

# ESG Data: Managing Risk & Regulation

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# ESG Data: Managing Risk & Regulation

## **ESG Landscape is Rapidly Evolving**



Data Management



**Climate Management** 



Investment Risk,
Compliance & Regulatory

# **Industry Standard Reporting Burden**

## According to ESG Book - As of 2024, 1,255 ESG regulations have been introduced worldwide since 2011!

53	TCFD	Global framework developed by the Financial Stability Board with recommendations on types of information that companies should disclose to investors on risks and opportunities around climate change.	<b>(</b> ::	MAS – Carbon Reporting	Monetary Authority of Singapore requires banks, insurers and asset managers to disclose climate-related risks annually, with TCFD reporting encouraged.
<b>\$</b>	IFRS / ISSB	Initiative by the IFRS to standardize global reporting of both climate and general business / human capital sustainability, built off TCFD framework and likely adopted by several national governments once finalized.	*	SFC - TCFD Disclosures	Securities and Futures Commission requirements to develop baseline and enhanced requirements for large fund managers to disclose carbon footprint and other environmental metrics if they are deemed material.
	ESMA – SFDR	Requirement for UCITS and AIFMDs marketed within the EU to produce a reporting template across a variety of metrics including Principle Adverse Impacts, Precontractual Annexes and Periodic Disclosures.	* *	APRA – SPS530 ESG updates	Asset owners to report full spectrum of investment risks, including ESG risks as a part of prudential investment practices. CPG229 includes additional guidance for better climate decision making and best practices.
	ESMA – European ESG Template	FinDatEx-developed template that standardises required data fields, as well as MIFID II and IDD. Includes information on sustainability preferences, EU taxonomy information, screening criteria and Article 8 and 9 information.	* * *	FMA & ASIC – Climate Disclosures	Proposed TCFD-aligned climate-related disclosures for banks, insurers, asset managers and listed issuers, with the government likely to adopt ISSB. Greenwashing is also a key enforcement priority for ASIC.
	UK FCA / DWP	Disclosure requirements based on TCFD for certain asset managers and asset owners based on size and type of fund. Includes CET – carbon emissions template created to help institutions meet their obligations if desired.	* *	New Zealand	Largest banks, asset managers and insurers doing business in NZ (includes several Australian companies) must report TCFD-aligned metrics.
	UK SDR	Broad regime for consumer-facing sustainable investment fund labeling to help consumers navigate the investment product landscape and reduce greenwashing.	+	Switzerland	TCFD-style report to be required beginning in 2025 for FY24 reporting for public companies, banks and insurance companies with 500 or more employees and at least CHF 20mm in assets or > CHF 40mm in turnover.
	BVI Version -	Delivery of SFDR European ESG Template in WM-Daten format for delivery to the	*:	China	Recently announced plans to open ISSB office in Beijing, with expectation to adopt some form of ISSB standards in the coming years.
	EET	German market.		Japan	Mandatory climate reporting for "Prime Market" companies in place, likely to adopt some form of ISSB.
	Luxembourg Subscription Tax	Tax D'Abonnement rules that reduce subscription tax for Lux-domiciled funds where they invest more than 5% in Sustainable Assets.	*	Canada	Recently passed climate disclosure requirements for largest banks and insurers. Will also plan to adopt ISSB standards more broadly once finalized, in conjunction with commitments made by the G7.
	SEC – ESG Disclosures	Rules to provide detailed reporting on climate-related risks, financial impact, and net-zero transition plans. A fund labeling regime is also in the works.		Korea	Basic emissions disclosure requirements are currently voluntary but to be phased in from FY25. Korea Sustainability Standards Board (KSSB) launched in anticipation of ISSB finalization and likely to adopt thereafter.



# Sustainability Regulation (EU)

## **Sustainable Finance Disclosure Regulation (SFDR)**

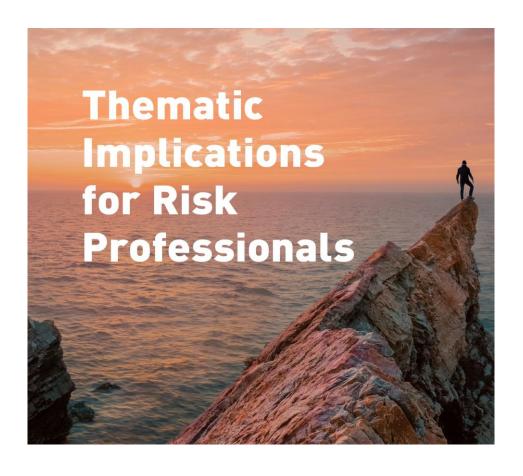
- Promote Transparency & Accountability
- Defined Reporting & Disclosure Requirements
- Principal Adverse Impacts (PAI's)

## Legislative measures requiring integration of sustainability factors and sustainability risks

- Applicable to registered fund managers
- Should be aligned with the Sustainable Finance Disclosures Regulation (SFDR)
- Maintain resources & expertise for the effective integration of sustainability risks
- Consider sustainability risks as part of the ongoing monitoring of investment
- Senior management of the management company is responsible to take sustainability risks into account

# Risk Management Process

## Identify > Measure > Monitor > Report



- Sustainability risk become a core element of fund risk management.
- From due diligence in fund selection to the ongoing monitoring, sustainability will factor in alongside other risks: market, liquidity, operational and counterparty risks. Integration to occur at both Entity and Product level.
- Principal Adverse Impact (PAI's) are a new consideration for risk management. Prioritization of PAI will vary depending on investment strategy and the sustainable objectives of the funds.

## **Sustainability Factors**

#### TRADITIONAL RISKS

**Market Risk** 

**Liquidity Risks** 

**Credit Risk** 

**Operational Risks** 



Characteristics of Traditional Financial Risks

- ❖ Measurable
- Quantifiable impact
- ❖ Well researched

#### **SUSTAINABILITY FACTORS**

Water Stress Supply Chain

**Emissions** Corruption

**Landfills Labour Rights** 

**Board Diversity** Business Ethics

Health & Safety Data Privacy

Characteristics of ESG Risk

- ❖ Many are intangible risks
- Hard to measure
- **❖** Evolving
- ❖ Difficult to estimate timing of risks

# Uncertain Climate Impacts: Framework to Align Reporting

Task Force on Climate-related Financial Disclosures (TCFD)

#### **Recommended Disclosures**

- > **Governance:** Disclose governance around climate-related risks and opportunities.
- > **Strategy:** Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material.
- > Risk Management: Disclose how the organization identifies, assesses, and manages climate-related risks.
- Metrics & Targets: Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities, including within investment portfolios.

## What Metrics & Targets Are Required?

## Disclosures in the "Metrics & Targets" section

#### **Risk-based metrics may include:**

- Physical risks (i.e., extreme weather, rising temperatures)
- Transition risks (i.e., increased energy prices, technology transition risks, changes in customer behavior)

#### **Opportunity-based metrics may include:**

- Measures of improved resource efficiency (i.e. use of recycling, move to efficient buildings, water usage)
- Use of new energy and technologies (i.e. use of lower-emission sources of energy, participation in carbon markets)
- Development of new business activities (i.e. R&D or capital spending on development of new low-emissions products & services)

#### **GHG Emissions**

- Scope 1, 2, and 3 GHG emissions
- Total carbon emissions and footprint
- Weighted average carbon intensity (WACI)
- · Historical annual calculations after first year
- Assets under "orderly", "disorderly", and "hot house" scenarios
- Climate value-at-risk and temperature rise alignment
- Amount or % of assets or business activities vulnerable to physical and transition risks
- Amount or % of assets or other business activities aligned with climate opportunities

# **Data Management**

## **Industry Challenges**

- Vendor data Requires due diligence & training to find reliable vendor(s) and compile all data points
- Data coverage Using a single data vendor usually leads to insufficient coverage (e.g., 70% of a portfolio)
- Lack of standardized approach (asset class, aggregation methods, normalization of metrics)
- Fund look-through Every asset within a portfolio needs a score mapped to it
- Reporting requirements/timing Hard to follow evolving deadlines and template needs
- Portfolio monitoring Improve portfolio sustainability and lower ESG-related investment risk
- Greenwashing avoidance Non-compliance presents substantial reputational risk

## Governance & Quality Is Important

A. Source Raw Data B.Internal Data Calculation

C.Data Quality
Assurance

D.Consumer Process

#### **Standard Quality Checks:**

- Flag changes to vendor data source (data format, structure, units or field naming convention)
- Data read procedures and data coverage breaches (i.e., alert if threshold % of no coverage is breached)
- Audit ESG data across vendors to ensure comparability
- Exception reporting
- Automated reconcile

#### **Supporting Customization**

Apply rules, calculations, custom tags, proprietary score

#### **Consumer Reporting**

- Trend analysis
- Interactive usability
- Regulatory Reporting packaging (EET, SFDR, TCFD, etc..)

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# Data Monitoring / Quality Checks

## **Example**

Market Data	Coverage + BD (Fund - Security Market Description)						
Fund	Security Market	NPV	NPV (Proportion)	Trucost Carbon-Scope 1	Trucost Carbon-Scope 1 BD (12/30/2022)	Trucost Carbon-Scope 1 Large Change	
Total		4,351,841,679.84	100.00	1,431,709.53	1,651,936.33	Sma	
22T6	ATKORE INC	10,052,537.85	0.23	19,700.00	1,936.95	Lar	
22T6	NABORS INDUST	1,487,886.03	0.03	1,012,222.99	1,011,688.59	Sma	
22T6	GOODYEAR TIRE	6,258,738.00	0.14	1,335,470.75	1,335,458.43	Sma	
22T6	ALEXANDER & BA	641,875.20	0.01	40,599.49	40,599.45	Sma	
22T6	INTERNATIONAL	1,907,704.31	0.04	680,688.44	680,688.44	Sma	
22T6	EMCOR GROUP INC	11,263,580.16	0.26	154,006.22	154,006.22	Sma	
22T6	LUMEN TECHNOL	271,394.43	0.01	222,798.11	222,798.11	Sma	
22T6	CHAMPIONX CORP	573,872.00	0.01	39,061.32	39,061.32	Sma	
22T6	VERITIV CORP	8,518,642.83	0.20	63,667.00	63,667.00	Sma	
22T6	AMN HEALTHCAR	1,461,097.40	0.03	25,975.95	25,975.95	Sm	
22T6	INTREPID POTAS	5,358,595.00	0.12	27,454.30	27,454.30	Sm	
22T6	LIVANOVA PLC	3,951,629.15	0.09	20,869.94	20,869.94	Sm	

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## **Risk Factors**

## Ratings, Analytics and Factors

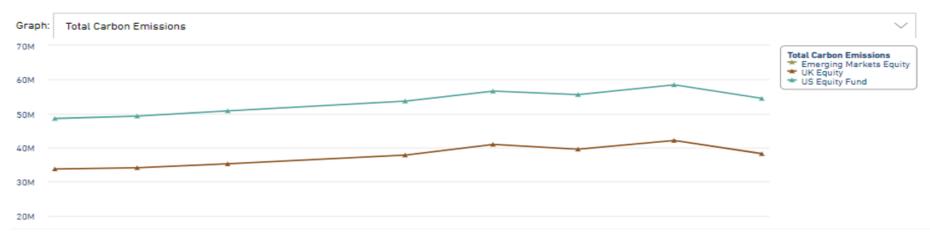
Sustainalytics ESG Analysis (Fund Description - Country - Sector - Security Name)

Groupings	Weight	ESG Risk Score V	Environment-Risk Scor	Social-Risk Score	Governance-Risk Score	Status	Overall Beta
otal		26.57	6.25	10.66	9.17	Am	
> Corp HY	100.00	28.95	7.82	11.92	8.20	Arr	Understand E, S & G
<ul> <li>Emerging Markets Equity</li> </ul>	100.00	26.13	6.01	10.38	9.53	Am	Risk Factor Exposures
> PAKISTAN	0.02	46.20	2.72	14.48	20.41	<u> </u>	
> ARGENTINA	0.01	45.13	23.78	11.46	9.89	Red	1.11
> PERU	0.20	39.06	11.97	15.71	11.39	Amber	1.04
> KUWAIT	0.52	34.96	2.50	15.31	17.64	Amber	0.96
> SAUDI ARABIA	2.86	34.19	10.09	11.95	/2.43	Amber	1.00
> QATAR	0.69	32.07	7.23	11.16	14.03	Amber	0.97
> RUSSIAN FEDERATION	2.84	31.51	12.08	9.57	9.91	Amber	1.00
> CZECH REPUBLIC	0.11	30.83	9.98	11.45	9.40	Amber	1.01
> BRAZIL	4.64	30.79	9.73	11.66	9.34	Amber	1.05
> INDONESIA	1.19	29.74	6.91	11.30	10.87	Amber	0.97
> TURKEY	0.28	28.85	9.13	10.81	9.45	Amber	1.00
> MALAYSIA	1.40	28.69	7.90	11.43	9.48	Amber	1.01
> HONG KONG	2.31	28.52	8.45	11.68	8.80	Amber	0.99
> POLAND	0.68	28.44	8.93	10.16	9.72	Amber	0.99
> CHILE	0.50	28.20	9.11	9.81	9.28	Amber	0.99
> COLOMBIA	0.15	27.79	7.98	11.02	8.79	Amber	0.99
> CYPRUS	0.14	27.59	7.94	7.78	4.58	Amber	0.94
> HUNGARY	0.21	27.35	3.36	12.79	11.19	Amber	0.96
> INDIA	9.36	27.12	7.08	for information10.46	9.29	Amber	1.01

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# Climate Target – Setting and Tracking

Setting targets and measuring progress against those targets is an important tenant of TCFD reporting



Carbon Intensity (tonnes CO2e) (Fund - Industry Group - Industry SubGroup - Security Name)

Terna SpA

Red Electrica Corporacion SA

Groupings	Carbon Intensity-Scope 1	Carbon Intensity-Scope 2	Carbon-Scope 1	Carbon-Scope 2	Carbon-Scope 3
Total .	243.96	72.23	5,263,334.37	1,827,052.21	4,783,396.90
> Corp HY	312.14	59.31	4,381,840.20	777,470.79	2,443,277.04
> Emerging Markets Equity	235.55	79.00	5,627,997.27	2,158,241.22	5,206,529.04
√ Global Equity Fund	121.99	37.56	3,987,828.94	1,456,537.89	7,471,605.25
> COAL	2,947.79	96.41	90,824,526.59	870,823.98	5,910,656.94
√ ELECTRIC	2,130.99	96.88	35,135,264.60	1,874,551.15	3,802,033.59
> INDEPEND POWER PRODUCER	4,627.32	23.03	49,374,379.89	455 407 00	4 700 470 00
> ELECTRIC-GENERATION	2,582.73	66.69	49,330,951.50		
> ELECTRIC-INTEGRATED	2,326.42	97.42	38,483,307.31	<ul> <li>Identify k</li> </ul>	ey areas of risk
> ELECTRIC-DISTRIBUTION	455.21	76.07	4,128,879.47	idonaly k	e, areae or nok
ELECTRIC-TRANSMISSION	43.48	371.37	161,448.94	<ul> <li>Drill down</li> </ul>	n into climate data b
Power Grid Corp Of India Ltd	146.17	0.71	733,196.75		•
Interconexion Electrica SA ES	128.55	2.40	315,727.37	geograpi	y, and individual hol

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26.06

10.28

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68,414.20

23,791.27

283,704.00

102,006.18

609.11

122.59

fund, sector,

# **Key Takeaways:**

#### **Risk Management:**

Growing interconnectedness between traditional risk factors and ESG factors

#### **Data Management:**

Now crucial to make informed decision across a multi-vendor landscape

#### **Compliance and Monitoring:**

Essential for regulatory adherence and greenwashing avoidance

#### **Carbon Management:**

Increased demand by investors to assess the climate-related risks with their portfolio

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