UCITS</u>	<u>iShares MSCI</u> <u>Europe</u> ESG Enhanced <u>UCITS</u>

Please contact for more information about ESG:

Ralf Huesmann

Equity & Index Product Design

T: +49 (0)69 2 11-1 54 43 ralf.huesmann@eurex.com

Christine Heyde

Equity & Index Product Design

T: +49 (0)69 2 11-1 56 98 christine.heyde@eurex.com

Rachna Mathur

Achim Stefan Karle

Equity & Index Sales America

T: +1 212 309- 9308 rachna.mathur@eurex.com Equity & Index Sales EMEA

T: +49 (0)69 2 11-1 87 57 achim.karle@eurex.com



Disclaimer

© Eurex 2023

Deutsche Börse AG ("DBAG"), Clearstream Banking AG ("Clearstream"), Eurex Frankfurt AG ("Eurex"), Eurex Clearing AG ("Eurex Clearing") and Eurex Repo GmbH ("Eurex Repo") are corporate entities and are registered under German law. Eurex Global Derivatives AG is a corporate entity and is registered under Swiss law. Clearstream Banking S.A. is a corporate entity and is registered under Luxembourg law. Eurex Frankfurt AG is the administrating and operating institution of Eurex Deutschland. Eurex Deutschland is in the following also referred to as the "Eurex Exchange".

All intellectual property, proprietary and other rights and interests in this publication and the subject matter hereof (other than certain trademarks and service marks listed below) are owned by DBAG or its affiliates and subsidiaries or used under authorization by their respective owners, including, without limitation, all patent, registered design, copyright, trademark and service mark rights. While reasonable care has been taken in the preparation of this publication to provide details that are accurate and not misleading at the time of publication DBAG, Clearstream, Eurex, Eurex, Clearing, Eurex Repo as well as the Eurex Exchange and their respective subsidiaries, servants and agents (a) do not make any representations or warranties regarding the information contained herein, whether express or implied, including without limitation any implied warranty of merchantability or fitness for a particular purpose or any warranty with respect to the accuracy, correctness, quality, completeness or timeliness of such information, and (b) shall not be responsible or liable for any third party's use of any information contained herein under any circumstances, including, without limitation, in connection with actual trading or otherwise or for any errors or omissions contained in this publication.

This publication is published for information purposes only and shall not constitute investment advice respectively does not constitute an offer, solicitation or recommendation to acquire or dispose of any investment or to engage in any other transaction. This publication is not intended for solicitation purposes but only for use as general information. All descriptions, examples and calculations contained in this publication are for illustrative purposes only.

Eurex and Eurex Clearing offer services directly to members of the Eurex Exchange respectively to clearing members of Eurex Clearing. Those who desire to trade any products available on the Eurex market or who desire to offer and sell any such products to others or who desire to possess a clearing license of Eurex Clearing to participate in the clearing process provided by Eurex Clearing, should consider legal and regulatory requirements of those jurisdictions relevant to them, as well as the risks associated with such products, before doing so.

Only Eurex derivatives that are CFTC-approved may be traded via direct access in the United States or by United States persons.

A complete, up-to-date list of Eurex derivatives that are CFTC-approved is available at: https://www.eurex.com/ex-en/rules-regs/eurex-derivatives-us/directmarket-access-from-the-us.

In addition, Eurex representatives and participants may familiarize U.S. Qualified Institutional Buyers (QIBs) and broker-dealers with certain eligible Eurex equity options and equity index options pursuant to the terms of the SEC's July 1, 2013 Class No-Action Relief.

A complete, up-to-date list of Eurex options that are eligible under the SEC Class No-Action Relief is available at: https://www.eurex.com/ex-en/rulesregs/eurex-derivatives-us/eurex-options-in-the-us-for-eligible-customers. Lastly, U.S. QIBs and broker-dealers trading on behalf of QIBs may trade certain single-security futures and narrow-based security index futures subject to terms and conditions of the SEC's Exchange Act Release No. 60,194 (June 30, 2009), 74 Fed. Reg. 32,200 (July 7, 2009) and the CFTC's Division of Clearing and Intermediary Oversight Advisory Concerning the Offer and Sale of Foreign Security Futures Products to Customers Located in the United States (June 8, 2010).

Trademarks and Service Marks

Buxl®, DAX®, DivDAX®, eb.rexx®, Eurex®, Eurex Repo®, Strategy Wizard®, Euro GC®, FDAX®, FTSE 100, FWB®, GC Pooling®, CPI®, MDAX®, ODAX®, SDAX®, TecDAX®, USD GC Pooling®, VDAX®, VDAX-NEW® and Xetra® are registered trademarks of DBAG or its affiliates and subsidiaries. MSCI®, EAFE®, ACWI® and all MSCI indexes (the "Indexes"), the data included therein, and service marks included therein are the intellectual property of MSCI Inc., its affiliates and/or their licensors (together, the "MSCI Parties"). The Indexes are provided "as is" and the user assumes the entire risk of any use it may make or permit to be made of the Indexes. No MSCI Party warrants or guarantees the originality, accuracy and/or completeness of the Indexes and each expressly disclaims all express or implied warranties. No MSCI Party shall have any liability for any errors or omissions in connection with any of the Indexes, or any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages. For full disclaimer see msci.com/disclaimer.

ATX®, ATX® five, CECE® and RDX® are registered trademarks of Vienna Stock Exchange AG. IPD® UK Quarterly Indexes are registered trademarks of Investment Property Databank Ltd. IPD and have been licensed for the use by Eurex for derivatives. SLI®, SMI® and SMIM® are registered trademarks of SIX Swiss Exchange AG. The STOXX® indexes, the data included therein and the trademarks used in the index names are the intellectual property of STOXX Limited and/or its licensors. Eurex derivatives based on the STOXX® indexes are in no way sponsored, endorsed, sold or promoted by STOXX and its licensors and neither STOXX nor its licensors shall have any liability with respect thereto. PCS® and Property Claim Services® are registered trademarks of ISO Services, Inc. Korea Exchange, KRX, KOSPI and KOSPI 200 are registered trademarks of Korea Exchange Inc. The names of other companies and third-party products may be trademarks of service marks of their respective owners.

FTSE® is a trademark of the London Stock Exchange Group companies and is used by FTSE International Limited ("FTSE") under license. All rights in the FTSE®100 Index (the "Index") vest in FTSE or its licensors. Neither FTSE nor any of their affiliates or licensors (a) assumes any liability, losses, damages, expenses or obligations in connection with any derivative product based on the Index; or (b) accepts any liability for any errors or omissions, fitness for a particular purpose or the results to be obtained from the use of the Index or related data. No party may rely on the Index or related data contained in this communication which Index and data is owned by FTSE or their affiliates. No use or distribution of the Index is permitted without FTSE's express written consent. FTSE does not promote, sponsor or endorse the content of this communication nor any financial or derivative product that it relates to.

PRIIPs: Eurex Deutschland qualifies as manufacturer of packaged retail and insurance-based investment products (PRIIPs) under Regulation (EU) No 1286/2014 on key information documents for packaged retail and insurance-based investment products (PRIIPs Regulation) and provides key information documents (KIDs) covering PRIIPs traded on Eurex Deutschland on its website under the following link: https://www.eurex.com/ex-en/rules-regs/priips-kids.

In addition, according to Art. 14(1) PRIIPs Regulation the person advising on, or selling, a PRIIP shall provide the KID to retail investors free of charge.