

Hana Financial Group Sustainable Finance Framework Guide





Hana Financial Group Sustainable Finance Framework Guide

Contents

Sustainable Finance Framework Sector Policy Guide	4
Carbon-Intensive Sector Guide	4
Prohibited Activities Guide	7
Hana Taxonomy Guide	7
Environmental & Social Risk Management (ESRM) Guide	8
[Appendix] Detailed List of Sustainable Finance Taxonomy	11

Sustainable Finance Framework Sector Policy Guide

Carbon-Intensive Sector Guide

Hana Financial Group Sustainable Finance Framework 3-1-2. The following is the Guide for Carbon-Intensive Sectors that produce large amounts of greenhouse gas emissions.

ESG Restricted Industries

Hana Financial Group defines restricted industries as follows and will be implemented from 2021. ESG restricted industries are industries with restrictions on credit and direct investment due to climate change risks and new transaction with those industries are prohibited. However, if the purpose of the fund is to increase green activities and social sustainability, those transactions may be considered as an exception. In such cases, the purpose of financing should be related to 'Hana Taxonomy'.

1. Mining of Coal and Lignite (Korean Standard Industrial Classification B05100)

Applicable to all industry credit and direct investment, but exceptions may be made in cases where the social support is used in essential cases such as for the socially disadvantaged.

2. Extraction of Crude Petroleum and Natural Gas (Korean Standard Industrial Classification B05200)

Applicable to loans and direct investments for businesses; natural gas may be an exception if used as an energy source that serves as a bridge to a carbon-neutral society. However, natural gas mining for Arctic development, Hydraulic Fracturing or Oil Sands Development Gas are prohibited.

3. Mining Support Service Activities (Korean Standard Industrial Classification B08000)

Applicable to loans and direct investments in businesses supporting the above-mentioned coal mining, oil and natural gas mining; natural gas may be an exception if used as an energy source that serves as a bridge to a carbon-neutral society. However, natural gas mining for Arctic development, Hydraulic Fracturing or Oil Sands Development Gas are prohibited.

4. Thermal Power Generation (Korean Standard Industrial Classification D35113)

Financing for new projects in coal-fired power plants is fundamentally prohibited. However, for other financing, corporate credit, and direct investments, the case may be reviewed and determined in consideration of the environmental and social risks of the project.

5. Others

Hydro power plants with a capacity of 20 MW or a dam with a height of 10 m or more can be handled only when environmental and social risk is limited according to the International Hydropower Association Sustainability Assessment Protocol evaluation. For credit and investment related to palm oil or soybean, financial transactions are possible only with farms or companies that have received Roundtable on Sustainable Palm Oil (RSPO) and Roundtable on Responsible Soy (RTRS) certifications, respectively.

Loans and investments that are not clear on the purpose of the funds or that can carry HFG's reputational risk are excluded.

Industries with ESG-concerns

Hana Financial Group defines industries with ESG-concerns as follows (accumulated and expanded gradually from 2021 to 2023), and its environmental and social risks are comprehensively reviewed and approved. Industries with ESG-concerns refer to industries in which loan and direct investment are selectively limited based on comprehensive review on environmental and social risk. This applies only to projects (e.g. more than USD 10 million) or companies (e.g. total assets of KRW 2 trillion or more) with large environmental and social impacts. However, if the purpose of the fund is to increase green activities and social sustainability, such projects may be considered as an exception. In such cases, the purpose of financing should be related to 'Hana Taxonomy'.

[Industries with ESG-concerns applicable from 2021]

1. Manufacture of coke and related products (Korean Standard Industrial Classification C19101)
2. Manufacture of briquettes and other coal products (Korean Standard Industrial Classification C19102)
3. Petroleum refineries (Korean Standard Industrial Classification C19210)
4. Manufacture of lubricating oils and greases (Korean Standard Industrial Classification C19221)
5. Reprocessing of other fractionation in petroleum refinery (Korean Standard Industrial Classification C19229)

[Industries with ESG-concerns applicable from 2022]

1. Manufacture of basic iron and steel (Korean Standard Industrial Classification C241)
2. Manufacture of basic precious and non-ferrous metals (Korean Standard Industrial Classification C242)
3. Casting of metals (Korean Standard Industrial Classification C243)

[Industries with ESG-concerns applicable from 2023]

1. Manufacture of basic chemicals (Korean Standard Industrial Classification C201)
2. Manufacture of plastics and synthetic rubber in primary forms (Korean Standard Industrial Classification C202)
3. Manufacture of fertilizers, pesticides, germicides and insecticides (Korean Standard Industrial Classification C203)
4. Manufacture of other chemical products (Korean Standard Industrial Classification C204)
5. Manufacture of man-made fibers (Korean Standard Industrial Classification C205)

For reference, in the environmental and social risk assessment of ESG-concern industries, the following 'Climate Finance ESG-Concern Businesses Checklist' may be used to prohibit new loans and investment approvals for companies with a total score of less than 70.

Checklist

#	Item	Answer		Evaluation table
		Unit	Information required	
1	Please write down the greenhouse gas emissions of your company for the past 3 years (Scope 1 + Scope 2).	tCO ₂ e	3-year greenhouse gas emissions	If the data for each year are available, 5 points respectively. 20 points for all submissions
2	Please write down the share of the greenhouse gas emissions based on your company's consolidated financial statements including overseas business sites.	%	The scope of 3-year greenhouse gas emissions calculation	20 points if the average is 75% or higher for 3 years
3	Is the above greenhouse gas emissions information publicly available? If so, please provide the URL where the information is available	URL	Emission information disclosed URL	If the disclosure of such information is confirmed, 20 points
4	Is the above greenhouse gas emissions information verified by an external agency?	Y/N	Verification agency name	20 points for external verification
5	Does your company have a long-term greenhouse gas emissions reduction target?	Description	Base year, reduction target (%), whether it is an absolute value and KRW unit, and if unit is KRW, calculation method	If long-term reduction target is presented, 10 points. If the reduction target is 3% or more annually, 10 points
6	Write down greenhouse gas emissions amount expected on the loan re-examination year according to your company's long-term, greenhouse gas emissions target.	Description	Repayment year, reduction target (%), whether it is an absolute value and KRW unit, and if unit is KRW, calculation method	10 points deduction if existing target at the timing of the re-examination is not achieved.

Prohibited Activities Guide

Hana Financial Group Sustainable Finance Framework 3-1-3. Prohibited Activities Guide is as follows.

The prohibited industries and activities that are excluded from Hana Financial Group are as follows and applied regardless of business type.

Prohibited Activities

- Coal power generation project financing (including relevant investment such as bond underwriting)
- Human rights infringement such as child labor exploitation, forced labor, and human trafficking
- Industries that may be involved in international terrorism, armed groups and criminal organizations, such as mining and smelting conflict minerals
- Mining and trading of raw diamonds that are not certified by the Kimberley Process
- Hunting and processing of IUCN endangered species
- Ramsar Convention Protected Wetlands Development Project financing
- UNESCO World Heritage Development Project financing

Hana Taxonomy Guide

The Hana Financial Group Sustainable Finance Framework 3-2. Sustainable Finance Taxonomy Guide is as follows.

Hana Taxonomy was established by applying the 'Green Financial Guidelines' of the Financial Services Commission and the 'K-Taxonomy' of the Ministry of Environment. It also refers to the European Union's Green Classification System (EU Taxonomy). The holding company provides the 'Hana Taxonomy Asset List (a separate Excel file)' to its subsidiaries. Hana Taxonomy may be revised according to the definition of green finance by governments and institutions around the world, as well as by the policies of the Korean government. (Upon major revision of the definition, the holding company should notify the subsidiaries of the revised content immediately.)

Hana Taxonomy will individually review cases for project financing and specific products (green loans, eco-friendly/social-themed investment or credit products, etc.) in the second half of 2021, and expanded after 2022 (e.g. for banks, it will be applied to head office loans in 2022, and expanded to apply to all loans after 2023).

Hana Taxonomy can be applied by each subsidiary by establishing its own management system, and if the purpose of the fund is included in the 'Hana Taxonomy Asset List', preferential treatment can be given during screening.

Environmental & Social Risk Management (ESRM) Guide

Hana Financial Group Sustainable Finance Framework 3-3. Environmental & Social Risk Management (ESRM) Guide is as follows.

1. Applicable Scope of Transaction

Transactions covered by the ESRM policy are new projects, transactions that support the expansion or improvement of existing projects, and are any of the following : The scope of application of ESRM may be adjusted according to the characteristics of the financial products and services of the affiliated companies to which it is applied.

- ① Project finance advisory services with a total project value of more than USD 10 million
- ② Project financing with a total project value of USD 10 million or more
- ③ Loan to companies related to projects that meet all of the following three conditions
 - i. In relation to a project in which the client has (directly or indirectly) effective operational control of the majority of the loan amount
 - ii. If the total loan amount and individual commitment of EPFI (syndication or sales transfer) is over USD 50 million respectively
 - iii. Loan period of 2 years or more
- ④ A bridge loan with a loan period of less than 2 years for which refinance is intended as a project finance or project-related corporate loan that is expected to satisfy the conditions of 2 and 3 above⁴⁾
- ⑤ Corporate loan related to projects that meet all of the following three conditions
 - i. The project was financed under the historical Equator Principles framework.
 - ii. No significant changes in the size or scope of the project
 - iii. Project completion has not yet occurred at the time of signing the financial contract

2. How to Identify and Classify Risk

We identify and evaluate potential environmental and social risk of projects, including risk and impacts related to human rights, climate change and biodiversity, for transactions covered by ESRM policies. If the project uses existing assets, then environmental and social audits or risk and hazard assessments are appropriate. If assets need to be acquired or developed, an environmental and social due diligence plan is

4) In the case of project financial advisory services and bridge loans provided at the beginning of the project, the contents of the Equator Principles, how to apply, and the benefits that can be obtained from implementing the Equator Principles must be explained to the customer and the customer should deliver its intention to follow the Equator Principles upon long-term financing in the future.

established to evaluate future risk and impact. When identifying environmental and social risks of a project, greenhouse gas emissions, climate change and adaptation, and potential environmental and social impacts that may affect other regions or countries should be considered, and the standards are based on the following IFC implementation standards.

- Implementation Standard 1 : Assessment and management of environmental and social risk/influence
- Implementation Standard 2 : Labor and work environment
- Implementation Standard 3 : Resource efficiency and pollution prevention
- Implementation Standard 4 : Health, safety and security of the community
- Implementation Standard 5 : Land acquisition and involuntary relocation
- Implementation Standard 6 : Biodiversity conservation and sustainable management of natural living resources
- Implementation Standard 7 : Indigenous people
- Implementation Standard 8 : Cultural heritage

Environmental and social risks are classified as follows according to the potential risk.

- Grade A : Projects with significant negative environmental and social risk and/or influence potential, where those risk and/or influence are diverse, irreversible or unprecedented.
- Grade B : Projects with limited negative environmental and social risk and/or influence potential, where the number of such risks and/or influence is small, usually local in scope, mostly reversible, and readily addressable through mitigation measures.
- Grade C : Projects with minimal or no adverse environmental and social risk and/or influence. For projects belonging to Grade B, relatively high-risk Grade B projects are treated similarly to Grade A projects, and relatively low-risk Grade B projects may be subject to more relaxed standards than relatively high-risk Grade B projects.

In the case of Grade B, with a relatively high risk, it is treated similarly to Grade A. In addition, Grade B can be applied less relaxed standards than Grade B with relatively high risk.

3. Risk Analysis and Assessment

HFG comprehensively analyzes and evaluates the environmental and social risk of the project based on its own due diligence and environmental/social risk assessment documents submitted by customers.

HFG conducts due diligence on the environmental and social risk by considering the risk grade of the project and essentially conducts due diligences for projects and transactions that are risk grade A and B. The scope of the due diligence is determined by considering the nature of the project, its size, the stage of development, the level of the environmental and social risk and influence. An independent environment or social consultant may also be used as needed. By conducting the due diligence, it is reviewed whether

the project and related financial transactions comprehensively satisfy the following criterias, and additional criterias can be applied if necessary. If the criterias are not met, the justification for the reason is reviewed.

The standards applied for due diligence differ depending on the country in which the project is performed, and if the project is carried out in a non-designated country⁵⁾, the due diligence and evaluation of risks specific to the project are additionally performed.

- If the project is conducted in a non-designated country
 - The assessments of environmental and social risks are based on : IFC implementation standards, World Bank Group's Environmental, Health and Safety Guidelines
 - Assessment of project-specific risk : local laws and IFC implementation standards
- If the project is conducted in a designated country
 - The assessments of environmental and social risks are based on : laws, regulations and licensing matters of the country where the project is conducted.

4. Risk Monitoring

For grade A and relatively high-risk grade B project finances and project-related corporate loans, HFG may utilize independent environmental and social consultants to ensure that the clients comply with the Equator Principles after the Financial Close.⁶⁾ and during the loan period. The client may also use an independent third party environmental and social consultants to both verify and report to HFG.

If the client is a national, regional or local government departments or institutions, HFG may utilize independent environmental and social consultants or conduct the monitoring activities ourselves.

In addition, results of monitoring conducted by multilateral and bilateral development financial institutions or the OECD Export Credit Agency can be utilized.

5) Designated countries are those included in the World Bank's list of high-income countries among OECD member countries, and non-designated countries are other countries. The Equator Principles Association Secretariat updates the list of designated countries every quarter and publishes it on its website (<https://equator-principles.com/designated-countries/>).

6) The date on which the prerequisites for the initial withdrawal of the borrowings are met or the conditions are exempted

Appendix

Detailed List of Sustainable Finance Taxonomy

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Forest	Forest Conservation	Eco-friendly	Afforestation : Activities to plant, maintain and protect trees in a sustainable method to produce trees certified by the forest management certification under the Korea Forest Certification System		●
Forest	Forest Conservation	Eco-friendly	Forest Rehabilitation and Reconstruction : Activities to induce and accelerate the restoration of damaged ecosystems by obtaining certifications for domestic and international sustainable forest management, such as from the forest management certification of the Korea Forest Certification System		●
Forest	Forest Conservation	Eco-friendly	Reforestation : Activities to recreate forests through planting and sowing on land classified as forests. To obtain domestic and foreign certifications for sustainable forest management, such as from the Korea Forest Certification System.		●
Forest	Forest Conservation	Eco-friendly	Existing Forest Management : Activities to manage forest land and acquire certifications for domestic and foreign sustainable forest management, such as the certification from the Korea Forest Certification System.		●
Forest	Forest Conservation	Eco-friendly	Forest Conservation : Activities to conserve the forest and acquire certifications for domestic and foreign sustainable forest management, such as the certification from the Korea Forest Certification System for biodiversity conservation and social service.		●
Farm & Fishery	Crop Cultivation	Eco-friendly	Growing Eco-friendly Perennial Crops : Activities to grow various vegetable crops in the open field in an eco-friendly way and acquire domestic and foreign certifications for low-carbon and eco-friendly agriculture, such as the Low-Carbon Agricultural and Livestock Products Certification.		●
Farm & Fishery	Crop Cultivation	Eco-friendly	Growing Eco-friendly Non-perennial Crops : Activities to grow grain crops, root crops, beans and other food crops in an eco-friendly way and acquire domestic and foreign certifications for low-carbon and eco-friendly agriculture, such as the Low-Carbon Agricultural and Livestock Products Certification.		●
Farm & Fishery	Livestock Production	Eco-friendly	Eco-friendly Livestock Production : Activities to breed, grow and raise land animals for the purpose of food production or acquiring necessary items such as fur and milk and acquire domestic and overseas certifications for low-carbon and eco-friendly livestock industry such as Organic Livestock Certification under the Eco-friendly Livestock Products Certification System.		●
Farm & Fishery	Agricultural Product Cultivation	Eco-friendly	Eco-friendly Organic Farming : Activities to grow agricultural products and acquire domestic and overseas certifications for eco-friendly organic agriculture, such as the Organic Agricultural Products Certification and Low-Carbon Agricultural and Livestock Products Certification.		●
Farm & Fishery	Fishery	Eco-friendly	Eco-friendly Fishing : Activities to collect, capture and raise marine animals and plants from the sea, river and stream in an eco-friendly way considering the protection and restoration of fishery resources and acquire domestic and overseas certifications for eco-friendly fishing (e.g. MSC, ASC, etc.), such as Antibiotic-free Seafood Certification and Organic Seafood Certification.		●

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Farm & Fishery	Resource Conservation	Eco-friendly	Agricultural Resources Conservation : Activities to protect the seed industry and animal, plant and germplasm resources, manage crop protective area, operate marine ranches, and prevent and control pest.		●
Construction	Cement	Eco-friendly	Low-carbon Cement Manufacturing : Activities to manufacture various kinds of cement by burning limestones using low-carbon and eco-friendly method.		●
Construction	Iron and Steel Making	Eco-friendly	Low-carbon Iron and Steel Making : Activities to manufacture various primary materials such as pig iron, cast iron, steel, alloys powder, bar, puddle bar, piling, billets, bloom and slabs by melting, rolling and processing iron ores, scrap iron and steel scraps in melting furnaces such as blast furnaces, electric furnaces and reflective furnaces using a low-carbon and eco-friendly method.		●
Energy	Water Decomposition	Eco-friendly	Green Hydrogen Production : Activities to produce hydrogen by electrolyzing water using renewable energy and water electrolysis facilities.		●
Chemicals	Basic Organic Chemicals	Eco-friendly	Low-carbon Basic Organic Chemicals Production : Activities to produce basic organic chemicals such as petroleum-based basic compounds, coal compounds, natural resins and wood compounds using a low-carbon and eco-friendly way.		●
Chemicals	Plastic Manufacturing	Eco-friendly	Primary Plastics Production Utilizing Recycled and Recyclable Materials : Activities to manufacture primary plastics using physical and chemical recycling technologies or recyclable materials (biomass, organic waste, etc.)		●
Chemicals	Chemicals Manufacturing	Eco-friendly	Manufacturing of Chemicals and Products to Treat Environmental Pollution : Activities to manufacture chemicals, disinfectants, algaecide, flocculation agents, bag filter materials, fiber dust removal substances, less energy consuming high-voltage pulse valve without diaphragm, dust removal materials for membrane materials, membrane module equipment and parts.		●
Chemicals	Alternative Substance Manufacturing	Eco-friendly	Manufacturing of Non-Hazardous Alternative Substances : Activities to make improvement using non-toxic and harmless substances, low-toxic or less harmful substances or construct relevant manufacturing facilities instead of toxic and harmful substances containing heavy metal organic pollutants or ozone in major industries such as electronic products, automobile, paint, furniture, printing, vehicle paint, rubber products, leather or shoes.		●
Chemicals	Low-persistence Pesticides and Alternative Food	Eco-friendly	Low-persistence Pesticides and Alternative Food Manufacturing : Activities to manufacture and use low-toxic and low-persistence pesticides by conducting R&D on eco-friendly pesticides and improving production technologies.		●
Automotive	System Design/ Manufacturing/ Integration, Parts/ Equipment Supply, Assembly, Distribution and Sales	Eco-friendly	Electric, hydrogen, hybrid or other alternative fuel vehicles	●	

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Automotive	System Design/ Manufacturing/ Integration, Parts/ Equipment Supply, Assembly, Distribution and Sales	Eco-friendly	Energy efficiency/high efficiency engine	●	
Automotive	System Design/ Manufacturing/ Integration, Parts/ Equipment Supply, Assembly, Distribution and Sales	Eco-friendly	Smart mobility/smart car	●	
Automotive	Automotive Logistics, Sharing Service Centers and Charging Stations	Eco-friendly	Establishment of Electric Transmission and Distribution Infrastructure for Low-carbon Power Generation Facilities and Charging Eco-friendly Vehicles : Activities to construct and operate power transmission and distribution infrastructure to transmit electricity to electric vehicle charging stations to make sure that power produced using low-carbon and eco-friendly method can be delivered to final power purchasers or distributors.	●	●
Energy	Solar	Eco-friendly	Solar Power Generation : Activities to produce electricity by establishing and operating power generation facilities using photovoltaic energy using a low-carbon and eco-friendly method. Onshore solar power generation facilities such as photovoltaic (PV) cells and parts, concentrating solar power (CSP) equipment, tanks, parts and inverters.	●	●
Energy	Solar-Heat and Power Generation	Eco-friendly	Combined Heat & Power through Concentrated Solar Power Generation : Activities to generate heat and electricity by establishing and operating heating and cooling as well as heat and power plants using concentrated solar power generation in a low-carbon and eco-friendly way.		●
Energy	Solar-Heat Production	Eco-friendly	Heat Production using Concentrated Solar Power Generation : Activities to produce heat for local cooling and heating using concentrated solar power in a low-carbon and eco-friendly way.		●
Energy	Wind Power	Eco-friendly	Wind Power Generation : Activities to produce electricity by establishing and operating power generation facilities using wind power in a low-carbon and eco-friendly way. Onshore wind power generation facilities such as wind power turbines.	●	●
Energy	Geothermal	Eco-friendly	Geothermal Power Generation : Activities to produce electricity by establishing and operating power generation facilities using geothermal energy in a low-carbon and eco-friendly way. Geothermal energy development facilities such as geothermal turbines.	●	●
Energy	Geothermal-Cogeneration	Eco-friendly	Geothermal Heat and Power Generation : Activities to generate heat and electricity by establishing and operating heating and cooling as well as heat and power plants using geothermal energy in a low-carbon and eco-friendly way.		●
Energy	Geothermal-Heat Production	Eco-friendly	Heat Production using Geothermal Energy : Activities to produce heat for local cooling and heating using geothermal energy in a low-carbon and eco-friendly way.		●
Energy	Bio	Eco-friendly	Heat Production using Bio Energy : Activities to produce electricity using bio energy. Bio energy development facilities.	●	●

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Energy	Bio-Heat and Power Generation	Eco-friendly	Combined Heat & Power Using Bio Energy : Activities to generate heat and electricity by establishing and operating heating and cooling as well as heat and power plants using bio energy in a low-carbon and eco-friendly way.		●
Energy	Bio-Heat Production	Eco-friendly	Heat Production Using Bio Energy : Activities to produce heat for local cooling and heating using bio energy in a low-carbon and eco-friendly way.		●
Energy	Hydro Power	Eco-friendly	Hydro Power Generation : Activities to produce electricity by establishing and operating power generation facilities using hydro power in a low-carbon and eco-friendly way. (Including hydro power energy storage such as pump priming power generation using surplus power from other sources such as solar power). Hydro power generation facilities such as hydro power turbines and parts.	●	●
Energy	Marine Renewable Energy	Eco-friendly	Power Generation Using Ocean Renewable Energy : Activities to generate electricity by establishing and operating power generation facilities using marine energy in a low-carbon and eco-friendly way (tidal power, wave power, etc.) Marine renewable energy development facilities such as wind power turbine platforms, vertical and horizontal axis turbines and in-stream generators.	●	●
Energy	Hydrogen	Eco-friendly	Hydrogen Power Generation : Hydrogen power generation, hydrogen energy.	●	●
Energy	Gas	Eco-friendly	Power Generation Using Gas Combustion : Activities to generate heat and electricity by establishing and operating heating and cooling as well as heat and power plants using gas combustion (not limited to natural gas) in a low-carbon and eco-friendly way.		●
Energy	Gas-Heat and Power Generation	Eco-friendly	Heat Production Using Gas : Activities to produce heat and electricity and heat and power generation facility using gas combustion (not limited to natural gas) in a low-carbon and eco-friendly way.		●
Energy	Gas-Heat and Power Production	Eco-friendly	Heat Production Using Gas Combustion : Activities to produce heat for local cooling and heating using gas combustion (not limited to natural gas) in a low-carbon and eco-friendly way.		●
Energy	Waste Heat	Eco-friendly	Heat and Power Generation Using Waste Heat : Activities to produce heat and electricity by establishing and operating heating, cooling and heat and power generation facilities using waste heat in a low-carbon and eco-friendly way.		●
Energy	Waste Heat-Heat Production	Eco-friendly	Heat Production Using Waste Heat : Activities to produce heat for local cooling and heating using waste heat in a low-carbon and eco-friendly way.		●
Energy	Biomass/Gas	Eco-friendly	Activities to produce biomass, biogas and biofuels in a low-carbon and eco-friendly way.		●
Energy	Waste	Eco-friendly	Solid waste treatment facilities that produce electricity or heat as a by-product.	●	
Energy	Eco-friendly Power Generation Technology	Eco-friendly	Fuel cell	●	
Energy	Eco-friendly Power Generation Technology	Eco-friendly	Supercritical CO ₂ power generation system	●	

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Energy	Eco-friendly Power Generation Technology	Eco-friendly	Energy harvesting	●	
Energy	Eco-friendly Power Generation Technology	Eco-friendly	Gas turbine power plant	●	
Energy	Eco-friendly Power Generation Technology-Energy Storage	Eco-friendly	Energy Storage System (ESS) Establishment and Operation : Activities to establish and operate the ESS-related facilities that meet the technical standards and safety performance tests for high efficiency energy equipment.	●	●
Energy	Eco-friendly Power Generation Technology-Energy Storage	Eco-friendly	Thermal Energy Storage Facility Establishment and Operation : Activities to establish and operate facilities that store and use thermal energy in an eco-friendly way.		●
Energy	Eco-friendly Power Generation Technology-Energy Storage	Eco-friendly	Hydrogen Energy Storage Facility Establishment and Operation : Activities to establish and operate facilities that store and use hydrogen in an eco-friendly way.		●
Energy	Energy Efficiency Improvement	Eco-friendly	Heat Supply Network for District Heating and Cooling and Collective Energy in Industrial Complex : Activities to establish and operate heat supply network for eco-friendly district heating and cooling and collective energy in industrial complex.		●
Energy	Energy Efficiency Improvement	Eco-friendly	Distributed energy system	●	
Energy	Energy Efficiency Improvement	Eco-friendly	Smart grid	●	
Energy	Energy Efficiency Improvement	Eco-friendly	Virtual power plant	●	
Construction	Eco-friendly Construction/ Building	Eco-friendly	Eco-friendly Construction : Activities to construct buildings for domestic and overseas eco-friendly construction certifications such as Green Building Certification and Zero Energy Building Certification, Zero Energy Building/ Eco-friendly Energy Town.	●	●
Construction	Eco-friendly Construction/ Building	Eco-friendly	Remodeling of Old Buildings : Activities to conduct green remodeling for old buildings which obtained domestic and overseas eco-friendly construction certifications such as Green Building Certification and Zero Energy Building.		●
Construction	Eco-friendly Construction/ Building	Eco-friendly	Energy and Greenhouse Gas Emissions Reduction Service-Activities to improve energy efficiency and contribute to greenhouse gas emissions by applying green technologies or improving operating methods in the process of building management.		●
Construction	Eco-friendly Construction/ Building	Eco-friendly	Waste heat recovery	●	
Construction	Eco-friendly Construction/ Building	Eco-friendly	Intelligent air conditioning system	●	

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Construction	Eco-friendly Construction/ Building	Eco-friendly	Manufacturing of Low-carbon Cement : Activities to manufacture cements by burning limestones in a low-carbon and eco-friendly way.		●
Construction	Eco-friendly Construction/ Building	Eco-friendly	Electric Heat Pump Installation and Operation : Activities to install and operate electric heat pumps in a eco-friendly way.		●
Construction	Engineering to Adapt to Climate Change	Eco-friendly	Engineering and Technology Consulting to Adapt to Climate Change-Engineering services contributing to our adaptation to climate change and environmental consulting.		●
Chemicals	Bio Materials	Eco-friendly	Biological material	●	
Infrastructure	Collection, Sorting and Resources Recovery Facility	Eco-friendly	Facilities and assets with high recovery rates of reusable or recyclable materials	●	
Infrastructure	Facilities for Reuse	Eco-friendly	Facilities that modify or repair products, or wash components or products so that they can be reused.	●	
Infrastructure	Recycling Facility	Eco-friendly	Facilities for recycling metal, plastic, glass (excluding aggregate) and paper.	●	
Infrastructure	Biological Treatment Facility	Eco-friendly	Anaerobic digestion facility that produces biogas from green waste or biological waste.	●	
Infrastructure	Biological Treatment Facility	Eco-friendly	Facility to turn residual waste into fertilizers.	●	
Infrastructure	Waste Treatment	Eco-friendly	E-waste upcycling	●	
Infrastructure	Waste Treatment	Eco-friendly	Plastic upcycling	●	
Infrastructure	Waste Treatment	Eco-friendly	Treatment of Other Wastes : (1) Hazardous waste and medical waste reduction facilities, (2) Facilities to make molten slag, gypsum, red mud, chemical waste slag and other industrial solid waste harmless or reuse and recover them. (3) Activities to develop, construct and operate systems such as system to treat slag in heavy metal contaminated streams, improve treatment facilities, drainage system and backwater system in an eco-friendly way.	●	●
Infrastructure	Waste Treatment	Eco-friendly	Membrane filtration wastewater treatment	●	
Infrastructure	Waste Treatment	Eco-friendly	Central Wastewater Treatment System : Activities to operate facilities that collect sewage and industrial wastewater through collection pipes and treat collected wastewater in a low-carbon and eco-friendly way.		●
Infrastructure	Waste Treatment	Eco-friendly	Anaerobic Digestion of Sewage Sludge : Activities to operate sewage treatment facilities that collects sewage from collection pipes in a low-carbon and eco-friendly way and processes collected sewage with physical, chemical and biological methods such as dilution, sorting, filtration and sedimentation and to clean the relevant facilities.		●
Infrastructure	Waste Treatment	Eco-friendly	Non-designated Waste Collection and Transport : Activities to collect and transport harmless waste (non-designated waste) generated from households and businesses in an eco-friendly way.		●
Infrastructure	Waste Treatment	Eco-friendly	Anaerobic Digestion of Biowaste : Activities to treat anaerobic digestion within bio waste collection facilities where biogas and residues are produced and utilized in a low-carbon and eco-friendly way.		●

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Infrastructure	Waste Treatment	Eco-friendly	Turning Biowaste into Fertilizers : Activities for aerobic treatment within biowaste collection facilities where fertilizers are produced and utilized in an eco-friendly way.		●
Infrastructure	Waste Treatment	Eco-friendly	Activities to classify and process harmless wastes into raw materials through physical transformation process treatment in an environmentally friendly way		
Infrastructure	Gas Capture	Eco-friendly	Buried Gas Capture and Energy Utilization : Activities to collect and utilize gas from permanently closed gas field utilizing new dedicated facilities and equipment in an eco-friendly way. Gas capture for power generation.	●	●
Infrastructure	Water Collection, Treatment and Supply	Eco-friendly	Water Collection, Treatment and Supply : Activities to take, collect and purify water and supply the water through pipes in a low-carbon and eco-friendly way to provide water to households and industrial sites.		●
Infrastructure	Water Collection, Treatment and Supply	Eco-friendly	Unconventional Water Resources Utilization : Activities to produce and provide equipment such as equipment for treating and recycling waste water from industry and households, equipment to collect, treat and utilize water from mines, saline water and rainwater, equipment for seawater desalination, other equipment for utilizing unconventional water supply sources.		●
Infrastructure	Water Collection, Treatment and Supply	Eco-friendly	Standalone seawater desalination	●	
Healthcare	Research and Diagnosis	Eco-friendly	Vaccine and drug research and development (R&D) for infectious & non-communicable diseases (R&D)	●	
Healthcare	Research and Diagnosis	Eco-friendly	Research and development to end epidemics of AIDS, tuberculosis, malaria, and neglected tropical diseases, and to treat hepatitis, water-borne diseases and other infectious diseases	●	
Healthcare	Research and Diagnosis	Eco-friendly	Research and development to improve early diagnosis techniques	●	
Healthcare	Research and Diagnosis	Eco-friendly	Research and development to improve methods for protecting animals from infectious diseases	●	
Healthcare	Eco-friendly Consumer Goods	Eco-friendly	Genetic cosmetics	●	
Pharmaceuticals	Patented/Over-the-Counter Drug Production	Eco-friendly	Expand access to medicines	●	
Pharmaceuticals	Patented/Over-the-Counter Drug Production	Eco-friendly	Establish eco-friendly pharmaceutical factories.	●	
Pharmaceuticals	Patented/Over-the-Counter Drug Production	Eco-friendly	Reduce pharmaceutical raw materials and wastes.	●	
Shipping	Ship Ownership/Rental/Operation	Eco-friendly	Electric engines powered by batteries or hydrogen/ammonia fuel cells.	●	
Shipping	Ship Ownership/Rental/Operation	Eco-friendly	Ships generating less greenhouse gas emissions or powered by low pollution fuels.	●	

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Shipping	Ship Ownership/Rental/Operation	Eco-friendly	Improve ship design and improve ship propulsion efficiency.	●	
Logistics	Distribution, Goods Receipt, Cold Chain Logistics, Outsourcing Logistics	Eco-friendly	Conversion of rail and inland transportation	●	
Logistics	Distribution, Goods Receipt, Cold Chain Logistics, Outsourcing Logistics	Eco-friendly	Increase operational efficiency of logistics.	●	
Logistics	Distribution, Goods Receipt, Cold Chain Logistics, Outsourcing Logistics	Eco-friendly	Use alternative fuels for heavy truck transport	●	
Logistics	Railway	Eco-friendly	Rail Transport for Passengers : Activities to transport passengers in an eco-friendly way using rail vehicles (except for urban railroads).		●
Logistics	Railway	Eco-friendly	Freight Rail Transportation : Activities to transport cargo in an eco-friendly manner using rail vehicles		●
Logistics	Public Transportation	Eco-friendly	Public Transportation : Activities to determine routes and transport passengers within cities and suburbs using eco-friendly vehicles or transportation means without direct emissions.		●
Logistics	Transport Infrastructure	Eco-friendly	Infrastructure for Low-carbon Land Transport : Activities to construct and operate infrastructure for low-carbon land transport such as electricity charging station, improvement of power network connection, hydrogen fuel charging station, electric highway in an eco-friendly way (except for transportation and storage infrastructure for fossil fuels or one mixed with fossil fuels).		●
Logistics	Automotive Logistics	Eco-friendly	Eco-friendly Vehicle Transport (passenger vehicles, light commercial vehicles) : Activities to transport passengers using eco-friendly vehicles (including rental of land transportation means such as drivers, passenger vehicles, light commercial vehicles).		●
Logistics	Automotive Logistics	Eco-friendly	Eco-friendly Cargo Transport Service : Activities to transport various kinds of cargoes using eco-friendly vehicles or other transportation means without direct emissions or activities to transport cargoes using vehicles for towing or rescuing or other special purposes (including vehicles driven by animals or people or non-motorized cargo vehicles).		●
Logistics	Automotive Logistics	Eco-friendly	Eco-friendly Intercity Road Transportation : Activities to determine routes and transport passengers regularly using eco-friendly vehicles or transportation means without direct emissions.		●
Logistics	Water Logistics	Eco-friendly	Eco-friendly Water Transportation for Inland Passengers : Activities to transport passengers using eco-friendly ships or transportation means without direct emissions in inland waters such as rivers and lakes.		●

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Logistics	Water Logistics	Eco-friendly	Eco-friendly Water Transportation for Inland Cargo : Activities to transport cargoes using eco-friendly ships or transportation means without direct emissions in inland waters such as rivers and lakes.		●
Logistics	Water Logistics	Eco-friendly	Infrastructure for Low-carbon Water Transport : Activities to establish and operate battery, hydrogen fuel facilities and renewable energy infrastructure for low-carbon water transport (except for transportation and storage infrastructure for fossil fuels or one mixed with fossil fuels).		●
Logistics	Mobile Infrastructure	Eco-friendly	Low-carbon Mobility Infrastructure : Activities to construct and operate roads for pedestrians and bicycles to support eco-friendly and renewable energy.		●
Food & Agri-Business	Smart Farm	Eco-friendly	Agricultural microorganisms, biofertilizers, insect breeding, smart seed development and breeding	●	
ICT	Data Center	Eco-friendly	Low-carbon Internet Data Center-Activities to construct and operate data centers that have acquired domestic and overseas certifications for green internet data center.		●
ICT	ICT Solution	Eco-friendly	ICT Solution for Greenhouse Gas Emissions : Activities to develop and utilize ICT solutions that collects, transmits, saves and models relevant data to provide data and analysis for decision-making on greenhouse gas emissions reduction.		●
ICT	Weather Monitoring	Eco-friendly	Weather Monitoring and Forecasting System : Activities to provide specialized communications applications such as satellite tracking, communications telemetry, radar station to adapt to climate change.		●
Real Estate	Building Acquisition and Operation	Eco-friendly	Acquisition and Operation of Eco-friendly Buildings : Activities to invest in, acquire and operate buildings which acquired domestic and overseas eco-friendly building certifications such as Green Building Certification and Zero Energy Building Certification.		●
Manufacturing	New Manufacturing Process	Eco-friendly	3D machine vision	●	
Manufacturing	New Manufacturing Process	Eco-friendly	3D printing	●	
Manufacturing	New Manufacturing Process	Eco-friendly	Smart factory solution	●	
Manufacturing	New Manufacturing Process	Eco-friendly	Intelligent machine	●	
Manufacturing	New Manufacturing Process	Eco-friendly	4D printing	●	
Manufacturing	New Manufacturing Process	Eco-friendly	Intelligent 4D printing	●	
Manufacturing	Robot	Eco-friendly	Futuristic manufacturing robot	●	
Manufacturing	Robot	Eco-friendly	Swarm Robotics	●	
Manufacturing	Environmental Improvement	Eco-friendly	Forward osmosis	●	
Manufacturing	Environmental Improvement	Eco-friendly	Biofilm water treatment	●	
Manufacturing	Environmental Improvement	Eco-friendly	Eco-friendly air conditioning system	●	
Manufacturing	Environmental Improvement	Eco-friendly	Oil spill control	●	

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Manufacturing	Environmental Improvement	Eco-friendly	Air Pollution Treatment : Activities to establish and operate air pollutants treatment facilities such as desulfurization and denitrification facilities to treat air pollutants such as flue gas and volatile organic chemicals (VOCs), vehicle combustion post-treatment facility and smoke containing material purification facility (except for projects related to coal-fired power plants).	●	
Manufacturing	Carbon Capture	Eco-friendly	Direct CO ₂ Capture in the Atmosphere : Activities to capture CO ₂ in the atmosphere directly in an eco-friendly way. CO ₂ capture/ storage/ emission source management.	●	
Manufacturing	Carbon Capture	Eco-friendly	Man-made CO ₂ Capture : Activities to capture man-made CO ₂ in an eco-friendly way.		●
Manufacturing	Carbon Capture	Eco-friendly	Transport of CO ₂ : Activities to transport captured CO ₂ using railways, ships and pipelines.		●
Manufacturing	Carbon Capture	Eco-friendly	Permanent Isolation of Captured CO ₂ : Activities to treat captured CO ₂ permanently.		●
Manufacturing	Environmental Improvement	Eco-friendly	Soil and Other Pollution : Activities to produce equipment for mine restoration, ecosystem restoration, farmland soil restoration and recovery in an eco-friendly way and purify contaminated area.	●	
Manufacturing	Environmental Improvement	Eco-friendly	Nuclear plant decommissioning	●	
Manufacturing	Environmental Improvement	Eco-friendly	Integrated environment management service	●	
Manufacturing	Environmental Improvement	Eco-friendly	Resource efficiency management service	●	
Manufacturing	Environmental Improvement	Eco-friendly	Eco-friendly packaging	●	
Manufacturing	Environmental Improvement	Eco-friendly	Uni material products	●	
Manufacturing	Environmental Improvement	Eco-friendly	Odor Pollution Management-Activities to prevent odor in an eco-friendly way by taking engineering or technical measures or installing purification facilities.		●
Manufacturing	Environmental Improvement	Eco-friendly	Noise management	●	
Manufacturing	Environmental Improvement	Eco-friendly	Indoor air quality management	●	
Manufacturing	Environmental Improvement	Eco-friendly	Urban mining	●	
Manufacturing	Environmental Improvement	Eco-friendly	Low-carbon Urban Development-Activities to develop urban areas by establishing, building and operating urban plans and passive designs based on green infrastructure and urban heat island phenomenon while satisfying energy self-sufficiency rate of 20% or higher across the city.		●
Other Environmental Protection	Environmental Improvement	Eco-friendly	Ecosystem Conservation and Restoration-Activities such as (1) Protection of natural forest resources, animals and plant resources, (2) Establishment of natural protective areas, maintaining areas that serve as an ecosystem, (3) Restoration of farmland and grazing land to forests and meadows, (4) Restoration and protection of rivers, lakes and wetlands, management of drought and flooding, management of groundwater, (5) ecological restoration of degraded mines, (6) Response to desertification and soil erosion, and (7) management of sea areas, coastal areas and islands.		●

Industry	Type	Classification	Economic Activities	Classification (label)	
				Green Finance Guideline (20.11)	K-Taxonomy (21.05)
Other Environmental Protection	Environmental Improvement	Eco-friendly	Urban Ecology Protection and Conservation-(1) Restoration of urban waters and natural ecology, (2) Construction and operation of parks and green spaces.		●
Manufacturing	Environmental Improvement	Eco-friendly	Remanufacturing	●	
Manufacturing	Environmental Improvement	Eco-friendly	Make new and renewable power generation system into re-sources	●	
Manufacturing	Immersive Content	Eco-friendly	Smart home	●	
Manufacturing	Semiconductors	Eco-friendly	Power semiconductor device	●	
Manufacturing	Active Lighting	Eco-friendly	OLED (LED) lighting	●	
Manufacturing	Active Lighting	Eco-friendly	Smart lighting	●	
Manufacturing	Object Detection	Eco-friendly	Non-contact monitoring	●	
Manufacturing	Adaptation to Climate Change	Eco-friendly	R&D on Adaptation to Climate Change-R&D activities such as basic research, applied research, natural science and engineering research to adapt to climate change.		●
Other	Other Eco-friendly Activities	Eco-friendly	Technologies, assets and items that is better in terms of energy/greenhouse gas emissions, reduction of resource use, reduction of pollutants and strengthening biodiversity compared to general technologies and assets except for assets/technologies mentioned above.		
			"All technologies, assets, and items whose main purpose is to provide social services to the vulnerable, such as the low-income class, the disabled, the elderly, and North Korean defectors.		
			*Vulnerable groups : Article 2 of the Enforcement Decree of the Social Enterprise Promotion Act : Low-income earners, the elderly, people with disabilities, victims of prostitution, the youth or women with career break who are eligible for employment subsidy, North Korean defectors, victims of domestic violence, those eligible for protection among single-parent families, marriage immigrants, those subject to protection for rehabilitation, victims of crime, teenagers under probation, the homeless, those addicted to drug, alcohol or gambling, those with rare and incurable diseases, those who need to support their family among unemployed women"		
Social_ Social service	Welfare/Social Services for the Underprivileged	Social	All technologies, assets, and items whose main purpose is to improve the access to treatment and medical care for the underprivileged, such as low-income earners, people with disabilities, the elderly and the mobility impaired.		
Social_Medical Access	Medical Care, Health and Accessibility	Social	All technologies, assets, and items whose main purpose is to expand access to education, such as providing educational opportunities to the educationally underprivileged class such as low-income earners and people with disabilities.		
Social_ Improving Education Opportunities	Improvement of Education Opportunities	Social	All technologies, assets and items whose main purpose is to ensure gender equality and women empowerment.		
Social_ Gender Equality	Gender	Social	All technologies, assets and items whose main purpose is to provide jobs to the youth, the elderly and the underprivileged.		
Social_Job Creation	Job Creation for the Youth, the Elderly and the Underprivileged	Social	All technologies, assets, and items whose main purpose is to support small businesses and small business owners, or to provide economic support to low-income class.		
Social-Elimination of Polarization	Elimination of Polarization and Income Disparity	Social			