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GB-TAP Green Bond Technical Assistance Program

IFC International Finance Corporation  
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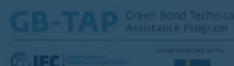
INTRODUCTION TO

# THAILAND TAXONOMY





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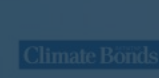
Part 1

# Introduction

# THAILAND

# TAXONOMY





## Objective of the E-Learning Video

This e-learning video is designed to provide learners with a clear and engaging introduction to the Thailand Taxonomy, a foundational tool for guiding sustainable finance in the country. The video aims to build understanding of why sustainable finance matters globally, and how Thailand's climate commitments and development goals shape its need for a national taxonomy.

Learners will explore what the Thailand Taxonomy is, its core objectives, and the principles—such as the traffic light system, substantial contribution criteria, and safeguards like Do No Significant Harm (DNSH) and Minimum Social Safeguards (MSS).

Finally, the video will show who can use the taxonomy, how it can be applied, and the key benefits it offers for businesses, investors, financial institutions and public sector working toward a low-carbon and sustainable Thai economy.



## In this E-learning, you will learn ...

### Setting the Stage

- Why Sustainable Finance?
- Green Taxonomy:  
What Is It and Why It Matters

### Thailand Taxonomy

- Thailand's Commitment & Context
- Foundational Principles Guiding  
the Thailand Taxonomy

### Using the Taxonomy & Benefits

- Thailand Taxonomy applications
- Advantages of Adopting the  
Taxonomy
- Case study

### Summary: Key Takeaways

## Part 2

# Setting the Stage



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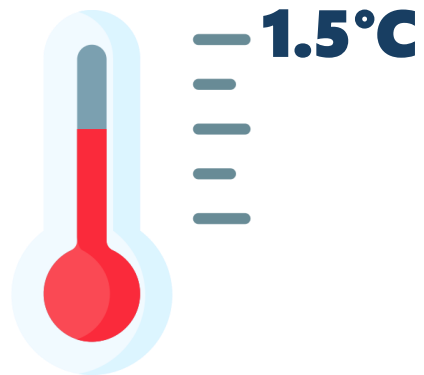
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# Why Sustainable Finance?

## Background

### PARIS AGREEMENT GOALS

#### MITIGATION



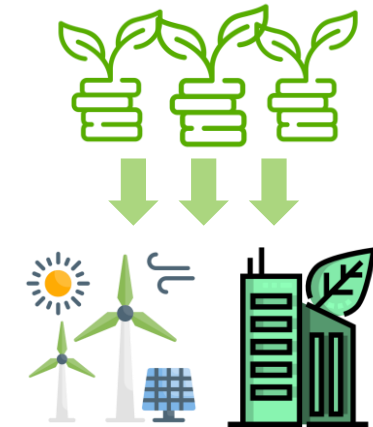
Hold the increase in the global average temperature to well below 2°C above pre-industrial levels and pursue efforts “to limit the temperature increase to 1.5°C above pre-industrial levels.”

#### ADAPTATION



Increase the ability to adapt to the adverse impacts of climate change and foster climate resilience.

#### CLIMATE FINANCE



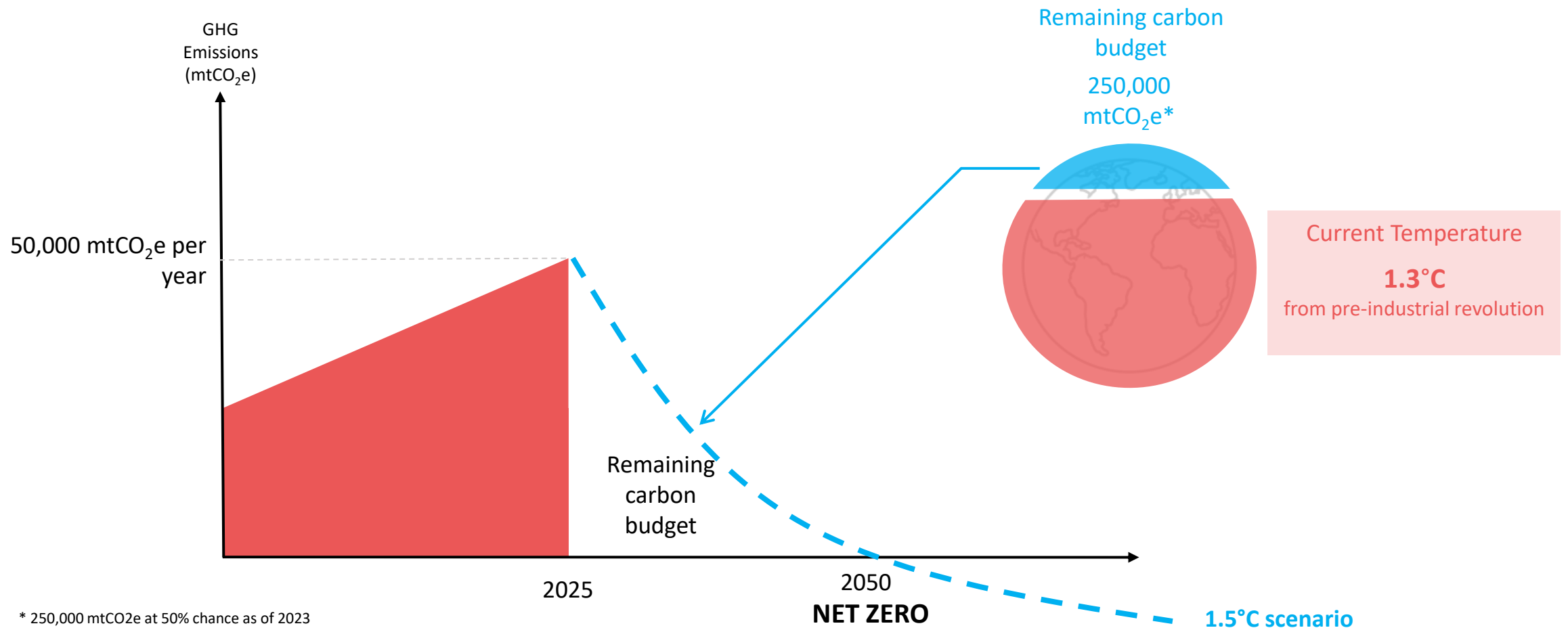
Make finance flows consistent with a pathways towards low greenhouse gas emissions and climate-resilient development.





## World's Carbon Budget for 1.5 C Limit Down to ~5 Years on Current Emission Rates!

We must reduce our GHG emissions to reach Net Zero no later than 2050 to Limit Global Warming to 1.5°C.



\* 250,000  $\text{mtCO}_2\text{e}$  at 50% chance as of 2023  
(<https://essd.copernicus.org/articles/15/2295/2023/#section8>)



## Global Shift towards Sustainability Requires Instruments to Unlock Sustainable Finance

### Unsustainable Activities

Fossil based Energy

Coal-fired Power plant

Internal Combustion Vehicles

Low efficient Buildings

High Polluted practices

### Instruments to unlock Sustainable Finance

1.Economic instruments

2.Financial instruments

3.Financial regulations

4.Information instruments

### Sustainable Activities

Clean Energy

Clean Transport

Manufacturing  
(Industrial Process )

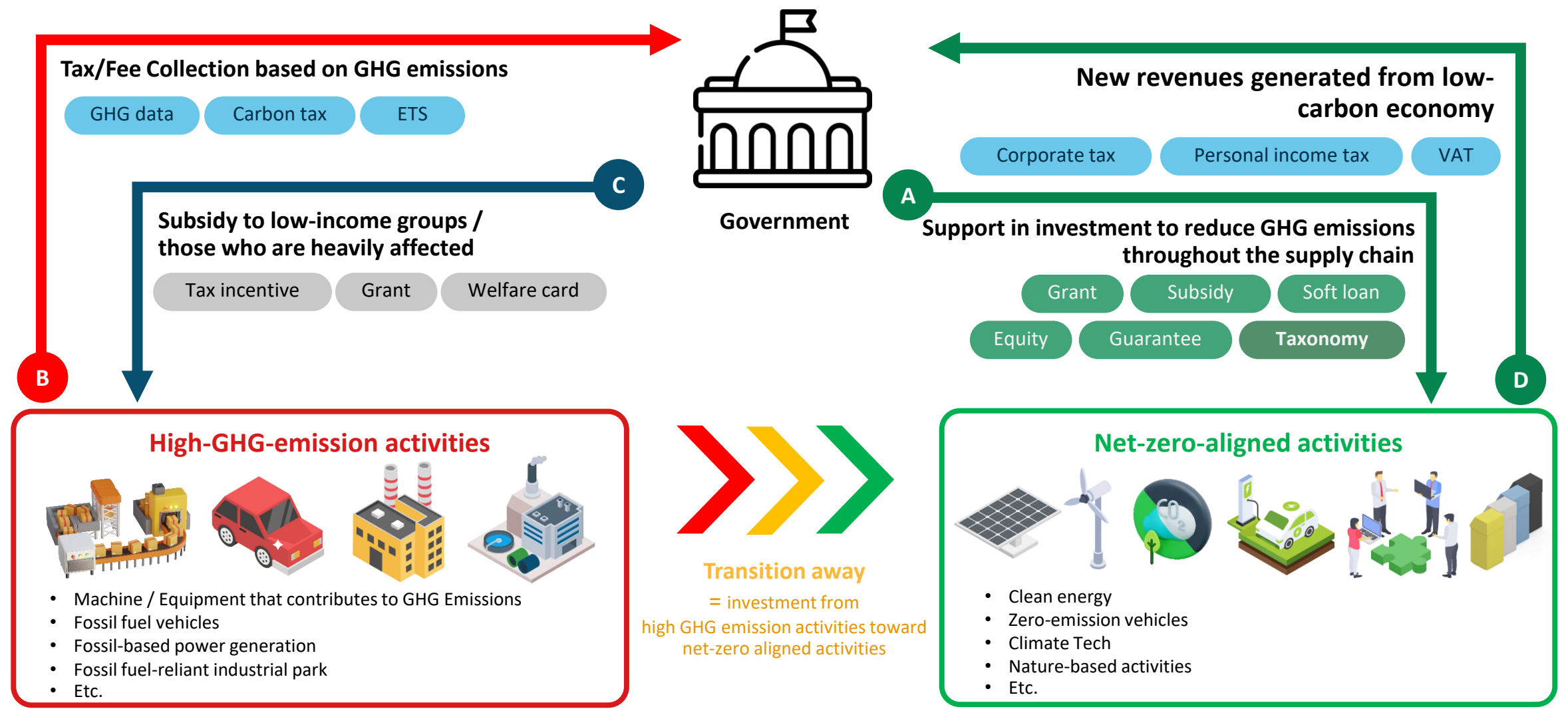
Green Building &  
Real Estate

Sustainable Waste

Agriculture

Forestry

# The Transition to a Sustainable and Low-Carbon Economy and Society





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# Green Taxonomy: What Is It and Why It Matters





**Green Taxonomy** is one of the information instruments to provide a common language when investing in project & economic activities that have substantial impacts on climate and environment

### Information Instruments

Labelling	<b>Green Taxonomy</b>
Standards (e.g GHG protocol)	Risk assessment
Certification (e.g. ISO 14001 )	Disclosure (e.g. CDP, TCFD)
Handbook & Guidelines	Awareness campaigns

### Financial Instruments

Grant & Subsidy	Equity
Loan/Bond	Credit Guarantee
Insurance	

### Economic & Fiscal Instruments

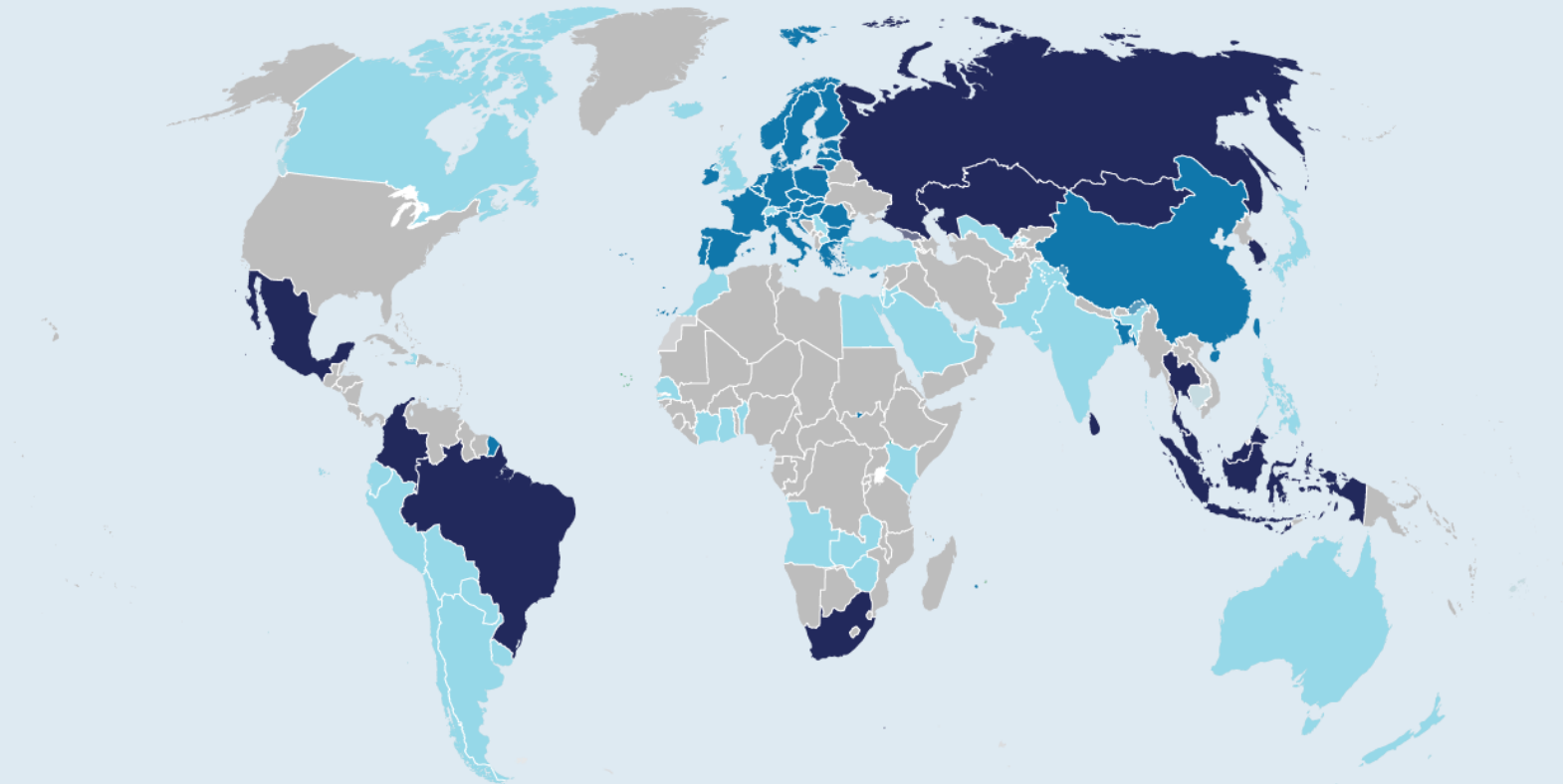
Carbon Tax	Emission Trading System (ETS)
Carbon credits	User charges / Certificates (e.g. CBAM)
Procurement rules	Guaranteed revenue (e.g. Feed-in-tariff)
Minimum standards	Tax relief

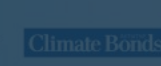
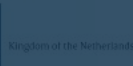
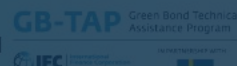
### Financial Regulations

Reporting requirement
Disclosure requirement (e.g. one report, IFRS S2)
Accounting systems
Lending/ bond/ insurance requirements

## Increase number of countries covered by Green Taxonomies or Sustainable Bond Frameworks

- No taxonomy/framework/guidelines
- Mandatory green/sustainable finance taxonomy
- Green/sustainable bond framework
- Voluntary green/sustainable finance taxonomy





Part 3

# Thailand Taxonomy

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# Thailand's Commitment & Context



Kingdom of the Netherlands



# Thailand Roadmap to Net-Zero Emission

**2030**

30-40% GHG Reduction compared to BAU



**2065**

Net-Zero Emission

**2050**

Carbon Neutrality



Climate Change Act &  
Thailand Taxonomy  
Development

**2023-2025**

**2022**

Thailand's commitment on GHG targets at COP26



Climate finance flows need to grow at least 5-10x per year for funding the transition towards net-zero economy\*



\*Creagy estimates that Thailand requires to invest around 5,000 - 7,000 billion THB to meet its NDC commitments during the year 2021-2030.



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# Foundational Principles Guiding the Thailand Taxonomy

- Substantial Contribution & Traffic light system
- Do No Significant Harm (DNSH) & Minimum Social Safeguards (MSS)
- Compliance decision tree



## Thailand Taxonomy Development Principles

Based on G20 principles and in order to be credible, interoperable and usable, it is suggested that the **Thailand Taxonomy** should be built up on the following **premises**:

### 1. Science-based

Based on up-to-date climate science

### 2. Interoperable

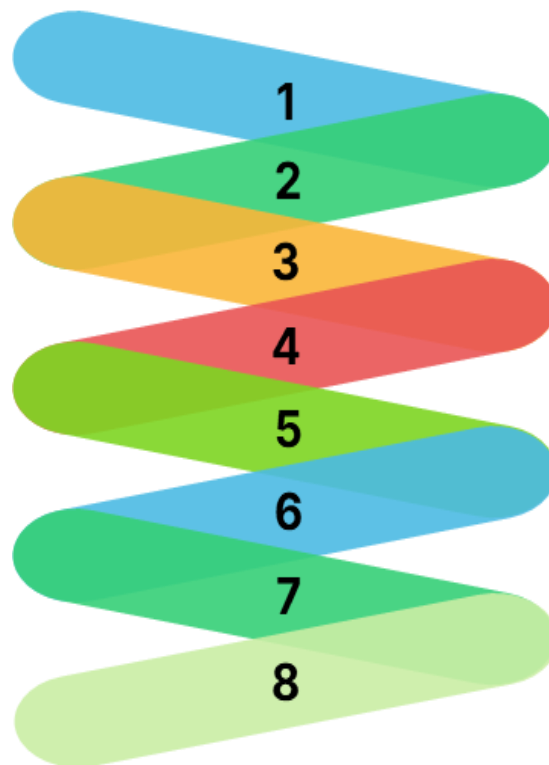
Interoperable with as many other taxonomies as possible in order to serve the purpose of attracting international capital

### 3. Clear and transparent

Separates activities that help the climate from the activities that worsen it

### 4. Simple and usable

The criteria for applying the taxonomy to the real economy is as simple and straightforward as possible



### 5. Comprehensive

Covers a maximum of climate-material activities, preferably those responsible for at least 75% of the country's total emissions

### 6. Multipurpose

The fight against climate change is a complex multi-level process, the taxonomy strives to contribute to it in every possible way

### 7. Transition-friendly

Provides paths to decarbonisation for hard-to-abate sectors of the economy

### 8. Locally applicable

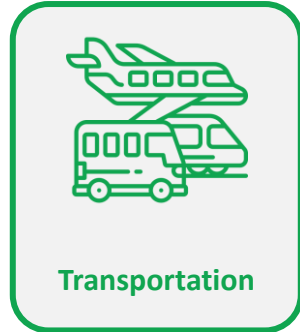
Relevant in the place for which it is developed

# THAILAND TAXONOMY

A classification system that defines specific criteria for economic activities in Thailand, covering 6 sectors, to be considered environmentally sustainable, aiming to guide investment and support Thailand's transition towards a low-carbon and sustainable economy.



Energy



Transportation



Agriculture



Construction & Real Estate



Manufacturing



Waste Management

- ✓ Science-based
- ✓ Leverage existing work
- ✓ Consider Thai Context in amber activities
- ✓ Dynamic
- ✓ Living document

## 1. Substantially contribute

To at least one of the six environmental objectives

## 2. Do No Significant Harm (DNSH)

To any of the other five environmental objectives that are material

Comply with

## 3. Minimum Social Safeguards (MSS)

EO1 - Climate change mitigation

EO2 - Climate change adaptation

EO3 - Sustainable use and protection of marine and water resources

EO4 - Promotion of resource resilience and transition to a circular economy

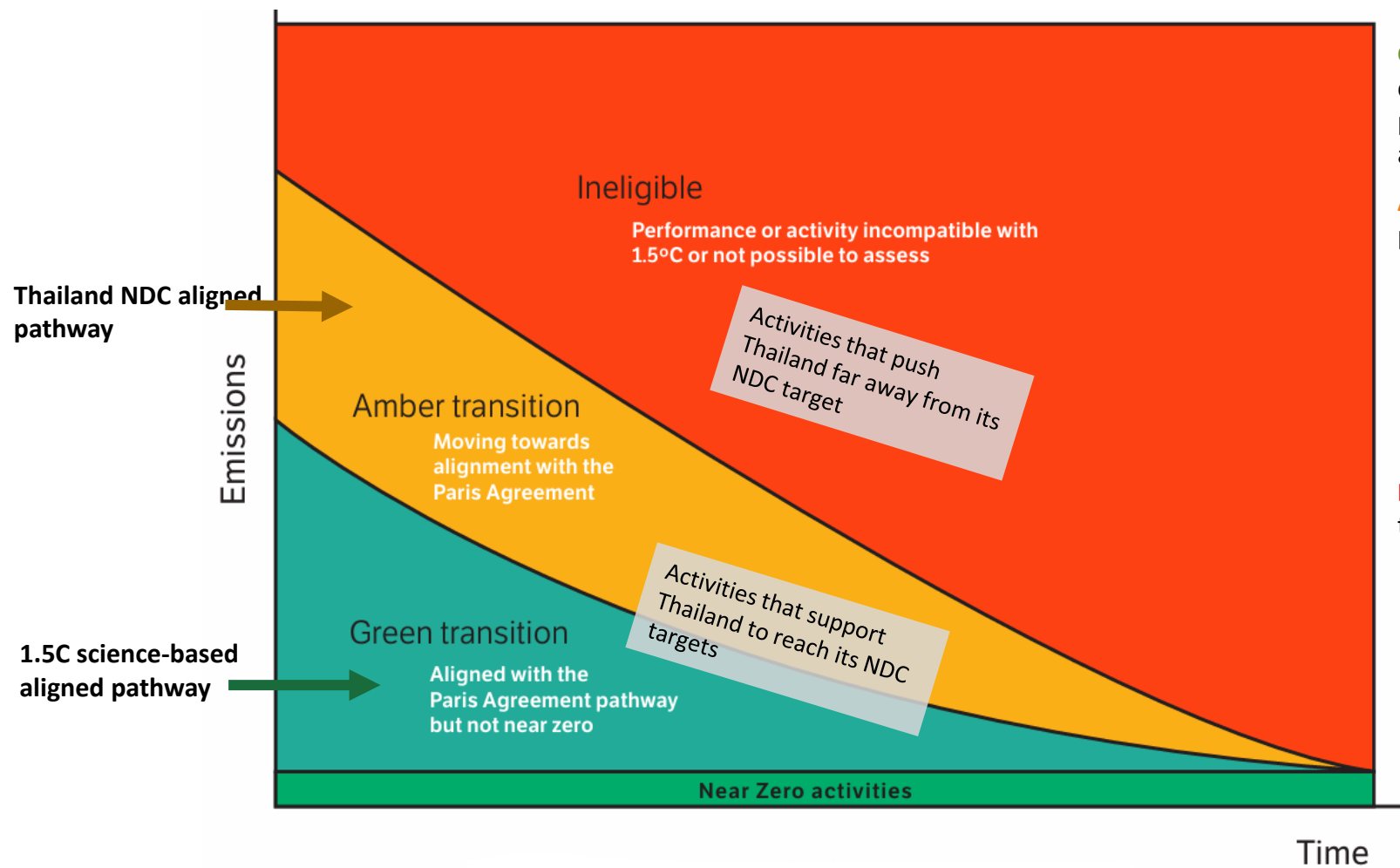
EO5 - Pollution prevention and control

EO6 - Protection and restoration of biodiversity and ecosystems

The owner of the activity must adhere to the relevant Thai regulatory framework and policies, relevant internationally recognised principles and conventions and have a social management system in place.



## Traffic lights system of Thailand Taxonomy





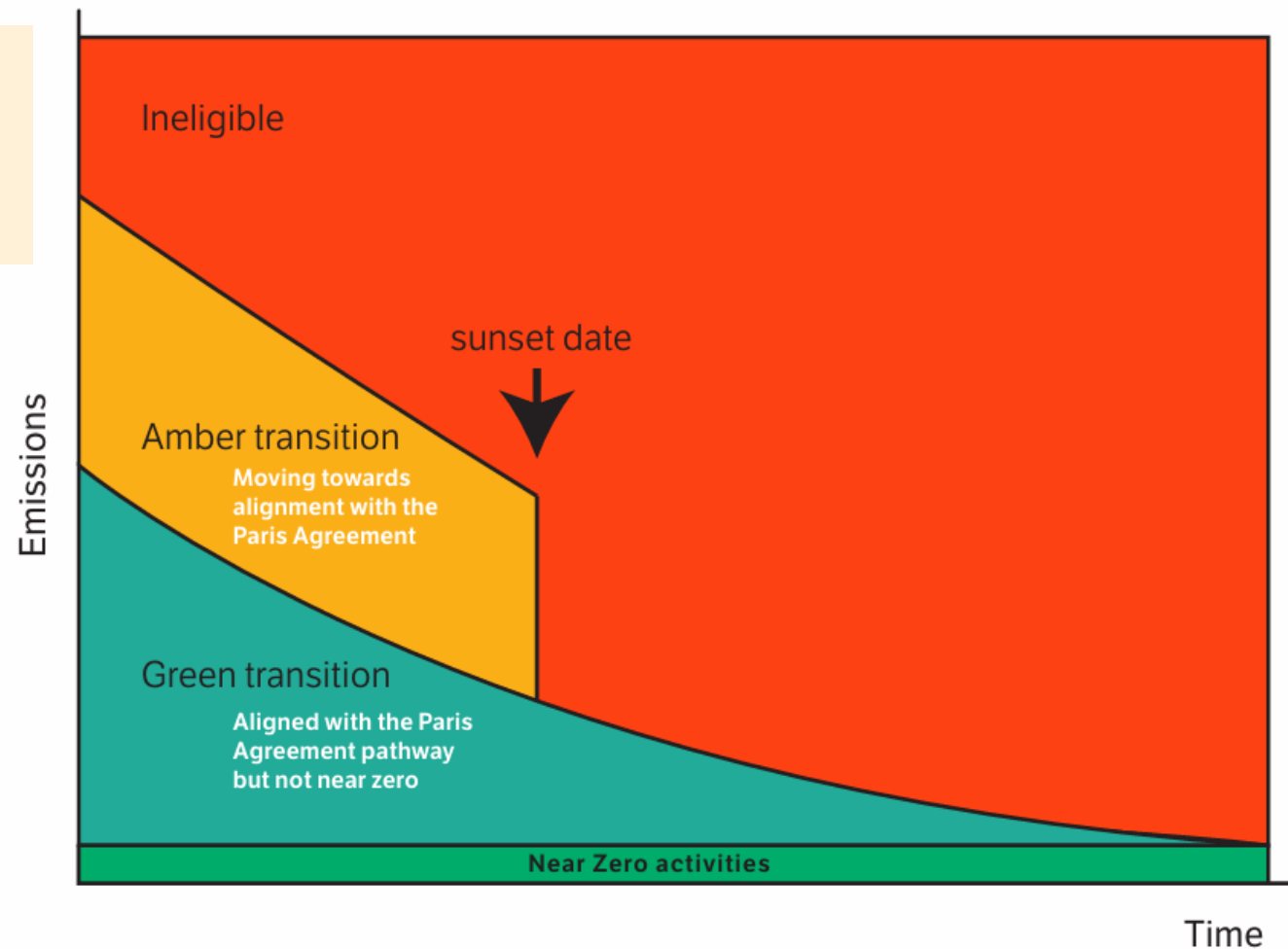
## Traffic lights system of Thailand Taxonomy

with sunset date

- New assets/projects/activities: all new projects must comply with green criteria
- Amber criteria are available for the transition of existing projects only
- For some activities, there will be no amber threshold

### Sunset date of Amber Transition

- A transition cannot last indefinitely – at some point in time, **the amber activity should be following a 1.5°C pathway to net zero.**
- The **Amber criteria have a sunset date (2040) to ensure that transition does not last forever** and that the thresholds facilitate movement towards green.
- Transition requires change over time

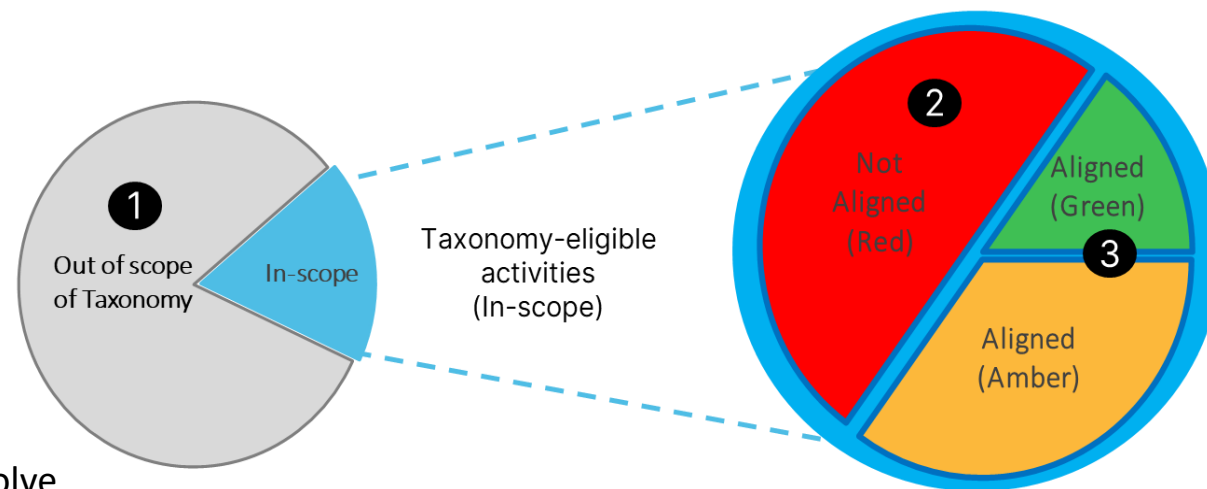






## Classification and Application of Activities under Taxonomy

- 1. Out-of-scope activities (Grey):** These activities are not currently included within the taxonomy but may be considered in the future. Typically, these activities have a minimal impact on climate and the environment.
- 2. Not-aligned activities (Red):** These activities are not currently compatible with net-zero trajectory nor aligned with national's climate and the environment plans and policies. Although these activities are harmful to the environment or climate, there is no obligation on investors to not invest in these activities.
- 3. Taxonomy-aligned activities:**
  - Taxonomy-aligned green activity (Green):** Activities already at or near net-zero emissions, *or* they have a clear 1.5 C aligned decarbonisation pathway.
  - Taxonomy-aligned amber activity (Amber):** Activities that
    - 1) entail relatively high emissions but facilitating significant emissions reductions in the short term, *or*
    - 2) enabling other green activities, even though they are not green themselves, *or* 3) involve a local context and are considered aligned with national plans and policies.





## Selection of the activities for the inclusion into the Taxonomy

The Taxonomy is structured and designed to improve the ecological and climate credentials of the economy, and activities within each sector are selected on the basis of the following:

1

**Environmental  
Materiality**

2

**Technology  
Feasibility**

3

**Economic  
Materiality**

of certain activities is provided in the report for information purposes, but it is not the main reason for activities selection.

4

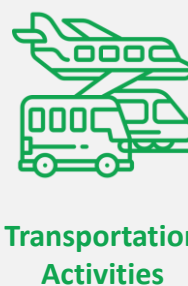
**Align with  
Other Taxonomies**  
(inclusion into other taxonomies)

### Remark:

- Climate-material activities are selected based on the International Standard Industrial Classification of All Economic Activities (ISIC)(Rev. 4) classification system.



- 4.1.1. Solar energy generation
- 4.1.2. Wind energy generation
- 4.1.3. Hydropower generation
- 4.1.4. Geothermal power generation
- 4.1.5. Bioenergy generation and production
- 4.1.6. Energy production from natural gas
- 4.1.7. Marine energy generation
- 4.1.8 Electricity generation from renewable non-fossil gaseous and liquid fuels, including low-carbon hydrogen
- 4.1.9. Cogeneration of heating/cooling and power using renewable sources of energy
- 4.1.10. Production of heating and cooling using waste heat
- 4.1.11. Installation and operation of electric heat pumps
- 4.1.12. Heating and cooling distribution
- 4.1.13. Transmission and distribution networks for renewable and low-carbon gases, including low-carbon hydrogen
- 4.1.14. Storage of electricity, thermal energy and low-carbon hydrogen
- 4.1.15. Transmission and distribution of electricity



- 4.2.1. Transport via railways
- 4.2.2. Other passenger land transport
- 4.2.3. Urban and suburban passenger land transport
- 4.2.4. Freight transport by road
- 4.2.5. Enabling infrastructure for low-emission transport
- 4.2.6. Sea and coastal water transport
- 4.2.7. Inland water transport
- 4.2.8. Retrofitting of sea and coastal freight and passenger water transport
- 4.2.9. Passenger and freight aircrafts



## Agriculture activities

### Forestry activities

1. Sustainable forest management
2. Forestry plantation
3. Conservation, restoration, and maintenance of natural forests

### Agricultural practices

1. General perennial or non-perennial crops
2. Sustainable rice production
3. Sustainable sugarcane production
4. Sustainable oil palm production
5. Sustainable rubber trees production
6. Sustainable cassava production
7. Livestock production
8. Sustainable aquaculture production



## Construction & Real Estate Activities

1. Construction of new buildings
2. Renovation of existing buildings
3. Acquisition or ownership of buildings
4. Installation, maintenance, and repair of special-purpose building equipment
5. Demolition and site preparation
6. Early Warning System

**Manufacturing  
Activities****Hard-to-Abate Activities**

1. Manufacture of basic chemicals
2. Manufacture of cement
3. Manufacture of basic iron and steel
4. Manufacture of aluminum
5. Manufacture of hydrogen

**Interim activities**

Manufacture of plastics in primary form

**Enabling activities**

1. Manufacture of batteries
2. Manufacture of renewable energy technologies
3. Manufacture of low-carbon technologies for transport
4. Manufacture of energy efficiency equipment for buildings
5. Manufacture of other low-carbon technologies

**CCS/CCUS-Related Activities**

1. CCS/CCUS: Point-source capture of CO<sub>2</sub>
2. Transportation of captured CO<sub>2</sub>
3. Permanent sequestration of captured CO<sub>2</sub>
4. Utilisation of captured CO<sub>2</sub>

**Auxiliary transitional activity**

Introduction of energy efficiency and decarbonisation measures in manufacturing activities not specified in the Thailand Taxonomy





## Waste Management

1. Anaerobic digestion of bio-waste or wastewater
2. Composting of bio-waste
3. Collection and transport of waste
4. Depollution and dismantling of end-of-life products
5. Waste to energy
6. Landfill gas capture and utilisation
7. Remediation of contaminated sites and areas
8. Remediation of legally non-conforming landfills and abandoned or illegal waste dumps
9. Sorting and material recovery from non-hazardous waste
10. Treatment of hazardous waste
11. Construction, extension, upgrade, operation and renewal of decentralised wastewater collection and treatment
12. Construction, extension, upgrade, and operation of centralised wastewater collection and treatment
13. Renewal of centralised wastewater collection and treatment

## Part 4

# Using the Taxonomy & Benefits



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## Examples of a wide range of Thailand Taxonomy applications



### Corporate Reporting & Strategy

- **Sustainability Reporting:** Companies can report the percentage of their economic activities (turnover, CapEx, OpEx) that meet the taxonomy criteria.
- **Strategic Planning:** Identifying areas for green investment and transition within the company to improve taxonomy alignment over time.
- **Supply Chain Management:** Encouraging suppliers to adopt more sustainable practices that align with taxonomy criteria.



### Financial Products

- **Structuring Green Bonds/Loans:** Defining eligible projects and activities for which proceeds can be used.
- **Creating Sustainable Investment Funds:** Setting criteria for portfolio selection.
- **Benchmarking:** Comparing the sustainability level of different financial products.



### Investment Decisions

- **Screening:** Identifying investments that meet specific environmental criteria.
- **Due Diligence:** Assessing the environmental performance and risks of potential investments or loans.
- **Portfolio Allocation:** Shifting capital towards taxonomy-aligned assets.



### Policymaking

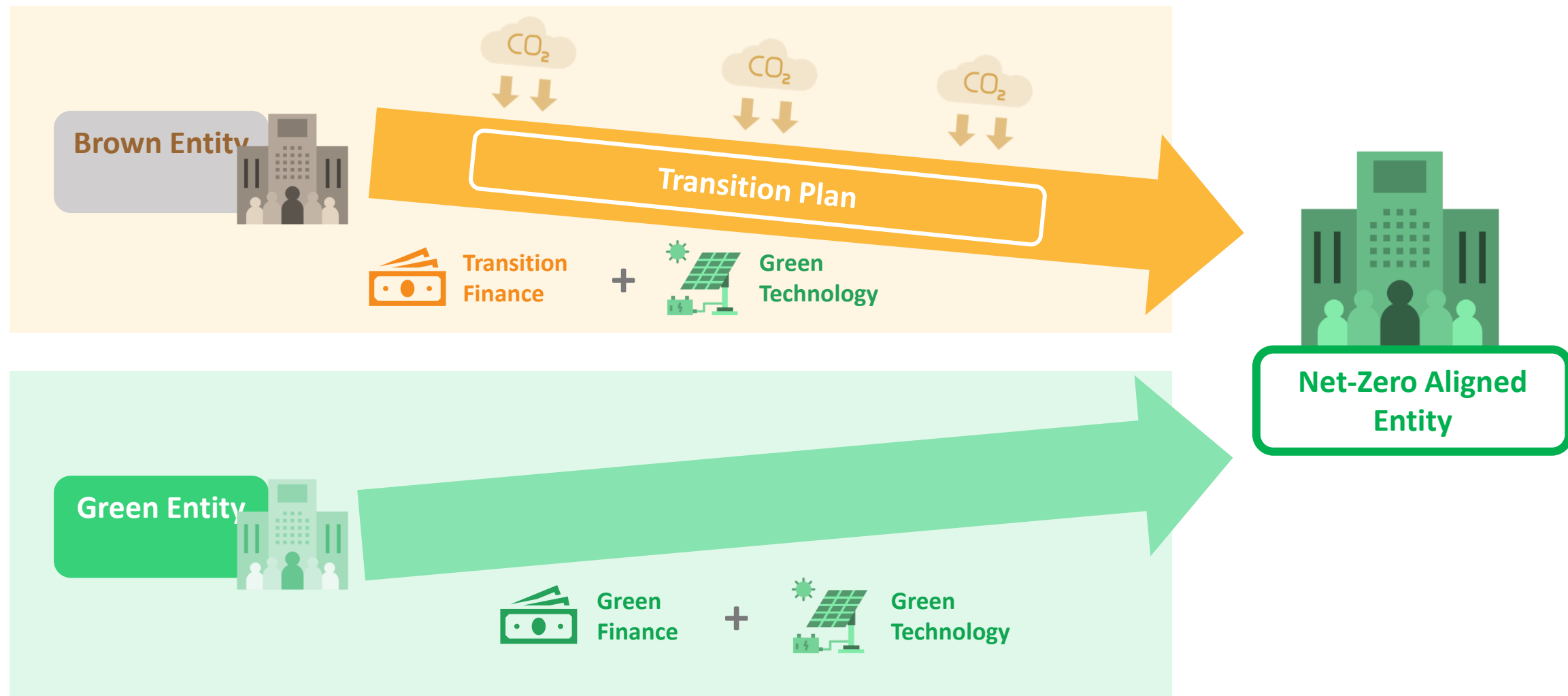
- **Developing Green Standards and Incentives:** Using the taxonomy as a basis for official green labels for financial products or services.
- **Informing Public Spending:** Guiding government investments and public procurement towards sustainable options.
- **Monitoring National Progress:** Tracking the growth of the green economy.

## Advantages of Adopting the Taxonomy



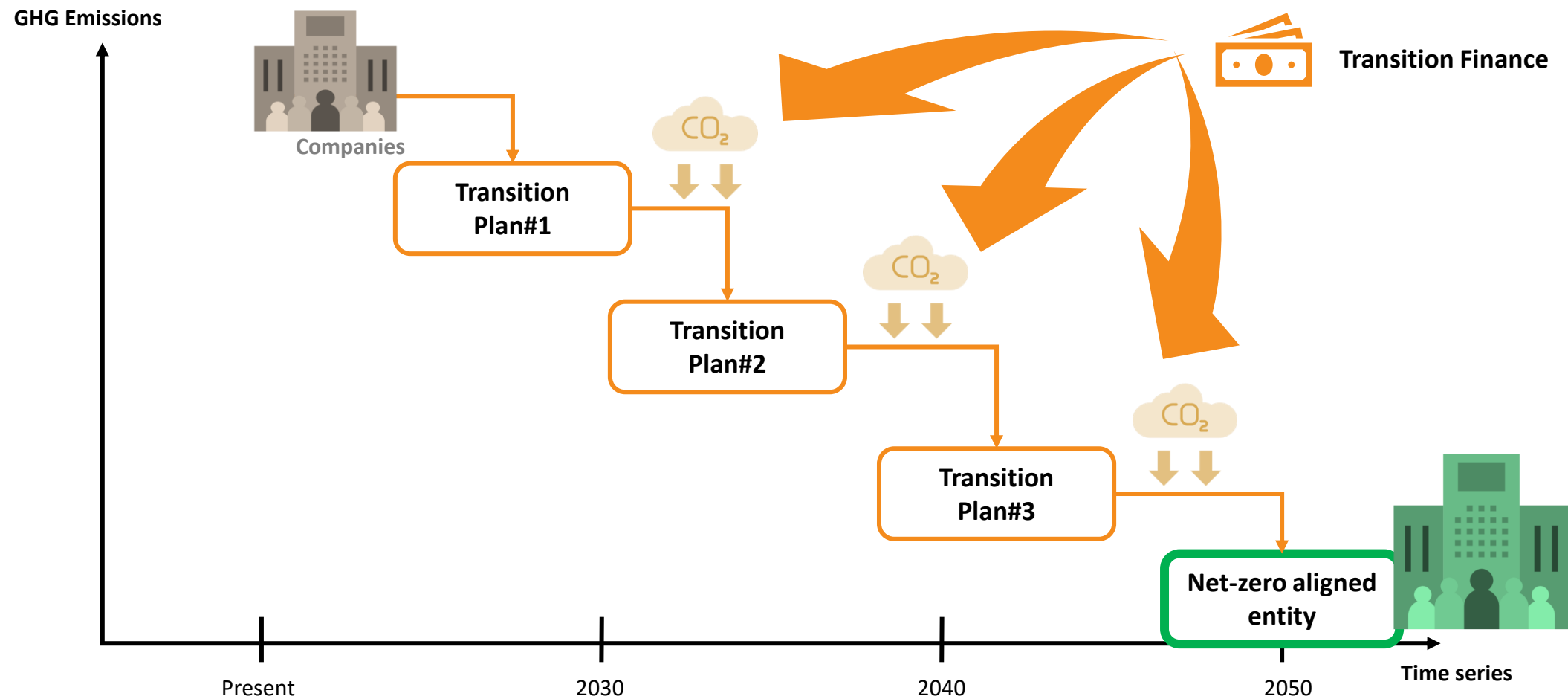
- While Thailand Taxonomy is a powerful tool for promoting sustainability, it cannot be used as a one-size-fits-all solution for all environmental and economic challenges.
- Thailand Taxonomy is not a mandatory list of economic activities for investors to invest in or not invest in.
- There are other instruments that can be used to incentivise toward green investment.





Case study

Companies can develop the Strategic Planning & Transition plan by using Thailand Taxonomy to identify activities for green investment and to attract transition finance



## Case study

### Retrofitting an Existing Commercial Building to Enhance Energy Efficiency

*(For illustration purpose only)*

#### Project Overview:

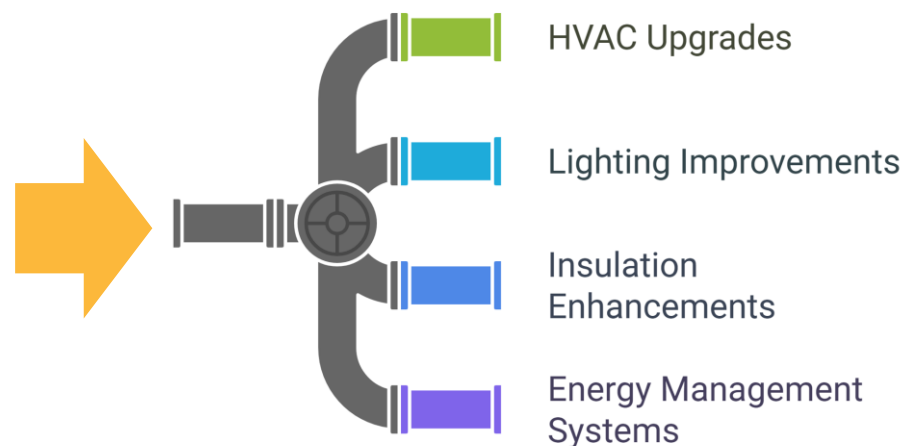
A property development company owns a **20-year-old commercial building complex** in Bangkok. Recognising the need **to improve the building's energy performance and reduce its carbon footprint**, the company proposes a comprehensive retrofit.

The company finds that these activities can substantially contribute to **Climate Change Mitigation (EO1)** under **Thailand Taxonomy**:

- ✓ The retrofit expects to result in a **40% reduction in energy consumption and a corresponding decrease in GHG emissions**, enhancing the building's marketability and demonstrating the company's commitment to sustainability
- ✓ **Retrofitting** existing buildings to improve energy efficiency aligns with the taxonomy's criteria for **amber activities**.

#### Financing through Transition Bonds

- The investment cost is estimated to be **around 1,000 mTHB**.
- To finance the retrofit, the company **issues a Transition bond**, targeting investors interested in supporting projects that facilitate the shift towards a low-carbon economy.



Case study

Retrofitting an Existing Commercial Building to Enhance Energy Efficiency  
*(For illustration purpose only)*

Do No Significant Harm (DNSH)

Ensures that an activity classified as green or amber does not cause substantial harm to any of the other five environmental objectives that are material.

Environmental Objective	Assessment for the Building Retrofit Activities
EO1 Climate Change Mitigation	The retrofit project directly contributes to emission reduction by improving energy efficiency. It aligns with transition finance goals and does not hinder climate action.
EO2 Climate Change Adaptation	The project <u>does not introduce new climate risks</u> . However, adaptation measures such as improved insulation and efficient cooling help increase climate resilience.
EO3 Sustainable Use of Water and Marine Resources	The project includes water efficiency improvements (low-flow fixtures, rainwater harvesting) to reduce consumption, <u>ensuring no negative impact on water resources</u> .
EO4 Transition to a Circular Economy	The project integrates waste reduction measures, such as reusing building materials and responsibly managing construction waste, <u>minimising harm to resource use</u> .
EO5 Pollution Prevention and Control	<u>No hazardous substances or processes are introduced</u> . The project follows waste management protocols and ensures compliance with air and noise pollution regulations.
EO6 Protection and Restoration of Biodiversity and Ecosystems	The retrofit occurs within an urban environment, with <u>no significant impact on biodiversity</u> . Sustainable sourcing of materials ensures no harm to forests or sensitive ecosystems.

Case study

Retrofitting an Existing Commercial Building to Enhance Energy Efficiency  
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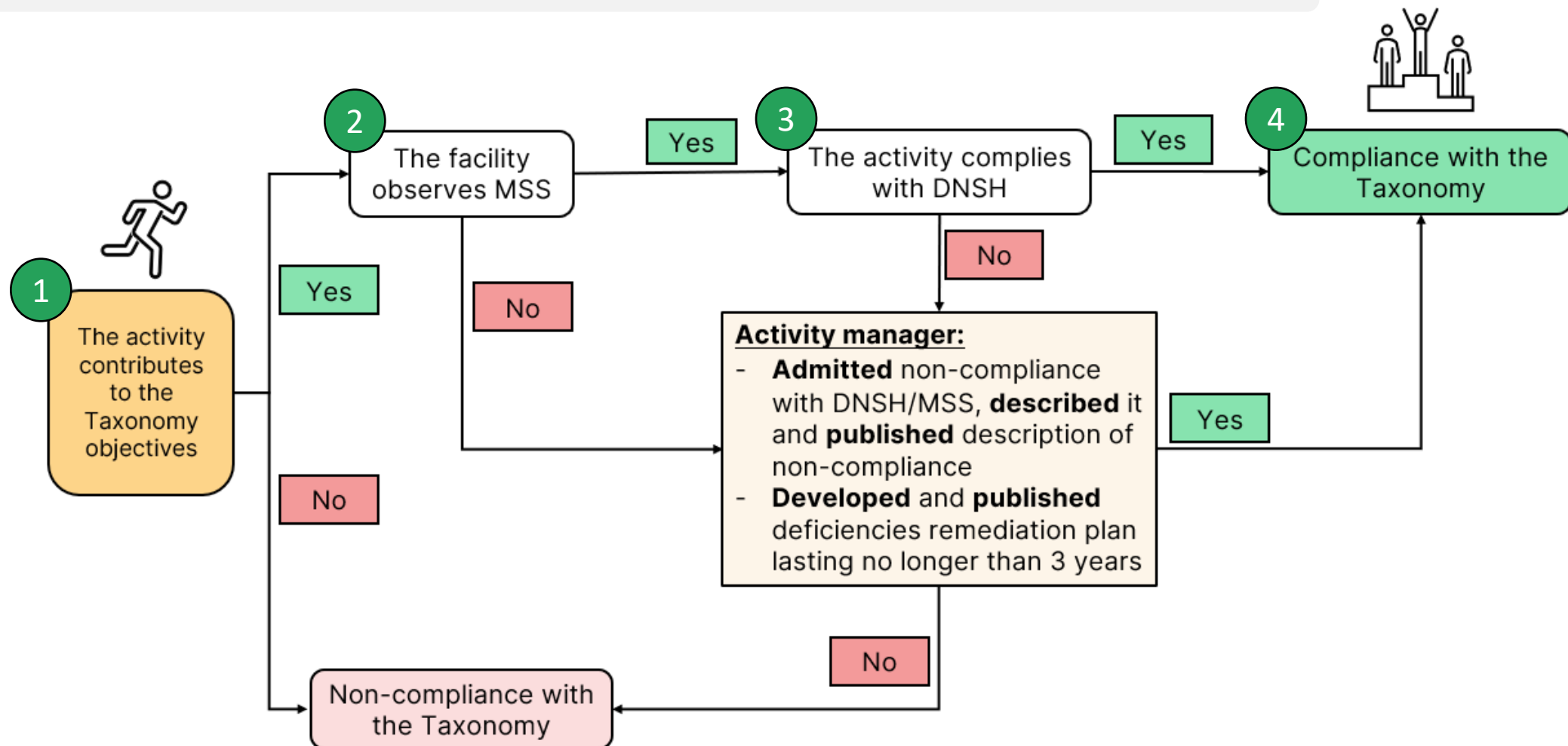
Minimum Social Safeguards (MSS)

Ensures that companies receiving sustainable finance meet international human rights, labor rights, and good governance standards.

MSS Criteria	Assessment for the Building Retrofit
Human Rights Compliance	The company follows Thai labor laws and international human rights standards (UN Guiding Principles on Business and Human Rights). No forced or child labor is involved.
Fair Labor Conditions	Workers are provided with safe working conditions, fair wages, and social benefits in line with Thailand’s labor laws.
Health and Safety Standards	The retrofit project follows national occupational health and safety (OHS) regulations to prevent work-related injuries.
Stakeholder Engagement	The project involves consultations with building tenants and relevant stakeholders, ensuring fair communication and transparency.
Good Governance and Anti-Corruption	The company follows corporate governance best practices, ensuring compliance with anti-corruption laws and ESG reporting standards.



## Thailand Taxonomy Compliance Decision Tree



\*Adjustments need to be made to meet the criteria, and then the evaluation process needs to be undertaken again.

## Part 5

# Summary: Key Takeaways

## Taxonomy is:

- ✓ A system for classifying economic activities to separate sustainable activities from those that are unsustainable and harmful to the environment and climate.
- ✓ A convenient tool for use by economic agents, financial market participants and government agencies.
- ✓ A tool to categorise financial flows and increase transparency in disclosure, issuance of green financial instruments and financial decision-making.
- ✓ A tool to decarbonise those activities that have the potential to affect the climate (climate material) or environment.
- ✓ A living document

## Taxonomy is NOT:

- ✗ A classifier of activities into 'good' and 'bad'.
- ✗ A tool for assessing the financial or economic characteristics of an activity.
- ✗ A tool to suppress certain activities, including those not included in the taxonomy or labelled there as inconsistent with its objectives.
- ✗ A tool applicable to all activities that exist in the economy (most economic activities do not affect climate)





BANK OF THAILAND



The Stock Exchange of Thailand

ผู้สนับสนุน

GB-TAP Green Bond Technical Assistance Program



Kingdom of the Netherlands



on the basis of a decision by the German Bundestag



ผู้จัดทำ

Climate Bonds



ที่ปรึกษา



# THAILAND TAXONOMY

