



Green Finance Framework

Version 1.0

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1. Introduction

KASIKORNBANK (KBank) is a market leading commercial bank, headquartered in Bangkok, Thailand. It was established in 1945 and has been offering comprehensive financial solutions through its commercial banking business, securities business and other related businesses to its retails, Small and Medium Enterprises (SMEs), large corporates and institutions clients over 7 0 years. KBank aims to balance economic, social, and environmental dimensions to create sustainability for all stakeholders and to be consistent with the United Nations' Sustainable Development Goals (SDGs). The philosophy of sustainable development is integrated in all operations ensuring maximum benefit for all stakeholders and paving the way for sustainable growth.

The Sustainable Development Policy has been established as a set of guidelines for the operating processes of all KBank units under the sustainable development structure, which cascades the long-term sustainability targets to the implementation level. KBank has also set the target called Sustainable financing and Investment at least THB 100-200 billion within 2030. With this target, KBank has been building a sustainable finance framework and expected to be regularly reviewed and updated subject to any significant changes from Thailand Taxonomy or related market practices.

Credit lending policy on Environment, Social and Governance and Sector-specific guidelines

KBank established an exclusion list and sector-specific guidelines¹ while having in place measures for risk management appropriate for high-risk customers to ensure that credit supported by KBank will involve effective management of environmental and social impacts.

This Credit lending policy developed in alignment with KBank's commitment to ensure environmental stewardship towards Net Zero in our own operations by 2030, as well as to reduce greenhouse gas emissions in our financed portfolio in line with Thailand's aspirations²; reducing greenhouse gas emissions in significantly impacted sectors, both in terms of greenhouse gas emission volume and proportion of loans extended to each sector; and accelerating this journey where possible.

https://www.kasikornbank.com/en/ir/corporategovernance/transparency/pages/esg-credit-policy.aspx

¹ The Exclusion list and sector-specific guidelines are available in

² Thailand's ambition at COP26 includes 2050 Carbon Neutrality, and 2065 Net Zero Greenhouse Gas Emission



2. Green Finance Framework

To support sustainability, KBank prepared this Green Finance Framework, with intention to cover green finance assets, liabilities and products including but not limited to loans, bonds, deposit, etc. that create positive impacts on the environment. This Framework was designed in line with the ICMA's Green Bond Principles and LMA's Green Loan Principles. Any use of proceeds with the specific purpose to financing or refinancing with these eligible categories within this framework are classified as green.

The workflow of green financing can be summarized into 4 steps:







3. Use of proceeds

This framework is applicable to KBank and its subsidiaries, with a focus on specific purpose financing to environmental benefit and labeled as green.

In transactions with specific use of proceeds, it is required that 100% of the proceeds be allocated to an activity that contributes to environmental objectives³ that can be assessed, quantified, and measured by the borrower. The disclosure of distribution of proceed by project category is provided in annual reporting. The annual report will provide information about the allocation period and committed to report by project category. KBank commits to monitor all the green proceeds throughout the life of the loan (maturity of the loan). The allocation period is structured on a deal-by-deal basis, depending on the underlying characteristics of the transaction and the specific requirements of the borrower. In general, KBank shall allocate, on a best effort basis, all the proceeds within 12-24 months from the date of issuance of each green financing product (bond, deposit, etc.) from the eligible green loan portfolio. For refinancing, Eligible Assets that were financed within 24 months before the issuance date of the corresponding Sustainability Financing debt instruments will be still considered eligible. The eligibility criteria for Use of Proceeds are listed in the following table.

- 1. Climate change mitigation
- 2. Climate change adaptation
- 3. Sustainable use and protection of water and marine resources
- 4. Transition to a circular economy
- 5. Pollution prevention and control, and
- Protection and restoration of biodiversity and ecosystems

³ The six environmental objectives are:



Category	Definitions	UN SDGs
1. Renewable Energy	The potential projects are related to Renewable Energy	7 AFFORDABLE AND CLEAN ENERGY
(Including	that do not support fossil fuel infrastructure.	-6-
installation,	• All energy generation by solar panels, solar farms, or	215
maintenance,	Concentrated Solar Power (CSP)	13 CLIMATE ACTION
construction,	All energy generation by wind (onshore and offshore)	
operation,	Hydropower generation with a capacity size less than	
transmission,	1000 MW ⁴	
distribution and	- Construction and operation of hydropower	
the production of	generation before 1 January 2024 with power	
solar panels,	density > 5W/m 2 or GHG emissions intensity <	
hydrogen fuel cells	100 gCO ₂ e/kWh during the life cycle of the power	
for energy	plant	
storage)	- Construction and operation of hydropower	
	generation on 1 January 2024 or after this date	
	with power density > 10 W/m ² or GHG emissions	
	intensity < 50 gCO $_2$ e/kWh during the life cycle of	
	the power plant	
	- Construction and maintenance of Run-of-river	
	projects with power density > 10 W/m^2 or GHG	
	emissions intensity < 50 gCO ₂ e/kWh	
	- Installation of Pumped Storage Hydropower (PSH)	
	that is demonstrably purposefully built in	
	conjunction with intermittent renewables and/or	
	contributing to a grid which already has a share of	
	intermittent renewables deployment at least 20%,	
	or has credible evidence that increase the share of	

Table	1:	The	green	eligible	use	of	proceeds
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⁴ KBank does not provide new loans for hydropower generation from dams that generate significant impacts on the environment and society, without management measures or work plans in accordance with the Equator Principles (EP) and the environmental and social performance standards of the International Finance Corporation (IFC) and without support from international financial institutions for development or foreign financial institutions that have accepted the Equator Principle.

	intermittent ren	ewables	to this le	vel withir	the next
	10 years				
-	Retrofitting of P	Pumped S	Storage H	lydropow	er (PSH)
	that improves	either po	wer den	sity or d	ecreases
	emission intens	sity of the	e existing	hydropo	wer plant
	by at least 159	⁄₀			
• Geo	thermal power §	generatio	n		
-	New constructi	on of g	eotherma	al power	facilities
	with life cycl	e emis	sions ir	ntensity	< 100
	gCO₂e∕kWh unt	til 2040,	, after 20	040 it sh	ould be <
	50 gCO ₂ e/kWh	n			
-	Existing facilitie	s that m	eet emis	sion inte	nsity that
	are aligned wit	h the de	carboniza	ation path	ways for
	the Energy sect	or as det	tailed in 1	fable 2 b	elow and
	after 2040, it	should be	e <50 g0	CO₂e∕kW	h
	Thresholds for	2022-	2026-	2031-	2036-
	Energy sector	2025	2030	2035	2040
	Life cycle	<381	<225	<191	<148
	Emission				
	(gCO ₂ e/kWh)				
• Bioe	energy⁵ generati	on and p	productio	n (both	new and
exis	ting facilities),	which	have s	pecific l	ife cycle
emi	ssions intensity	threshold	ds depen	ding on a	sset type
belo	w:				
-	Facilities prod	ucing li	quid bio	ofuel, so	olid and
	gaseous bioma	ass for	heating	and cog	eneration
	with life cyc	le emis	sion in	tensity	< 57.6
	gCO ₂ e/kWh				
-	Facilities produ	icing biot	fuel for t	ransport	with life

⁵ Bioenergy means biomass, biogas and biofuels. The eligible feedstocks including residues, energy crops and lignocellulosic biomass such as straw, with three exclusions of wood and all woody biomass, algae, biodegradable Municipal Solid Waste (MSW) including sewage sludge and food waste. The feedstocks used for bioenergy should comply with international guidelines such as FSC, 2BSvs, Bonsucro, ISCC Plus, RSB, RTRS or equivalent recognized standards.

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 Heating/cooling, and a biofuel/biomass with I 57.6 gCO₂e/kWh, or w. Energy production from exises by using green hydrointensity < 100 gCO₂/2040, it should be Retrofitting of the exises that leads to meet the that are aligned with the for Energy sector as on life cycle GHG emission ISO 14067:2018 equivalent. The me methane leakage or learnonitored during the third party verifies compublishes the results. All marine (or ocean) e that produce electricity, marine energy Electricity generation from gaseous and liquid fuels in life cycle GHG emission for the third party for the the theta produce sector is that produce the theta produce electricity. 	SUPPERION TRUE KASIKORNBANK Co-generation facilities using life cycle emission intensity < with energy efficiency > 80% disting natural gas sting natural gas power plant ogen leading to emissions (e/kWh (until 2040; beyond 50 gCO ₂ e/kWh) sting natural gas power plant elfe cycle emissions intensity the decarbonization pathways detailed in Table 2 . Also, the or 14064-2:2019 or easurement equipment for easurement for easurement equipment for easurement equipme	
gaseous and liquid fuels in life cycle GHG emissions (until 2040; beyond 2 gCQ e /kWh) The life (ncluding green hydrogen with intensity < 100 gC0 ₂ e/kWh 2040, it should be < 50 cycle GHG emissions are	
calculated based on th 14064-2:2018 or I equivalents. The quantified verified by independent thi	he ISO 14067:2018 or ISO 14064-2:2019 or I life cycle GHG emissions are ird party.	
- Construction/ opera heating/cooling and p geothermal, bioenergy	ower using RE (solar, wind, y, ocean energy, renewable	

 liquid and gaseous fuels, and green hydrogen) with life cycle GHG emissions < 100 gCO₂e/kWh (until 2040; beyond 2040, it should be < 50 gCO₂e/kWh). The life cycle GHG emissions are calculated based on the ISO 14064-1:2018 or 14064-2:2019 or equivalents. Retrofitting of the existing cogeneration of heating/cooling and power using RE (solar, wind, geothermal, bioenergy, ocean energy, renewable liquid and gaseous fuels, and green hydrogen) with life cycle emission intensity that are aligned with the decarbonization pathways for Energy sector as detailed in Table 2 Production of heating and cooling using waste heat Installation and operation of electric heat pumps which using the refrigerants GWP ≤ 675 and implementation and adherence to a recognized environmental system (ISO14001 or equivalent) Heating and cooling distribution Operation of pipelines and Infrastructures for distribution of heating, ending at the sub-station or
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distribution of heating, ending at the sub-station or
heat exchanger at least 50% renewable energy, or
50% waste heat, or 75% cogenerated heat or
50% of a combination of such energy and heat
Transmission and distribution networks for renewable
and low-carbon gases, including green hydrogen
- Transmission and distribution networks for low-
carbon gases and green hydrogen ⁶
- Retrofit of natural gas distribution lines to use
100% green hydrogen or other low carbon gases
whose emissions when used to generate electricity

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⁶ The activity includes leak detection and repair of existing gas pipelines and other network elements to reduce methane leakage. Low carbon gases are the gases whose life-cycle GHG emissions from the generation of electricity is lower than 100 gC02e/kWh until 2040 (beyond 2040, it should be < 50 gC02e/kWh)

	with emissions intensity < 100 gCO $_2e/kWh$. The	
	activity includes leak detection and repair of	
	existing gas pipelines and other networks to reduce	
	methane leakage.	
•	Construction and operation of the facilities that store	
	electricity, thermal energy and green hydrogen	
	- Construction and operation of electricity and green	
	hydrogen storage systems	
	- Construction and operation of the thermal energy	
	storage systems or geothermal energy storage	
	system where the generated energy with life cycle	
	emissions intensity < 100 gCO ₂ e/kWh	
•	Transmission and distribution of electricity	
	- Transmission and distribution infrastructure	
	dedicated to a direct connection or an expansion of	
	connection between power plants with energy	
	intensity < 100 gCO ₂ e/kWh (life cycle emissions)	
	- Transmission and distribution of electricity	
	infrastructures that are on the decarbonization	
	trajectory where > 67% of the newly connected	
	generation capacity in the system is below the	
	emission intensity < 100 gCO ₂ e/kWh (based on	
	Product Carbon Footprint (PCF) measurement,	
	over a rolling five-year period)	
	- In average system grid emissions factor is below	
	the threshold value of 100 gCO $_2e/kWh$ measured	
	on PCF basis, over a rolling five-year average	
	period	
	- Includes all enabling ICT systems and smart	
	management systems for the eligible infrastructure	
•	The enabling activity for renewable energy production	
	such as the PV or photovoltaic manufacturing, wind and	
	turbines, or energy storage (battery) manufacturing that	
	supports Renewable Energy	



2. Energy efficiency

(Such as in new and refurbished buildings that are related to apply efficient energy measures, energy storage, district heating, smart grids, appliances and products)

wastage.

 Promoting activities that enhance energy conservation or saving, e.g. buying efficient energy-saving products like EGAT Label No.5

Energy efficiency refers to conscious and purposeful energy usage. It encompasses efficient planning and control,

minimizing energy losses at all stages, and regular

equipment inspections and maintenance to prevent energy

- Implementing technologies or measures that align with international, regional or national standards for energy efficiency that have been awarded for energy efficiency
 - The examples technologies or measures such as using LED lighting instead of the traditional bulbs, implementing energy management system for better energy monitoring and optimization and using the energy-efficiency appliances that use less electricity. The standards for energy efficiency have various levels, aiming to help consumers identify energy-efficient products. For international standards like Energy STAR and national standards such as Thailand's EGAT No.5 label from the Electricity Generating Authority of Thailand (EGAT)
- Buying equipment/ technology that proves energy efficiency more than 20% compared to baseline (referenced from K-Energy Saving Guarantee Program)⁷
- Grid integration and smart grid technologies involve implementing new/ advanced technology for the grid connection, such as transformers, inverters, smart meters, energy storage systems, and a grid management system. These technologies should either reduce electrical system faults and interference, ensure

⁷ K-Energy Saving Guarantee Program detailed via <u>K-Energy Saving Guarantee Program – KASIKORNBANK</u>

	reliable transmission of power grid information or	
	enhance fault response time	
3. Pollution	Pollution prevention and control related to purchase and/or	6 CLEAN WATER
prevention and control	installation of products that deliver clear improvements in	
	waste reduction through either waste prevention or recycling.	¥
	Any activities that reduce, eliminate, or prevent pollution	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
dreenhouse das	at its source like the installation of wastewater	CO
	treatment system, water conservation	
romodiation waste	Activities that relate to waste treatment include	
	preparation collection separation reuse and recycling	
reduction, waste	 Activities that align with the IFC Blue Finance guidelines 	
requeling and	categories B. Water sanitation ⁸ which are detailed	
energy/emission-	below:	
efficient waste	 New or expansion of water treatment infrastructure 	
to energy)	 Bobabilitation or retrofit of existing water treatment 	
to energy)	infractructure	
	- wastewater treatment plants, including industrial,	
	agri-business, commercial, residential, or city	
	level. This also includes biogas and heat exchange	
	systems at wastewater treatment plants to	
	increase their efficiency and effectiveness	
4. Environmentally	Implementing techniques like smart farming or normally	
sustainable	known as precision farming, which is related to	-@-
management of living	incorporating advanced technologies such as sensors	10 RESPONSIBLE
natural resources and	and loT, drones and aerial imaging, automated	CONSUMPTION AND PRODUCTION
land use	machinery, data analytics, AI, and smart irrigation	CO
(Including	systems. This enables farmers to adapt to climate	13 CLIMATE
environmentally	variability and to maximize the efficiency of limited	ACTION
sustainable	resources. For example, drones can apply with	
agriculture,	tertilizers, pesticides, or herbicides spraying with	
environmentally	pinpoint accuracy, reducing environmental impact, that	

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⁸ Water sanitation: investments in the research, design, development, and implementation of water treatment solutions that under the IFC Blue Finance, https://www.ifc.org/content/dam/ifc/doc/mgrt/ifc-guidelines-forblue-finance.pdf

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sustainable animal husbandry, climate smart farm inputs such as biological crop protection or drip-irrigation, environmentally sustainable fishery and aquaculture)	 help of precision spraying for saving fertilizer, pesticides, or herbicides usage at least 20% or even improving crop yields at least 20%. Smart farming that produces the organic products accredited by the official organic farming logo i.e. G-Mark⁹, Organic Agriculture Certification Thailand (ACT)¹⁰ and International Federation of Organic Agriculture Movements (IFOAM)¹¹ Water conservation (to ensure sustainable management of freshwater resources and prevent water scarcity in some rural areas). For example, real-time sensors with a control unit to regulate irrigation amount. These sensors can monitor/detect the rainfall and prevent over-irrigation by pausing the irrigation system when rain is detected or determine the optimal irrigation schedule ensuring precise water saving at least 20% compared to traditional that verified by an external party Activities that align with the IFC Climate Smart Agriculture eligible¹²; Water-efficient irrigation system: Use of more efficient irrigation technologies. This aimed at water management for plantation that provides water saving. The documentation or engineering facility will be required for evaluation Water-efficient irrigation system: Rainwater
	harvesting and storage for future use

⁹ The "G Mark" is regulated by the Department of Agriculture (DOA) under the Ministry of Agriculture and Cooperatives. It signifies that a product meets the organic standards set by the DOA (https://www.thaiorganics.co.th/reference-standard/)

¹⁰ About the Organic Certifications (https://www.tuv-nord.com/th/en/our-services/food-safety/organic-certifications/)

¹¹ About the IFOAM (https://www.ifoam.bio/why-organic/organic-landmarks/definition-organic)

¹² Climate Smart Agriculture positive lists aimed to contribute to any of these targets (1) increase the productivity yield, (2) decrease the post-harvest loses, or (3) reduce the GHG emission or energy savings

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-	Solar & electric water pumps that are powered by	
	solar energy or renewable energy	
-	Tractors powered with alternative fuels: New	
	tractors powered with sustainable biofuel/	
	biodiesel (e.g. used cooking oil)	
-	Tractors powered with alternative fuels: New	
	tractors powered with low-carbon energy sources	
	(EVs or PHEVs)	
-	Machinery for precision agriculture and	
	conservation agriculture (no-till): Technologies	
	that optimize input and enhance operation	
	timeliness such as No-Till Planters, No-Till Drills.	
	For example, the programme that involves No-Till	
	machines (including No-Till Planters, No-Till Drills	
	and No-Thi Seeders) which use electric vehicles	

(EV) tractors.

-	Sustainable	greenhouses:	Vegeta	ables	grown	in
	sustainable	greenhouses	that	are	protect	ed
	against extreme events. Adaptation projects from					
	Thailand's N	ational Adaptati	ion Pla	n (NA	P).	

- Production of biomaterials and bioenergy: Use of agricultural residues and by-products¹³ in the production of market-valued processed products.
- Biodigester: System that collects and processes
 livestock manure as biogas for heating and
 electricity purposes.

5. Terrestrial and	• Activities that protect or remediate coastal, marine, 1	4 LIFE BELOW WATER
aquatic biodiversity	watershed environments and terrestrial biodiversity	
conservation	detailed example activities below. Comprehensive	
(Including the	documentation is needed to select projects that benefit	
protection of coastal,	biodiversity. However, this will excluded projects that	
marine and	were previously deteriorated by the same company and	
	ensure no further deterioration for the committed to	

¹³ For example, rice husk, straw, palm oil shell and residue wood chips from paper mill/ furniture industries.

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watershed environments)	 project' to ensure that the projects financed are not "restoration projects" implemented by stakeholders who run activities that were detrimental to the restored location. Mangrove restoration: the project should focus on planting mangroves to restore coastal ecosystems, protect against erosion, and provide habitats for various marine species. Comprehensive documentation is needed to select projects that benefit biodiversity. Coral reef restoration: the project work to restore damaged coral reefs by transplanting healthy corals, these efforts help maintain biodiversity. Comprehensive documentation is needed to select projects that benefit biodiversity. River basin management: the project involves protecting and restoring marine habitats, such as seagrasses and coral reefs, to support biodiversity and enhancing ecosystem services. Comprehensive documentation is needed to select projects that benefit biodiversity. Reforestation project in the National Park: the 	
	project focuses on reforesting degraded areas within National Park. It involves planting native tree species to restore habitats for wildlife.	
	 Comprehensive documentation is needed to select projects that benefit biodiversity. Sustainable land use and management¹⁴ 	
	 The projects aim to promote sustainable land use through agroforestry certified by external parties. The certifications and standards that ensure the 	

¹⁴ The financing will not go to the same borrower that cause the land deterioration. The borrowers who have previously deteriorated a natural area are excluded from the financing of the restoration projects.





other occasional coach services, taxi operation, passenger cars, airport shuttles and other renting of private cars with drivers, operation of school buses and buses for transport or employee, passenger transport by man-or animal-drawn vehicles with its direct (tailpipe) CO_2 emissions are below 75 g CO_2e /pkm until 2040 (after this year, passenger land transport with zero direct tail emission is eligible)

- Urban and suburban passenger land transport includes town-to-airport or town-to-station lines, operation of funicular railways, aerial cableways etc. This may include different modes of land transport, such as by motorbus, tramway, streetcar, trolley bus, underground, elevated railways etc.
 - For scheduled passenger road transport its direct (tailpipe) CO₂ emissions are zero
 - For scheduled passenger urban and suburban rail transport – its direct (tailpipe) CO₂ emissions are zero or when operated on a track with necessary infrastructure, and use a conventional engine where such infrastructure is not available (bimodal)
- Freight transport by road includes logging haulage, heavy haulage, renting of trucks with driver, transport of waste and waste materials, without collection or disposal, furniture removal, etc.
 - Freight transport with its direct (tailpipe) CO₂ emissions are zero
- Enabling infrastructure for low-emission transport that not solely to support internal combustion engines vehicles as well as transport or storage of fossil fuels
 - Rail transport: activities that support the electrified trackside infrastructure and associated subsystems, trackside control-command,

	signaling subsystems, infrastructure that dedicated	
	to transshipping freight between the modes	
	- Activities and infrastructures that support personal	
	mobility or cycle logistics such as pavements, bike	
	lanes and pedestrian zones, electrical charging and	
	hydrogen refueling installations	
	- Road transport: activities that support electric	
	charging points, electricity grid connection	
	upgrades, hydrogen fueling stations or electric road	
	systems (ERS) or infrastructure installations are	
	dedicated to transshipping freight between modes	
	or dedicated to urban and suburban passenger	
	transport	
	- Water transport: activities that support electricity	
	charging, hydrogen-based refueling, or	
	infrastructure that are dedicated to the provision of	
	shore side electrical power to vessels	
	- Airports: activities that support electricity charging	
	and hydrogen refueling stations	
•	Manufacturing or production of electric and hybrid	
	vehicles, EV batteries, automotive parts for EV, EV	
	charging stations, hydrogen fueling stations, electric	
	road systems	
•	Sea and coastal water transport (passengers or	
	freight)	
	- Sea and coastal water transport that complies with	
	the green thresholds established for the specific	
	kinds of ships (types and size) ¹⁵ that comply to	
	green thresholds established in Thailand Taxonomy	
	Phase I, Table 13 and Table 15.	
•	Inland water transport (passenger or freight) via rivers,	
	canals, lakes, and other inland waterways, including	

¹⁵ The green criteria threshold for the shipping sector is specific to the ship's type/size category reaching zero emissions by 2050 (see **table 13**, <u>Thailand Taxonomy Phase I</u>)

in	side harbors ar	nd ports,	rental of	pleasure	e boats v	with	
cr	ews for inland	water tra	nsport				
-	Inland water	r transpo	ort or ve	ssels (f	reight) v	with	
	have zero di	rect (tail	pipe) CO	2 emissio	ons		
-	For passeng	er inland	water tra	ansport -	- Hybrid	and	
	dual fuel ve	essels de	erive at	least 50	D% of t	heir	
	energy from	zero di	rect (tail _l	oipe) CC	D ₂ emise	sion	
	fuels or plug	g-in pow	er for the	eir norm	al opera	tion	
	(until 31 De	cember	2027)				
• Tł	ne specialty ele	ctric vehi	cles (EVs	s) that a	nre desig	ned	
to	perform speci	fic tasks	or purpos	ses whic	h have z	zero	
di	rect tailpipe em	nissions a	and/or us	ed adva	nced bat	tery	
te	chnologies that	t can cha	rge using	RE sour	ces such	n as	
-	Electric forkli	fts used	in wareh	ouses a	nd indus	trial	
	for material	handling					
-	Electric golf o	arts use	d in golf c	ourses,	resorts,	and	
	gated comm	unities					
• Re	etrofitting sea a	nd coast	al freight :	and pass	senger wa	ater	
tra	ansport (not al	low the v	essels ca	arrying fo	ssil fuel	s)	
-	Retrofitting of	of vesse	ls that le	eads to	having z	zero	
	direct (tailpi	be) CO ₂	emission	s			
-	Retrofitting	vessels	with dir	rect (ta	ilpipe)	CO ₂	
	emissions th	nat are a	ligned wit	h Table	3	_	
	Transportation	2022-	2026-	2031-	2036-		
	sector (Shinning)	2025	2030	2035	2040		
	Emission	< 8.9	< 7.92	< 7	< 6		
	Intensity						
	(gCO2/t-						

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7. Sustainable water and wastewater	• Infrastructure for clean and/or drinking water (i.e. construction and rehabilitating water wells, $-M/$
and wastewater management (Including sustainable infrastructure for clean and/or drinking water, wastewater treatment, sustainable urban drainage systems and flooding systems)	 construction and rehabilitating water wells, improvement of the rainwater catchment systems and clean drinking water Infrastructure for river training of flood mitigation (i.e. infrastructures using engineering techniques to control river flow aimed to mitigate flooding and riverbank erosion). These infrastructures aim to be implemented in the rural areas where no such kinds of water services coverage. Infrastructure for wastewater treatment and sustainable urban drainage system. Installation equipment for improving efficiency of water consumption includes high-efficiency toilets, industrial high-pressure, low-volume nozzles, and water-saving appliance replacements. The necessary information from third parties or technical sources would be required. The investment that addresses the water supply and water sanitation aligns with IFC Blue Finance Guidelines: A. Water supply and B. Water sanitation¹⁶ detailed below; A. Water supply: investments in research,
	design, development, and implementation of efficient and clean water supply. These infrastructures aim to be implemented in rural areas so that the services have no coverage vet.

¹⁶ <u>The IFC Blue Finance Guidelines</u> (see https://www.ifc.org/content/dam/ifc/doc/mgrt/ifc-guidelines-forblue-finance.pdf):

A. Water supply: investments in the research, design, development, and implementation of efficient and clean water supply

B. Water sanitation: investments in the research, design, development, and implementation of water treatment solutions

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1) Water efficiency technologies and		
equipment and water management		
activities that reduce water footprint. This		
includes the financing or refinancing of		
technologies where the manufacturers		
show the respective substantial water		
efficiency benefits or a documented		
reduction in water consumption in land-		
based aquaculture, agriculture and		
irrigation, and residential, commercial, and		
industrial uses. For example, drip irrigation		
or sprinkles deliver water directly to the		
roots of plants, reducing waste and saving		
up at least 20% of water compared to		
traditional irrigation methods.		
2) New drinking water treatment, storage,		
and sustainable supply infrastructure that		
documents at least 20% water savings per		
unit of service compared to a documented		
baseline		
3) Rehabilitation of existing water		
infrastructure that documents at least 20%		
water savings per unit of service compared		
to a documented baseline		
4) More sustainable desalination plants		
that help protect groundwater depletion and		
wetlands and avoid hypersaline pollution of		
the environment ¹⁷		
- B. Water sanitation: investments in		
research design development and		
implementation of water treatment solutions		

¹⁷ the average carbon intensity of the electricity that is used for desalination is at or below 100 gC02e/kWh, Climate Bonds Initiative for desalination plants.

https://www.climatebonds.net/files/files/Water%20Criteria%20Document%20Final_100822.pdf



	These facilities aim to be implemented in rural	l
	areas where the services have not coverage yet.	l
	1) New or expansion of water treatment	l
	infrastructure	l
	2) Rehabilitation or retrofit of existing	l
	water treatment infrastructure	l
	• Wastewater treatment plants, including industrial,	
	agri-business, commercial, residential, or city	l
	level. This also includes biogas and heat exchange	l
	systems at wastewater treatment plants to	l
	increase their efficiency and effectiveness	
8. Climate change	Activities that increase the resilience of ecosystems. KBank	13 CLIMATE ACTION
adaptation	has a process in place to ensure that for each underlying	
(Involving a range of	project, risks and vulnerabilities are identified, and	
strategies to adjust	contributions to addressing these risks/vulnerabilities are	l
the effects of climate	assessed on a case-by-case basis.	l
change)	Buying, selling, owning and renting out real estate	l
	objects with certain adaptation characteristics	l
	• Building seawalls to protect against sea-level rise,	l
	or constructing flood defenses	l
	• Maintenance/ setting up the early warning	l
	systems	l
	Diversifying crops for changing conditions,	l
	managing natural resources wisely, and promoting	l
	climate-resilient practices	l
	• Mangrove planting, habitat conservation, and	
	selective breeding for drought-resistant crops or	
	other nature-based solutions or rely on blue or	l
	green infrastructure whenever possible	
9) Circular economy	These activities/adapted products that enhance usability,	7 AFFORDABLE AND CLEAN ENERGY
adapted products,	facilitate disassembly, and supports biodegradability or	-0-
production	recycling, thereby reducing the need for new resources and	215
technologies and	minimizing waste. Additionally, sufficient documentation is	13 CLIMATE ACTION
processes	required and assessed case by case. The adapted products,	
	production technologies, and processes are as follows:	

(Including of the
measures that can be
taken to adapt
products, production,
and technologies for
the effects of
sustainable economy
that reduce impact of
environment)

- Design products for durability, repairability, recyclability and biodegradable. For example, the textile industry uses materials like recycled polyester 100% from post-consumer waste.
- Utilize renewable energy sources and aim for carbon-neutral manufacturing such as installing solar panels to generate electricity independently.
- Use logistics strategies that reduce the carbon footprint, such as electric delivery vehicles
- Waste-to-energy plants involve converting waste materials into usable forms of energy, such as electricity or heat. For example, the anaerobic digestion method converts wastewater into biogas that can generate electricity
- The incineration plants to convert waste (biogenic or sludge) into energy, producing electricity and heat.
- Implement food waste composter to convert food waste (organic waste materials) into nutrient-rich compost that can be used further for soil improvement material
- Implement processes that minimize waste (landfill waste) and conservation natural resources such as incorporating recycled materials into the new production process. For example: The recycling program or process collects and processes recyclable materials such as glass, paper, aluminum for the purpose of manufacturing new products, thereby reducing reliance on virgin materials. KBank will establish recycling thresholds based on the specific material, taking into account available technologies and market demand for recycled products. The following recycling rate thresholds for new production processes are specific to each material e.g. glass

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	(90-100%), paper (90-100%), and Aluminum (90-100%)	1
10) Green building	Construction of new buildings that comply with	7 AFFORDABL
(Incorporate	international, regional and/or national recognized	
measures that are	green building certifications (at all levels) such as	
environmentally	LEED, BREEAM, EDGE, TREES	11 SUSTAINABLE AND COMMU
friendly and	Construction of Data center that complies with	. 🖬 🛦
resource-efficient	international, regional and/or national recognized	
across the building	green building certifications and standards (at al	13 CLIMATE ACTION
lifecycle, or meet	levels (i.e. LEED, TREES)	E.
regional national or	Acquisition or ownership of buildings (new and/or	
internationally	existing buildings) under Green home mortgage	
recognized standards	criteria require meet the green housing standard	
or certifications for	certification from international and/or national	
environmental	building standards (at all levels) such as LEED.	
performance)	BREEAM, EDGE, TREES	
periormanee)	Green condo mortgage criteria that meet the green	
	building standard certification from national and	,
	or international (at all levels), such as LEED.	
	BREFAM, FDGE, TREES	
	Internal Green home mortgage criteria for homes	
	that meet the green housing standard certification	
	from international and/or national building	r
	standards such as LEED BREEAM EDGE TREES	
	Acquisition or ownership of buildings (existing	r -
	huildings) under Green home mortgage criteria	, ,
	require installation of the solar roofton	I
	Renovation of existing residential or commercial	1
	huildings that compliance with international	
	regional and /or national recognized green building	r
	certifications (at all levels) such as LEED	, [
	BREFAM EDGE and TREES	
	Renovation of existing residential or commercial	
	huildings that help to achieve energy performance	
	improvements at least 30% reduction in amission	

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¹⁸ The Department of Alternative Energy Development and Efficiency (DEDE) has established the Building Energy Code (BEC), which sets minimum energy efficiency requirements for new and renovated buildings

²⁰ The following projects might be installation of the equipment/ infrastructure that relevant to resource saving, or improvement of insulation system, replacement of existing windows with new energy-efficiency windows, replacement of energy-efficiency light sources, or replacement of existing external doors with new energy-efficient doors.

¹⁹ The following projects might be installation of the equipment/ infrastructure that relevant to resource saving, or improvement of insulation system, replacement of existing windows with new energy-efficiency windows, replacement of energy-efficiency light sources, or replacement of existing external doors with new energy-efficient doors.

Acquisition or ownership of buildings (new and/or	
existing buildings) KBank set its criteria specific	
to assets below.	
Green home mortgage criteria require at least	
one of these following criteria.	
(1) Meet the green bousing standard	
certification from international and/or	
such as LEED REEAM EDGE TREES	
Such as LEED, BREEAWI, EDGE, TREES,	
(2) Install the solar roottop, or	
(3) Meet the Internal KBank Green Mortgage	
(see Appendix 1)	
Green condo mortgage criteria require meeting	
one of these criteria.	
(1) Meet the green building standard	
certification from national and/ or	
international (at all levels), such as	
LEED, BREEAM, EDGE, and TREES or	
(2) Achieve at least 30% energy efficiency	
improvement over the Thailand's Building	
Energy Code that established by DEDE ²¹	
Installation, maintenance, and repair of special-	
purpose building equipment that achieve energy or	
resource savings ²²	

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²¹ The Department of Alternative Energy Development and Efficiency (DEDE) has established the Building Energy Code (BEC), which sets minimum energy efficiency requirements for new and renovated buildings

²² The following projects might be installation of the equipment/ infrastructure that relevant to resource saving, or improvement of insulation system, replacement of existing windows with new energy-efficiency windows, replacement of energy-efficiency light sources, or replacement of existing external doors with new energy-efficient doors

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11) Green technologies	 Carbon extraction technologies such as Direct Air Capture (DAC)²³ and Carbon Capture Storage (CCS)²⁴ facilities, can vary in appearance depending on their design and scale. The facilities required to capture and process CO₂ from the air or flue gas from the industrial processes but included measures to ensure the CO₂ is stored and processed properly. Comprehensive documents are required. Green Hydrogen storage facilities that support the electrolysis reactor Energy Storage Systems (ESS) such as pumped hydro storage that pump water to a higher elevation during periods of low energy demand to generate electricity

 $^{^{\}rm 23}$ For DAC, the measures ensuring the $\rm CO_2$ is permanently and safety stored are in place

 $^{^{\}rm 24}$ The CCS process (including the energy needed for the capture process) is efficient



4. Process of project evaluation and selection

KBank established the Credit Lending Policy on Environment, Social and Governance and Sector-Specific Guidelines which provide information about the ESG exclusion list and Sector-Specific Guidelines²⁵ while having in place measures for risk management appropriate for high ESG risk sector to ensure that credit supported by KBank will effectively manage in environmental and social impacts over the loan term period.

This process will be implemented through the following steps:

• Step 1: Asset screening and selection

In the project evaluation and selection process, KBank expects, as a minimum, that clients meet applicable environmental and social laws and regulations relevant to their business processes, consider the international and/or national practice approaches, and hold relevant licenses and permits. The social and governance standards encompass compliance with labour laws, human rights, anti-corruption measures, and fair business practices. These elements are evaluated to ensure adherence to minimum safeguards. Additionally, KBank will take into consideration and make every effort to ensure that selected projects do not cause significant harm to the environment or society.

The corporate banking team employ tools²⁶ for environmental and social screening which can be applied for all new credit lending as summarized in **Table 4**.

²⁵ ESG Exclusion List and Sector-Specific Guidelines are available via official website: https://www.kasikornbank.com/en/ir/corporategovernance/transparency/pages/esg-credit-policy.aspx

²⁶ The ESG (Environmental, Social, and Governance) Screening Form is an internal tool used to assess the green eligibility of a project. It helps identify and evaluate potential social and environmental risks associated with the project. By using this form, KBank can ensure that projects align with sustainability goals and adhere to responsible investment principles.



Commercial credits for medium business and	Project finance
corporate customer	
1. Checking the industry type against the	1. Checking the industry type against the
Exclusion List	Exclusion List
2. Assessing ESG impacts via General ESG	2. Classifying the credit application types for
Screening Form	projects that may create environmental or social
3. Approving or rejecting the applications in	impacts, based on global principles and
accordance with the delegated authority, and	notifications of the Ministry of Natural
determining environmental and social	Resources and Environment
conditions	Assessing ESG impacts via the initial ESG risk
	assessment form to be delivered to responsible
	officers for assessment of project management
	3. Requesting approval of heads of business
	divisions and Enterprise Risk Management
	Division for detailed study of the projects
	(without approval, the processes terminate)
	4. Reporting to the Corporate Governance
	Committee for recommendations
	5. Studying details and negotiating about
	project feasibility in terms of credit and
	environmental management
	6. Approving or rejecting the applications in
	accordance with the approval authority, and
	determining environmental and social
	conditions

Table 4: ESG screening processes in accordance with project type

• Step 2: Internal validation

Designated members of the working group are assigned specific responsibilities to oversee and manage the governance process of related eligible asset operations. Ensuring the adherence of selected assets to the green framework and its associated policies where not have a significant adverse impact on the environment and society.

These 2 steps ensure that the selected projects align with KBank's sustainability strategy and green finance framework.



5. Management of proceeds

The Working Group, which includes key functional teams such as the corporate banking teams (from business division), the Visionary and Corporate Strategy Department, the Central Treasury Department and the Sustainable Development Unit will collaborate to manage all eligible green assets according to this framework. The Working Group will ensure the proceeds from green liabilities will be fully allocated to eligible green assets. Also, all the eligibility of the green proceeds will be flagged as "Green" in the internal information system for monitoring reason where the Working Group can review and monitor periodically at least three times per year to ensure full transparency and accountability throughout the loan duration. The green loan that flagged in the internal bank system will be selected further for bonds and deposits issuance. The green loan asset is always monitored timely to ensure the eligibility criteria and not double counting.

This Green Finance Framework is implemented for all green eligibility proceeds. The Use of Proceeds can cover liabilities such as loans, bonds, and deposits. The allocation and updating of eligible projects will be managed by the working group. KBank commits to maintaining a total eligible green loan portfolio that exceeds the net proceeds from outstanding bonds and deposits (buffer mechanism). The working group will closely monitor that buffer amount to prevent unexpected decreases in outstanding eligible asset pool.

For management, if a loan facility is provided in multiple tranches, KBank will maintain separate accounts for each tranche and ensure proper tracking for transparency. Also, in the event that an eligible project does not meet the established green criteria, that associated proceeds will be reclassified as non-green.

The net proceeds from green can be administered on an individual bond and loan basis (loan-by-loan approach and bond-by-bond approach). This approach ensures that the funds generated from each bond, deposit and loan are monitored and managed separately, guaranteeing their allocation to their intended purpose.

6. Reporting

The allocation and impact reporting occurs annually until the entire loan or financing amount has been fully allocated for eligible projects. Moreover, the total green loan and investment (bond, deposit, etc) under this Green Finance Framework will be published and publicly disclosed on the official website and available for downloaded²⁷. The entirety of the assets to be financed will be reported on the aggregated/portfolio level. The monitoring and reporting concepts will apply equally to green loans, green bonds, and green deposits.

²⁷ More information via <u>https://www.kasikornbank.com/en/sustainable-</u> <u>development/goal/Pages/environment.aspx</u>



Allocation report

The report will provide an allocated amount with detailed breakdown of eligible green projects with a brief description of projects. Also, the amount of unallocated proceeds and how they are managed. KBank will track all green eligibility projects with the project base. However, for the reporting manner, the green assets will aggregate into the portfolio basis, in the level of green category.

Impact report

This report will provide the relevant environmental impact indicators of the eligible green projects. The report may include impact indicators such as renewable energy generated and GHG emission avoided. However, the detailed indicators for impact reporting will be derived from ICMA's Harmonized Framework of Impact Reporting.

7. External Review

Green Finance Framework- KBank will engage an external reviewer from ISS Corporate Solutions (ICS) to provide assurance on its Green Finance Framework and proposed issuance to confirm alignment with the ICMA and Thailand Taxonomy. The second party opinion will be made publicly available and published on the Kasikorn Investor Relations webpage.

Allocation and impact report KBank will engage the external reviewer to provide assurance on the annual report. The second party opinion will be made publicly available and published on the Kasikom Investor Relations webpage.



Appendix 1

Internal green mortgage for home

To be eligible for the internal green mortgage for home, the loan must satisfy at least one of the following criteria:

- 1. Meet the green housing standard certification from international and/or national building standards (at all levels) such as LEED, BREAM, EDGE, and TREEs, or
- Install the solar rooftop or other techniques related to green innovations that are proven to save energy, such as smart thermostats or AI-controlled systems. These measures can significantly reduce your household energy consumption. or
- 3. Meet at least 7 of 11 requirements (see **Table A1**)

Requirements	No.	Description and criteria
Water and waste	1	Installation of water-efficient equipment (showerheads for
management		bathroom and faucets for kitchen sinks)
	2	Installation of grease traps for managing wastewater from kitchens
Materials and	3	Use environmentally friendly materials that are certified Green Labels
resources		or Carbon labels of Thailand at least 5 items such as eco-friendly
		paints, eco-cement, or recycled paper products and equivalent.
		These are certified with Green Labels such as Green Label Thailand
		by TEI ²⁸ and EGAT Energy Label No.5 Label
Energy	4	Design fresh air volume into the building that shall meet the
management		minimum requirements specified in the Thai laws that including
		provisions for both mechanical air conditioning and natural methods
	5	Design the insulation thickness for exteriors wall and roofs to ensure
		that the Overall Thermal Transfer Value (OTTV) is less than 40
		watts/m² referenced to Thailand BEC standard
	6	Use the air conditions with label number 5 energy efficiency (or
		above) rating by Electricity Generating authority of Thailand (EGAT)
	7	Window positions can be designed to optimize natural light, reduce
		glare, and minimize heat gain based on various conditions. This
		includes achieving a Daylight Factor (DF) of more than 1.5% or

Table A1: The internal green home criteria

²⁸ https://www.tei.or.th/file/library/2022-know-greenlabel-thailand-eng_74.pdf

		designing windows in such a way that the total window area exceeds
		15%.
	8	Design the efficient lighting with Lighting Power Density (LPD) is less
		than 8 watts/m ² referenced to Thailand BEC standard
	9	Use the lights with label number 5 energy efficiency (or above) rating
		by Electricity Generating authority of Thailand (EGAT)
Heating and	10	Design good ventilation (natural and/or mechanical ventilation) to
ventilation system		ensure the healthy indoor environment such as installation of hood
		in kitchen, or exhaust fans in bathrooms comply with the Thailand
		Building Act, 2522. The heating and ventilation criteria depend on
		whether the area is air-conditioned or non-air conditioned. This
		includes specific settings for air volume (measured as units of air
		volume per area) based on room functions such as bedrooms (> 2
		$m^3/h/m^2$), toilets (> 10 $m^3/h/m^2$), and kitchens (> 30 $m^3/h/m^2$).
Green Innovations	11	Other techniques such as installation of renewable energy systems
		such as solar, wind or smart home which automate household
		functions can significantly enhance energy or water savings.
		Examples of smart home devices include smart thermostats that
		adjust settings when the home is unoccupied, smart lighting
		systems that can be controlled remotely or via motion sensors,
		energy monitoring systems, smart appliances that operate during
		off-peak hours, and leak detector devices that prevent energy
		waste.