

Self-pace online learning program

Module 1 ESG Fundamentals

- **\$1** Session 1 Introduction to ESG
- **\$2** Session 2 ESG Management: Environment
- \$3 Session 3 ESG Management: Social
- **\$4** Session 4 ESG Management: Governance

Module 2 ESG Integration Management

- **\$1** Session 1 ESG Integration Management
- **\$2** Session 2 Integration Case Studies

M3 Module 3 ESG Disclosure

- **\$1** Session 1 ESG Disclosure
- **\$2** Session 2 Data Management
- \$3 Session 3 ESG Performance Assessment and Indices





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Module 3 ESG Disclosure
Session 3 ESG Performance Assessment and Indices



Self-pace online learning program





Module 1 FSG Fundamentals Session 1 Introduction to ESG



Module 1 ESG Fundamentals Session 2 ESG Management: Environment



M1S3

Module 1 FSG Fundamentals Session 3 ESG Management: Social



M1S4

Module 1 ESG Fundamentals Session 4 ESG Management: Governance



M2S1

Module 2 ESG Integration Management Session 1 ESG Integration Management



M2S2

Module 2 ESG Integration Management Session 2 Integration - Case Studies



M3S1

Module 3 ESG Disclosure Session 1 ESG Disclosure



M3S2

Module 3 ESG Disclosure Session 2 Data Management



M3S3

Module 3 ESG Disclosure Session 3 ESG Performance Assessment and Indices





Learning Objectives

Course Structure	Learning Objectives
Module 3 ESG Disclosure Session 3 ESG Performance As	sessment and Indices
Local ESG Assessment and Indices	Explain the fundamental concepts of ESG Development assessments and indices in the Thai capital market, such as the CGR, SET ESG Rating, and SET ESG Index. These tools are used to categorize and rank listed companies that have made strides towards business sustainability. This helps listed companies identify development gaps and provides valuable insights for investors making informed decisions about companies with strong ESG performance.
2. Global ESG Assessment and Indices	Describe the foundational concepts of international ESG assessments and indices, such as the DJSI, FTSE4GOOD, and MSCI ESG. This includes an understanding of their evaluation processes and criteria.
3. Sustainable Investment	Explain the origins and driving factors behind the growing demand for ESG products, which is motivating listed companies to enhance their ESG Development. Additionally, discuss various forms of sustainable investments, such as Green Bonds, which are debt securities raised to fund projects addressing climate change and environmental conservation.





Instructor

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Module 3 ESG Disclosure

Session 3 ESG Performance Assessment and Indices

Instructor Warangkana Pattarasen







Contents

M3S3

Module 3 ESG Disclosure

Session 3 ESG Performance Assessment and Indices

- 1. Local ESG Assessment and Indices
- 2. Global ESG Assessment and Indices
- 3. Sustainable Investment





ESG Performance Assessment

The Importance of ESG Assessment



Supports investment decision-making by evaluating risks and opportunities associated with ESG factors.

Serves as a tool for analyzing and assessing the adequacy of managing Material Issues, ensuring that companies address key sustainability challenges effectively.

Facilitates communication on the management of Material Issues that stakeholders are concerned with, helping to build confidence that the organization takes stakeholder expectations seriously





ESG Indices

The Importance of ESG Indices

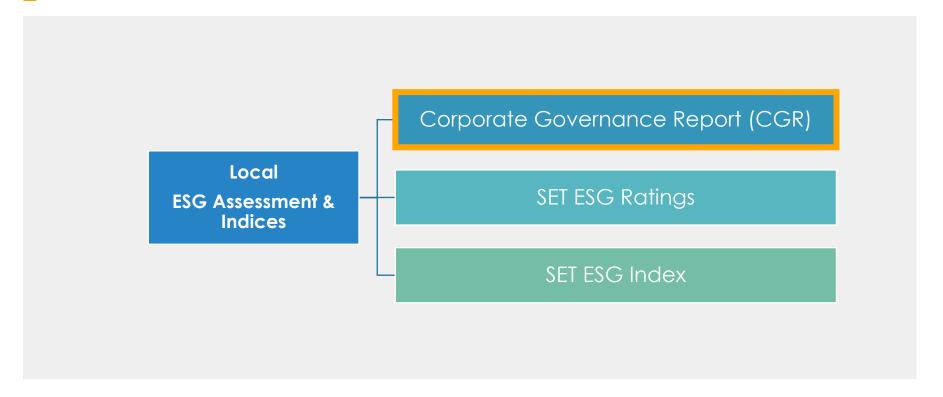
- Provides a benchmark for comparing ESG performance across companies.
- Helps investors make informed decisions on portfolio allocation by considering ESG factors.
- Tracks the performance of ESG-focused stocks, offering insights into sustainability-led business practices.
- Signals investment trends that prioritize ESG, guiding market behavior towards sustainable investments.





Local ESG Assessment and Indices

ESG Assessments and Indices in the Thai Stock Market







Corporate Governance Report (CGR)

A project survey corporate governance of listed companies

Conducted by the Thai Institute of Directors (IOD)

The objectives of the Corporate Governance Report (CGR) are as follows:

- 1. Measure and monitor the development of corporate governance (CG), including sustainability aspects related to stakeholders, society and the environment of Thai listed companies
- 2. Serve as a tool for listed companies to enhance their operation in corporate governance, social responsibility, and environmental sustainability.
- 3. Provide data for regulatory bodies to formulate policies and regulations related to corporate governance governance, social responsibility, and environmental issues.
- 4. Act as a preliminary criterion for selecting listed companies for the SET Awards and SET ESG Ratings.

















The CGR Assessment Process

Output Input **Process** IOD announces Listed companies complete the the CGR results CGR Checklist using publicly Star Total Ratings Score disclosed documents, such as: > 80 One Report 70-79 Sustainability Development Report 60 - 69IOD Conducts the Annual General Shareholders' **CGR** Assessment Meeting (AGM) Invitation Letter 50-59 AGM Minutes 40-49 Company Bylaws Corporate Governance Policy Business Ethics/Code of Conduct





Structure of the CGR Checklist Assessment (1/4)



Category 1: Shareholders' Rights and Equitable Treatment of Shareholders



Protection of Shareholders' Rights



Safeguarding and Ensuring Non-Infringement of Shareholders' Rights



Prevention of Conflicts of Interest between Directors and Executives



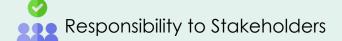


Structure of the CGR Checklist Assessment (2/4)



Category 2: Consideration of Stakeholder Roles and Sustainable Business Development







Sustainability Management in Environmental Aspects



Sustainability Management in Social Aspects







Structure of the CGR Checklist Assessment (3/4)





Disclosure of Key Information: Financial Data



Basic Business Information



Channels for Communicating Important Information to Investors





Structure of the CGR Checklist Assessment (4/4)





Board Structure



Oversight Function of the Board and its Sub-Committees



Self-Assessment of the Board and its Sub-Committees

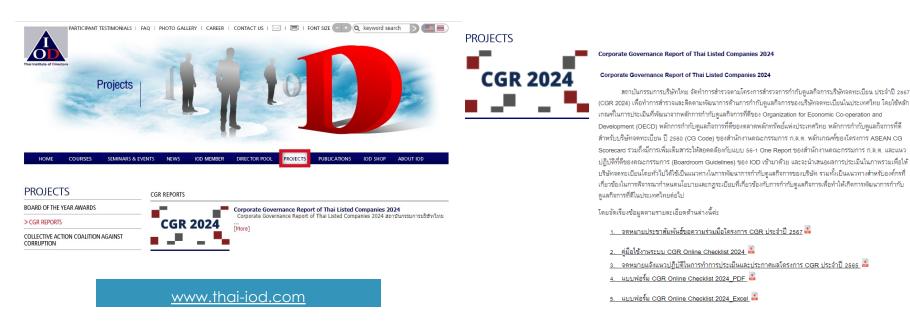


Board Development





Channels for Monitoring CG Information (1/2)

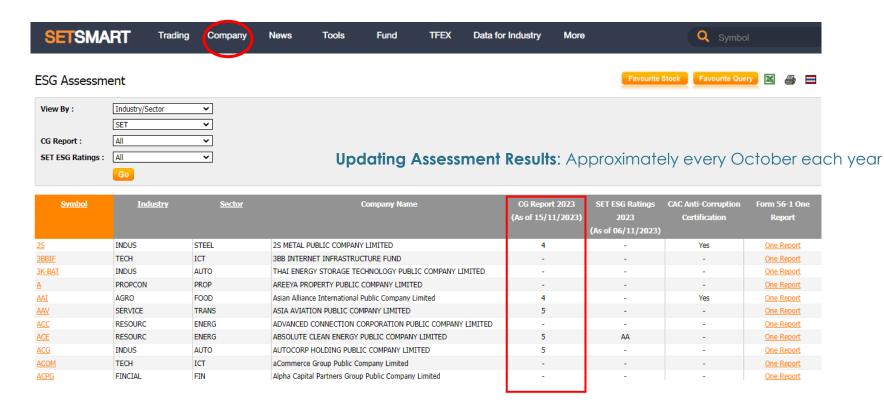


Updating Assessment Results: Approximately every October each year





Channels for Monitoring CG Information (2/2)

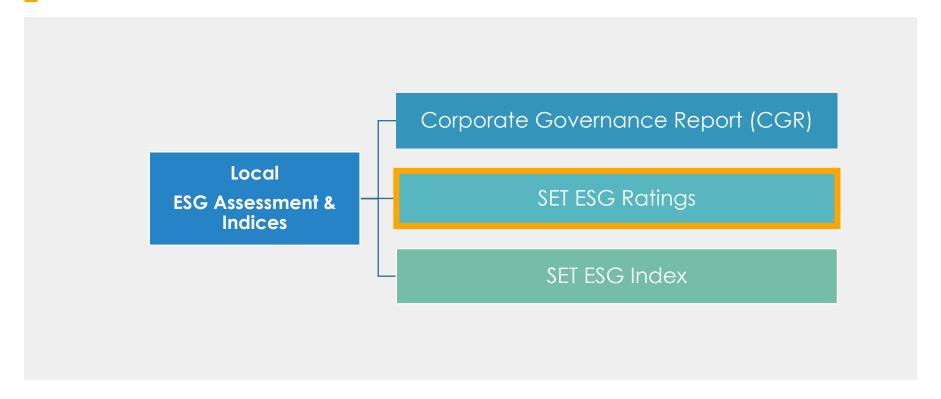






Local ESG Assessment and Indices

ESG Assessments and Indices in the Thai Stock Market









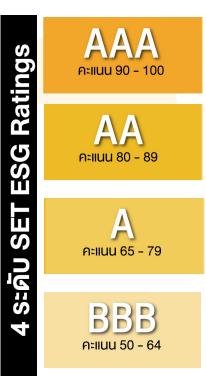
What is SET ESG Rating?

Companies listed on the Stock Exchange of Thailand (SET) and the Market for Alternative Investment (MAI) that prioritize Environmental, Social, and Governance (ESG) aspects alongside maintaining strong financial performance.



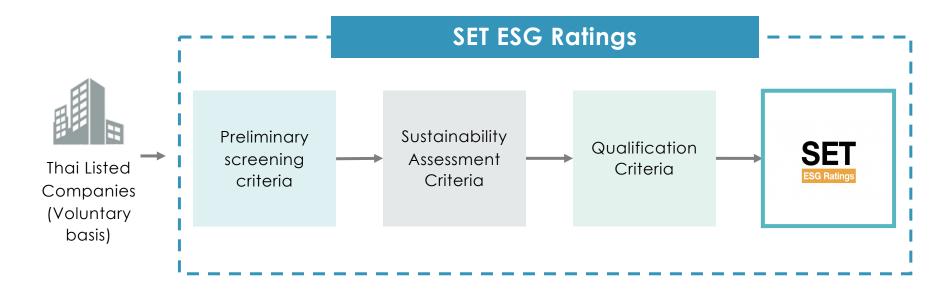
Results Announcement

Public Assessment Results Announcement: December













Preliminary Screening Criteria

The listed companies are able to participate in the sustainability assessment.

Example of Criteria:

- Must not be a company that can potentially be delisted, or in the process of requesting voluntary delisting.
- Must not be a company that Distributes shareholding (Free Float) where there are fewer than 150 shareholders or total shares of lower than 15% of paid-up capital.
- Must not be a company that has been suspended from securities trading due to a delay in the submission of its financial statement.
- Must not be a company that saw irregular securities trading behavior exhibited by its board members and executives, or must not be a company with board members and executives who have untrustworthy qualifications according to the Notification of the SEC.





Sustainability Assessment Criteria

Selected from the list of those that voluntarily responded to SET's sustainability assessment and received a score of at least one half (50%) of the total score in each dimension (Economic, environment and Social)

Example of criteria:

- Must be a company that received a score of 3 stars and above from the Corporate Governance Report (CGR)
- Must not be a company that has been accused of or formally judged as guilty by officials or relevant agencies, or whose directors or executives have been accused of or formally judged as guilty by officials or relevant agencies on matters of corporate governance and social and environmental impact.
- Must not be a company that had a proportion of shareholding below zero during the latest financial statements.
- Must not be a company that has fewer than 3 out of 5 years of reported net income, counting from the latest financial statements.
- The Sustainable Investment Committee may consider other issues relating to corporate governance and social and environmental impact in their selection of companies for SET ESG Ratings.





Framework for Assessing the Sustainability of Listed Companies

Policy



Evaluate policies that address Environmental, Social, and Governance (ESG) issues, ensuring alignment with stakeholder expectations and organizational strategies.

Process



Assess the setting of ESG targets and operational processes within normal business operations to ensure they align with established policies.

Performance



for tracking, assessing, and measuring ESG performance to ensure alignment with targets and promote continuous improvement.

Disclosure



Ensure transparent and continuous <u>disclosure</u> of ESG information to stakeholders.





Sustainability Assessment Questionnaire

- Be comprised of questions in General Questions and Industryspecific Questions covering 3 dimensions: Governance and Economic, Environmental, and Social.
- Be designed to align with the context and material issues of each of the 8 industry groups.

		Industry Group							
Dimension	Criteria	AGRO	CONSUMP	FINCIAL	SNDNI	PROPCON	RESOURC	SERVICES	ТЕСН
	Corporate Governance	•	•	•	•	•	•	•	•
	Code of Conduct and Anti-Corruption		•	•	•	•	•	•	•
	Risk and Crisis Management		•	•	•	•	•	•	•
	Materiality	•	•	•	•	•	•	•	•
Governance	Customer Relationship Management		•	•	•	•	•	•	•
and	Supply Chain Management		•	•	•	•	•	•	•
Economic	Tax Strategy		•	•	•	•	•	•	•
Leonomic	Business Innovation for Society and/or Environment		•	•	•	•	•	•	•
	IT and Information Security*			•				•	•
	Service Quality Management*							•	
	Product Quality Management*		•						
	Responsible Marketing*		•						
	Environmental Management	•	•	•	•	•	•	•	•
Environmental	Operational Eco-efficiency*		•	•	•	•		•	•
	Climate Strategy		•	•		•		•	
	Building Materials Quality*					•			
	Product Responsibility*		•		•				•
	Responsible Sourcing*								
	Water Related Risk*	•							
	Biodiversity*								

			Industry Group						
		AGRO	CONSUMP	FINCIAL	SNDNI	PROPCON	RESOURC	SERVICES	TECH
	Human Rights and Fair Labor Practices	•	•	•	•	•	•	•	(
	Human Capital Development	•	•	•	•	•	•	•	(
	Talent Attraction and Retention	•	•	•	•	•	•	•	(
	Occupational Health & Safety*	•	•	•			•	•	(
Social	Community Engagement*		•		•	•	•	•	
	Stakeholder Engagement	•	•	•	•			•	(
	Digital Inclusion*								(
	Responsible Finance and Insurance*			•					
	Financial Inclusion*								

Note: *Industry-specific questions







Display Results by Individual Company

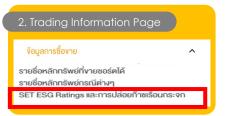




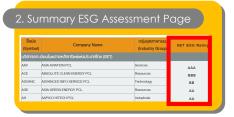


Display Results for All Companies









Note: These are examples of data display only and not actual assessment results.

SET ESG Assessment Roadmap









- Companies voluntarily complete the assessment questionnaire
- Evaluation based on Public Information + Internal Documents

SET ESG Assessment

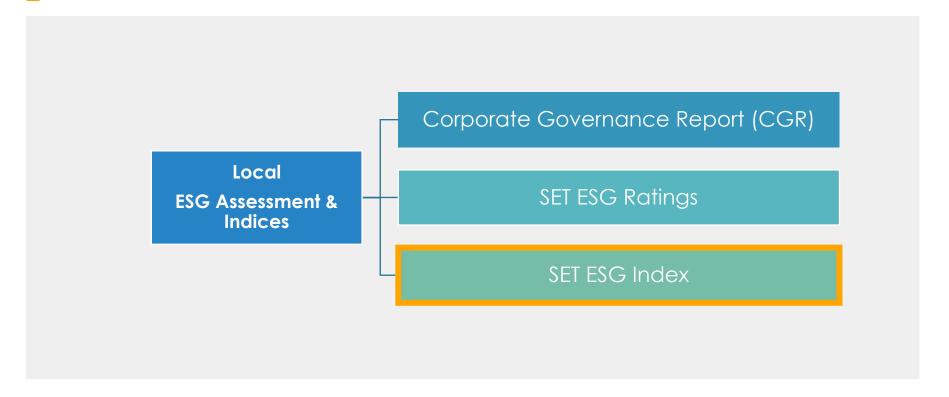
- Elevate the assessment standard from "Local" to "Global Standard".
- Enhanced visibility and recognition.
- Companies are not required to complete a questionnaire, but there will be a period for companies to review the assessment information.
- Public Info-Based Assessment.





Local ESG Assessment and Indices

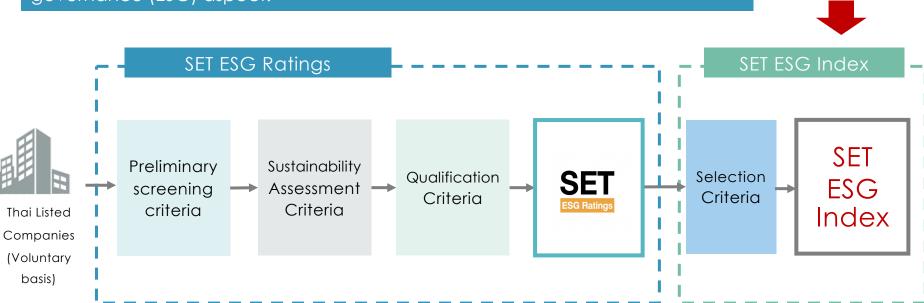
ESG Assessments and Indices in the Thai Stock Market







SET ESG Index reflects the price movement of stock of companies that have sustainable business practices which consider environmental, social and governance (ESG) aspect.







Selection Methodology

- Constituents are selected from the most recent SET ESG Ratings list prior to the index review period.
- •The minimum average daily market capitalization at 5,000 million Baht for the past 3 months
- Free Float of no less than 20% of the listed company's paid-up capital
- a monthly turnover ratio of at least 0.5% of its total listed shares for at least 9 out of the 12 months
- All stocks that have passed the above criteria will become SETESG Index constituents

Calculation Methodology

- Market capitalization-weighted
- Maximum weight cap at 5%

Stock Review & Revision

- •6-month period
- December Review: to make effect between January – June of each year
- June Review: to take effect between July – December of each year

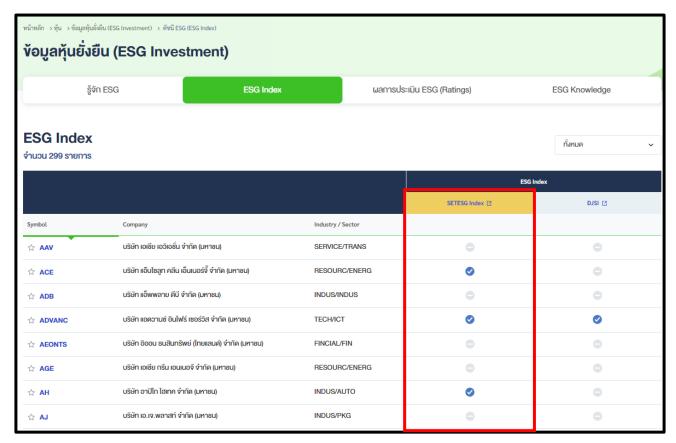
















Contents

M3S3

Module 3 ESG Disclosure

Session 3 ESG Performance Assessment and Indices

- 1. Local ESG Assessment and Indices
- 2. Global ESG Assessment and Indices
- 3. Sustainable Investment





ESG Rating Industry

Owned by stock Owned by credit Owned by financial Independents data firms markets raters ecovadis Bloomberg ISS ESG >> S&P Global Ratings RepRisk REFINITIV -Sustainable Fitch SUSTAINALYTICS Moody's MSCI (JUST capital. FTSE4Good **ESG Solutions**





Global ESG Assessment and Indices

ESG Rating Industry

Agency	Scoring	Access	# Companies	Updated	Methodology	
Bloomberg	100 to 0	\$	11,800+	DAY		
CDP DEFINANCE ECONOMES	A to D-		9,600+	YEAR		
FTSE	5 to 0	\$	7,200+	YEAR		
ISS⊳	A to D-	()	7,300+	DAY		
MSCI 🛞	AAA to CCC		14,000+	YEAR		

REFINITIV	Agency	Scoring	Access	# Companies	Updated	Methodolo	ogy
RepRisk S&P Global Ratings 100 to 0	REFINITIV =	100 to 0		9,000+	WEEK		
		AAA to D	\$	207,000+			0-0
0 to 40+		100 to 0		10,000+			ů.
SUSTAINALYTICS UTU W	SUSTAINALYTICS	0 to 40+		13,000+	YEAR		

















Comparison of the 3 Main Indices

S&P Global

MSCI (





Used globally by companies for performance evaluation and by investors for analysis

Utilized globally by investors for analysis

Utilized globally by investors for analysis



Assessment

Focuses on ESG performance

Focuses on ESG risk management Focuses on ESG performance



Companies can be invited to join or request to participate if not invited

Companies in the universe are automatically assessed and cannot request to join

Companies in the universe are automatically assessed and cannot request to join



Assessed using internal documents or publicly disclosed information

Assessed using publicly disclosed documents only

Assessed using publicly disclosed documents only





S&P Global Corporate Sustainability Assessment

S&P Global

- Companies will be invited to participate in the CSA each year.
- Companies are invited for the CSA for potential inclusion in the <u>Dow Jones Sustainability Indices (DJSI)</u>, as well as other S&P ESG indices.

DJSI Index Family

Classified by Country Group	Classified by Region		Classified by Country	
DJ\$I World	DJSI North America	DJSI Europe	DJSI Australia	DJSI Korea
DJSI Emerging Markets	DJSI Asia Pacific	DJSI MILA Pacific Alliance	DJSI Chile	

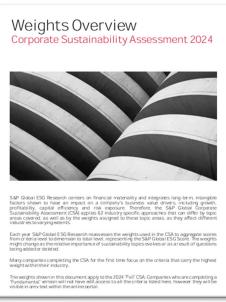




S&P Global Corporate Sustainability Assessment

S&P Global





62 Industry-specific questionnaires 23 sustainability topics 110 Questions

- Scores are ranged from 0 to 100 and percentile rankings.
- The ESG Scores are published on S&P Global professional platforms and scores are available on the ESG Scores website.





S&P Global: Criteria

S&P Global



Economic

- Corporate Governance
- Materiality
- Risk & Crisis Management
- · Code of Business Conduct
- Policy Influence
- Customer Relationship Management
- · Supply Chain Management
- Privacy Protection
- Information Security,
 Cybersecurity & System Availability
- · Brand Management
- Innovation Management
- Tax Strategy
- Market Opportunity
- Product Quality and Recall Management
- Marketing Practices
- · Health and Nutrition



Social

- Social Reporting
- Labor Practice Indicators
- Human Rights
- · Human Capital Development
- Talent Attraction and Retention
- Corporate Citizenship and Philanthropy
- Occupational Health and Safety
- Stakeholder Engagement
- Social Integration & Regeneration
- Partnerships Towards Sustainable Healthcare
- · Living Wage



Environmental

- Environmental Reporting
- Environmental Policy & Management Systems
- Operational Eco-Efficiency
- Climate Strategy
- · Water Related Risks
- GMO

Specific

- Sustainable Agricultural Practices
- Biodiversity
- Electricity Generation
- Transmission & Distribution
- Building Materials
- Resource Conservation & Resource Efficiency
- Packaging
- · Food Loss & Waste



General



pecific



MSCI ESG Indexes

MSCI ESG Indexes

MSCI ESG Leaders Index

MSCI ESG Universal Index

MSCI ESG Focus Index MSCI Low Carbon, Climate Change Index

MSCI ESG Screened ex Fossil Fuel, Faith based Index MSCI Global Environmental, Women's Leadership Impact Index

MSCI SRI, KLD400 Index





MSCI ESG: Criteria





Governance

- Ownership & Control
- Board
- Pay
- · Accounting

Sorporate

Corporate Sovernance

- Business Ethics
- Tax Transparency

Social · Labor Management Theme · Health & Safety • Human Capital Development Supply Chain Labor Standards • Product Safety & Quality Chemical Safety • Financial Product Safety • Privacy & Data Security • Responsible Investment Health & Demographic Risk Controversial Sourcing Community Relations Access to Communications Access to Finance Access to Health Care Opportunities in Nutrition & Health



Environmental

- Carbon Emissions
- Product Carbon Footprint
- Financing Environmental Impact
- Climate Change Vulnerability
- Water Stress

Theme

Climate Change

- Biodiversity & Land Use
- Raw Material Sourcing
- · Toxic Emissions & Waste
- · Packaging Material & Waste
- · Electronic Waste
- Opportunities in Clean Tech
- · Opportunities in Green Building
- Opportunities in Renewable Energy





FTSE4Good Indexes



FTSE	FCC	
	F \ (-	AVAC

Classified by Country Group

FTSE4Good Developed

FTSE4Good Emerging Indexes FTSE4Good Developed Minimum Variance Index

> FTSE4Good All-World Index

Classified by Region

FTSE4Good Developed Asia Pacific Index

> FTSE4Good Europe Index

FTSE4Good North America Index

Classified by Country

FTSE4Good UK Index

FTSE4Good USA Index

FTSE4Good Japan Index

In Collaboration with Exchanges

FTSE4Good ASEAN 5 Index

FTSE4Good Bursa Malaysia Index

> FTSE4Good BIVA Index

FTSE4Good TIP Taiwan ESG Index

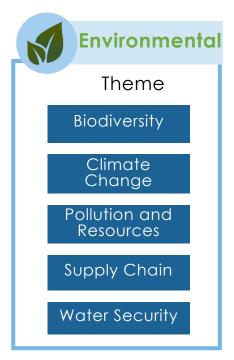




FTSE4Good Assessment Criteria











FTSE4Good Assessment Criteria

settrade ESG Scores by Third Party



ข้อมูลคะแนน ESG

โดย Third Party

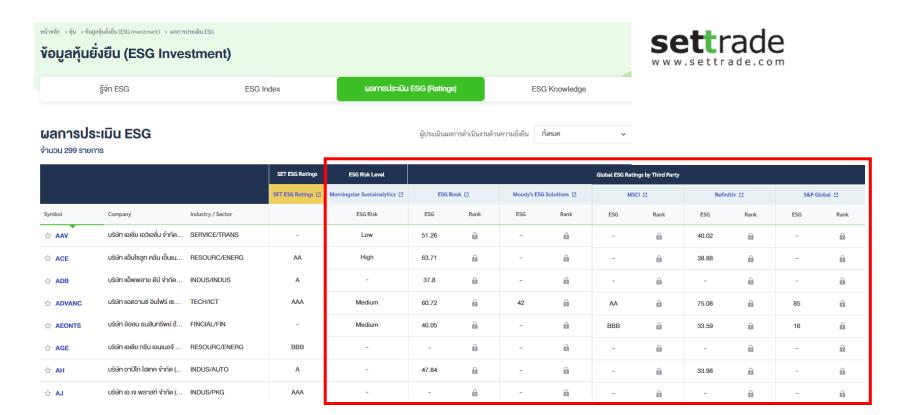
ข้อมูลจากผู้ประเมินผลการดำเนินงานด้านความยั่งยืนระดับโลกที่เป็นพันธมิตรของตลาดหลักทรัพย์ฯ ในปัจจุบัน

- 1. MSCI (ผลประเมินตั้งแต่ CCC ถึง AAA)
- 2. ESG Book (ผลประเมิน 0-100 คะแนน)
- 3. Refinitiv (ผลประเมิน 0-100 คะแนน)
- 4. S&P Global (ผลประเมิน 0-100 คะแนน)
- 5. Moody's ESG Solutions (ผลประเมิน 0-100 คะแนน)





ESG Assessment Results Published on www.SETTRADE.com







Contents

M3S3

Module 3 ESG Disclosure

Session 3 ESG Performance Assessment and Indices

- 1. Local ESG Assessment and Indices
- 2. Global ESG Assessment and Indices
- 3. Sustainable Investment





"Sustainable investment" refers to an investment approach that considers not only financial returns but also the environmental, social, and governance (ESG) impact of investment decisions.

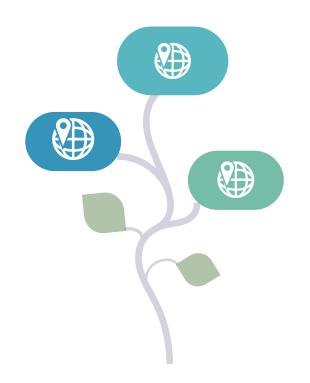
This strategy seeks to generate long-term financial returns while also promoting positive outcomes for society and the planet.

Sustainable investment involves integrating ESG criteria into the investment analysis and decision-making process, aiming to support businesses and projects that contribute to a more sustainable and equitable world.





Origin of the Sustainable Investment Trend



The World is Changing

Macro sustainability challenges, rising complexity, accelerating pace of change, Rising business standards

Investors are Changing

Shifting investor preferences, demographics change, rising investor expectations

Data & Analytics are Evolving

Possible to measure what was previously unmeasurable





Sustainable Investment Concepts

PHILANTHROPY CONVENTIONAL **SOCIAL, RESPONSIBLE & ETHICAL INVESTMENT INVESTMENT INVESTMENT NEGATIVE/ POSITIVE OR** ESG **IMPACT** THEMATIC **EXCLUSIONARY BEST-IN-CLASS** INTEGRATION **INVESTING INVESTMENT SCREENING SCREENING Donations** Investment made to Investing in Businesses that Improve Avoid investing in Considerina ESG Screening for and Investing in FOCUS Focused Solely Society and the Environment support projects industries or Factors Alongside Selecting Business Sustainabilityon Financial businesses with Other Investment with Outstandina or businesses Themed **CONCESSIONARY RATE** MARKET RATE negative social or **ESG** Performance Criteria **Returns Without** Businesses or with positive **Expect financial** environmental Expect financial **Industries** Considering social or impacts returns equal to returns lower than Sustainability environmental market returns market returns Example: Use ESG Example: Invest in Example: Invest in Example: Exclude Factors impact, without factors as criteria in companies with strong renewable energy investments in Example: Invest in startups developing expecting ESG performance that tandem with financial businesses or industries such as advanced agricultural technology to results when selecting weapons, tobacco, are ranked or included electric vehicle financial returns ATTENTION combat drought or SMEs that support investments alcohol, or casinos in sustainable stock (EV) companies iob creation in remote communities indices **IMPACT ALPHA OR FINANCIAL RETURNS**





CONTRIBUTE TO SOLUTIONS

Misunderstandings About Sustainable Investment

- 1. A Short-Term Trend
- 2. Low returns
- Limited Investment Options
- 4. Complex and Difficult To Understand

- Sustainable investing has been gaining attention for over 50 years
- The size of Assets Under Management (AUM) and investment flows that consider sustainability have continuously increased
- New generations of investors place greater importance on sustainable investing





Misunderstandings About Sustainable Investment

- 1. A Short-Term Trend
- 2. Low returns
- 3. Limited Investment Options
- 4. Complex and Difficult To Understand

 Mutual funds that consider sustainability factors provide returns similar to those of funds that do not consider sustainability, both in the short and long term.





Misunderstandings About Sustainable Investment

- 1. A Short-Term Trend
- 2. Low returns
- 3. Limited Investment Options
- 4. Complex and Difficult To Understand

- A variety of sustainable investment products are available
- Sustainable Stocks and Indices
- Sustainable Mutual Funds
- Green / Social / Sustainability Bond





Misunderstandings About Sustainable Investment

- 1. A Short-Term Trend
- 2. Low returns
- Limited Investment Options
- 4. Complex and Difficult To Understand

- Listed companies are increasingly disclosing sustainability information to aid investor decision-making
- Numerous data providers globally collect and aggregate sustainability information for investors
- Hundreds of rating agencies worldwide assess sustainability data to assist investors in analysis and decisionmaking





Sustainable Investment Key Takeaways

Why sustainable investment is considered a good strategy?

- Financial Benefits: Achieve strong financial returns in the short and long-term
- Manage Risk: Integrating ESG criteria helps identify potential risks that traditional financial analysis might overlook.
- Value-Based Investing: Sustainable investing allows individuals to align their investment portfolios with their personal values and ethical beliefs.
- Value Creation: Driving up the value of companies with strong ESG practices
- Positive Impact: Sustainable investments contribute to positive social outcomes such as improved labor practices, enhanced community development, and better access to essential services.
- Enhanced Engagement: Investors in sustainable investing often engage more actively with the companies they invest in, advocating for improved ESG practices and greater transparency.





Key Takeaways

- 1. ESG assessments serve as a benchmark for evaluating and comparing corporate ESG performance, facilitating enhancements in governance, environmental, and social practices to provide investors with crucial data for informed, sustainable investment decisions.
- 2. ESG assessment outcomes are integral to the construction of ESG indices, which serve as benchmarks for measuring corporate performance within specific ESG indices.
- The selection of ESG assessment outcomes and indices should be aligned with the objectives and requirements of users and investors, ensuring they meet the needs of sustainable investment strategies.





