



Interpretation of the "Guiding Opinions on Promoting the High-quality Development of the Petrochemical Industry in the 14th Five-Year Plan"

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Recently, the Ministry of Industry and Information Technology, the Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Ecology and Environment, the Ministry of Emergency Response and the Energy Administration jointly issued the Guiding Opinions on Promoting the High-quality Development of the Petrochemical Industry in the 14th Five-Year Plan (hereinafter referred to as the Opinions). In order to facilitate the understanding of the Opinions and do a good job in implementing them, the relevant contents are interpreted as follows.

I. Background to the preparation of the Opinions

The petrochemical industry is a pillar industry of the national economy, with a large economic aggregate, a long industrial chain, a wide range of products, and wide correlation coverage, which is related to the safety and stability of the industrial chain and supply chain, green and low-carbon development, and the improvement of people's livelihood. Since the "Thirteenth Five-Year Plan", the transformation and upgrading of China's petrochemical industry has achieved remarkable results, the quality and efficiency of economic operation have been steadily improved, and the status of petrochemical chemical industry has been further consolidated. However, problems such as insufficient innovation ability of the industry, prominent structural contradictions, unreasonable industrial layout, and low level of green and safe development still exist.

The "14th Five-Year Plan" is a key period to promote the high-quality development of the industry, and the restructuring, transformation and upgrading of the industry will be further accelerated. First, the service construction of a new development pattern, the petrochemical industry product supply is increasingly abundant, the output growth rate is gradually differentiated; Second, the industrial development model is shifting from capacity construction based on scale expansion to refined, specialized and serialized market segment expansion and penetration based on "intensive farming", and service-oriented manufacturing is increasingly accepted by market players; Third, the awareness of responsibility and care is increasing, the green background of industrial development is becoming increasingly rich, and safety and environmental protection have become the bottom line and basic requirements for the survival and development of the industry; Fourth, the constraints on resources, energy environment and carbon emissions are becoming increasingly tight, the development of carbon-containing chemicals based on carbon dioxide has attracted much attention, and chemical parks with green cycle and low carbon as the basic characteristics are gradually becoming the main carrier of industry restructuring, transformation and upgrading, and development.

In the face of the new situation and new mission, in order to implement the Outline of the 2035th Five-Year Plan for National Economic and Social Development of the People's Republic of China and the Long-Range Goals for <> (hereinafter referred to as the Outline) and promote the high-quality development of the petrochemical industry, the Ministry of Industry and Information Technology, the Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Ecology and Environment, the Ministry of Emergency Response and the Energy Administration jointly compiled the Opinions.

II. Functional positioning of the Opinions

The "Opinions" resolutely implement the major decisions and deployments of the Party Central Committee and the State Council, and fully connect with the "Outline", the national strategy of manufacturing power, the high-quality development plan of manufacturing and other higher-level plans and relevant special plans, aiming to guide the petrochemical industry to adhere to stability and progress, properly handle the relationship between development and emission reduction, overall and partial, incremental and stock, short-term and medium-term and long-term, and coordinate to promote the transformation and upgrading of traditional industries, the cultivation and growth of emerging industries, and the development of productive service industries, and adhere to quality first and efficiency first. Focus on improving total factor productivity and moving towards high-quality development; At the same time, it also adheres to problem-oriented and goal-oriented, focusing on enriching the supply of fine chemicals and new chemical materials, strengthening the intrinsic safety and clean production of the industry, promoting the coordinated development of coal chemical, petrochemical, natural gas chemical, salt (mine) chemical and biochemical industry, giving full play to the advantages of the chemical industry to help implement the "dual carbon" strategy, using information technology to accelerate the digital transformation of the industry, standardizing the construction of chemical parks and industrial layout and other difficult key issues.

III. The overall idea of the Opinions

The Opinions are guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implement the spirit of the 19th National Congress of the Communist Party of China and the 19th Plenary Session, base on the new development stage, complete, accurate and comprehensive implementation of the new development concept, build a new development pattern, take promoting high-quality development as the theme, deepen supply-side structural reform as the main line, meet the needs of the people for a better life as the fundamental purpose, take reform and innovation as the fundamental driving force, coordinate development and security, and accelerate the transformation and upgrading of traditional industries. Vigorously develop new chemical materials and fine chemicals, accelerate the digital transformation of the industry, improve the level of intrinsic safety and clean production, accelerate the quality, efficiency and power changes of the petrochemical industry, and promote China's progress from a petrochemical country to a strong country.

4. The main objectives of the Opinions

The "Opinions" put forward the main goals of high-quality development during the "2025th Five-Year Plan" period: by 5, the petrochemical industry will basically form a high-quality development pattern with strong independent innovation ability, reasonable structural layout, green, safe and low-carbon, the ability to guarantee high-end products will be greatly improved, the core competitiveness will be significantly enhanced, and the high-level self-reliance and self-improvement will take solid steps. It is concentrated in five aspects: First, accelerate innovation and development, and by 2025, the R&D investment of enterprises on the scale will account for more than 1.5% of the main business income. Break through more than 20 key common technologies and more than 40 key new products. The second is to adjust the industrial structure, the concentration of bulk chemical products production has been further improved, and the capacity utilization rate has reached more than 80%; The guarantee level of ethylene equivalent has been greatly improved, and the guarantee level of new chemical materials has reached more than 75%. The third is to optimize the industrial layout, and the task of relocation and transformation of hazardous chemical production enterprises in densely populated urban areas has been fully completed, forming about 70 chemical parks with competitive advantages. By 2025, the output value of chemical parks will account for more than 70% of the total output value of the industry. The fourth is to promote digital transformation, with the self-control rate of major production devices of enterprises in key fields such as petrochemical and coal chemical industry exceeding 95%, and about 30 intelligent manufacturing demonstration factories and 50 intelligent chemical demonstration parks have been built. Fifth, adhere to green safety, the energy consumption and carbon emissions per unit of bulk products have decreased significantly, the total volatile organic compound emissions have been reduced by more than 10% compared with the "13th Five-Year Plan", the intrinsic safety level has been significantly improved, and the safety accidents of heavy and extraordinarily large production have been effectively curbed.

V. Key tasks of the Opinions

Focusing on the main goals, the Opinions focus on six key and difficult points, including innovation and development, industrial structure, industrial layout, digital transformation, green and low-carbon, and safe development, and condense six key tasks.

(1) Enhance the level of innovation and development. The first is to improve the innovation mechanism, strengthen the main position of enterprise innovation, and build a "trinity" innovation system of key laboratories, innovation centers in key fields, and common technology research and development institutions. The second is to overcome core technologies, accelerate the research of important equipment and parts manufacturing technology, develop and promote advanced perception technology and control technologies such as process control software, full-process intelligent control system, fault diagnosis and predictive maintenance, and enhance the momentum of innovation and development. The third is to implement the "three products" action, increase the variety and specification of materials, accelerate the development of high-end chemical new material products, actively layout cutting-edge chemical new materials, increase the proportion of green chemical products, and encourage enterprises to cultivate and create brands.

(2) Promote industrial restructuring. The first is to strengthen categorical policies, scientifically regulate the industrial scale of traditional chemical industries such as petrochemical and coal chemical industry, orderly promote the "oil reduction and increase" of refining and chemical projects, and promote the high-end, diversified and low-carbon development of the coal chemical industry. The second is to dynamically update the catalogue of technologies and products encouraged by the petrochemical industry to promote and apply, accelerate the transformation and upgrading of advanced applicable technologies, optimize the structure of olefins and aromatic fuel raw materials, accelerate the extension of coal-to-chemicals and coal-to-oil and gas to high value-added products, and improve the technical level and competitiveness.

(3) Optimize and adjust the industrial layout. The first is to coordinate the layout of projects, promote the concentration of new petrochemical projects into resource and environmental advantage bases, and promote the transformation and upgrading of modern coal chemical industry demonstration zones. Continue to promote the relocation and transformation of hazardous chemical production enterprises in densely populated urban areas. The second is to guide chemical projects into the park and promote the standardized development of chemical parks. New hazardous chemical production projects must enter chemical parks with general or low safety risks (except for projects that are built with production units in other industries), and guide the development of other petrochemical projects in chemical parks.

(3) Promote the digital transformation of industries. The first is to accelerate the integration of new technologies and models with the petrochemical industry, continuously enhance the ability to obtain chemical process data, strengthen the integrated management and control of the whole process, promote the innovative application of digital twins, and create 5-4 industry-oriented characteristic professional industrial Internet platforms and industrial Internet-based industrial chain monitoring systems such as fertilizers and tires. The second is to release the guidelines for the construction of intelligent manufacturing standard systems in the petrochemical industry, promote the guidance of demonstration benchmarks such as digital workshops, smart factories, and smart parks, and strengthen the empowerment of the industrial Internet.

(5) Accelerate green and low-carbon development. The first is to give full play to the advantages of carbon sequestration and carbon consumption, orderly promote energy conservation and carbon reduction in key areas of the petrochemical industry, promote the coupling of refining and coal chemical industry with "green electricity" and "green hydrogen" and other industries, as well as large-scale carbon dioxide capture, storage, oil displacement and chemical production. The second is to develop cleaner production and build a green manufacturing system throughout the life cycle. Actively develop biochemicals, manufacture bulk chemicals based on non-grain biomass, strengthen the connection between bio-based bulk chemicals and the existing chemical industry chain, and realize the partial replacement of traditional fossil-based products. The third is to promote the coupling development between industries and improve the efficiency of resource recycling. Orderly development and scientific promotion of biodegradable plastics, and promote the recycling of waste chemical materials such as waste plastics and waste rubber.

(6) Consolidate the foundation for safe development. The first is to improve the level of technology and management, compact the main responsibility of safe production, and promote the implementation of responsible care. Encourage enterprises to adopt advanced and applicable technologies to transform and upgrade, promote the safety

transformation and replacement of high-risk processes, and improve the level of intrinsic safety. The second is to enhance the guarantee of light and low-carbon raw materials in the refining and chemical industry and phosphorus and potassium mineral resources in the fertilizer industry, steadily promote the "slag to determine production" in the phosphorus chemical industry, ensure the stable supply of chemical fertilizers, protect the exploitation of fluorite resources, encourage the development and utilization of associated fluorine resources, and maintain the safety and stability of the industrial chain and supply chain.

6. Safeguard measures in the Opinions

In order to ensure the smooth implementation of the main objectives and key tasks, the Opinions focus on playing a "combined fist" and put forward the following three measures. First, strengthen organizational implementation. Strengthen departmental coordination and linkage, and strengthen supervision during and after the event. Give play to the role of industry organizations as a bridge and strengthen industry self-discipline. Strengthen policy publicity and interpretation, actively respond to public opinion and the reasonable concerns of the public, and effectively enhance the public's scientific and rational understanding of petrochemical chemicals. The second is to improve supporting policies. Strengthen the coordination of fiscal, financial, regional, investment, import and export, energy, ecological environment, price and other policies with industrial policies, promote bank-enterprise docking and industrial integration, strengthen intellectual property protection, strengthen the training of chemical professionals and employees, and promote the demonstration and application of the first (set) equipment and the first batch of secondary materials. The third is to improve the standard system. Establish and improve the relevant product standard system, evaluation and labeling management system and green energy monitoring and evaluation system; Improve the energy consumption limit, toxic and harmful chemical substance content limit and pollutant emission limit of key products; Formulate and revise standards for carbon emission accounting of carbon-containing chemical products and evaluation of low-carbon products.

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