

(Unofficial translation courtesy of the Climate Bonds Initiative)

Notice on Issuing the Green Bond Endorsed Projects Catalogue (2021 Edition)

(No. 96 [2021], PBOC, NDRC, CSRC)

For the purposes of comprehensively implementing the spirit of the 19th CPC National Congress and the Second, Third and Fourth Plenary Sessions of the 19th CPC Central Committee, and carrying out the *Integrated Reform Plan for Promoting Ecological Progress* and fulfilling the requirements of building a green finance system, further regulating the domestic market of green bond, giving full play to the role of green finance in promoting structural adjustment and transformation, accelerating the ecological civilization construction, facilitating the sustainable development of the economy, acting in accordance with *Guiding Opinions on Establishing a Modern Environmental Treatment System* (No.6 [2020] of the General Office of the CCCPC), the *Guiding Opinions on Building a Green Financial System* (No. 228 [2016], CSRC), the People's Bank of China, together with the National Development and Reform Commission and the China Securities Regulatory Commission have developed the *Green Bond Endorsed Projects Catalogue (2021 Edition)* (hereinafter refers to as “*Green Bond Catalogue (2021)*”). Hereby notify the relevant matters as follows:

Green bonds refer to marketable securities that use raised funds specifically to support green industries, green projects, or green economic activities that meet specified conditions, and are issued in accordance with legal procedures and repay principal and interest according to agreements, including but not limited to green financial bonds, green corporate bonds, green enterprise bonds, green debt financing tools and green asset-backed securities.

All regions, departments and relevant institutions should act based on the *Green Bond Catalogue (2021)* with the combination of their own green development goals and tasks in respective fields and the construction stages of the green financial system, develop and implement relevant supporting policies, devote efforts to publicity and guidance, give full play to the supporting role of green bonds on environmental improvement, action to climate change and efficiency improvements, and promote sustainable economic and social development and industrial green

transformation and upgrades. If new issues occur, please report to the relevant higher level department in time.

Ensure the adaptation and transition from the previous *Green Bond Endorsed Projects Catalogue (2015 Edition)* and *Guidelines for Issuing of Green Bonds* (No. 3504 [2015], Department of Fiscal and Financial Affairs, NDRC) to the *Green Bond Catalogue (2021)* regarding the changing scopes and details. As to the bonds that have been in existence, approved or completed the registration process before the release of the *Green Bond Catalogue (2021)*, the identification and capital usage can still be executed based on the *Green Bond Endorsed Projects Catalogue (2015 Edition)* and *Guidelines for Issuing of Green Bonds* in relevant scope of application. The issuer will need to report whether the capital usage conforms to the new Catalogue in next mandatory disclosure. As to the bonds that have not been approved or have not completed the registration process prior to release, they should apply the *Green Bond Catalogue (2021)*.

The People's Bank of China will work with the National Development and Reform Commission, the China Securities Regulatory Commission and other departments, in accordance with the conditions of national ecological civilization construction, ecological environmental protection, pollution prevention and control, green industry adjustment, technical standards updating, international green finance cooperations and the internal demands for the development of domestic green bond market, to adjust and revise *Green Bond Catalogue (2021)* in due course.

The *Green Bond Catalogue (2021)* will take effect on July 1st, 2021.

Annex: *Green Bond Endorsed Projects Catalogue (2021 Edition)*

April 2, 2021
The People's Bank of China
National Development and Reform Commission
China Securities Regulatory Commission

Catalogue of Green Bond Endorsed Projects (2021 Edition)

Sector	Program	Description/Condition
1. Energy Saving and Environmental Protection Industry		
1.1 Energy Efficiency Improvement	1.1.1 The Manufacture of Energy Efficient Equipment	1.1.1.1 Energy-saving Boilers
		1.1.1.2 Energy-saving Furnace

Sector		Program	Description/Condition
		1.1.1.3 Energy-saving Pump and Vacuum Equipment	Manufacturing and trading of energy-saving pumps, energy-saving vacuum drying equipment, energy-saving vacuum furnaces and other relevant equipment. Among them, the energy efficiency of energy-saving pumps should meet or exceed level 1 of energy efficiency standard or relevant energy saving valuation.
		1.1.1.4 Energy-saving Gas Compression Equipment	Manufacturing and trading of energy-saving air compressors, compressors for air conditioners and other relevant equipment. The energy efficiency of the equipment should meet or exceed level 1 of national energy efficiency standards such as "Energy Efficiency Limits and Energy Efficiency Evaluation Value of Positive Volume Air Compressors" (GB 19153) and "Energy Efficiency Limits and Energy Efficiency Grade of Fully Closed Motor Compressor for Air Conditioners "(GB 35971). Other energy-saving air compression equipment meets the corresponding energy efficiency requirements.
		1.1.1.5 Energy-saving Hydraulic and Pneumatic Pressure Equipment	Manufacturing and trading of energy-saving hydraulic and pneumatic power generation machinery and components.
		1.1.1.6 Energy-saving Blower and Fan	Manufacturing and trading of energy-saving ventilator, blower, industrial fan, ventilation hood, circulating air hood and other relevant equipment. The energy efficiency of the equipment should meet or exceed level 1 of energy efficiency standards including "Energy Efficiency Limitations and Energy Saving Evaluation for Ventilators" (GB 19761) and "Energy Efficiency Limitations and Energy Saving Evaluation Value for Centrifugal Blowers" (GB 28381). Other energy-saving air compression equipment should meet the corresponding energy efficiency requirements.

Sector		Program	Description/Condition
		1.1.1.7 High-efficient Generator and Generator Set	Manufacturing and trading of energy-saving generators, generator sets and their special parts.
		1.1.1.8 Energy-saving Motor	Manufacturing and trading of energy-saving AC, DC, AC/DC electrical equipment. The energy efficiency of the equipment should meet or exceed level 1 of national standards including“Energy Efficiency Limitations and Energy Saving Evaluation for Motor” (GB 18613), “Energy Efficiency Limitations and Energy Saving Evaluation for Permanent Magnet Synchronous Motor” (GB 30253), “Energy Efficiency Limitations and Energy Saving Evaluation for High Voltage Three-phase Cage Induction Motor” (GB 30254).Other energy-saving electrical equipment should meet the corresponding energy efficiency requirements..
		1.1.1.9 Energy-saving Transformer, Rectifier, Inductor and Electric Welding Machine	Manufacturing and trading of energy-saving transformers, mutual inductor, static converters, reactors, inductors, frequency converters, welding machines and other equipment. The energy efficiency of energy-saving electrical transformers should meet or exceed level 1 of “Energy Efficiency Limitations and Energy Saving Evaluation for Power Transformers” (GB 20052). Other energy-saving transformers, reactors should meet the corresponding energy efficiency requirements..
		1.1.1.10 Waste Heat, Pressure and Gas Exploitation Facilities	Manufacturing and trading of low-temperature flue gas waste heat highly-recovering device, kiln waste heat utilization device, circulated water and waste gas recovering equipment based on heat pump, high-efficiency heat exchanger, high-efficiency accumulator, high-efficiency condenser, and other relevant equipment. Among them, the energy efficiency of the heat exchanger shall meet the requirements of the relevant target standard. The utilization of waste heat should be carried out in accordance with the requirements of “Evaluation Method of Industrial Residual Energy Resource ” (GB/T 1028) and relevant national standards..

Sector		Program	Description/Condition
		1.1.1.11 High-Efficient Energy-saving Domestic Appliances	Manufacturing and trading of household appliances such as energy-saving air conditioners, air-conditioning units, refrigerators, electric washing machines, flat-screen TVs, electric fans, etc. The energy efficiency of the energy-saving products should meet or exceed level 1 of energy efficiency standards such as “The Energy Efficiency Limit Value and Energy Efficiency Grade of Household Air Conditioners” (GB 21455), “The Energy Consumption Limit Value and Energy Efficiency Grade of Household Refrigerator” (GB12021.2), “The Water Efficiency Limit Value and Energy Efficiency Grade of Electric Washing Machines” (GB12021.4), “The Energy Efficiency Limit Value and Energy Efficiency Grade of Flat-screen TVs and Set-top Boxes” (GB 24850), “The Energy Efficiency Limit Value and Energy Efficiency Grade of Electric Fans”(GB 12021.9).
		1.1.1.12 High-Efficient Energy-saving Commercial Facilities	Manufacturing and trading of energy-saving copy machines, printers, fax machines, microcomputers, projectors, commercial refrigeration appliances, chillers, heat pump units, modular air conditioners and other commercial equipment. The energy efficiency of the equipment should meet or exceed level 1 of relevant energy efficiency standard.

Sector		Program	Description/Condition
		1.1.1.13 High-Efficient Lighting Products and Systems	Manufacturing and trading of semiconductor lighting products including substrates, epitaxial wafers, light sources, and lighting products (light-emitting diode LED) as well as electronic ballast product. The energy efficiency of the products should meet or exceed level 1 of relevant energy efficiency standards, such as “Energy Efficiency Limits and Energy Efficiency Grades of LED Products for Indoor Lighting” (GB 30255), “Energy Efficiency Limits and Energy Efficiency Grades of LED Luminaires for Road and Tunnel Lighting” (GB 37478), “ Energy Efficiency Limits and Energy Efficiency Grades of LED Flat Lamp for General Lighting” (GB 38450), “Energy Efficiency Limits and Energy Efficiency Grades of LED Flat Lamp for Tube Fluorescent Lamp” (GB 17896), “Energy Efficiency Limits and Energy Efficiency Evaluation Value for High-pressure Sodium Lamp Ballasts”(GB 19574), “Energy Efficiency Limits and Energy Efficiency Grades for Metal Halide Lamp Ballasts” (GB 20053), “Energy Efficiency Limits and Energy Efficiency Grades of AC Electronic Ballasts for Single Ended Electroless Fluorescent Lamps" (GB 29143).
		1.1.1.14 Energy Measuring, Monitoring and Controlling Equipments	Manufacturing and trading of energy-saving testing equipment, online energy measurement equipment, online energy detection equipment, thermal detection equipment, energy-saving automatic control equipment, temperature measurement equipment, flow measurement equipment, power measurement equipment, thermal measurement equipment and other energy measurement, testing, monitoring equipment. Energy measurement equipment comply with the requirements of “General Rules for the Equipping and Management of Energy Measuring Instruments for Energy Using Units” (GB 17167).

Sector		Program	Description/Condition
	1.1.2 Industrial Energy Efficiency Retrofit	1.1.2.1 The Energy-saving Transformation and Energy-efficient Upgrade of Boiler (Furnace)	Energy-saving technology upgrading of the boilers (furnace) by device and equipment replacement and upgrading, technology upgrades, fuel optimization, and combustion adjustment and optimization; Energy-saving technology upgrading of fuel boilers (furnace) using clean low-carbon energy, waste heat from factories and thermal power from the power plants instead of coal, petroleum coke, residual oil and heavy oil, for the purpose of improving the energy efficiency.
		1.1.2.2 The Upgrade of Motor System	Energy-saving upgrading of equipment or comprehensive system of motor system (including inner blower, pumps, compressors, transformers) by device replacement, technology upgrades, control system optimization for the purpose of achieving the energy efficiency improvement of the motor system
		1.1.2.3 The Utilization of Waste Heat and Pressure	Facility construction or technology upgrading of recycling energy resources such as low-grade waste heat and pressure in generating electricity, industrial heating, residential heating and production process reuse by saturated steam power generation technology, flue gas waste heat recovery and other related technologies.
		1.1.2.4 The Systematic Optimization Energy Utilization	Energy-saving technology upgrading of the collaborative optimization of energy flow, material flow, and information flow during industrial production processes, efficiency of energy cascade utilization, overall improvement of the production system as a whole, by technical measures including process flow optimization, system technology integration application, energy system design and control optimization. The systematic optimization energy utilization should meet the national standards such as “Material Flow Analysis Technical Guide for Industrial Parks”(GB/T 38903) .

Sector		Program	Description/Condition
		1.1.2.5 The Systematic Improvement in Energy Efficiency of Steam Turbine Generator Sets	Energy-saving technology upgrading of equipment or system such as the turbine flow passage, cold end system, heating surface and flue air system, operation control system, thermal and drainage system, and auxiliary motor, for the purpose of improving the energy efficiency of steam turbine generator sets.

Sector		Program	Description/Condition
	1.1.3 Energy Efficiency in Electricity Use Facility	1.1.3.1 The Modification of Green Lighting	<p>Energy-saving technology upgrading of high-efficient lighting products using LED , high / low pressure sodium lamps, metal halide lamps, three primary color double-ended tubular fluorescent lamps (Type T8 and T5), and other lighting facilities using natural light sources, both indoor and outdoor.</p> <p>The energy efficiency of the lighting products should meet or exceed level 1 of relevant energy efficiency standard, such as “Energy Efficiency Limits and Energy Efficiency Grades of LED Products for Indoor Lighting” (GB 30255), “Energy Efficiency Limits and Energy Efficiency Grades of LED Luminaires for Road and Tunnel Lighting” (GB 37478), “ Energy Efficiency Limits and Energy Efficiency Grades of LED Flat Lamp for General Lighting” (GB 38450), “Energy Efficiency Limits and Energy Efficiency Grades of LED Flat Lamp for Double-ended Fluorescent Lamps for General Lighting” (GB 19043), “Energy Efficiency Limits and Energy Efficiency Evaluation Value for Single-ended Fluorescent Lamp”(GB 19415), “Energy Efficiency Limits and Energy Efficiency Grades for Self-ballasted Fluorescent Lamps for General Lighting” (GB 19044), “Energy Efficiency Limits and Energy Efficiency Grades of AC Electronic Ballasts for Single-ended Non-polar Fluorescent Lamps" (GB 29142),“Energy Efficiency Limits and Energy Efficiency Grades for Self-ballasted Non-polar Fluorescent Lamps for General Lighting” (GB 29144), “Energy Efficiency Limits and Energy Efficiency Grades for High-pressure Sodium Lamps” (GB 19573), “Energy Efficiency Limits and Energy Efficiency Grades for Metal Halide lamps” (GB 20054), “Energy Efficiency Limits and Energy Efficiency Evaluation Value for Halide Tungsten Lamps” (GB 31276).</p>

Sector		Program	Description/Condition
1.2 Sustainable Buildings	1.2.1 Green Building Materials	1.2.1.1 Manufacturing of Green Building Materials	Manufacturing of green building materials/products including energy-saving wall materials, exterior wall thermal insulation materials, energy-saving glass, prefabricated building components, ready-mixed concrete, ready-mixed mortar and other relating green building materials. The properties of products and technical specifications should meet relevant green building material standard and technical requirement. Glass exterior wall products shall reduce light pollution and urban heat island effect.
1.3 Pollution Prevention	1.3.1 The Manufacture of High-tech Environmental Protection Facilities	1.3.1.1 Facilities for Water Prevention and Waste Water Treatment	Manufacturing and trading of treatment and recycling equipment of urban/rural household sewage and industrial wastewater, pollution prevention and treatment equipment of surface water, groundwater, maintenance and testing equipment of dredging machinery and drainage pipe network, supporting equipment of sponge city construction, collection and treatment equipment of urban rainwater, safety control and leakage control equipment of drinking water. The technical level of equipment is encouraged to meet specifications in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> and meet national standards such as “Energy Efficiency Limitation and Energy Efficiency Grade of Rotating Aerator for Sewage Treatment” (GB 37483), “Energy Efficiency Limitation and Energy Efficiency Grade of Submersible Pushing Mixer for Sewage Treatment”(GB 37485), “Technical Requirements for Evaluation of High Efficiency Water Pollutant Control Equipment”(GB/T 38220), and other relevant standards.

Sector		Program	Description/Condition
		1.3.1.2 Facilities for Preventing and Treating Air Pollution	Manufacturing and trading of flue gas dedusting, desulfurization and denitrification equipment, treatment equipment of volatile organic pollutants (VOCs), post-treatment equipment of motor vehicle exhaust, and purification equipment of lampblack. The technical level of equipment is encouraged to meet specifications in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> , and meet national standards such as “Energy Efficiency Limits and Energy Efficiency Grades of Gas Dedusting System” (GB 37484), “Technical Requirements for Evaluation of High Efficiency Atmospheric Waveguid Control Equipment” (《高效能大气波导控制装备评估技术要求》) (GB/T 33017).
		1.3.1.3 Facilities for Polluted Soil Treatment and Remediation	Manufacturing and trading of mine reclamation and ecological restoration equipment, agricultural land soil pollution restoration equipment, and pollution land treatment and restoration equipment. The technical level of equipment is encouraged to meet specifications in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> and other relevant policies within the period of validity.

Sector		Program	Description/Condition
		1.3.1.4 Facilities for Solid Waste Treatment and Disposal	Manufacturing and trading of sludge treatment equipment (including black and smelly water desilting, bottom mud storage and treatment equipment), solid waste treatment and other related equipment. The technical level of equipment is encouraged to meet specifications in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> and other relevant policies within the period of validity.
		1.3.1.5 Equipment Manufacture for Shock-absorption and Noise-reduction	Manufacturing and trading of sound barriers, mufflers, vibration isolation devices for power equipment, soft connection equipment for pipeline vibration isolation, track vibration and noise control devices, damping vibration suppression materials and equipment, active noise and vibration control equipment and other relevant equipment. The technical level of equipment is encouraged to meet specifications in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> and other relevant policies within the period of validity.
		1.3.1.6 Facilities for Prevention and Control of Radioactive Contamination	Manufacturing and trading activities of radioactive waste treatment and disposal devices, radioactive source contaminated soil treatment and remediation equipment, etc.

Sector		Program	Description/Condition
		1.3.1.7 Medicament and Materials for Environment Pollution Treatment	Manufacturing and trading of phosphorus agent, germicide and algicide, flocculant, and other environmental agents, dedusting bag filter materials and fibers, dedusting large-bore bag pulse valve, high-voltage pulse valve with low energy consumption and no diaphragm and its membrane material and membrane module equipment and components. Also the manufacturing and trading of environmental pollution control materials and chemical agents included in <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> within the period of validity.
		1.3.1.8 Environment Monitoring Instrument and Emergency Equipment	Manufacturing and trading of air, water, soil, biological, noise and vibration, solid waste, motor vehicle emissions (including remote sensing monitoring and PEMS testing), nuclear and radiation ecological environment monitoring and testing equipment, environmental emergency testing instruments, and environmental emergency equipment. Also the manufacturing and trading that included in <i>Comprehensive Environmental Protection Catalogue (2017 Edition)</i> and <i>National Catalogue of Major Environmental Protection Equipment Technology Encouraged by the State (2017 Edition)</i> , as well as in line with national standards such as the “Flue Gas Integrated Purification Special Carb-based Products” (GB/T 35254) and “Detection Technical Specifications for Flue Gas Denitrification Catalyst” (GB/T 38219).

Sector		Program	Description/Condition
	1.3.2 The Treatment of Sewage Water	1.3.2. Protection and Control of High Quality Water and Underground Water Environment	Ecological preservation and restoration construction of headwater, reservoir of lakes and rivers (with Grade III water quality), the construction of standardized drinking water source and backup water source, by coordinating pollution prevention engineering measures such as interception and pollution control, vegetation restoration, construction of biological buffer zones, scrapping, sealing and backfilling mines, drilling, and water intake wells. Also, pollution risk assessment and pollution control, groundwater protection of the petrochemical area, mining area, farmland and other relevant region.
		1.3.2.2 Treatment and Management of Important River and Sea Waters	Restoration activities to improve quality of the water environment and restore the ecological function of the water area, by coordinating interception and pollution control, garbage cleanup, river dredging and dredging, wetland protection and restoration, vegetation restoration and other relevant measures, including the water environmental protection and comprehensive management the seven major river basins, coastal waters, and major lakes, such as the monitoring and regulation of plastic waste in coastal areas.
		1.3.2.3 Management and Treatment of Black and Malodorous Water	Comprehensive treatment activities for urban black and malodorous water bodies, including sewage treatment, recycling, sewage pipeline construction and technical upgrading, sewage outlet renovation, sewage interception system construction and renovation, internal source treatment, artificial wetland construction, garbage cleaning and other treatment activities. After the treatment, the water quality should meet the requirements of management documents such as <i>Guidelines for Urban Black and Malodorous Water Remediation</i> (published in 2015) and <i>Urban Black and Malodorous Water Remediation – Technical Guidelines for the Treatment of Drains, Pipelines and Inspection Wells</i> (published in 2016).

Sector		Program	Description/Condition
		1.3.2.4 Ship and Port Pollution Prevention and Treatment	Port construction of oil and gas recovery system for the purpose of preventing pollution from ships and ports. Pollution prevention facilities construction and technical upgrading of ships retrofitting with tail gas pollution control equipment, the construction of wind and dust suppression facilities at the ore terminal yard, the construction of port ship pollutant receiving facilities and the construction of shore power supply facilities, and the construction of shore power supply facilities and the construction of facilities in avoid of the alien species' invasion caused by ship ballast water.
	1.3.3 Air Pollution Treatment	1.3.3.1 Treatment of Transport Vehicles Pollution	Pollution control of traffic vehicles by renovating and replacing old high-energy-consumption and high-emission operating vehicles with the vehicles that meet new energy efficiency and pollutant emission standards, by construction of real-time monitoring systems for pollution emissions from motor vehicles and non-road mobile machinery, and by the treatment of vehicle maintenance waste oil, wastewater and exhaust gas treatment.
		1.3.3.2 Comprehensive Treatment of Dust Pollution in Urban Areas	Comprehensive treatment of dust pollution in urban areas by setting up fully enclosed fences at construction sites, material stacking and covering, wet-mixed operational method of soil excavation, ground hardening of access roads, cleaning of access vehicles, sealing measures for slag transport vehicles, mechanization cleaning of roads, greening and afforestation of urban and surrounding areas.
		1.3.3.3 Cooking Oil Sewage and Smoke Treatment	Cooking Oil Sewage and Smoke Treatment including installing high-efficiency fume purification facilities at catering service site and other related treatment activities.

Sector		Program	Description/Condition
	1.3.4 Soil Treatment and Other Pollution Treatment	1.3.4.1 The Treatment of Contaminated Land due to Construction	Treatment activities of detailed investigation and monitoring of the soil pollution status at construction sites, corresponding risk assessment, and the use of physical, chemical, and biological engineering technical measures such as transfer, absorption, degradation, etc. to reduce the level of soil pollutant content, so that the soil quality of construction land meets the environmental quality requirements of relevant planning and to improve its utility value.
		1.3.4.2 The Treatment of Contaminated Deserts	Treatment of contaminated deserts by physical measures such as cleaning, leaching, vitrification, heat treatment, and gas phase suction, chemical measures such as incineration, electric repair, chemical stabilization, and biological measures such as plant remediation, animal remediation, and microbial remediation.
		1.3.4.3 The Treatment of Contaminated Agricultural Land	Detailed investigation and monitoring of farmland soil pollution status and risk assessment, classification, safe use, risk control, treatment and restoration of farmland soil environmental quality, and evaluation of the treatment and restoration.
		1.3.4.4 Noise Control	Noise control activities such as industrial enterprise noise control, traffic noise control, construction noise control, and social life noise control.
		1.3.4.5 Odor Pollution Control	Odor pollution control activities by installing purification devices or taking other engineering and technical measures to the enterprises and organizations that produce malodorous gas in production and operation activities.

Sector		Program	Description/Condition
	1.3.5 Comprehensive Management in Agriculture and Rural Environment	1.3.5.1 Agricultural and Pratacultural Non-point Source Pollution	Activities to reduce farmland pollution and agricultural waste pollution, antibiotic pollution and other new types of pollution by comprehensive prevention and control measures at the source, during the process and at the end; soil testing, formula fertilization, farmland nitrogen and phosphorus interception and reuse, and other agricultural clean production technology applications; crop diseases and insect pests prevention and management service, and green prevention and control service; centralized treatment and resource utilization of manure, large-scale livestock and poultry breeding and resource utilization of manure, harmless treatment facilities for sick and dead livestock and poultry, construction of ecological trenches, sewage purification ponds and other facilities and operations, prevention and control of agricultural plastic film pollution.
		1.3.5.2 Management of Rural Living Environment	Comprehensive treatment projects to improve the production and living environment in rural areas, such as the construction and operation of rural domestic garbage and sewage treatment facilities, comprehensive treatment of rural rivers, toilet sewage treatment, improvement of village appearance, and construction and operation of rural drinking water safety projects, etc. Rural sewage treatment facilities should comply with the relevent national standards such as technical requirements for the evaluation of operational effects of rural domestic sewage treatment facilities.
1.4 Water Saving and Non-conventional Water Resources	1.4.1 Non-conventional Water Resources	1.4.1.1 Sea Water and Brackish Water Desalination	Construction and operation of seawater and brackish water desalination facilities.
		1.4.1.2 Rain Water Collection, Treatment and Utilization	Construction and operation of rainwater collection, treatment and utilization facilities.

Sector		Program	Description/Condition
1.5 Integrated Utilizations of Resources	1.5.1 The Manufacture of Resources Recycling Facilities	1.5.1.1 Facilities for Integrated Utilizations of Mineral Resources	Manufacturing and trading of integrated utilization facilities for energy minerals, ferrous metal minerals, non-ferrous metal (including rare metal) minerals, non-metallic mineral resources, etc.
		1.5.1.2 Facilities for Integration Utilizations of Industrial Solid Waste	Manufacturing and trading of integrated utilization or secondary utilization facilities for desulfurized gypsum, phosphogypsum, chemical waste, smelting waste, tailings, red mud and other solid waste; manufacturing and trading of high-efficiency low-cost recycling facilities for metallurgical soot dust recovery and rare precious metal.
		1.5.1.3 Green Recycling and Treatment of Construction and Transportation Waste	Manufacturing and trading of integrated utilization package facilities for producing raw materials for roads and municipal facilities using construction, road demolition, maintenance waste mixes, waste asphalt, sand and ash powder and other related material; Manufacturing and trading of integrated utilization package facilities of reuse buildings and road wastes in mobile or fixed, or a combination method.
		1.5.1.4 Recycling and Harmless Treatment of Food Waste	Manufacturing and trading of kitchen waste, harmless treatment and integrated utilization facilities for using food waste to produce biodiesel, organic fertilizer, biogas, industrial ethanol and other related products, including the manufacturing and trading of production equipment of classification and recycling, transportation, sorting and pre-processing.
		1.5.1.5 Remanufacturing of Automobile Components, Mechanical Products and Electrical Products	Manufacturing and trading of production equipment of car parts and mechanical and electrical products materials using scrapping and recycled car parts, and mechanical and electrical product materials. For example, equipment manufacturing and trading of dismantling and cleaning of used auto parts, and used mechanical and electrical products; integrated equipment manufacturing and trading of electroplating, cladding, and molding.

Sector		Program	Description/Condition
		1.5.1.6 Facilities for Resources Recycling and Use	Manufacturing and trading of waste-free power batteries, tires, electromechanical products and other waste metals, rubber, glass, biomass materials, and harmless recycling equipment, in line with national standards such as the “Technical Guidance for Waste Lubricating Oil Recycling and Reuse ” (GB/T 17145), “Products and Parts Recyclable Label” (GB/T 23384), “General Requirements and labels for Recycled and Remanufactured products ”(GB/T 27611), “Nitrogen Oxide Materials Oxidation Resistance Test-Method of Variable Temperature Oxidation” (GB/T 32329).
		1.5.1.7 Facilities for the Use of Non-Conventional Water Resources	Manufacturing and trading of industrial wastewater, urban domestic sewage treatment and recycling equipment, mine water, brackish water, rainwater collection, treatment and utilization equipment, seawater desalination treatment and utilization equipment and other unconventional water source utilization equipment.
		1.5.1.8 Facilities for the Recycling and Eco-friendly Treatment of Agro-waste	Manufacturing and trading of agro-waste recycling and eco-friendly treatment equipment which produce fermented feed, biogas, bio-natural gas, solid fuel, organic fertilizers and other relevant products using straw, livestock and poultry manure, rural toilet manure and other agricultural and forestry wastes.

Sector		Program	Description/Condition
	1.5.2 Integrated Utilization of Industrial Solid Waste	1.5.2.1 The Integrated Utilization of Mineral Resources	Exploitation and integrated utilization of low-grade energy minerals and associated minerals such as kerogen shale, oil sands and associated natural gas; redevelopment and utilization of medium-low grade black metal mines of iron, manganese, and chromium, of its tailings and associated minerals; high-efficient exploitation and utilization of copper, lead, nickel, tin, aluminum, magnesium, gold, silver and other non-ferrous metal mineral, redevelopment of its tailings and integrated utilization of associated minerals; redevelopment of tailings and integrated utilization of associated minerals of kaoline, bauxite, limestone, gypsum, phosphate ore and other non-metallic minerals.
		1.5.2.2 The Recycling of Waste and Discarded Resources	Recycling of waste metal, waste rubber, waste plastic, waste glass, waste solar equipment, waste textiles, waste mineral oil, waste biomass, waste paper (waste printed products, etc.), waste denitration catalysts, waste cloth bags for dust removal, and other waste resources. For example of the construction and operation of facilities for recycling, sorting and processing of waste resources, in line with national standards such as the “Product Recyclable Utilization Rate Calculation Guide” (GB/T 20862), “Enterprise Technical Specifications for Waste Product Treatment” (GB/T 27873), “Enterprise Statistical Indicator System for Waste Product Recyclable ” (GB/T 28744), “Waste Plastic Recycling Technical Specifications”(GB/T 37821), “Technical Code for Waste Textile Recycling” (GB/T 38926).
		1.5.2.3 The Remanufacture of Automobile Components, Mechanical and the Electrical Products	Construction and operation of facilities for recycling, sorting, dismantling and reprocessing of used automobile parts and electromechanical products.

Sector		Program	Description/Condition
	1.5.3 Integrated Use of Biomass Resources	1.5.3.1 The Integrated Utilization of Domestic Waste	Construction and operation of facilities for the harmless treatment and utilization of resources such as domestic garbage, kitchen waste, urban sludge, construction and transportation waste, and bridge demolition waste. For example the construction and operation of domestic waste sorting and treatment facilities, garbage incineration power plants, organic fertilizer production facilities from kitchen waste, and biodiesel facilities.
		1.5.3.2 The Recycling of Agricultural Waste	Construction and operation of resource utilization facilities for agricultural wastes such as crop stalks, livestock and poultry manure, tail vegetables, and primary processing residues of agricultural products. For example of construction and operation of crop straw biomass fuel facilities, livestock and poultry manure biogas facilities and other related facilities.
		1.5.3.3 The Integrated Utilization of Sludge from Urban Sewage Treatment Plant	Construction and operation of sludge treatment and comprehensive utilization facilities of urban sewage treatment plants. Such as sludge land use (land improvement, landscaping, forestry, agricultural use, etc.) activities, as well as the construction and operation of other types of sludge resource utilization facilities such as incineration power generation (heating, cogeneration), construction material processing facility construction and operation .

Sector		Program	Description/Condition
1.6 Green Transportation	1.6.1 New Energy Vehicles and Green Shipbuilding	1.6.1.1 Development of Producers of Major Components for New Energy Vehicles	Manufacturing of new energy vehicle core components including batteries, motors and their control systems, electrical accessories, plug-in hybrid special engines, electromechanical coupling systems, and energy recovery systems, and its industrial facility construction and operation. Also the trading and purchasing of new energy/clean energy vehicles. The relevant projects shall meet the requirements of the “Administrative Provisions on the Admission of New Energy Vehicle Enterprises and Products” (Amendment No. 54 of the Order of the Ministry of Industry and Information Technology, PRC).
		1.6.1.2 The Manufacture of Facilities for Charging, Battery Replacement and Hydrogenation	Equipment manufacturing, facility building and operation of distributed AC charging pile, centralized fast charging station, power exchange facility, station hydrogenation and hydrogen storage equipment and other related equipment manufacturing. The design and construction of hydrogenation stations shall comply with the requirements of national standards such as “Design Code for Hydrogen Stations” (GB 50177), “Technical Code for Hydrogen Fueling Stations” (GB 50516) and “Technical Code for Safety of Hydrogen Fueling Stations”(GB/T 34584).
		1.6.1.3 Green Shipbuilding	Manufacturing, purchasing and trading of green ships including natural gas-powered ships, electric power ships, solar/wind energy ships, and energy-saving and new energy construction ships.

Sector		Program	Description/Condition
2.1 Pollution Prevention and Treatment	2.1.1 The Treatment of Sewage Water in Production	2.1.1.1 Industrial desulfurization, denitration and dust removal	Technical upgrading of industrial boiler desulfurization, denitrification and dust removal, iron and steel industry sintering machine desulfurization, cement industry denitration technology transformation, exhaust gas heavy metal treatment, etc., complying with national standards such as “Principles and Requirements for Comprehensive Utilization of Waste Gas in Industrial Park”(GB/T 36574), “Technical Requirements for Evaluation of Operation Effect of Coal-fired Flue Gas Denitrification Equipment”(GB/T 34340), “Technical Requirements for Evaluation of Operation Effect of Coal-fired Flue Gas Desulfurization Equipment” (GB/T 34605), “Technical Requirements for Evaluation of Operation Effect of Steel sintering flue gas desulfurization and dust removal equipment” (GB/T 34607) .
		2.1.1.2 The Integrated Treatment of Volatile Organic Compounds	Construction of treatment facility for volatile organic compounds in petrochemical, organic chemical, pharmaceutical, industrial coating and packaging (including comprehensive renovation of enterprises and industrial parks in the industrial park); Construction and operation of comprehensive treatment facilities of volatile organic compounds in oil and gas transportation and storage systems (such as gas stations, tank trucks, oil storage depots), and oil and gas recovery facilities; technical upgrading of production processes and production equipment for the purpose of volatile organic compounds treatment.

Sector		Program	Description/Condition
		2.1.1.3 The Transformation of Ultra-Low Emission of Steel Enterprises	Upgrading of desulfurization and denitrification facilities in production processes of iron and steel enterprises, such as the installation of low-nitrogen burners and high-efficiency dust removal facilities and related equipment in production line; closed reformation of production workshops and slag treatment equipment, upgrading of phenol cyanide wastewater treatment facilities, and leakage of equipment and pipelines Detection and repair, etc., in line with the requirements of national standards such as “Technical Specifications for Blast Furnace Dry Dusting Ash Recovery and Utilization”(GB/T 33759).
	2.1.2 The Treatment of Sewage Water in Production	2.1.2.1 The Treatment of Sewage Water of Major Industries	Clean technology upgrading of major industries which produce sewage water, including papermaking, coking, nitrogen fertilizers, non-ferrous metals, printing and dyeing, agricultural and sideline food processing, active pharmaceutical ingredient manufacturing, tanning, pesticides, electroplating; and construction and operation of industrial sewage treatment facilities and other water pollution treatment facilities. For example, the remediation of phosphate ore, phosphorus chemical industry, phosphogypsum storage, and comprehensive utilization and trading of phosphogypsum, construction and operation of production wastewater facilities in industries containing phosphorus pesticides, etc, in line with the requirements of national standards such as the “Industrial Wastewater Treatment and Reuse Technology Evaluation Guide”(GB/T 32327) .

Sector		Program	Description/Condition
		2.1.2.2 Centralized Treatment of Sewage Water in Industrial-Intensive Zones	Construction and operation of sewage pretreatment systems, sewage collection systems and sewage centralized treatment facilities in economic and technological development zones, high-tech industrial development zones, export processing zones and other industrial areas, in line with the requirements of national standards such as “Principles and Requirements for the Classification and Recycling of Water in the Industrial Park ”(GB/T 36575).
	2.1.3 Pollution Treatment in Industrial Parks	2.1.3.1 The Promoting of Centralized Treatment of Pollution in the Park	Construction, operation and upgrading of centralized pollution control facilities and centralized spraying facilities in industrial parks and enterprise clusters. Construction and operation of waste and renewable resources (e.g. scrap steel, waste nonferrous metals, waste plastics, waste rubber) centralized dismantling and treatment facilities; and construction and technology upgrading of infrastructure in industrial parks and enterprise clusters (e.g. water supply, power supply, heating, roads, communications) in line with the requirements of national standards such as “Green Indicator System and Evaluation Methods for Industrial Park Infrastructure ” (GB/T 38538), “Technical Specifications for Production of Methanol from Coke Oven Gas” (GB/T 38927).
		2.1.3.2 The Transformation of Major Industries into Cleaner Production of in the Park	Cleaner production upgrading of key highly polluting enterprises and industrial parks in the fields of steel, chemical, petroleum and petrochemical, and non-ferrous metals to improve the environment, reduce greenhouse gas emissions and achieve efficient utilization of resources. The new construction, renovation and expansion projects of chemical, petroleum and petrochemical industries shall adopt process listed in the Petrochemical Green Technology List (2019 Edition).

Sector		Program	Description/Condition
	2.1.4 Non-hazardous Alternatives and the Treatment of Hazardous Waste	2.1.4.1 The Production of Non-hazardous Materials as Alternatives	Technology upgrading or construction of manufacturing facility using new technologies of using non-toxic, harmless or low - toxic and low -harm raw materials instead of the toxic and hazardous materials containing heavy metals, organic pollutants or ozone-depleting substances, in the key industries of electrical appliances, automobiles, paints, furniture, printing, automobile manufacturing coatings, rubber products, leather, and shoemaking. For example, the upgrading to the alternative technologies or construction of manufacturing facility of the alternative products listed in <i>Catalogue of Alternatives to Toxic and Harmful Raw Materials (Products) Encouraged by the State (2016 Edition)</i> within the period of validation, and the technology upgrading and new technology facility construction towards the controlled substances listed in <i>Montreal Protocol on Substances that Deplete the Ozone Layer</i> and its amendments
		2.1.4.2 The Treatment and Disposal of Hazardous Waste	Construction and operation of hazardous waste and medical waste reduction and harmless treatment and disposal facilities included in the <i>National List of Hazardous Wastes</i> (published in 2016) within the period of validity.
		2.1.4.3 The Transport of Hazardous Waste	Hazardous waste transportation and operation activities included in the <i>National List of Hazardous Wastes</i> (published in 2016) within the period of validity.
2.22 Green Agriculture	2.2.1 Comprehensive Management in Agriculture and Rural Environment	2.2.1.1 The Production of High-effect, Low-Toxic And Low-Residue Pesticide and Alternatives	Manufacturing and using low toxicity and low residue pesticides compliant with the <i>List of Major Varieties of Low Toxicity and Low Residue Pesticides Produced and Used in the Plantation Industry (2016)</i> and other pesticides endorsed by the state and industry policies in agricultural production, by technology upgrading of pesticide production equipment, production process system, and environmentally friendly pesticide R&D and production.

Sector		Program	Description/Condition
		2.2.1.2 The Treatment of Livestock and Poultry Husbandry Waste and Pollution	Treatment of livestock and poultry husbandry wastes by clean upgrading of poultry farms, collection and harmless treatment of breeding wastewater, manure, and construction of comprehensive utilization facilities, upgrading and construction of air pollution prevention and control facilities.
		2.2.1.3 The Recycling of Discarded Agricultural Film	Construction of mobile and fixed recycling station of waste plastic sheeting and its transportation and storage. Manufacturing of the producing equipment and construction and operation of the facility using waste plastic sheeting renewable particles, water leak-proof material, plastic bags and pyrolysis oil.
2.3 Integrated Utilizations of Resources	2.3.1 Integration Utilizations of Solid Waste	2.3.1.1 Harmless Treatment, Disposal and Integrated Utilization of Industrial Solid Waste	Construction and operation of recovery, harmless treatment and reuse facilities of smelting slag, industrial by-product gypsum, red mud, chemical waste slag and other industrial solid waste, as well as construction and operation of harmless treatment facilities such as hazardous waste incineration and high-temperature melting, complying with relevant standards or policies of pollution control technology. Construction and operation of recycling facilities that use hazardous wastes as raw materials for the preparation of other industrial products and the utilization of resources, meeting the requirements of national standards such as “Technical Guidance for Environmental and Quality Safety Assessment of Industrial Solid Waste Comprehensive Utilization Products” (GB/T 32328), “Technical Guidance for Comprehensive Utilization of Industrial Solid Waste” (GB/T 32326), and “Terminology for Comprehensive Utilization of Industrial Solid Waste” (GB/T 34911).

Sector		Program	Description/Condition
		2.3.1.2 The Treatment and Management of Historic Tailings	Upgrading of tailings pond storage system, flood drainage system, backwater system; environmental treatment and restoration of historical problematic tailings storage and the areas affected by it, for example the management and restoration of river slag pollution at heavy metal-contaminated plots.
		2.3.1.3 The Recycling and Treatment of Package Waste	Construction and operation of recycling and treatment facilities for packaging waste such as paper packaging containers and materials, plastic packaging containers and materials, metal packaging containers and materials, glass packaging containers and materials, wooden packaging containers and materials, and mixed materials packaging containers, in line with the requirements of national standards such as “Quality Requirements for Waste Composite Packaging Sorting ” (GB/T 38925).
	2.3.2 Integration Utilizations of Resources in Industrial Parks	2.3.2.1 The Upgrade of the Industry Chain Cycles in the Park	In industrial parks, enterprises in different fields, such as power, steel, nonferrous metals, oil and petrochemical industry, chemical industry, building materials, papermaking, textile, agriculture, establish industry chain cycles, to maximize the continuous utilization and recycle of waste resources, or achieve tiered utilization of the energy.
		2.3.2.2 The Energy Efficiency Improvement in the Park	The introduction and construction of waste resources, tailings, associated mines and other resource utilization projects in the park; as well as the special or systematic upgrading of the park to improve the overall resource utilization efficiency and the resource utilization efficiency of the park enterprises, including the introduction, upgrading and construction of the supplementary enterprises missing in the chain; the highly-efficient utilization of resources for existing enterprises , and in accordance with the national standard requirements such as “Implementation Guides for Environment Management System of Comprehensive Waste Resources Utilization Industry”(GB/T 29750).

Sector		Program	Description/Condition
2.4 Water Saving and Non-conventional Water Resources	2.4.1 Industrial Water Saving	2.4.1.1 The Improvement of Water Saving and Water Use Efficiency in Production	Water-saving upgrading and facility construction of industrial cooling water, thermal and process water, washing water, steam condensate recovery and reuse, discharged waste water recovery treatment and reuse, construction of unconventional water resources utilization , in accordance with the requirements of national standards such as “The Evaluation of Heavy Metal Wastewater Treatment and Reuse Technology” (GB/T 38224).
3. Clean Energy Industry			
3.1 Energy Efficiency Improvement	3.1.1 Energy Efficiency in Electrical Facilities	3.1.1.1 Manufacture of Intelligent Power Grid Products and Facilities	Manufacturing of intelligent power grid facilities including smart transformers, rectifiers and inductors, advanced power electronic devices, smart power transmission and distribution and control equipment, UHV power transmission equipment, pumped storage equipment, new energy storage equipment, charging facilities; and manufacturing of the controlling products related to smart grid and new energy.
		3.1.1.2 The Construction and Operation of Smart Grids	Construction and operation of smart grid facilities with information integration, controlling, energy storage technologies and intelligent power equipment, in order to reduce curtailment of wind and PV power, improve the consumption efficiency of clean energy, and achieve digital management, smart decision-making and interactive trading of electricity during the process of power generation, transmission, distribution and storage.

Sector		Program	Description/Condition
3.2 Clean Energy	3.2.1 The Manufacture of New and Clean Energy Facilities	3.2.1.1 Manufacture of Wind Generators	Manufacturing and trading of onshore and offshore wind turbines; Manufacturing and trading of 3MW and above offshore and onshore wind turbine generators, wind turbine blades, bearings, cables, gearboxes, towers and other key components in highland, low-temperature, low wind speed models; Manufacturing and trading of wind farm related systems and equipment.
		3.2.1.2 Manufacture of Solar Generators	Manufacturing and trading of photovoltaic power generation equipment and CSP equipment. Among them, photovoltaic power generation equipment manufacturing enterprises and projects should meet the requirements of the <i>Regulatory of Photovoltaic Manufacturing Industry</i> (2018 Edition) within the valid period, and the production of photovoltaic cells should meet Level I of the <i>Evaluation Index System for Clean Production of PV Cell Industry</i> (No. 21, 2016).
		3.2.1.3 Manufacture of Biomass Production Facilities	Manufacturing and trading of straw, rice husk and other agricultural production by-product materials collection, crushing, transportation and storage equipment, biomass power generation, heating equipment, biogas, biomass gas production equipment, biomass solid liquid fuel production equipment and other equipment.
		3.2.1.4 Manufacture of Hydropower and Pumped-storage Facilities	Manufacturing and trading of high-performance large-capacity hydropower generating units, high-head large-capacity pumped storage units, thousand-Megawatts large-scale hydro-generator units, variable-speed pumped storage units, ultra-high-head large-impact hydro-generator units, seawater pumped storage units and other related hydraulic power generation and pumped storage units.

Sector		Program	Description/Condition
		3.2.1.5 Manufacture of Nuclear Power Facilities	Manufacturing of the third generation of advanced pressurized water reactor nuclear power plant equipment, fast neutron reactor and high temperature gas-cooled reactor nuclear power plant equipment, small nuclear power equipment in modulars, nuclear emergency equipment and nuclear grade pumps, valve equipment and other nuclear power plant auxiliary equipment, radiation protection materials, and safety and monitoring devices; Manufacturing of exploitation and production equipment in uranium mining, uranium purification and conversion, uranium enrichment, fuel element production; Manufacturing of treatment equipment of nuclear facility decommissioning, radioactive waste treatment and disposal equipment; and manufacturing of comprehensive utilization equipment of uranium associated mine.
		3.2.1.6 Manufacture of Gas Turbine Facilities	Manufacturing of gas turbine equipment such as heavy gas turbines, micro gas turbines, etc. Manufacturing of gas turbine core components, such as ceramic cores with complex structures, high-strength thermal shock resistant ceramic mold shells, large-size oriented crystal or single crystal blades, large turbine disks, high-precision rotors, high-durability bearings and sealing equipment, high-strength steel tie rods and high-temperature high-pressure burners.
		3.2.1.7 Manufacture of Fuel Cell Facilities	Manufacturing and trading of fuel cell in proton exchange membrane, direct methanol, alkaline fuel, molten carbonic acid fuel, phosphoric acid fuel, solid oxide, etc..
		3.2.1.8 Manufacture of Geothermal Energy Exploitation Facilities	Manufacturing and trading of key equipment of ground source heat pump, high temperature geothermal heat pump, and geothermal absorption refrigeration system, medium and low temperature geothermal power generation system, geothermal drying and hot water supply system, and other anti-corrosion and anti-scale geothermal equipment.

Sector		Program	Description/Condition
		3.2.1.9 Manufacture of Marine Energy Exploitation Facilities	Manufacturing and trading of marine energy development equipment which generates electricity using marine tidal energy, tidal current energy, wave energy, temperature difference energy, salt difference energy.
	3.2.2 The Construction and Operation of Renewable Energy facilities	3.2.2.1 The Construction and Operation of Wind Generators	Construction and operation of facilities using wind energy to generate electricity.
		3.2.2.2 The Construction and Operation of Solar Power Facilities	Construction and operation of facilities using solar power to generate electricity, which including solar photovoltaic power generation and solar thermal power generation facilities. Among them, the component products selected for solar photovoltaic power generation facilities should meet the following requirements: 1) The minimum photoelectric conversion efficiency of polycrystalline silicon cells and monocrystalline silicon cells shall not be less than 19% and 21% respectively; 2) The minimum photoelectric conversion efficiency of polycrystalline silicon cell modules and single crystal silicon battery modules shall not be less than 17% and 17.8% respectively; 3) The minimum photoelectric conversion efficiency of silicon-based, CIGS , CdTe and other thin-film battery modules shall not be less than 12% , 14% , 14% , 12% ; 4) The decay rates of polycrystalline silicon battery modules and monocrystalline silicon battery modules shall not be higher than 2.5% and 3% in the first year, and not higher than 0.7% per year, and not higher than 20% within the period of 25 years ; the attenuation rate of thin-film battery module shall not be more than 5% in the first year, no more than 0.4% per year in the following year, no more than 15% within the period of 25 years .

Sector		Program	Description/Condition
		3.2.2.3 The Construction and Operation of Biomass Energy Facilities	<p>Construction and operation of facilities that use biomass raw materials such as agricultural and forestry wastes and municipal solid waste to generate electricity and heat;</p> <p>Construction and operation of facilities that produce biomass liquid fuels such as fuel ethanol;</p> <p>Construction and operation of facilities that produce biodiesel and other related products using kitchen wastes such as gutter oil as the main raw materials.</p>
		3.2.2.4 The Construction and Operation of Large hydropower Facilities	Construction and operation of facilities for generating electricity using potential energy of water under the premise of no significant impact on the ecological environment. Only the key large-scale hydropower projects listed in the National Renewable Energy Program shall be included.
		3.2.2.5 The Construction and Operation of Nuclear Power Plants	Construction and operation of the facilities using third-generation and fourth-generation nuclear power generation technologies, generating heat by controlled nuclear fission.
		3.2.2.6 The Construction and Operation of Facilities of Geothermal Energy Exploitation	Construction and operation of building heating and cooling facilities using heat pumps and other technologies to extract shallow geothermal energy (including rock and soil heat sources, groundwater heat sources, surface water heat sources, etc.); use of medium and high temperature geothermal heat, medium and low temperature geothermal heat, dry heat rock and other geothermal resources, Construction and operation of power generation facilities.
		3.2.2.7 The Construction and Operation of Marine Energy Exploitation Facilities	Construction and operation of facilities for generating electricity using marine tidal energy, wave energy, tidal current energy, temperature difference energy, salt difference energy and other resources.

Sector		Program	Description/Condition
		3.2.2.8 The Construction and Operation of Hydrogen Energy Exploitation Facilities	<p>Construction and operation of hydrogen energy transmission and utilization facilities such as clean hydrogen production, hydrogen safe and efficient storage, hydrogen refueling stations, hydrogen fuel cell vehicles, hydrogen fuel cell power generation, and hydrogen-incorporated natural gas pipelines. Hydrogen safety shall meet the requirements of national standards such as “Technical Specification for Safety in Use of Hydrogen” (GB 4962) and “Basic Requirements for Safety of Hydrogen Systems” (GB/T 29729). Hydrogen production by hydrolysis shall meet the requirements of national standards such as “Technical Requirements for Hydrogen Production System by Hydrolysis” (GB/T 19774) and “Safety Requirements for Hydrogen Production System by Hydrolysis under Pressure” (GB/T 37563). The hydrogen production by pressure swing adsorption purification shall meet the requirements of national standards such as “Pressure Swing Adsorption Adsorber for Hydrogen Purification” (GB/T 29412) and “Technical requirements for pressure swing adsorption hydrogen purification system” (GB/T 19773). Hydrogen storage and transportation shall meet the requirements of national standards such as “Stationary High-pressure Steel Strip Stagger-Wrap Vessels for Hydrogen Storage” (GB/T 26466) and “Hydrogen Storage and Transportation System” (GB/T 34542).</p> <p>Hydrogen storage devices for hydrogen refueling stations shall meet the requirements of national standards such as “Safety Technical Requirements for Hydrogen Storage Devices of Hydrogen Filling Stations” (GB/T 34583). The design and construction of hydrogen refueling stations shall meet the requirements of national standards such as “Design Code for Hydrogen Stations” (GB 50177), “Technical Code for Hydrogen Fueling Stations” (GB 50516), and “Technical Code for Safety of Hydrogen Fueling Stations” (GB/T 34584). Filling facilities shall meet the requirements of national standards such as “Specifications for Supporting Facilities of Hydrogen Fuel Cell Electric Vehicles”(GB/T 29124), “Technical Specifications for Safety of Mobile Hydrogen Filling Facilities” (GB/T 31139), “Management Regulations for Safe Operation of Hydrogen Filling Facilities of Hydrogen Energy Vehicles” (GB/Z 34541).The hydrogen-mixed natural gas for motor vehicles shall meet the requirements of national standards such as</p>

Sector		Program	Description/Condition
		3.2.2.9 The Construction and Operation of Heat Pump Facilities	Construction and operation of heat pump heating (cold) system facilities such as air source heat pumps, ground water source heat pumps, surface water source heat pumps, sewage source heat pumps, soil source heat pumps, and high-temperature air energy heat pumps.
	3.2.3 Efficient Operation of The Clean Energy	3.2.3.1 The Construction and Operation of Projects for Supplementation Between Multiple Energy Resources	The construction of terminal integrated energy supply equipment using technologies including the triple power supply combining natural gas heating, electricity and cooling supply, distributed renewable energy and energy smart microgrid, based on end-user' s demand of multi-energy consumption, in order to improve the overall energy efficiency of the energy supply system. The comprehensive energy efficiency of the equipment should be greater than or equal to 70%; The construction and operation of multi-energy complementary system in increasing the capacity of the regional power grid to accept intermittent renewable energy such as wind and solar, solving the problems of wasting wind, solar and water energy in the regional power grid, using of large-scale comprehensive energy base to bring out the advantage of combining wind, solar, water and natural gas, and to support with thermal power, hydropower, energy storage facilities and other adjustment functions to improve the stability of power system. The system waste rate of wind power should be controlled within 5%, and of solar power should be controlled within 3% .
		3.2.3.2 The Operation and Construction of Efficient Energy Storage Facilities	Construction and operation of efficient energy storage and de-peak facilities, using physical energy storage, electromagnetic energy storage, electrochemical energy storage and phase change energy storage technologies to improve the flexibility, stability and reliability of renewable energy power generation, distributed energy, new energy microgrid and other systems.

Sector		Program	Description/Condition
		3.2.3.3 The Construction and Operation of Natural Gas Transmission, Storage, and Peak Load Regulation Facilities	Construction and operation of natural gas transmission, storage and transportation peak shaving facilities such as long-distance natural gas pipelines, gas storage, branch pipelines, regional pipeline networks, and liquefied natural gas (LNG) receiving stations.
		3.2.3.4 The Construction and Operation of Distributed Energy Resources (Ders) Projects	Construction and operation of distributed energy projects such as natural gas combined heat, power and cooling , distributed renewable energy power generation, and geothermal energy heating and cooling. Energy efficiency requirements for distributed CHP energy systems and engineering projects powered by natural gas or other fossil fuels shall comply with “Energy Efficiency for Distributed CHP Energy Systems Part 1: Fossil Energy Driving System” (GB/T 33757.1). The refrigeration, heating and power units of relevant systems and engineering projects shall conform to “Technical Specifications for Distributed Thermal and Cold Power Energy System Part 1: Refrigeration and Heating Unit” (GB/T 36160.1), “Technical Specifications for Distributed Thermal and Cold Power Energy System Part 2: Power unit” (GB/T 36160.2) and other national standards.
		3.2.3.5 The Construction and Operation of Pumped-Storage Power	Construction and operation of “de-peaking” pumped-storage power to improve the grid’s acceptance of renewable energy power such as wind and solar, to improve the grid’s operational flexibility, stability and reliability.
		3.2.3.6 Construction and Operation of Carbon Dioxide Capture, Utilization and Storage (CCS) Project	Establishment and operation of emission reduction projects to capture, utilize, or store carbon dioxide during fossil energy combustion and industrial processes.

Sector	Program	Description/Condition
4. Ecology and Environment-related sector		
4.1 Ecological Agriculture	4.1.1 Conservation of Agricultural Resources	4.1.1.1 Modern Agriculture, Seed Industry and the Protection of Animal, Plants and Germplasm Resources
		4.1.1.2 The Management of Crop Protection Areas and Protection Zones
		Industrialization projects of the seed cultivation, breeding and promotion that aim to promote sustainable agricultural development; Establishment of elite germplasm demonstration areas; Establishment of R&D and service platforms, and Collection, preservation, protection, and management projects of animal and plant germplasm resources.
		Integration and merger of scattered farmland, land reclamation, and improvement of farmland quality in the defined permanent basic farmland area according to local conditions; Projects to improve the quality of cultivated land in the permanent basic farmland such as the comprehensive management of degraded farmland, the upgrade of medium and low-yield farmland, and the construction of high-standard farmland. Topsoil stripping of occupied cultivated land in the “cultivated land occupation and compensation balance program” used for the soil improvement projects of new cultivated land, inferior farmland, and basic farmland preparation area cultivated land, or used for the construction of farmland water conservancy facilities, farmland water and fertilizer conservation, pollution control and restoration, etc. (The reclamation of heavily desertified land, cultivated land on steep slopes above 25 degrees, or cultivated land associated with illegal deforestation, is prohibited.)

Sector		Program	Description/Condition
		4.1.1.3 Protection of Forest Genetic Resources	<p>Construction of forestry genetic resources investigation, monitoring and information platform, forestry genetic resources collection and preservation (in-situ or off-site protection, preservation facilities, construction of protected areas, etc.).</p> <p>Breeding, domestication and bioprospecting projects for native tree species, economic tree species, and fast-growing tree species.</p> <p>Forestry gene (genetic) resource protection projects that conform to national, industry-related policies, norms, and standards, such as improved species utilization projects, invasive species prevention and control, etc.</p>
		4.1.1.4 The Management of Crop Protection Areas and Protection Zones	Construction and operation of marine ranch projects that restore/increase the number of populations and improve/optimize the aquatic community structure in order to release fish biological eggs, larvae or adults into natural waters such as oceans, tidal flats, rivers, lakes, reservoirs to improve the water environment and protect biodiversity.
		4.1.1.5 Pest Prevention and Control	Agricultural and forestry pest invasion prevention activities for invasion prevention and control of alien species to protect biodiversity; and control activities of invasive alien species by means of resource utilization.
		4.1.1.6 Comprehensive Rural Land Reform	Comprehensive renovation activities of rural villages and landscape to promote the construction of beautiful and livable villages and optimize the rural production and living environment, including low-efficiency idle construction land remediation, industrial/mining wasteland reclamation and hollow village remediation, soil improvement, fertility improvement, water and fertilizer conservation, pollution control and restoration projects, etc.

Sector		Program	Description/Condition
	4.1.2 Comprehensive Management in Agriculture and Rural Environment	4.1.2.1 Control and Prevention of Crop Diseases and Insect Pests	<p>Green prevention and control of crop diseases and pests through usage reduction and/or efficiency improvement of chemical pesticides, as well as projects on zero growth in chemical pesticide usage.</p> <p>These projects can be implemented through:</p> <ul style="list-style-type: none"> - promoting disease-resistant crop varieties, - applying biological control techniques such as “controlling insects with insects”, “co-cultivation of rice and ducks”, “biological biochemical preparations”, - applying physical and chemical lure and control technologies such as “insect killer lamps” and “insect net blocking” - applying high-efficiency, low-toxicity, low-residue, and environmentally friendly pesticides.

Sector		Program	Description/Condition
	4.1.3 Green Agricultural Supply	4.1.3.1 Green Organic Agriculture	<p>Production and bulk trading of organic agricultural products and sustainable food; facilities construction associated with organic agricultural products and sustainable food production.</p> <p>The eligible products and production environment should conform the following criteria:</p> <p>The product itself and its production process must comply with a) the national standard <i>Organic Products</i> (GB/T 19630.1-GB/T 19630.4), b) the environmental quality standards issued by Ministry of Agriculture and 7 other general standards on pesticides, fertilizers, veterinary drugs, feed and feed additives, food additives, animal health, etc., c) 45 product quality standards.</p> <p>The labeling of product must comply with the <i>Administrative Measures on Sustainable Food Labelling</i> issued by the Ministry of Agriculture (2012).</p> <p>Bulk trading activities of green agricultural products are mainly applicable to agricultural products that have obtained the relevant international sustainability certificates, including but not limited to the Roundtable on Sustainable Palm Oil (RSPO), Round Table on Responsible Soy (RTRS), Forest Stewardship Council (FSC), etc.</p>
		4.1.3.2 Green Animal Husbandry	<p>Green animal husbandry projects carried out to promote the efficiency of animal husbandry resources and environmental protection, for example:</p> <ul style="list-style-type: none"> - harmless treatment system for sick and dead livestock and poultry - livestock and poultry breeding waste storage and utilization facilities - environment-friendly breeding facilities such as elevated beds - agricultural industrial park with a circular economy system between breeding, biogas, planting, and processing

Sector		Program	Description/Condition
		4.1.3.3 Green Fishery	Environment-friendly fishery projects such as carbon sink fishery and clean water fishery, rice-fish system and the comprehensive utilization of saline-alkali water for fishery and agriculture, recirculating aquaculture systems, deep-water anti-wind and wave non-bait cage aquaculture, ecological aquaculture, and comprehensive utilization of aquatic by-products. Construction and operation of aquaculture wastewater treatment facilities, as well as fishery resource conservation facilities, such as the marine fisheries conservation, etc.
4.2 Ecological Protection and Construction	4.2.1 Conservation and Restoration of Natural Ecosystems	4.2.1.1 Protection of Natural forest Resources	Construction of forest pest control, forest fire prevention, forest management equipment and infrastructure that maintain the authenticity and integrity of the natural forest ecosystem. Natural forest tending and conservation infrastructure construction projects, such as housing, power supply, water supply, communication, roads, etc. Degraded natural forest restoration projects, such as the use of native species for slope farmland restoration, artificial afforestation, natural afforestation through hillside closure, logging-tending systems, etc. State-owned forest area conversion projects such as eco-tourism, leisure and recreation, featured species breeding, which do no harm to surface vegetation and biodiversity protection and conform to the commercial logging prohibition, under the condition of complete cessation of commercial logging of natural forests.
		4.2.1.2 Protection of Animal and Plant Resources	Rescue protection of endangered wild animals and plants, biodiversity protection, fishery resources protection, protection of ancient and famous trees, etc.

Sector		Program	Description/Condition
		4.2.1.3 The Construction and Operation of Nature Reserves	<p>Conservation and management projects in the certain protected area (including core area, buffer zone, and peripheral area) of the natural concentrated distribution area of representative natural ecosystems and endangered wild animal and plant species.</p> <p>Such projects include: relocation of residents for protection purposes and construction and operation of protected area management facilities; construction and operation of scientific research infrastructure (prohibited in the core area); infrastructure construction and operation of scientific experiments, teaching practice, visits, tourism, reproduction and domestication of rare and endangered species (peripheral areas only).</p>
		4.2.1.4. Maintenance and Operation of Ecological Function Areas	<p>Management, restoration and conservation projects of ecological function areas and degraded areas, such as comprehensive control of soil erosion, desertification and rocky desertification control, protection and restoration of the geological environment of mining sits, and construction of nature reserves, etc.</p>
		4.2.1.5 Projects of Converting of Farmlands Back to forests or Grasslands and Restoring Grazing Land to Grassland	<p>Planned and stepwise cessation of cultivation in the cultivated land with serious soil erosion, desertification, salinization, and rocky desertification to protect the ecological environment, grassland and forestry restoration according to local conditions, restoring vegetation, and inhibiting the deterioration of the ecological environment;</p> <p>construction of grassland ecological protection facilities such as grazing prohibition, grassland fences, sheds, and artificial grassland, etc.</p>

Sector		Program	Description/Condition
		4.2.1.6 Restoration and Protection of Rivers, Lakes and Wetlands	Management, restoration, and conservation projects that improve the ecological integrity and sustainability of river, lake, and wetland ecosystems, including construction of pollutant source control and reduction facilities, construction of riverside and lakeside ecological buffer zones, restoration of native species and vegetation, river and lake system inter-connection, ecological dispatching project, construction of flood control and coastal erosion facilities, etc.
		4.2.1.7 Restoration and Protection of National Ecological Security Barrier	Ecological conservation and restoration projects of mountains, rivers, forests, land, and lakes in the core area associated with ecological security, e.g., ecologically fragile areas in the western plateau, wind-sand source areas in the north, high-intensity land development zones such as coastal areas in the east, the Yangtze River areas, the Yellow River areas, and the Pearl River Basin, etc. Examples of eligible projects include mining site environmental governance restoration, land remediation and pollution restoration, biodiversity protection, watershed environmental protection governance, as well as systematic and comprehensive ecosystem management and repair activities such as land remediation, vegetation restoration, river and lake system inter-connection, shoreline environment remediation, wildlife habitat restoration, etc.
		4.2.1.8 Comprehensive Treatment of Key Ecological Areas	Comprehensive management of Beijing-Tianjin wind-sand source areas and karst rocky desertification areas. Ecological protection and construction of key ecological regions such as the three-river-source area in Qinghai through, e.g., planting windbreak forest, returning farmland to grass and forest, wetland restoration and protection, nature reserve construction, etc.

Sector		Program	Description/Condition
		4.2.1.9 Ecological Restoration of Mine Degraded Lands	Pollution treatment and remediation projects for the various ecological damages caused by mineral resources exploration and selection, which take advantage of manual intervention measures as well as ecosystem's self-regulation capabilities. Examples of eligible projects include remediation of mining wasteland, vegetation restoration, backfilling of mines, boreholes, and abandoned mines near important facilities/infrastructures such as rivers, lakes, and sea defenses, mining area land reclamation, restoration of subsidence area, air, water and soil pollution prevention and treatment, comprehensive utilization of wastes such as tailings, reducing land occupation, etc.

Sector		Program	Description/Condition
		4.2.1.10 Comprehensive Treatment of Desertification, Karst Rocky Desertification and the Soil Erosion	<p>Treatment of desertification including sand control measures using planting measures, (such as returning farmland/pasture to forests and grass, planting grass and afforestation, etc); sand control measures using physical measures, (such as building mechanical sand barriers, plant barriers, etc.); sand control measures using chemical measures in barren areas (such as using soil coagulants to consolidate quicksand surface).</p> <p>Comprehensive treatment in rock desertification areas including construction and development of returning farmland to forests and grass in a rocky desertification area, afforestation and land preparation in rock desertification areas, construction of eco-economic forests, construction and development of water conservation forests, natural afforestation through hillside closure, etc.</p> <p>Soil erosion comprehensive treatment activities by engineering measures, such as slope management (e.g., construction of terraced fields, fish-scale pit), trench management (e.g., dirt dams, sand retention dams), and small water conservancy projects, by biological measures, such as afforestation, with the development model of soil and water conservation agriculture production projects.</p>
		4.2.1.11 Drought and Flood Management for Water-Related Ecosystem	Construction and operation of restoration of natural water system connectivity, water conservancy facilities, wetland restoration, disaster warning information platform, and other water ecosystem disaster prevention and response facilities.

Sector		Program	Description/Condition
		4.2.1.12 The Management and Restoration of Groundwater Overdraft Zones	Treatment and restoration of groundwater overdrawn area including water-saving transformation projects of irrigation area in the groundwater overdrawn areas (e.g., north China, northeast China), high-efficiency water-saving field irrigation projects, structural adjustment of crop planting species for water-saving purposes, industrial water-saving transformation, urban water supply pipe network reconstruction, recycling water utilization project, water transfer and water conservancy projects, groundwater source replacement projects, and ecological water replenishment projects, etc.
		4.2.1.13 Integrated management of coal mining subsidence areas	Ecological restoration activities such as land remediation, ecological restoration and environmental remediation in coal-mining subsidence areas, as well as activities such as relocation of residents within the influence of coal-mining subsidence areas, restoration and upgrading of infrastructure and public service facilities, and construction of a platform for non-coal alternative industries.
		4.2.1.14 The Comprehensive Management of Sea Areas, Coastal Zones and Islands	Comprehensive sea area management, natural shoreline restoration, bay remediation projects for the purpose of protecting the natural resources and ecological environment of coastal waters, coasts, and islands.
	4.2.2 Supply of Ecological Products	4.2.2.1 Forest Resources Cultivation Industry	Forestry resource cultivation projects, such as variety improvement of forestry, seedling cultivation, and forest planting, tending, logging, and regeneration, in line with “China Forest Certification and Forest Management” (GB/T 28951), “China Forest Certification-Production and Marketing Chain of Supervision” (GB/T 28952) and other relevant standards.

Sector		Program	Description/Condition
		4.2.2.2 Under-forest Economy of Special Plantation and Animal Farming	Agroforestry projects which do no harm to the function and stability of the forest ecosystem, including planting food crops, oil crops, medicinal herbs, edible fungi, forages, and vegetables under trees, and silvopastoral projects which breed, graze, and underforestry livestock feeding. Construction of green product traceability system, green product production, trade and other related platform in line with the “China Forest Certification and Forest Management” (GB/T 28951), “China Forest Certification -Non-wood Forest Product Management” (LY/T 2273) and other relevant standards.
		4.2.2.3 Forest Carbon Sequestration, Tree and Grass Planting, Forestry Seedlings, and Ornamental Flowers	Tree/grass cultivation and planting projects with significant impact on carbon sequestration, environmental improvement, or air purification. Tree planting activities that protect biodiversity.
		4.2.2.4 Forest Recreation and Health Rehabilitation Industry	Construction of eco-sightseeing, recreation, culture, sports, and health care facilities based on natural resources such as forests, grasslands, wetlands, deserts, and wild animals and plants without damaging surface vegetation, biodiversity and ecosystems. Sustainable business activities that meet the requirements of “China Forest Certification-Forest Management” (GB/T 28951) and relevant standards.

Sector		Program	Description/Condition
		4.2.2.5 Protection and Operation of National Parks, World's Heritages, National-Level Scenic and Historic Interest Areas, National Forest Parks, National Geo-Parks, and National Wetland Parks	Development and construction for the purpose of protecting forests, grasslands, deserts, wetlands, oceans, and other natural ecosystems, including construction and operation of national parks, world natural heritage sites, forest parks, wetland parks, desert parks, etc. Sustainable business activities in the permitted areas that meet the requirements of "China Forest Certification-Forest Management"(GB/T 28951), "China Forest Certification-Forest Ecological Environment Service-Nature Reserve" (LY/T 2239), "China Forest Certification-Forest Park Ecological Environment Service" (LY/T 2277) , "China Forest Certification-Wildlife Feeding and Management" (LY/T 2279) and other relevant standards.
5. The Green Upgrade of Infrastructure			
5.1 Energy Efficiency Improvement	5.1.1 Energy Efficiency and Energy Use Facilities in Urban Power	5.1.1.1 Environmental Friendly Operation and Upgrade of Urban Central Heating Systems	Construction of urban centralized heating facilities using low-grade industrial waste heat sources or other clean heat sources; and energy-saving and environmentally friendly technological renovation activities of urban centralized heating boilers, heating pipe networks and other centralized heating facilities.
		5.1.1.2 Operation and Upgrade of Urban Power Facility into Smart Power Facilities	The development and construction of urban electricity demand-side management platform, urban electricity distribution network technology renovation, intelligent renovation of electricity-using equipment, and electricity replacement renovation of highly polluting and inefficient energy equipment, etc.
		5.1.1.3 The Construction and Operation of Integrated Power System in Both Urban and Rural Areas	Construction and operation of integrated urban energy supply facilities, such as multiple energy complementary utilization facilities, distributed energy supply facilities or systems, and intelligent microgrids.

Sector		Program	Description/Condition
5.2 Sustainable Buildings	5.2.1 Energy Saving Buildings and Green Buildings	5.2.1.1 The Construction of Ultra-Low Energy Consumption Buildings	Construction of public and residential buildings adapted to climate characteristics and site conditions, the reduction of building heating, air conditioning and lighting requirements through passive building design, and the improvement of the efficiency of building energy equipment and systems through active technological measures, as well as the acquisition of consumption. The technical indicators of the building shall comply with the <i>Technical Standard for Near-Zero Energy Building</i> (GB/T 51350-2019).
		5.2.1.2 Green Buildings	All kinds of civil and industrial buildings designed and constructed in accordance with national green building codes and standards and having obtained national green building evaluation labels. For example, buildings with building-related technical indicators that comply with the “ <i>Green Building Evaluation Standard</i> ” (GB/T 50378-2019), “ <i>Green Industrial Building Evaluation Standard</i> ” (GB/T 50878-2013), “ <i>Green Ecological Area Evaluation Standard</i> ” (GB/T 51255-2017), “ <i>Green Office Building Evaluation Standard</i> ” (GB/T 50903-2013), “ <i>Green Store Building Evaluation Standard</i> ” (GB/T 51100-2015), “ <i>Green Hospital Building Evaluation Standard</i> ” (GB/T 51153-2015), and buildings that have obtained the green building evaluation mark.
		5.2.1.3 The Application of Renewable Energy in Buildings	Design and construction of renewable energy application systems for buildings using solar photovoltaic power generation devices installed on the roofs and walls of buildings to provide electricity to buildings, and the use of heat pumps and other facilities to provide cooling and heating to buildings, as well as renewable energy building application renovation activities.

Sector		Program	Description/Condition
		5.2.1.4 Prefabricated Buildings	Construction of buildings using prefabricated components at the construction site through the method of assembly construction. The building-related technical indicators meet the requirements of Grade A and above of the “ <i>Evaluation Standard for Assembled Buildings</i> ” (GB/T 51129-2017) within the validity period.
		5.2.1.5 Energy Saving and Environmental-Friendly Renovation for Existing Buildings	Energy-saving renovation of existing buildings and energy-use systems of buildings, which comply with national or local energy-saving standards and relevant requirements of the system energy-saving renovation activities; and renovation and operation of existing buildings, which have obtained national green building labels, and purchase and consumption. For example, the building technology complies with technical standards such as the “ <i>Statistical Standard for Civil Buildings</i> ” (GB 50352-2019), the “ <i>Standard for Energy-Saving in Public Buildings</i> ” (GB 50189-2015) and the “ <i>Standard for the Evaluation of Green Retrofit of Existing Buildings</i> ” (GBT 51141-2015), as well as buildings that have obtained the green building label after greening.
		5.2.1.6 Green Warehousing Logistics	Construction, operation and renovation of logistics warehouses designed and constructed in accordance with national green building codes and standards, and which have obtained national green building evaluation marks. For example, the technical indicators of the building meet the requirements of “ <i>Green Warehouse Requirements and Evaluation</i> ” (SB/T 11164) for green logistics warehouse buildings. For example, a logistics warehouse building with technical building indicators that comply with the “ <i>Green Warehouse Requirements and Evaluation</i> ” (SB/T 11164).

Sector		Program	Description/Condition
5.3 Pollution Prevention	5.3.1 Urban Environmental Infrastructure	5.3.1.1 The Construction and Operation of Facilities for Wastewater Treatment and Recycling As Well As Sludge Treatment and Disposal	Construction, operation and renovation of urban and rural wastewater treatment facilities and recycling facilities, sludge disposal facilities; regional recycled water circulation system constructed in accordance with the concept of pollution control, ecological protection and recycling, including the construction and operation of ecological treatment facilities such as artificial wetlands where urban wastewater treatment plants meet standards for discharging water, and open operation and maintenance of the recycled water dispatch and management system of the regional recycled water recycling system.
		5.3.1.2 The Construction and Operation of Domestic Waste Treatment Facilities	Construction and operation of facilities for domestic waste minimization, sound treatment, disposal and resource utilization, such as domestic waste collection, transfer, incineration, power generation, heating and other facilities
		5.3.1.3 The Systematic Check, Upgrade, Construction and Renovation of Urban Wastewater Collection System	Restoration and renovation of urban sewerage network drainage, dredging, maintenance, repair and renovation; construction and renovation of sewage (rain) water storage facilities; construction and operation of sewerage network GIS, etc.

Sector		Program	Description/Condition
		5.3.1.4 The Construction and Operation of Environment Monitoring System	Construction and operation of environmental monitoring systems such as the Atmospheric Particle Composition Monitoring Network, the Atmospheric Photochemical Monitoring Network, the Large-scale Stereoscopic Integrated Observation Network for the Atmospheric Environment and the Acoustic Environment Monitoring Network, including the purchase, installation and construction of hardware equipment, such as system sampling and analysis equipment, monitoring instruments, computers and monitoring vehicles, and software system development. For example, fixed monitoring and early warning equipment for environmental risks in industrial parks, mobile monitoring and early warning equipment, early warning platforms, servers and long-term operation and maintenance of early warning systems, etc.
		5.3.1.5 The Inspection and Treatment of Sewage Outlets on Rivers and Standardization of Sewage Discharge	The inspection, screening, mapping activities of sewage lines and their river outfalls through various technical means; and construction and operation of sewage lines, river outfalls for cleaning, reconstruction, repairing, maintaining and monitoring systems.
5.4 Water Saving and Non-conventional Water Resources	5.4.1 Water Saving	5.4.1.1 District Metered Area (DMA) Management and Water Leakage Control of Urban Water Distribution System	Construction, operation and renovation of public water supply facilities in cities and towns, as well as construction and renovation of water supply pipeline network leakage monitoring system facilities such as flow measurement, water quality monitoring, pressure control, data collection and remote transmission.

Sector		Program	Description/Condition
	5.4.2 Sponge City	5.4.2.1 The Construction and Operation of Sponge Buildings and Communities	Construction and operation of sponge-type buildings and communities in public buildings and residential areas carried out by engineering and technical means such as roof greening, permeable ground paving, micro-terrain, rain garden construction, rainfall pipe disconnection, rainwater harvesting and collection and utilization facilities construction.
		5.4.2.2 The Construction and Operation of Sponge Roads and Squares	Construction and operation of sponge-type roads and squares by a) applying permeable paving on non-motor vehicle lanes, sidewalks, parking lots, plazas and other places, b) construction of rainwater collection, purification and utilization facilities on roads and squares, c) technical measures such as bioretention belts, environmental protection stormwater outfalls, cyclone sand and other road rainwater runoff pollution prevention and treatment facilities.
		5.4.2.3 The Construction and Operation of Sponge Parks and Greenspace	Construction and operation of sponge parks and green spaces in town parks and public green spaces through technical measures such as construction of rain gardens, recessed green spaces, artificial wetlands, and rainwater reservoir facilities.
		5.4.2.4 The Up-to-Standard Construction, Operation and Renovation of Urban Drainage Facilities	Construction, operation and renovation of urban drainage and flood control facilities to meet standards. Such as flood-prone urban drainage reform, construction and renovation of separate rainwater and sewage system; rainwater shoreline purification facilities; coastal dry pipe; sediment filtration, artificial wetlands and other overflow sewage purification facilities, and rainwater storage facilities, etc.
		5.4.2.5 Restoration of Urban Water Bodies and Natural Ecology	Restoration and protection of natural connectivity of river and lake systems, river system remediation, ecological restoration activities for the protection and restoration of natural ecosystems of urban water bodies. Such as canalization of the river channel renovation, to take advantage of the natural situation to restore the natural curved river bank, natural pool-riffle, and flooded beaches, etc.

Sector		Program	Description/Condition
5.5 Green Transport	5.5.1 Urban and Rural Public Passenger and Freight Transport	5.5.1.1 The Construction and Operation of ETC (Electronic toll Collection) System	Construction and operation of ETC system facilities for such as highways, urban bridges, tunnels, and parkings, etc.
		5.5.1.2 The Construction and Operation of Multimodal Container Transportation System	Construction and operation of multimodal transportation system for general containers, commodities, dangerous goods, vehicles, express packages and other materials.
		5.5.1.3 The Construction and Operation of Smart Transportation	Construction and operation of intelligent information system facilities in the field of transportation, including traffic information collection and distribution system, traffic command center system, road network integrated management system, intelligent bus system, integrated passenger transportation hub information system, etc.
		5.5.1.4 The Construction and Operation of Slow Mode Transportation System	Urban walking and bicycle transportation system construction, including public bicycle rental points, non-motorized vehicle parking facilities, road crossing facilities and other urban slow-moving system construction, as well as bicycle, electric bicycle rental system, automobile time-sharing rental system construction and three-dimensional parking facilities construction.
		5.5.1.5 The Construction and Operation of Public Transportation System In Urban and Rural Areas	Construction and operation of subways, light railways, tram and other urban rail transportation facilities; construction and operation of high-capacity public transportation facilities, such as BRT bus stations, lines and other facilities construction and operation; purchase of public transportation vehicles, etc.

Sector		Program	Description/Condition
		5.5.1.6 The Construction and Operation of Facilities for Shared Transport	Construction and operation of shared transportation facilities such as public rental bicycles, Internet rental bicycles, Internet rental electric bicycles, Internet rental cars, time-sharing rental systems for cars, three-dimensional parking facilities equipment, and bicycle parking facilities.
		5.5.1.7 The Construction and Operation of Drop and Pull Transport System	Reconstruction, construction and operation of road ditching stations and ditching management information systems.
	5.5.2 Railway Transport	5.5.2.1 The Construction and Management of Rail Freight Transport and The Upgrade of Existing Railways to More Energy-Saving and Environmental Friendly Ones	Construction and operation of freight railway facilities such as freight railway lines, yards and stations, and special power substations; construction and operation of existing railway electrification, yards and stations and energy-saving and environmental protection reform projects of railway-related equipment. Among them, railway yards and stations must meet the relevant provisions of the “ <i>Green Railway Passenger Station Evaluation Standard</i> ” (TB/T 10429-2014).
	5.5.3 Waterway and Air Transport	5.5.3.1 The Construction of Shore Power Supply Facility at Port and Docks	Construction and operation of facilities for the supply of electricity to port and shore-based ships; construction of power supply facilities for airport bridges.
	5.5.4 Clean Energy Vehicle Facilities	5.5.4.1 The Construction and Operation of Power Charging, Battery Replacement, Hydrogen Refueling and LNG Refueling Facilities	Construction and operation of electric vehicle battery charging and charging service facilities, new energy vehicle hydrogenation and gasification facilities and other clean energy vehicle-related infrastructure.

Sector		Program	Description/Condition
5.6 Ecological Protection and Construction	5.6.1 Urban Ecological Protection and Construction	5.6.1.1 Construction, Maintenance and Operation of Park Greenspace	Construction, maintenance and operation of parks, green spaces and other public facilities such as urban comprehensive parks, specialized parks, community parks and amusement parks.
		5.6.1.2 Construction, Maintenance and Operation of Greenway System	Construction, maintenance, management and operation of urban greenways and their supporting stations, signage systems and other ancillary facilities.
		5.6.1.3 Construction, Maintenance and Operation of Green Land Attached to the Unit	Construction, maintenance and operation of green spaces attached to urban residential land, land for public management and public service facilities, land for commercial service facilities, industrial land, land for logistics and warehousing, land for squares, land for public facilities, etc.
		5.6.1.4 Construction and Maintenance of Road Planting	Construction, maintenance and management of separated green belts, roadside green belts, green roundabouts and other green spaces on various urban roads at all levels.
		5.6.1.5 Construction, Maintenance and Operation of Regional Green Space	Construction, maintenance, management and operation of regional green spaces such as urban country parks, wetland parks, and green spaces for the protection of regional facilities.
		5.6.1.6 Construction and Maintenance of Three-dimensional Greening	Greening and maintenance of roofs, walls, bridges and tunnels of urban buildings and other greening projects in three-dimensional space.
		6. Green Services	

Sector		Program	Description/Condition
6.1 Consultancy	6.1.1 Green Consulting Technical Services	6.1.1.1 Green Industry Project Investigation Service	Technical consulting services related to the exploration and surveying of renewable energy resources such as wind, solar, biomass, geothermal and other green energy resources; technical consulting services related to the assessment of the economic utilization potential of green resources (such as renewable energy), and the assessment of the potential scale of construction for green industry projects.
		6.1.1.2 Green Industry Project Plan Design Service	Technical consulting services related to project design, construction, operation management, maintenance plan design, technical reformation plan design and other technical services for renewable energy, energy efficiency, pollution prevention, comprehensive utilization of resources and other green industry projects
		6.1.1.3 Technological Consultancy for Green Industry Projects	Technical consulting services related to due diligence, planning research and preparation, feasibility study and feasibility study report preparation, risk assessment, post-evaluation, green project financing and talent training for renewable energy, energy efficiency, pollution prevention, comprehensive utilization of resources and other green industry projects.
		6.1.1.4 Clean Production Review Service	Technical consulting services related to comprehensive and systematic investigation and diagnosis of the production process and production management of enterprises, including identification of the weak links in the input of raw materials, technological processes, product production, pollutant emissions and other aspects, and development of tailored clean production reform programmes.

Sector		Program	Description/Condition
6.2 Operation Management Service	6.2.1 Green Operation Management Service	6.2.1.1 Construction of Power Management System	Management consulting services related to energy management system development, software development, information platform construction, energy management system certification services and other management consulting service. The construction of power management system shall meet the requirements of national standards such as “Energy Management System Requirements” (GB/T 23331) and “Energy Management System Implementation Guide” (GB/T 29456).
		6.2.1.2 Service of Energy Management Contract	Technical consulting services related to energy-saving benefit sharing, energy cost custody, energy-saving quantity guarantee, and financial leasing; other consulting services related to contract-based energy management business model consulting, financing consulting, etc. Meet the requirements of national standards such as “General Rules of Energy Management Contract Technology” (GB/T 24915).
		6.2.1.3 Power Demand-Side Management	Providing electricity saving technology transformation services, peak reclamation, demand-side response and other orderly power consumption management consulting services, power substitution technology reformation, and power demand-side management services to electricity users and grid enterprises, to prevent power wastage, reduce power consumption, improve the level of synergy between green power production and consumption, promote the grid's capacity for renewable energy power consumption and the level of renewable energy power consumption by power users, as well as implementing atmospheric environmental governance and protection through power substitution.
	6.2.2 Environmental Rights Transaction Service	6.2.2.1 Transaction of Power Use Rights	Providing power-use right transaction related services including power-use rights trading-related calculation and accounting, third-party audits, legal consultation, platform construction, assets management and operation, financial pledge, power-saving scheme consultation.

Sector		Program	Description/Condition
		6.2.2.2 Transaction of Water Right	Providing water-use right transaction related services including water rights trading-related feasibility analysis, reference price verification, trading scheme design, legal and technical consulting, platform construction and other related services .
		6.2.2.3 Pollutant Discharge Permit and Transaction	Providing emission permit transaction related services including pollution permit application and review, pollutant discharge accounting records and execution reports, pollutant discharge compliance audit or consultation, legal consultation on pollutant discharge, financial pledge on pollutant discharge rights, and information on pollutant discharge platform construction and other services related to permits and trading of emission rights.

Sector		Program	Description/Condition
		6.2.2.4 Trade of Carbon Emission Permits	Providing carbon credits related services including carbon emissions and voluntary national greenhouse gas emission reduction trading-related services, including statistical accounting, registration and change of carbon allowances, legal services for carbon trading, consultation on carbon reduction programs, carbon finance, carbon information management services and other carbon credit related services. Carbon emission accounting should comply with national standards such as “Greenhouse Gas Emission Accounting and Reporting Requirements” (GB/T 32151) when carrying out accounting and reporting activities of greenhouse gas emissions at enterprise boundaries. Greenhouse gas emission reduction assessment based on project emission reduction should refer to “Technical Specification for Project-based Estimation of Greenhouse Gas Emission Reduction-Steel Industry Residue Energy Utilization”(GB/T 33755), “Technical Specification for Project-based Estimation of Greenhouse Gas Emission Reduction-the Cement Clinker Production Project for Raw Material Substitution”(GB/T 33756), “Technical Specification for Project-based Estimation of Greenhouse Gas Emission Reduction-General Requirements ”(GB/T 33760) and other national standards.
		6.2.2.5 Renewable Energy Certificate (Green Tags) Trade Services	Providing related services on renewable energy transaction green pass including green power certificate subscription and transaction, transaction-related legal consulting service, and transaction-related information platform construction.

Sector		Program	Description/Condition
6.3 Audit, Inspection and Evaluation of Projects	6.3.1 Audit, Inspection and Evaluation of Projects	6.3.1.1 Energy-Saving Assessment and Energy Audit	Providing related services to energy efficiency assessment of energy-using units, energy-saving retrofit plan design technical consulting services and third-party energy audit, energy saving assessment, energy audit training energy-saving assessment and energy audit-related services such as energy-saving report preparation services for fixed asset investment projects. All should meet the requirements of “Energy Saving Calculation Methods for Energy Consumption Unit” (GB/T 13234), “ General Rules for Energy Saving Measurement and Verification” (GB/T 28750), “General Rules for Energy Audit” (GB/T 17166) and other national standards.
		6.3.1.2 Evaluation of Environment Impact	Providing related technical services including comprehensive evaluation of environmental impacts, design of environmental impact solutions, legal consultancy on environmental impacts, building database on environmental impacts; Preparation of exclusion lists/negative lists based on ecological protection “red line”, environmental quality “bottom line”, resource utilization limits and environmental admittance; Providing related information technology services such as environmental risk assessment of construction projects, administrative regions, industrial parks, preparation of environmental emergency control plans, and formulation of environmental emergency plans.
		6.3.1.3 Examination of Carbon Emission	Providing related technical services on carbon emission verification, such as third-party verification of carbon emissions, training of carbon emission verifiers, construction of carbon emission verification database, carbon emission verification results sampling and verification services.

Sector		Program	Description/Condition
		6.3.1.4 Evaluation of Geological Disaster Hazard	Providing related technical consultancy services including on geohazard risk assessment such as landslides, collapse, mudslides, debris flows, ground subsidence sinking, ground fissures, ground subsidence and other geological hazards risk assessment, vulnerability assessment of disaster areas, damage assessment of geological hazards, etc.
		6.3.1.5 Evaluation of Soil and Water Conservation	Providing related technical services including soil and water conservation plan preparation, monitoring and evaluation of construction projects, soil and water conservation facility acceptance, third-party assessment, soil and water conservation information supervision, soil and water conservation legal consultation and other technical services related to soil and water conservation evaluation.
6.4 Monitoring and Detection	6.4.1 Monitoring and Detection	6.4.1.1 Building of Online Energy Monitoring System	Providing related technical services on online energy monitoring and management system design, hardware equipment procurement, measurement and online monitoring equipment calibration and others, as well as system software development and information platform construction. Meeting the requirements of national standards such as “Technical Requirements for Online Monitoring of Energy Consumption” (GB/T 38692).
		6.4.1.2 Polluting Source Monitor	Providing pollution source monitoring related services including pollution source monitoring system development, pollution source monitoring equipment procurement, pollution source monitoring application software development, database construction, pollutant emission measurement and monitoring equipment calibration.

Sector		Program	Description/Condition
		6.4.1.3 Monitoring and Evaluation of Environmental Impacts	Providing related technical and legal consultancy services including environmental damage assessment monitoring program design, environmental damage identification and assessment, environmental damage-related emergency disposal plan design, legal consulting services, insurance services.
		6.4.1.4 Monitoring and Assessment of Environmental Impacts	Providing related technical consultancy services including environmental impact assessment monitoring of water, atmosphere, soil, noise and vibration, and environmental damage; emergency disposal programme design; environmental impact-related legal advice.
		6.4.1.5 Environmental Monitoring for Enterprises	Providing related technical consultancy services including enterprise environmental monitoring equipment procurement, environmental monitoring services, pollutant monitoring personnel training and other technical consulting services, as well as construction of informative platforms including environmental monitoring software, hardware development, database building, etc. Meeting the requirements of national standards such as “Data Interface Specification for Public Platform of Circular Economy Informatization in Industrial Park”(GB/T 36578).
		6.4.1.6 Monitoring of Ecological Environment	Providing related technical consultancy services including ecological and environmental monitoring of water, air, soil, solid waste, groundwater, ocean, agricultural non-point source pollution, radiation and other; monitoring and technical services related to emergency ecological environmental events; monitoring of agricultural waste resources, land resources, water resources, monitoring of forestry and grassland carbon sink, ecological remote sensing, ecological community, soil and water conservation and other monitoring services; toxicity testing and other ecological/environment monitoring related technical services.

Sector		Program	Description/Condition
6.5 Promotion and Certification of Technical Products	6.5.1 Promotion and Certification of Technical Products	6.5.1.1 Promotion and Certification of Energy Saving Products	Energy-saving certification and promotion services for office and commercial electrical products such as computers, photocopiers, monitors, shredders and servers, and electromechanical products such as small and medium-sized three-phase asynchronous motors (including green label products).
		6.5.1.2 Promotion and Certification of Low-Carbon Products	Low-carbon product certification and promotion services (including green-labeled products) for industrial, commercial, and civil products with significant carbon emission reduction benefits from product carbon footprint evaluation and full life-cycle product production and consumption, such as cement, glass and other building materials products, motors, transformers, tires and other mechanical and electrical products.
		6.5.1.3 Promotion and Certification of Water Saving Products	Certification and promotion of water-saving products (including green-labeled products) including industrial and residential reverse osmosis water purifiers, faucets, showers, water tank accessories, washing machines and other water-saving products with significant water-saving benefits.
		6.5.1.4 Promotion and Certification of Environmental Labeling Products	Environmental label product certification and promotion services (including green label products) that meet the specific environmental protection requirements, such as environmental labeling of electronic appliances, building materials, mechanical equipment, and other products Product certification and promotion services.

Sector		Program	Description/Condition
		6.5.1.5 Promotion and Certification of Organic Food	Certification and promotion (including green label products) services of agricultural product and food product and its production environment which meet the national standard of <i>Organic Products</i> (GB / T 19630.1-GB / T 19630.4) and other national standards within the validity period, including vegetable and fruit planting industry products, edible fungi, wild plant products, aquatic products, livestock and poultry farming products, etc., as well as certification and promotion of organic product including animal feed.
		6.5.1.6 Promotion and Certification of Green Food	Certification and promotion services of green food including food products or the origin of the raw materials conforms to the green food related eco-environmental standards within the validity period, the processing production process conforms to the green food related production operation regulations, and the products comply with the green food certification and promotion services such as green food related quality and hygiene standards. For example the certification and promotion services of green food of vegetables, fruits, meat and meat products.
		6.5.1.7 Confirmation and Promotion of Products with Comprehensive Utilization of Resources	Identification and promotion services for products included in the <i>National Catalogue of Integrated Resource Utilization of Industrial Solid Waste (2018 Edition)</i> within the validity period, and identification and promotion services for remanufactured products included in the <i>Catalogue of Remanufactured Products</i> .
		6.5.1.8 Certification of Green Building Materials	Certification and promotion services for green building materials such as energy-saving glass, thin ceramic tiles, masonry materials and other green building materials that meet the requirements of policies and specifications.

Note:

1. The projects to be included in this catalogue shall meet the requirements listed in the explanatory notes of Green Industry Guidance Catalogue (2019 Edition) and the corresponding projects in the "Instructions/Conditions" of this catalogue;

2. All items included in this catalog shall comply with relevant safety, environmental protection and quality regulations and policies;
3. Policy documents and standard specifications cited in this Catalogue refer to the latest version within the validity period.