

Building climate resilience through sustainable finance

Green and Sustainability Bond Issuance Process and Project Selection

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ADDRESSING SOUTHEAST ASIA'S FINANCING GAPS

\$700 billion



is needed annually to fund global biodiversity conservation efforts

\$210 billion



of annual investment is needed for climate-responsive infrastructure in Southeast Asia, or 5.7% of GDP

\$80 billion



of sustainable bonds were issued in Southeast Asia

>\$14 billion

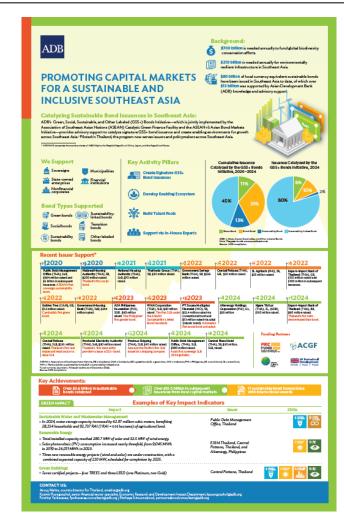


of sustainable bonds were catalyzed by ADB through advisory support (all in local currencies)









<u>Promoting Capital Markets for a Sustainable and</u> <u>Inclusive Southeast Asia</u>



TYPE OF SUSTAINABLE BONDS

Use-of-proceeds (UoP) based

Proceeds allocate to **ELIGIBLE PROJECTS** with clear environmental and/or social benefits



Green



Social



Sustainability

- Green buildings
- Renewable energy
- Energy efficiency
- Clean transportation
- Sustainable agriculture

- Affordable basic infra (e.g. clean drinking water)
- Access to essentail services (e.g. education, financial services, healthcare)
- Employment generation
 *especially but not

*especially but not exclusively for a target populations

 green and social projects



KPI-based

Proceeds can be used for general purpose, along with sustainability-related targets (KPI) and financial mechanisms at **ENTITY LEVEL**

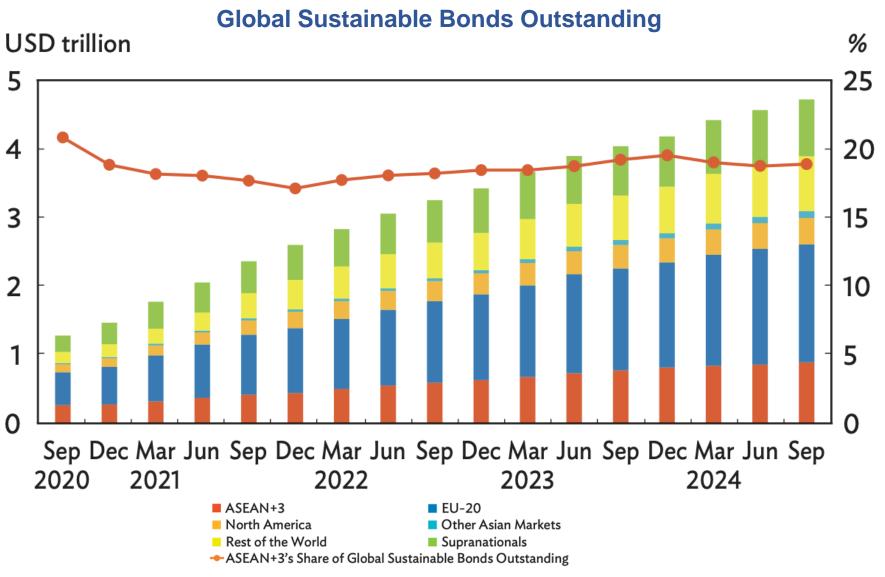


Sustainability-linked

- Basis of SLB is an entity level transition plan/ decarbonization pathway
- Financial mechanisms are triggered when targets are met or missed
- Support hard-to-abate sectors that cannot issue use-of-proceeds bond
- Support sustainability at entity level
- KPI should be material and relevant to the business and ambitious enough
- Using SMART approach (Specific-Measurable-Achievable-Relevant-Time-bound)
- <u>Examples of KPIs</u>: reduction of GHG emissions, reduction of water ulitization

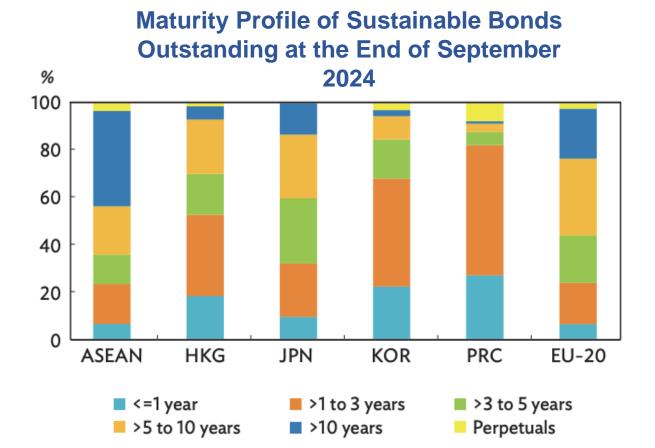


STATE OF SUSTAINABLE FINANCE MARKET

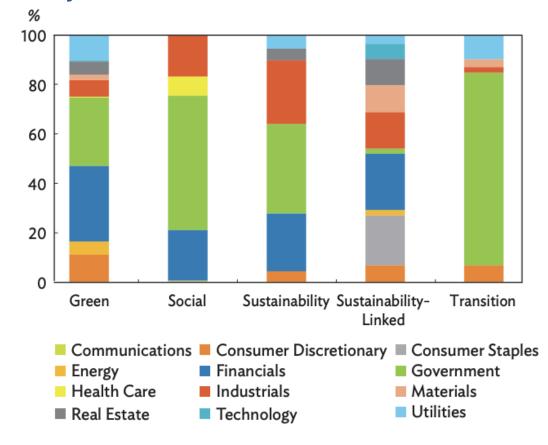




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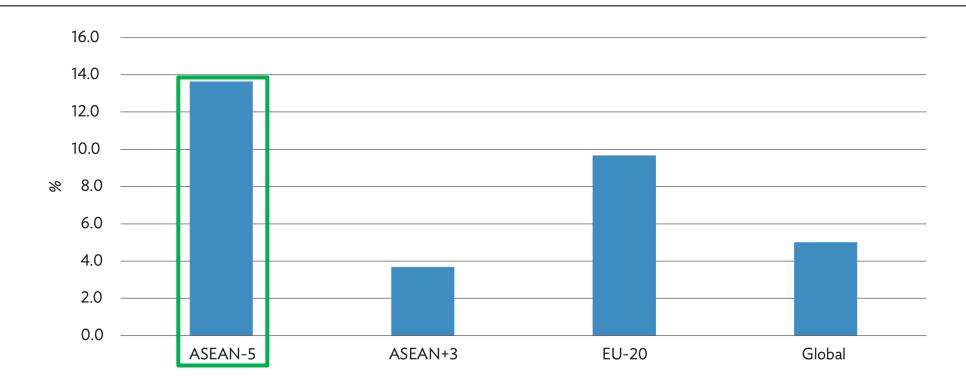


ASEAN+3 Sustainable Bond Issuance by Sector in the Third Quarter of 2024





SUSTAINABLE BOND ISSUANCE AS SHARE OF TOTAL BOND ISSUANCE



ASEAN = Association of Southeast Asian Nations, EU-20 = European Union 20.

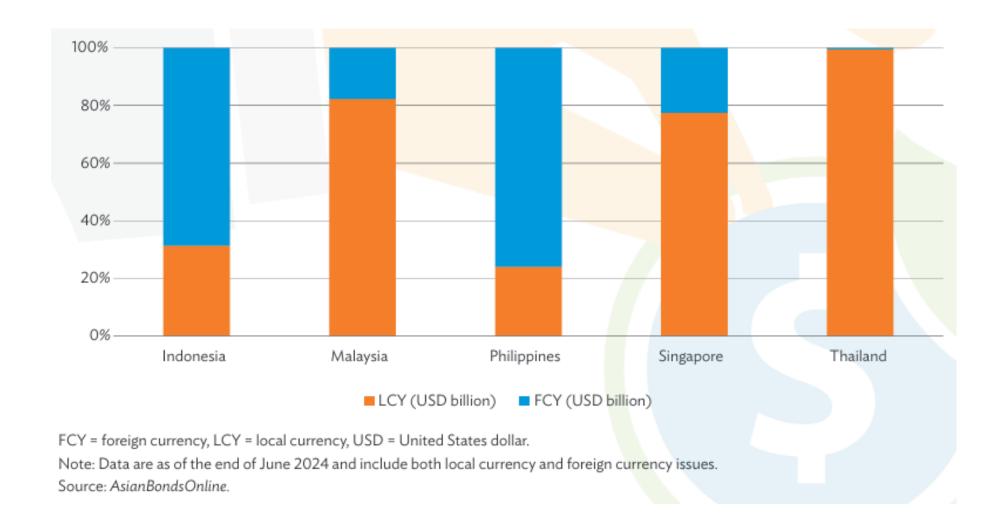
Notes:

- 1. ASEAN-5 comprises Indonesia, Malaysia, the Philippines, Singapore, and Thailand. ASEAN+3 comprises ASEAN-5 plus the People's Republic of China, Japan, and the Republic of Korea.
- 2. Data include both local currency and foreign currency issues.
- 3. Data from January to September 2024.

Source: AsianBondsOnline calculations based on Bloomberg LP data.



CONSOLIDATED SUSTAINABLE BONDS OUTSTANDING BY CURRENCY TYPE







Identify projects/assets

Develop sustainable bond framework

Confirm internal process and controls

Report on allocation & credentials

Set up for impact reporting

External review

KEY PRINCIPLES AND STANDARDS – ICMA

The Principles











Green, Social, Sustainability Bonds ("GSS" or "UoP")

Core Components:

- 1. Use of Proceeds
- 2. Process for Project Evaluation and Selection
- 3. Management of Proceeds
- 4. Reporting

Key Recommendations:

- 1. Bond Frameworks
- 2. External Reviews

General Purposes*

Sustainability-Linked Bonds ("SLBs")

Core Components:

- Selection of Key Performance Indicators (KPIs)
- 2. Calibration of Sustainability Performance Targets (SPTs)
- 3. Bond characteristics
- 4. Reporting
- 5. Verification

4

'Green, social and sustainability bonds are subject to the same capital market and financial regulation as other listed fixed income securities'

bility SPTs)

> Thematic Guidance

Financial

Instrument

Guidance



Climate Transition Finance Handbook (CTFH)

(Guidance may be applied to GSS/UoP Bonds or SLBs)

Source: International Capital Market Association



KEY PRINCIPLES AND STANDARDS – <u>ASEAN SUSTAINABLE BOND</u> <u>STANDARDS</u>







Identify projects/assets

KEY PRINCIPLES AND STANDARDS – ASEAN STANDARDS

Four core components (UoP):

- 1. Use of Proceeds
- 2. Process for Project Evaluation and Selection
- 3. Management of Proceeds
- 4. Reporting





Key recommendation:

1. External Reviews





Criteria	Green Bonds	Social Bonds						
Use of Proceeds	No fossil fuel power	Negative list: projects which involve activities that pose a negative social impact related to: • Alcohol • Gambling • Tobacco • Weaponry						
Issuer eligibility	Must have geographical or economic connect to the ASEAN region							
Reporting	 More frequent periodic reporting to increase transparency Continuous disclosure and ensure that information is publicly accessible from a website designated by the Issuer throughout the tenure of the bonds 							



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KEY PRINCIPLES AND STANDARDS – ASEAN STANDARDS

Five core components (SLB):

- 1. Selection of Key Performance Indicators (KPIs)
- 2. Calibration of Sustainability Performance Targets (SPTs)
- 3. Bond characteristics



- 4. Reporting
- 5. Verification





Criteria	Green Bonds	Social Bonds							
Issuer eligibility	Must have geographical or economic connect to the ASEAN region								
Reporting	 More frequent periodic reporting to increase transparency Continuous disclosure and ensure that information is publicly accessible from a website designated by the Issuer throughout the tenure of the bonds 								
External review	ernal review Must appoint an external reviewer to review the SLB framework								



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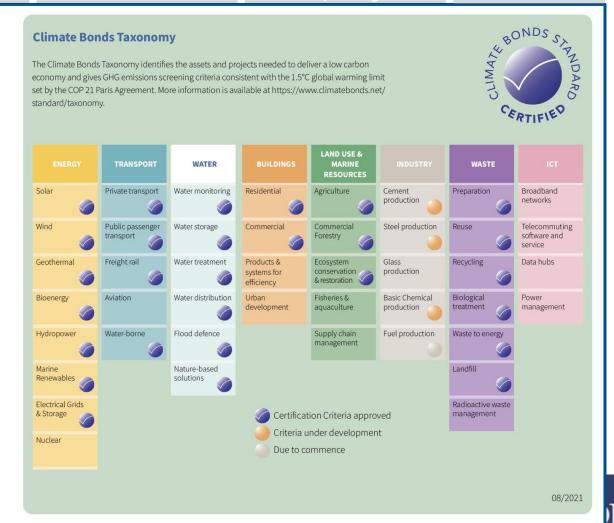
Set up for impact reporting

External review

WHAT CAN GREEN BONDS FINANCE?

GREEN PROJECT CATEGORIES INCLUDE, BUT ARE NOT LIMITED TO:

- Renewable energy
- Energy efficiency
- Pollution prevention and control
- Environmentally sustainable management of living natural resources and land use
- Terrestrial and aquatic biodiversity conservation
- Clean transportation
- Sustainable water and wastewater management
- Climate change adaptation
- Circular economy adapted products, production technologies and processes and/or certified eco-efficient products
- Green buildings





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WHAT CAN SOCIAL BOND FINANCE?

SOCIAL PROJECT CATEGORIES INCLUDE, BUT ARE NOT LIMITED TO:

- Affordable basic infrastructure (e.g. clean drinking water, sewers, sanitation, transport, energy)
- Access to essential services (e.g. health, education and vocational training, healthcare, financing and financial services)
- Affordable housing
- Employment generation, and programs designed to prevent and/or alleviate unemployment stemming from socioeconomic crises, including through the potential effect of SME financing and microfinance
- Food security and sustainable food systems
- Socioeconomic advancement and empowerment

EXAMPLES OF TARGET POPULATION

- Living below the poverty line
- Excluded and/or marginalized populations and/or communities
- People with disabilities
- Migrants and/or displaced persons
- Undereducated
- Underserved, owing to a lack of quality access to essential goods and services
- Unemployed
- Women and/or sexual and gender minorities
- Aging populations and vulnerable youth
- Other vulnerable groups, incl. as a result of natural disasters

"Target populations" can vary depending on local contexts and, in some cases, may address the general public



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WHAT IS ADDITIONAL DOCUMENT TO BE SUMMITTED?



Filing





Framework



EXAMPLES OF TABLE OF CONTENTS INCLUDED IN THE FRAMEWORK

- Company information
- Details of framework in accordance with:
 - 4 components of UoP bond, or
 - 5 components of SLB



Identity projects/assets Develop sustainable bond framework

Confirm internal process and controls

Report on allocation
& credentials

Set up for impact reporting

External review

HOW CAN WE DEVELOP INTERNAL PROCESS AND CONTROLS?



OR



- Leverage on existing arrangements
- Process how projects fit within the eligible projects categories
- List of department / representative involved

- Establish new committee / working group
- Process how projects fit within the eligible projects categories
- List of department / representative involved





Identify projects/assets Develop sustainable bond framework

Confirm internal process and controls

Report on allocation & credentials

Set up for impact reporting

External review

WHAT ARE APPROACHES FOR ALLOCATION OF PROCEEDS?



OR



 Ringfencing – separate the proceeds from its business-as-usual operations by putting the proceeds into a specific sub-account or subportfolio Earmarking – no segregation of proceeds, but the proceeds are tracked (common practice)



Identify projects/assets Develop sustainable bond framework

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External review

WHAT ARE EXAMPLES OF IMPACT INDICATORS FOR GREEN AND SOCIAL BONDS?

Project categories	Examples of impact indicators						
Renewable energy	Annual renewable energy generation (in MWh/GWh) Installed renewable energy capacity (in MW)						
Sustainable water management and wastewater management	Reduction of water losses in water transfer/ distribution Reduction of water consumption in economic activities (e.g. industrial process) Annual amount of wastewater treated, reused in m ³ / as %						
Green buildings	kWh/m² of gross building area						
Access to essential services (education)	Number of students reached (by gender, age, geographic location) Increased school enrolment rate / reduced school dropout rate						
Access to essential service (finance)	Number of loans to underserved groups Number of people provided with access to financial services						
Employment generation	Number of loans provided to SMEs / microenterprises						



'Availability of data and ability to collect data is crucial'





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WHAT TO CONSIDER WHEN SELECTING TYPES OF EXTERNAL REVIEWER?

Example:

Second Party Opinion

Certification

Jurisdiction of issuance

Investor preference

Issuer's positioning

KEY PRINCIPLES AND STANDARDS

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Financial Instrument Guidance



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Climate Transition Finance Handbook (CTFH) (Guidance may be applied to GSS/UoP Bonds or SLBs)







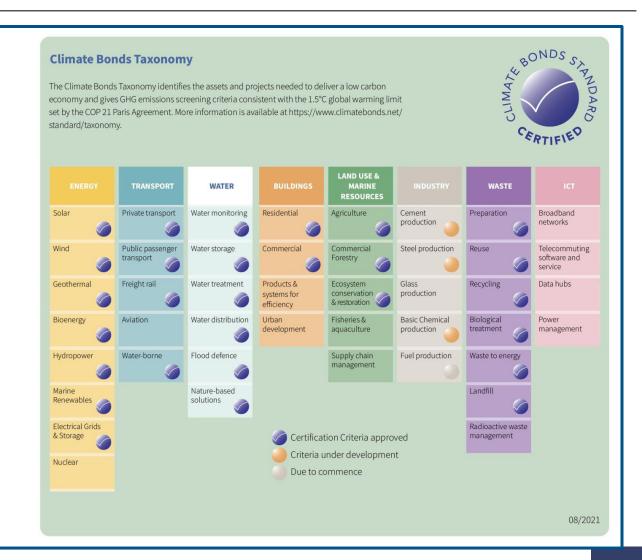


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EXAMPLES OF TARGET POPULATION

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- Unemployed
- Women and/or sexual and gender minorities
- Aging populations and vulnerable youth
- Other vulnerable groups, incl. as a result of natural disasters

"Target populations" can vary depending on local contexts and, in some cases, may address the general public



MAJOR ACHIEVEMENTS AND MILESTONES





>\$2020

Public Debt Management Office (THA), sustainability bond. \$964 million raised and \$6 billion in subsequent issuances. ASEAN's first sovereign

sustainability bond

> 2020

National Housing Authority (THA), social bond, \$200 million raised. Thailand's first social

>#2021

Authority

raised.

National Housing

bond, \$70 million

(THA), sustainability

>§2021

Thaifoods Group (THA), social bond. \$30 million raised.

Government Savings Bank (THA), social bond, \$295 million raised.

> 2022

₩

Central Pattana (THA), green bond, \$30 million raised.

> ₫2022

SL Agritech (PHI), social bond. \$35 million raised.

ANNUAL ISSUANCE VOLUME

2020 > \$1 billion raised

2022

> \$755 million raised

02024

> \$1.46 billion raised

>\$100 million raised

02021

>\$165.4 million raised

2023

>#2022

Export-Import Bank of Thailand (THA), green bond, \$150 million raised.



>#2022

Golden Tree (CAM), green bond, \$1.3 million raised. Cambodia's first green

> 2024

Export-Import Bank

blue bond, \$90 million

raised. Thailand's first

THB-denominated

of Thailand (THA).

> 2022

Government Housing Bank (THA), sustainability bond, \$244 million raised.

> ₹2023

ASA Philippines Foundation (PHI), social (gender) bond, \$90 million raised. The Philippines' first gender bond.



₩

>\$2023

WHA Corporation raised. The first

(THA), sustainabilitylinked bond, \$30 million sustainability-linked bond under the ASEAN Sustainability-Linked Bond Standards.

> 2023

PT Sarana Multigriya Finansial (INO), Social bond, \$32.4 million raised, and social sukuk (Islamic bonds), \$13 million raised. Indonesia's first social bond and sukuk.

> \$2024

Alternergy (PHI), green loan, \$35 million.

> 2024

₩

Ngern Tid Lor (THA). social loan \$150 million

blue bond.

>\$2024

Central Pattana (THA) sustainability-linked bond, \$235 million raised. Thailand's first real estate and retail sector to issue sustainability-linked

> \$2024

Provincial Electricity Authority (THA). sustainability bond, \$30 million raised. Thailand's first state utility provider to issue a GSS+ bond.

>52024

shipping industry 🖟 🎢

Precious Shipping (THA), sustainability-linked bond, \$40 million raised. First sustainability-linked bond issuer in Asia and the Pacific from the

Public Debt Management Office (THA), sustainability-linked bond, \$880 million raised. Asia's first sovereign sustainability-linked bond.

> 2024

CATALYTIC ROLES OF THE PROJECT

- Catalyzed several "firsts" transactions e.g. first sovereign SLB in Asia, first gender bond in the Philippines, first social bond in Indonesia, first green bond in Cambodia
- Approx \$2 million in TA --→ >\$3 billion in new issuances (and >\$13 billion in total)
- Going beyond ASEAN

ASEAN = Association of Southeast Asian Nations: CAM = Cambodia; GSS+ = Green, Social, Sustainable, and Other Labeled; INO = Indonesia, PHI = Philippines, THA = Thailand

^a Local currency equivalent, information as of November 2024.

Source: Asian Development Bank.



HIGHLIGHT TRANSACTION – GOVERNMENT SAVINGS BANK



- First social bond by state-owned financial institution in Thailand
- THB 10 billion (\$295 million), 3 years tenor
- Significant demand from local investors, leading upto 2 times bid-to-cover ratio
- Supported in collaboration with ASEAN Catalytic Green Finance facility

Examples of social project categories:



Low-interest loans to grassroot customers



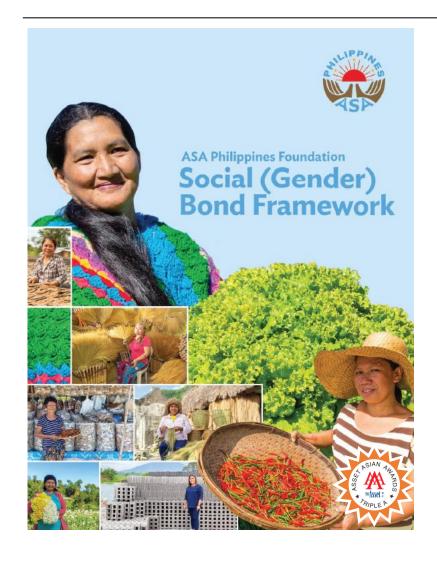
Retail customers' occupational capabilities (e.g. unemployed groups)



Loans to SMEs and communities



HIGHLIGHT TRANSACTION – ASA PHILIPPINES FOUNDATION



- The first gender bond issued in the Philippines, issued under the ICMA Social Bond Principles and ASEAN Social Bond Standards
- PHP5 billion (\$90 million), 5 years maturity
- Issued on 5 July 2023

Examples of social project categories:



Lending to low-income women borrowers to promote self-employment





Lending to low-income women borrowers to improve access to water, electricity, housing and education

Source: ADB Supports the Philippines' First Gender Bond Issued by ASA Philippines Foundation | Asian Development Bank; https://storage.googleapis.com/asa_files/FS/Social-Bond-Frameworks_ASA-Phils_online_w-paginations.pdf



HIGHLIGHT TRANSACTION – PT. SARANA MULTIGRIYA FINANSIAL



- The first social bond and sukuk issued in Indonesia, under the ICMA Social Bond Principles and the ASEAN Capital Markets Forum's Social Bond Standards.
- Social Bond: 500 billion rupiah (\$32.4 million)
- Social Sukuk: 200 billion rupiah (\$13 million)
- 3 years maturity, issued on 22 December 2023

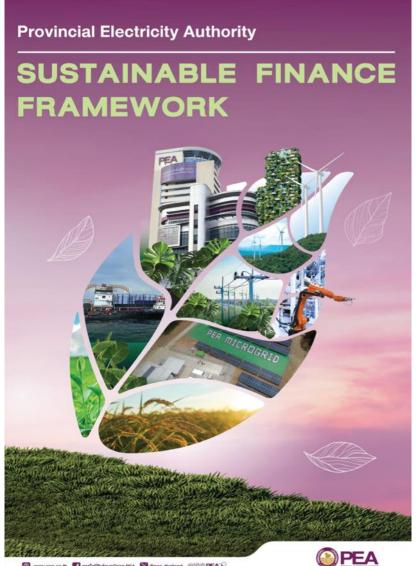
Examples of social project categories:



Affordable housing projects for low-income earners



HIGHLIGHT TRANSACTION – PROVINCIAL ELECTRICITY AUTHORITY



- First sustainability bond by a utility operator in Thailand
- THB 1 billion (\$35 million),5 years maturity
- Listing on 21 August 2024
- Aligned with ASEAN Taxonomy for Sustainable Finance



Examples of green project categories:





Renewable energy

Climate change adaptation

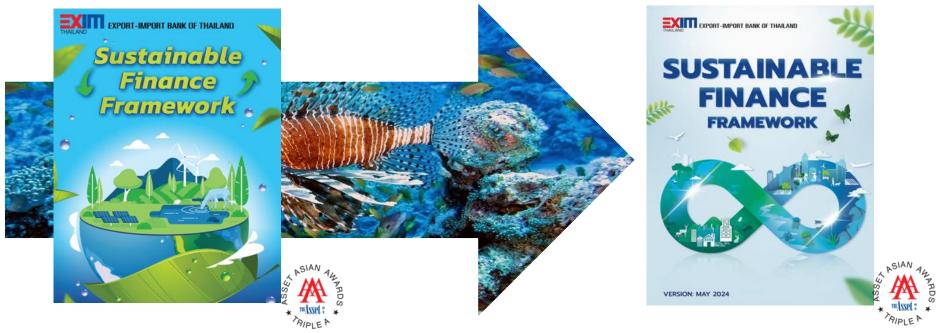
Examples of social project categories:







HIGHLIGHT TRANSACTION – EXIM THAILAND



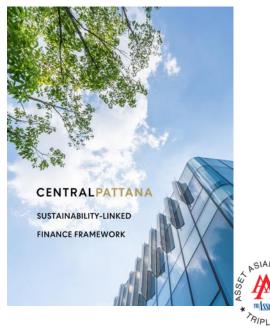
- First floating-rate green bond by issued under Thai Overnight Repurchase Rate (THOR).
- THB 5 billion (≈ \$150 million), 3- and 4-years maturity, issued in 2022
- Support investment in green projects, particularly solar and wind projects. As of 2023, total installed capacity of renewable projects financed and refinanced was 313.23 MW across ASEAN and East Asia region

- First THB-denominated Blue Bond in Thailand
- THB 3 billion (≈ \$90 million), 3-year maturity
- The framework extended from green and social projects in 2022 to include eligible blue projects such as:
 - marine renewable energy
 - sustainable fisheries, aquaculture and marine value chain
 - sustainable marine transportation and ports
 - · sustainable coastal and marine tourism



HIGHLIGHT TRANSACTION – CENTRAL PATTANA





- First green bond by Thailand's real estate and retail industry developer
- THB 1 billion (≈ \$30 million), 3-year maturity, issued under the ASEAN Green Bond Standards and ICMA Green Bond Principles in 2022
- The proceeds will support investments in green projects and achieve the company's Journey to Net Zero plan by 2050

- First sustainability-linked bond by Thailand's real estate and retail industry developer, aligned with ICMA SLB Principles and ASEAN SLB Standards
- THB 8 billion (≈ \$240 million), 5- and 7-year maturity, with 3 times over subscription from local institutional and HNW investors
- The proceeds will support clean energy projects, aiming to become a Net Zero greenhouse gas emissions organization by 2050
- 2 KPIs are 1) reduction of carbon intensity scope 1 and scope 2 emissions and 2) provision of free spaces*

EXAMPLES FOR SOCIAL FINANCE FRAMEWORK

1. Use of Proceeds

"Company A has formulated a social finance framework, aligning with the Social Bond Principles 2023, published by the ICMA; the Social Loan Principles... and ASEAN Social Bond Standards...

Net proceeds of any social finance instruments issued under this framework will be allocated to finance and/or refinance, either wholly or in part, investments in ongoing and new projects, aimed at supporting Company A's sustainability agenda. The eligibility criteria and projects have been mapped to the UN SDGs."

Social Project Category	Eligibility Criteria	UN SDGs			
Affordable housing	Affordable housing program Target group: low-income earners	10 REGALES 11 INCOMMENTS			
Employment generation	Loans given to SMEs, incl. women-led SMEs to generate employment and self-employment Target group: underserved, unemployed and women and gender minorities	8 SECTION AND THE SECTION AND			

2. Project Selection and Evaluation

"Company A has established the Social Finance Working Group, consisting of representatives from relevant departments:

The Social Finance Working Group meets at least once a year and is responsible for:

- Review the eligibility of the projects, assets, and expenditures
- Review social and environmental risks associated with the projects
- Review and monitor the impact indicators and approve the annual updated report under the social finance framework"

3. Management of Proceeds

"An amount equal to the net proceeds from the social finance instrument will be tracked with the Company A's general pool of funds and will be allocated to eligible social projects only.

The treasury team will manage the associated projects registered through Company A's internal system, and the balance of the tracked proceeds will be monitored regularly to ensure that inflow of funds will not exceed the value of the outstanding instruments. Until full allocation, any unallocated proceeds may be temporarily placed in cash, cash equivalents,... that align with Company A's cash management."

4. Reporting

"Company A will publish updates of the allocation of proceeds and will be made publicly available on its website, annually until full allocation.

Allocation reporting:

- Summary of the eligible projects
- Description of major eligible projects
- Summary of the allocation of proceeds and proportion to finance/refinance
- Summary of unallocated proceeds and their management

Impact reporting:

Social Project Category	Sample Impact Indicators						
Affordable housing	Number of low-income earners supported by geographical location and gender						
Employment generation	Number of SME financed Amount of loan disbursed						
		1000					

29

HIGHLIGHT TRANSACTION – GOVERNMENT OF THAILAND



CASE STUDY – THAILAND'S APPROACH IN DEVELOPING GSS+ BOND MARKET - Key Highlights and Lessons Learned

Setting clear issuance plan - Over \$14 billion of GSS+ bonds outstanding. Regular issuance since 2020 expanded the investor base.

Setting credible and verifiable targets - Asia's first sustainability-linked bond in November 2024, with KPI tied to the country's NDC commitments (2.7 times oversubscribed).

Promoting SOE issuances – Encouraged SOEs, particularly financial institutions to issue sustainable bonds, leading to greater supply and increased transparency:

- 4 leading SOE banks have issued GSS+ bonds, totaling almost \$2 billion THB equivalent
- 2 SOEs supporting affordable housing and access to basic infrastructure (electricity) have also issued GSS+ bonds.
- Clear borrowing plans for green and sustainable projects and support from senior management/policymakers are important.

SOEs can support the country's transition by helping to green SMEs and supply chains and can demonstrate commitment to promoting greater disclosures and transparency.

EXAMPLES FOR SLB

Selection of KPI and calibration of SPT

"The sustainability-linked finance framework is aligned with ICMA Sustainability-Linked Bond Principles 2024, ASEAN Sustainability-Linked Bond Standards 2022,...

<u>Adapted from CPN's sustainability-linked finance</u> framework

KPI: Carbon intensity scope 1 and scope 2 emissions (kgCO2e/m2)

Rationale and Materiality: As a leading operator of commercial buildings, CPN consumes a substantial amount of electricity from external sources... This KPI is also with CPN's net zero policy.

SPT: to achieve a 56% reduction in carbon intensity (scope 1 and scope 2 emission) by 2034.

• Baseline: 2019, with recorded carbon emissions scope 1 and scope 2 at 89.4 kgCO2e/m2

Year	20 19	20 20	20 21	20 22	202 3	20 24	20 25	20 26	20 27	20 28	20 29	20 30	20 31	20 32	20 33	20 34
Time span					1	2	3	4	5	6	7	8	9	10	11	12
BAU	90	72	51	62												
Target	90	-	-	-	85	81	77	73	69	65	61	57	53	48	44	40
Reduc tion (%)					6	10	14	19	23	28	32	37	41	47	51	56

- Strategies to achieve the SPT
 - 1. Adapt advanced carbon management systems
 - 2. Invest in onsite renewable energy
 - 3. Etc."

3. Financial Characteristics

"Under this framework, sustainability-linked features will result in, such as, but not limited to, a coupon adjustment, or a margin adjustment, or a premium payment, if the predetermined SPT related to the KPI is not met. The exact KPI, SPT and the corresponding changes to the bond's (loan's) conditions will be specified in the relevant documentation of the specific transaction.

Investor will be informed whether the SPT is achieved or not within xx day of the relevant applicable Target Observation Date.

Fallback mechanisms: Baseline and SPT may change or recalculate based on specific circumstances, such as M&A and spin-offs. Any recalculation will be outlined in specific document and verified by an independent external reviewer."

4. Reporting

"Annually, regular updates on the progression of the KPIs will be provided, and in any case for any date or period critical for assessing the SPT that may potentially adjust the financial characteristics. This information will be incorporated into Sustainability Report (or other report that may officially replace the Sustainability Report in the future) and will be publicly available on its website.

The report will include the following:

- The most recent data on the performance of the KPIs, including the baselines
- A verification assurance report, conducted on the basis of limited assurance, detailing the performance of the KPI against the SPT
- Any other relevant information which may enable investors to monitor the progress of the KPI

When feasible, information may include a qualitative or quantitative explanation of the contribution of the main factors behind the evolution of KPI, positive sustainability impacts of performance improvement and any re-assessments of KPI, restatement of the SPT and/or adjustments of baselines or KPI scope."

5. Verification

"The verification will be conducted annually and for all periods relevant to the assessment of the SPT performance, leading to potential financial adjustment. Company A will seek an independent and external verification of the performance level for the stated KPI by the external verifier. The verification will be made publicly available with the Sustainability Report on the website. Prior to the issuance of a bond or the loan borrowing, a second party opinion (SPO) will be obtained from an appointed reviewer to confirm the framework's alignment with relevant principles. The SPO will be made available on the website."

31

TANGIBLE OUTPUTS SUPPORTED BY ADB

Over \$ 4 billion of sustainable bonds catalyzed

Over \$14 billion in subsequent issuances

12 internationally-awarded sustainable bond transactions

4 local verifiers supported (2 in the pipeline)













OTHER ACTIVITIES: UPSTREAM AND MARKET ECOSYSTEM

INO: New sustainable bond regulation launched at ASEAN Capital Market Conference

INO: Launched GSS+ Bonds/Sukuks
Accelerator Program with CGIF,
UNDP and OJK

Sharing experiences of the ABMI with non-ASEAN+3 DMCs.







REG: Four local green bond verifiers, accredited by Climate Bonds Initiative (two in the pipeline – PHI & CAM)

Thailand: launched a consultation to adopt sustainability disclosure standards











FUTURE PRIORITIES

Sustainabilitylinked and Transition Finance

Regional
Discussion
Platform for Local
Verifiers

Nature and Biodiversity Finance

Broaden Issuer Base **Sustainability Disclosures**



Mobilizing Private Capital for Sustainable Development Through Sustainable Bonds: Case Studies from Indonesia and Thailand

Bridging Southeast Asia's Climate-Resilient Financing Gaps

Southeast Asia has voluerability to environmental disruptions above the flobal swerps and significant greenhouse gas emissions relative to other developing marker region. Four Association of Southeast Asian Nations (ASSAN) member countries—indonesia, Nations (ASSAN) member countries—indonesia, Nations (ASSAN) member countries—indonesia, Nations (ASSAN) member countries—indonesia, Vallariya, Taharia, and Vert Naru—es mong the distribution of the countries—indonesia valuerability is interested by apart population growth and a significant refluence on environmentally witherability is interested by apart population growth and a significant refluence on environmentally sensitive sectors like agriculture. Project groups and commercial prospection under the high-emissions scenario confined by the significant refluence on environmentally in the high-emissions scenario confined by the high-emission scenario confined by the high-emis

In 2018–2019, economies in Asia and the Pacific mobilized USD519.9 billion in climate financing, with the majority concentrated in East Asia. ASEAN member countries

Asia and the Pacific's total climate finance during this period. Public finance accounted for USDI80 Dillion of ASEAN's climate finance spending, while the remaining USDI00 Dillion, or about 35%, came from private sources, corporations, and financial institutions. "The Asian Development Bank' (ADB) sentimate that ASEAN member countries will need to invest USDI20 billion arrivally between 20% and 2020's regulated to 15.7%. The current level of Investment, Ligary reliant on public sources, fallis well short of what is required.

ASEAN's sustainable bond market has significant potential to attract more private capital and nelp bridge the region's climate financing gap. Despite ongoing cefforts to develop sustainable bond markets in ASEAN member countries, issuance remains relatively low compared to new issuances in their broader bond markets. This indicates substantial opportunities to expand sustainable bond markets across the region, though both the public and private sectors must

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Accelerating Green Bonds for Municipalities in Southeast Asia



