

China's 14th Five-Year Plan

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Selections by JKempEnergy

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The Fourteenth Five-Year Plan for National Economic and Social Development of the People's Republic of China and the Outline of Long-Term Goals for 2035

Chapter 1: Development Environment

“Pollution prevention and control efforts have been increased, the total emission reduction target of major pollutants has been exceeded, resource utilization efficiency has been significantly improved, and the ecological environment has been significantly improved.”

Chapter 3: Main Objectives

“Looking forward to 2035 ... Green production and lifestyles have been extensively formed, carbon emissions have reached a peak and have been steadily reduced, the ecological environment has improved fundamentally, and the goal of building a beautiful China has basically been achieved”

“New progress has been achieved in the construction of ecological civilization. The development and protection pattern of land and space has been optimized, the green transformation of production and lifestyle has achieved remarkable results, the allocation of energy resources has been more reasonable, the utilization efficiency has been greatly improved, the energy consumption and carbon dioxide emissions per unit of GDP have been reduced by 13.5% and 18% respectively, and the total emissions of major pollutants have been reduced”

Chapter 7: In-depth Implementation of Manufacturing Power Strategy

“Promote the optimization and upgrading of the manufacturing industry. Deepen the implementation of intelligent manufacturing and green manufacturing projects, develop new service-oriented manufacturing models, and promote high-end, intelligent, and green manufacturing ... Transform and upgrade traditional industries, promote the optimization and structural adjustment of the raw material industries such as petrochemicals, steel, nonferrous metals, and building materials, expand the supply of high-quality products such as light industry and textiles, accelerate the transformation and upgrading of enterprises in key industries such as chemicals and paper, and improve the green manufacturing system”

Chapter 9: Development and Growth of Strategic Emerging Industries

“Building a new pillar of the industrial system. Focus on the new generation of information technology, biotechnology, new energy, new materials, high-end equipment, new energy vehicles, green environmental protection, aerospace, marine equipment and other strategic emerging industries, accelerate the innovation and application of key core technologies, enhance the ability to guarantee elements, and cultivate New momentum for industrial development. Promote the integration and innovation of biotechnology and information technology, accelerate the

development of biomedicine, biobreeding, biomaterials, bioenergy and other industries, and expand and strengthen the bioeconomy”

“Organize and implement future industry incubation and acceleration plans in frontier technology and industrial transformation fields such as brain-like intelligence, quantum information, genetic technology, future networks, deep-sea aerospace development, hydrogen energy and energy storage, and plan a number of future industries”

Chapter 11: Building a Modern Infrastructure System

“Building a modern energy system. Promote the energy revolution, build a clean, low-carbon, safe and efficient energy system, and improve energy supply guarantee capabilities. Accelerate the development of non-fossil energy, adhere to both centralized and distributed, vigorously increase the scale of wind power and photovoltaic power generation, accelerate the development of distributed energy in the eastern and central regions, develop offshore wind power in an orderly manner, accelerate the construction of hydropower bases in the southwest, and promote the construction and construction of coastal nuclear power safely and securely For a batch of clean energy bases with complementary versatility, the proportion of non-fossil energy in total energy consumption will increase to about 20%. Promote the concentration of coal production in resource-rich areas, reasonably control the scale and development pace of coal power construction, and promote the replacement of coal with electricity. Orderly liberalize market access for oil and gas exploration and development, accelerate the utilization of deep-sea, deep-seated and unconventional oil and gas resources, and promote increased oil and gas reserves and production. Develop and utilize geothermal energy according to local conditions. Improve the utilization rate of UHV transmission channels. Accelerate the intelligent transformation of power grid infrastructure and the construction of smart microgrids, improve power system complementarity and intelligent regulation capabilities, strengthen source-grid-load-storage connection, improve clean energy consumption and storage capabilities, and enhance transmission and distribution capabilities to remote areas. Flexible transformation of coal power, speeding up the construction of pumped-storage power stations and the large-scale application of new energy storage technologies. Improve coal cross-regional transportation channels and collection and distribution systems, accelerate the construction of natural gas trunk pipelines, and improve the oil and gas interconnection network.”

Chapter 38: Continuous Improvement of Environmental Quality

“Continuous Improvement of Environmental Quality. Intensify the fight against pollution, establish a sound environmental governance system, promote accurate, scientific, legal, and systematic pollution control, coordinate pollution and carbon reduction, continuously improve the air and water environment quality, and effectively control soil pollution risks. In-depth implementation of pollution prevention and control actions. Adhere to source prevention and comprehensive measures, and strengthen coordinated control of multiple pollutants and coordinated regional governance. Strengthen the management of urban air quality compliance, promote the coordinated control of fine particulate matter (PM_{2.5}) and ozone (O₃), reduce the PM_{2.5} concentration of cities at prefecture-level and above by 10%, effectively curb the increasing trend of O₃ concentration, and basically eliminate heavily polluted weather. Continue to improve the air quality in the Beijing-Tianjin-Hebei region and surrounding areas, the Fenwei Plain, and the Yangtze River Delta, promote clean heating, industrial kiln treatment, and ultra-low emission transformation of non-electric industries in the north according to local conditions, and accelerate the comprehensive regulation of

volatile organic emissions, and nitrogen oxides. And the total emissions of volatile organic compounds were reduced by more than 10%. Improve the water pollution prevention and control basin coordination mechanism, strengthen the comprehensive management of key river basins, key lakes, urban water bodies and coastal waters, promote the protection and construction of beautiful rivers and lakes, reduce chemical oxygen demand and total ammonia nitrogen emissions by 8% respectively, and basically eliminate inferiority V. Such state-controlled sections and urban black and smelly water bodies. Carry out standardized construction of urban drinking water sources, and promote the relocation of heavily polluted enterprises in key river basins. Promote the management, control and restoration of contaminated farmland and construction land, and implement coordinated prevention and control of water and soil environmental risks. Strengthen the prevention and control of plastic pollution throughout the chain. Strengthen environmental noise pollution control. Pay attention to the treatment of new pollutants.”

“Actively respond to climate change. Implement the nationally determined contribution target for climate change in 2030, and formulate an action plan for peaking carbon emissions before 2030. Improve the dual control system of total energy consumption and intensity, and focus on controlling fossil energy consumption. Implement a system with carbon intensity control as the mainstay and total carbon emission control as a supplement to support qualified localities, key industries, and key enterprises to take the lead in reaching the peak of carbon emissions. Promote clean, low-carbon, safe and efficient use of energy, and deepen the low-carbon transformation of industries, construction, and transportation. Increase the control of other greenhouse gases such as methane, hydrofluorocarbons, and perfluorocarbons. Improve the carbon sink capacity of the ecosystem. Anchor efforts to achieve carbon neutrality by 2060 and adopt more powerful policies and measures. Strengthen the observation and assessment of the impact of global warming on my country’s vulnerable regions, and improve the ability of urban and rural construction, agricultural production, and infrastructure to adapt to climate change. Strengthen the comprehensive scientific investigation and research of the Qinghai-Tibet Plateau. Adhere to the principles of fairness, common but differentiated responsibilities and respective capabilities, constructively participate in and lead international cooperation on climate change, promote the implementation of the United Nations Framework Convention on Climate Change and its Paris Agreement, and actively carry out South-South cooperation on climate change.”

Chapter 39: Accelerating the Green Transformation of Development Mode

“Improve the efficiency of resource utilization in an all-round way. Adhere to the priority policy of energy conservation, deepen energy conservation in industries, buildings, transportation and other fields and public institutions, promote the improvement of energy efficiency in emerging fields such as 5G and big data centers, strengthen energy conservation management of key energy-consuming units, and implement energy system optimization, energy-saving technological transformation and other key projects, Speed up the formulation and revision of mandatory national standards for energy consumption quotas and product and equipment energy efficiency.”

“Vigorously develop green economy. Resolutely curb the blind development of high-energy-consuming and high-emission projects, and promote green transformation to achieve positive development. Strengthen energy conservation and environmental protection, clean production, clean energy, ecological environment, green infrastructure upgrades, green services and other industries, and promote contract energy management, contract water-saving management, and third-party environmental pollution management service models. Promote the clean and efficient use of fossil

energy such as coal, promote the green transformation of industries such as steel, petrochemical, and building materials, and speed up the transportation of bulk cargo and medium- and long-distance cargo to "return to iron" and "return to water". Promote the electrification of urban public transport and logistics distribution vehicles. Build a market-oriented green technology innovation system, implement green technology innovation research actions, and launch key industries and key product resource efficiency benchmarking actions. Establish a unified green product standard, certification, and identification system, and improve the promotion mechanism of energy-saving home appliances, high-efficiency lighting products, and water-saving appliances. Carry out in-depth actions to create a green life.”

“Building a Green Development Policy System. Strengthen legal and policy guarantees for green development. Implement tax policies that are conducive to energy conservation, environmental protection, and comprehensive utilization of resources. Vigorously develop green finance. Improve the system of paid use of natural resources, and innovate and improve the price formation mechanism for natural resources, sewage and garbage treatment, and water and energy use. Promote the reform of the energy-saving review, energy-saving supervision, and management system reforms of key energy-consuming units for fixed-asset investment projects. Improve the energy and water efficiency "leader" system. Strengthen water quota management for high water consumption industries. Deepen the construction of ecological civilization experimental areas. Deeply promote the construction of a comprehensive reform pilot zone for the transformation of the national resource-based economy in Shanxi and a comprehensive reform pilot for the energy revolution.”

Chapter 53: Strengthening National Economic Security Guarantee

“Implementation of Energy Resource Security Strategy. Adhere to the domestic base, make up for shortcomings, diversify guarantees, strengthen reserves, improve production, supply, storage and marketing systems, strengthen the ability to sustain stable supply of energy and risk management and control, achieve safe coal supply, self-insurance for core oil and gas demand, and stable and reliable power supply. Consolidate the domestic production base, maintain stable and increased production of crude oil and natural gas, and do a good job in the planning, layout, and management of coal-based oil and gas strategic bases. Expand the scale of oil and gas reserves, and improve the oil and gas reserve system that organically combines government reserves and corporate social responsibility reserves and complements each other. Strengthen the construction of coal reserve capacity. Improve the energy risk emergency management and control system, strengthen the power supply guarantee for key cities and users, and strengthen the safety protection of important energy facilities and energy networks. Diversified expansion of oil and gas import sources, maintaining the safety of strategic channels and key nodes. Cultivate a trading center and pricing mechanism dominated by me, and actively promote settlement in local currency. Strengthen the management and control of strategic mineral resources planning, improve the reserve security capability, and implement a new round of breakthrough strategic actions for prospecting.”