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> Six departments including the Ministry of Industry and Information Technology issued the "Guiding Opinions on Promoting the High-Quality Development of the Petrochemical and Chemical Industry during the 14th Five-Year Plan" Details (<http://www.china-cer.com.cn/zhengcefagui/2022040717672.html>)

# Six departments including the Ministry of Industry and Information Technology issued the "Guiding Opinions on Promoting the High-quality Development of the Petrochemical and Chemical Industry during the 14th Five-Year Plan"

Ministry of Industry and Information Technology / 2022-04-07 15:53:01

On April 7, six departments including the Ministry of Industry and Information Technology jointly issued the "Guiding Opinions on Promoting the High-quality Development of the Petrochemical and Chemical Industry during the 14th Five-Year Plan" (Ministry of Industry and Information Technology Lianyuan [2022] No. It provides more macroscopic and comprehensive guidance to better adapt to the new requirements of green, low-carbon and high-quality development, and to continue to deepen the supply-side structural reform. It is required that by 2025, the petrochemical and chemical industry will basically form a high-quality development pattern with strong independent innovation capabilities, a reasonable industrial structure, a high level of digitalization, and green, low-carbon and safe products. Visibly enhanced. In the important window period of industry transformation and development, the release of the document is of great

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- Theoretical logic of transition from high speed economic growth to high-quality development (<http://www.china-cer.com.cn/guwen/2023030723580.html>)
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- Correctly guide the healthy development of the private economy and high-quality development (<http://www.china-cer.com.cn/guwen/2023030723571.html>)

significance to the realization of my country's petrochemical and chemical industry from a big country to a powerful country.

Entrusted by the Department of Raw Materials Industry of the Ministry of Industry and Information Technology, in 2021, the Petroleum and Chemical Industry Planning Institute established a special research group on the guidance of the "14th Five-Year Plan" to promote the high-quality development of the petrochemical and chemical industry, and participated in the "14th Five-Year Plan" to promote the petrochemical and chemical industry. "Guiding Opinions on High-quality Development of the Petrochemical and Chemical Industry", the "Guiding Opinions" was officially released, and the Petroleum and Chemical Industry Planning Institute will continue to carry out relevant analysis and interpretation work, and strive to provide some valuable reference for the high-quality development of the industry and enterprises.

Attach the full text!

Six departments including the Ministry of Industry and Information Technology jointly issued the "14th Five-Year Plan"

Guiding Opinions on Promoting the High-Quality Development of the

Petrochemical and Chemical Industry

Ministry of Industry and Information Technology National Development and Reform Commission Ministry of Science and Technology Ministry of Ecology and Environment Ministry of Emergency Management National Energy Administration

### Guiding Opinions on Promoting the High-Quality Development of the Petrochemical and Chemical Industry During the "14th Five-Year Plan"

The petrochemical and chemical industry is (http://www.china-cer.com.cn/) a pillar industry of the national economy. It has a large economic aggregate, a long industrial chain, a wide variety of products, and a wide range of connections. It is related to the safety and stability of the industrial chain supply chain, green and low-carbon development, and the improvement of people's livelihood and well-being. (http://www.china-cer.com.cn/) In order to implement the "14th Five-Year Plan for the National Economic and Social Development of the People's Republic of China and the 2035 Long-term Goal Outline", implement the "14th Five-Year Plan" for the Development of Raw Materials Industry, and promote the high-quality development of the petrochemical and chemical industry, this opinion is formulated.

#### 1. General requirements

##### (1) Guiding ideology

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

Ning Jizhe: Economic and social development goals and policies have been clarified, and economic recovery can be expected (http://www.china-cer.com.cn/guwen/2023030723570.html)

Analysis of the Real Estate Market—Illustrated Report on Macro Operational Indicators in January 2023 (http://www.china-cer.com.cn/guwen/2023030723569.html)

It is estimated that the CPI in February 2023 will rise by about 1.8% year-on-year (http://www.china-cer.com.cn/guwen/2023030723568.html)

#### hot article

Guiding Opinions of the National Development and Reform Commission and other departments on Coordinating Energy Conservation, Carbon Reduction and Recycling to Accelerate the Renovation and Transformation of Product Equipment in Key Areas (http://www.china-cer.com.cn/zhengcefagui/2023030623554.html)

The People's Bank of China, the China Banking and Insurance Regulatory Commission, the China Securities Regulatory Commission and the State Administration of Foreign Exchange jointly formulated and issued the "Notice on Further Regulating Financial Marketing and Publicity Behaviors" (http://www.china-cer.com.cn/zhengcefagui/202002012008.html)

The China Banking and Insurance Regulatory Commission officially issued the "Guiding Opinions on the Avoidance of Employees of Banking and Insurance Institutions" (http://www.china-cer.com.cn/zhengcefagui/202002012007.html)

The China Banking and Insurance Regulatory Commission formulated the "Measures for the Administration of Net Capital of Wealth Management Subsidiaries of Commercial Banks (Trial)" (http://www.china-cer.com.cn/zhengcefagui/202002012006.html)

The State Council issued the "Guiding Opinions on Promoting the High-quality Development of Trade" (http://www.china-cer.com.cn/zhengcefagui/202002012005.html)

The Ministry of Finance issued the newly revised "Government Procurement Information Release Management Measures" (http://www.china-cer.com.cn/zhengcefagui/202002012004.html)

The Ministry of Finance issued the "Basic Guidelines for Cost Accounting

Communist Party of China and the previous plenary sessions of the 19th National Congress, based on the new development stage, fully, accurately and comprehensively implement the new development concept, build a new development pattern, and promote high-quality Development as the theme, deepening supply-side structural reform as the main line, meeting people's needs for a better life as the fundamental purpose, taking reform and innovation as the fundamental driving force, coordinating development and safety, accelerating the transformation and upgrading of traditional industries, and vigorously developing new chemical materials. Chemicals Chemicals, accelerate the digital transformation of the industry, improve the level of intrinsic safety and clean production, accelerate energy change, efficiency change, and power change of the petrochemical and chemical industry, and promote China's transformation from a petrochemical and chemical power to a powerful one.

(2) Basic principles

Adhere to market leading role. Fully play to the decisive role of the market in resource allocation, better play the role of the government, strengthen the guidance and regulation of planning policy standards, and maintain a fair competition order. (http://www.china-cer.com.cn/zhengcefagui/)

Adhere to innovation drive. Focus on self-reliance and self-improvement in science and technology, promote key core technology research, promote the safety and stability of the industrial chain and supply chain, improve the productivity of all factors, and improve the quality and efficiency of development.

Adhere to green safety. Strengthen bottom-line thinking, strengthen social responsibility care, improve intrinsic safety level, promote green cycle and low-carbon development, and strengthen industry governance system and governance capacity building.

Adhere to open cooperation. Create a market-oriented, rule-of-law, and internationalized business environment, adhere to high-quality imports and high-level going out, promote the efficient global allocation of factor resources, and strengthen the coordination of upstream and downstream industrial chains and the coupling development of related industries.

(3) Main objectives

By 2025, the petrochemical and chemical industry will basically form a high-quality development pattern with strong independent innovation capabilities, reasonable structural layout, green, safe and low-carbon, greatly improve high-end product support capabilities, significantly enhance core competitiveness, and take solid steps towards high-level self-reliance and self-improvement.

of Public Institutions" (http://www.china-cer.com.cn/zhengcefagui/202002012003.f

The Ministry of Finance issued the "Notice on Simplifying the Bank Account Management Procedures of Central Enterprises" (http://www.china-cer.com.cn/zhengcefagui/202002012002.f

The Ministry of Finance issued the "Notice on Further Clarifying Issues Concerning the Management of State-owned Financial Enterprises' Capital Increase and Shareholding Expansion" (http://www.china-cer.com.cn/zhengcefagui/202002012002.f

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——Innovative development. The original innovation and integrated innovation capabilities will continue to increase. By 2025, the R&D investment of enterprises above the designated size will account for more than 1.5% of the main business income; breakthroughs will be made in more than 20 key common technologies and more than 40 key new products.

- Industrial structure. The production concentration of bulk chemical products has been further improved, the capacity utilization rate has reached more than 80%; the guarantee level of the equivalent has been greatly improved, and the guarantee level of the materials has reached more than 75%.

—Industrial Distribution. The relocation and transformation of hazardous chemical production enterprises in densely populated urban areas has been fully completed, and about 30 industry parks with competitive advantages have been formed. By 2025, the output value of chemical parks will account for more than 70% of the total output value.

- Digital Transformation. The self-control rate of the main production equipment of enterprises in key fields such as petrochemical and coal chemical industry shall reach more than 95%, and about 30 smart manufacturing demonstration factories and about 50 smart chemical demonstration parks shall be built.

——Green and safe. The energy consumption and carbon emissions per unit of bulk products have been significantly reduced, the total emissions of volatile organic compounds have been reduced by more than 10% compared with the "13th Five-Year Plan", the environmental safety level has been significantly improved, and major production safety accidents have been effectively curbed.

## 2. Improve the level of innovation and development

(1) Improve the innovation mechanism and form a "three-in-one" collaborative innovation system. Strengthen the main position of enterprise innovation, accelerate the construction of key laboratories, innovation centers in key fields, and common technology research and development institutions "three in one" innovation system, and promote the deep integration of industry, education, research and application. Optimize and integrate industry-related research and development platforms, create innovation centers in the fields of high-end polyolefins, high-performance engineering plastics, high-performance membrane materials, biomedical materials, and carbon dioxide capture and utilization, and strengthen national platforms for new material production and application demonstration, test evaluation, and test testing Promote common technological innovations such as catalytic materials, process intensification, structural characterization of polymer materials, and processing and application technologies and equipment. Support enterprises to lead the establishment of



collaborative innovation organizations such as industrial technology innovation alliances and upstream and downstream cooperation mechanisms, and support local governments to rationally deploy and build regional innovation centers and pilot test bases.

(2) Overcome core technologies and enhance innovation and development momentum. Accelerate breakthroughs in key technologies such as new catalysis, green synthesis, functional-structure integrated polymer material manufacturing, and large-scale application in hydrogen", deploy cutting-edge technologies such as short-process of basic chemicals, intelligent bionic materials, and new energy storage and consolidate Improve process intensification technology, micro-reaction continuous flow, reaction-separation coupling, high-pressure purification and concentration, plasma, and supergravity field. Focus on key technologies and major projects, make breakthroughs in important equipment and manufacturing technologies such as reactors with special structures, electric heating furnaces, large-scale special pumps, valves, and components, and focus on the development and promotion of online detection of process parameters and online rapid identification and determination of physical properties and structures, etc. Perception technology, process control software, full-process intelligent control system, fault diagnosis and predictive maintenance and other control technologies.

(3) Implement the "three products" action to improve the supply quality of chemical products. Focusing on strategic emerging industries such as new-generation information technology, biotechnology, new energy, and high-end equipment, increase the varieties and specifications of materials such as organofluorosilicon, polyurethane, and polyamide, and accelerate the development of high-end polyolefins, electronic chemicals, industrial special gases, and high-performance Rubber and plastic materials, high-performance fibers, bio-based materials, special lubricants and other products. Actively develop new products such as shape memory polymer materials, metal-organic framework materials, efficient separation media for metal elements, and reaction-separation integrated membrane devices. Increase the proportion of green products in industries such as fertilizers, tires, paints, dyes, and adhesives. Encourage enterprises to improve quality, cultivate and create brands.

### 3. Promote the adjustment of industrial structure

(4) Strengthen classified policies and scientifically regulate the scale of the industry. Orderly advance the refining and chemical project "reducing oil and increasing production" to extend the petrochemical industry chain. Strengthen the supply capacity of high-end polymers, specialty chemicals and other products. Strictly control new production capacity in oil refining, ammonium phosphate, calcium carbide, yellow phosphorus and other industries, prohibit new production capacity of mercury-using (polyvinyl chloride, and accelerate the exit of low-





efficiency and outdated production capacity. Promote the high-end, diversified, and low-carbon development of the coal chemical industry, and develop modern coal chemical industry in a stable and orderly manner in accordance with the requirements of ecological priority, water-based production, total volume control, and agglomeration development.

(5) Accelerate the transformation and upgrading, and improve the competitiveness of the industry. Dynamically update the catalog of technologies and products that are encouraged to be applied in the petrochemical and chemical industry, encourage the advanced and applicable technologies to implement safety, emission reduction, and low-carbon transformations, and promote intelligent manufacturing. Guide the lightening of olefin raw materials, optimization of structure of aromatic hydrocarbon raw materials, and improve the utilization of product resources such as carbon five and carbon nine. Accelerate the transformation of coal-based chemicals to new chemical materials, coal-based high value-added products such as special fuels and high-end chemicals. Focus on improving the quality control level of coal-based ethylene glycol.

(http://

4. Optimizing and adjusting industrial layout

(6) Coordinating project layout and promoting coordinated regional development. According to land space planning, ecological environment zoning control and major national strategic arrangements, coordinate the layout of major projects, and promote the concentration of new petrochemical and chemical projects in chemical parks with good matching of raw materials and clean energy, rich environmental capacity, energy saving, environmental protection and low carbon. Promote the transformation and upgrading of the modern coal chemical industry demonstration zone, steadily promote the construction of a coal-to-oil and gas strategic base, and build an industrial demonstration base with efficient utilization of raw materials, integration of resource elements, coordination of pollution and carbon reduction, advanced and mature technology, and high-end product series. Continue to promote the relocation and transformation of hazardous chemical production enterprises in densely populated urban areas. Implement the requirements for promoting the development of the Yangtze River Economic Belt, ecological protection and high-quality development in the Yellow River Basin, and promote the scientific layout and orderly transfer of petrochemical and chemical projects in the Yangtze River and Yellow River Basin.

(7) Guide chemical projects to enter the park and promote high-level agglomeration and development. Promote the standardized development of chemical parks, use comprehensive standards in accordance with laws and regulations to force the parks to prevent and resolve safety and environmental risks, accelerate the construction of infrastructure such as pollution prevention and control in the parks, strengthen the investigation and rectification of the savage



pipe network in the parks, and improve the level of intrinsic safety and clean production. Guide the cyclical production and industry coupling development of enterprises in the park, encourage the dislocation and differentiated development of chemical parks, and coordinate the layout with metallurgy, building materials, textiles, electronics and other industries. Encourage chemical industry parks to build scientific and technological innovation and scientific research results incubation platforms and intelligent management systems. Strictly implement the "Prohibition, Restriction and Control" catalog of hazardous chemicals. Newly built hazardous chemical projects must enter chemical parks with general or low safety risks (except for projects that are built in conjunction with production equipment in other industries) to guide other petrochemical and chemical projects in chemical parks.

#### 5. Promote industrial coupling and information

(8) Accelerate the collection, innovation and application of new technologies and models, and create a platform. Accelerate the integration of next-generation information technologies such as 5G, big data, and artificial intelligence with the petrochemical and chemical industry, continuously enhance the ability to acquire chemical process data, enrich data on enterprise production management, process control, and product flow, and unblock production and operation information data "islands", build analysis models for production and operation, market and supply chain, strengthen the integrated management and control of the whole process, promote the innovative application of digital twins, and accelerate digital transformation. Create 3-5 industry-oriented characteristic and professional industrial Internet platforms, and guide small and medium-sized chemical companies to use the platform to accelerate the digital transformation of process equipment, safety and environmental protection. Build an industrial Internet-based industrial chain monitoring and lean service system around bulk products such as fertilizers and tires that are related to people's livelihood and safety.

(9) Promote demonstration and leadership, and strengthen industrial Internet empowerment. Publish guidelines for the construction of intelligent manufacturing standard systems in the petrochemical and chemical industries, and compile standards for smart factories and smart parks. According to the characteristics of the industry, build and select a number of benchmarks for digital workshops, smart factories, and smart parks. Establish petrochemical and chemical industry intelligent manufacturing industry alliances, cultivate internationally competitive intelligent manufacturing system solution providers, and improve service capabilities such as digital simulation of chemical processes and remote diagnosis, operation and maintenance of large-scale units. Based on intelligent manufacturing, promote the flexible production mode of multi-variety and small-batch chemical products to better meet the needs of customized differentiation. Implement classified and hierarchical management of network security for

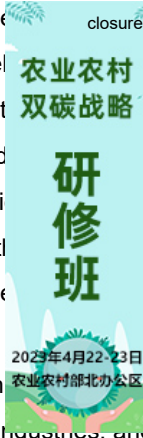


industrial Internet companies in the petrochemical industry, promote the application of commercial encryption, and improve the level of security protection.

## 6. Accelerate green and low-carbon development

(10) Give full play to the advantages of carbon fixation and carbon consumption, and jointly promote the reduction of carbon emissions in the industrial chain. Promote energy conservation and carbon reduction in key areas of the petrochemical and chemical industry in an orderly manner, and improve the energy efficiency level. Draw up a catalog of high-carbon products, and steadily regulate the production of some high-carbon products. Improve the utilization level of medium and low grade heat energy, promote the electrification of energy-using facilities, and guide the fuel to "replace coal with gas", and moderately increase the use of hydrogen-rich raw materials. Encourage petrochemical and chemical enterprises to develop and utilize "green hydrogen" in a rational and orderly manner. According to local conditions, promote the coupling demonstration of refining and chemical industry and "green electricity", "green hydrogen" and other industries, and use the high purity and high purity of carbon dioxide emitted by refining and coal chemical equipment. Due to the characteristics of low capture cost, carry out large-scale carbon dioxide capture, storage, oil flooding and chemical production demonstrations. Accelerate the development and application of energy-saving and carbon-reducing technologies such as direct cracking of crude oil to ethylene, one-step synthesis of olefins from syngas, and intelligent continuous micro reaction to produce chemical products.

(11) Focus on the development of clean production and green manufacturing, and cultivate and expand biochemical industry. Roll out the identification of green processes, green products, green factories, green supply chains and green parks, and build a full life cycle green manufacturing system. Encourage enterprises to adopt clean production technology and equipment to upgrade and upgrade, and promote the "reduction" of industrial waste from the source. Promote the treatment of volatile organic compounds in the whole process, increase the treatment of waste water containing salt and high ammonia nitrogen, promote the environmental protection of soda ash waste residue and waste liquid produced by the ammonia-soda method, and improve the utilization and disposal capacity of waste catalysts, waste acid, waste salt and other hazardous waste, Promote the mercury-free production of (poly)vinyl chloride. Actively develop biochemical industry, encourage the development of enzymes needed for biomass utilization and biorefining based on biological resources, and promote new biological strains; strengthen the connection between bio-based bulk chemicals and existing chemical materials industry chains, and develop ecologically friendly biological Based materials, to achieve partial replacement of traditional petroleum-based products. Strengthen the research and development and application of green alternatives to toxic and harmful chemicals, and prevent and control the environmental risks of new pollutants.





(12) Promote the coupled development of industries and improve the efficiency of resource recycling. Promote the coupled development of petrochemical and chemical industries, building materials, metallurgy, energy conservation and environmental protection, etc., and improve the comprehensive utilization of solid waste such as phosphogypsum, titanium gypsum, fluorogypsum, desulfurization gypsum and other industrial by-products such as gypsum, calcium carbide slag, alkali slag, and fly ash. Encourage enterprises to strengthen resource utilization and harmless disposal of waste resources and potassium associated resources, industrial waste salt, nitrates, yellow phosphorus tail gas, calcium carbide furnace gas, and refinery tail gas. Develop and scientifically promote biodegradable plastics in a safe manner, and promote the regeneration and recycling of waste plastic, rubber and other waste chemical materials.

#### 7. Laying a solid foundation for development

(13) Promote advanced safety management and improve the level of intrinsic safety. Consolidate the responsibility of the main body of safety production, promote the implementation of responsibility care, support enterprises and parks to improve the level of refined operation management, establish and improve the health and safety environment (HSE) management system, safety risk classification control and hidden danger investigation and management dual prevention mechanism, establish and improve fire fighting and rescue strength and enhance emergency response capabilities. Continue to carry out the construction of "Industrial Internet + Safety Production" in hazardous chemical enterprises, and promote the implementation of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Encourage enterprises to adopt advanced and applicable technologies such as micro-reaction and online micro-quick detection of gas leakage to eliminate hazards or reduce the level of hazards, and promote the safe transformation and replacement of high-risk processes.

(14) Strengthen the guarantee of raw material resources and maintain the safety and stability of the industrial chain and supply chain. Expand the supply channels of petrochemical raw materials, build a stable domestic foundation and a diversified and stable international supply system, and moderately increase the import of light, low-carbon, hydrogen-rich raw materials. In accordance with the principle of marketization, promote international cooperation in the development of potassium salt and other resources. Strengthen the exploration of domestic potassium resources, and actively promote the development of high-efficiency mining and dressing technologies for medium and low-grade phosphate rocks and efficient utilization of water-insoluble potassium resources. Take multiple measures to promote the reduction, recycling, and harmlessness of phosphogypsum, and steadily promote the "production of slag" in the phosphorus chemical industry. Strengthen the guarantee of chemical fertilizer production.



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factors, increase the concentration of production and the utilization rate of production capacity of key enterprises, and ensure the stable supply of chemical fertilizers. Protective exploitation of fluorite resources, encourage the development and utilization of associated fluorine resources.

## 8. Strengthen organizational guarantees

(15) Strengthen organization and implementation. Relevant departments in various regions should close y tasks into their key tasks in light of local realities, strengthen su ring and after the event, and coordinate and promote the impleme s. Relevant enterprises should, in light of their own realities and in ac h their main objectives and key tasks, pragmatically advance k and disclose environmental information according to the law. F s. Industry organizations should play the role of bridges, actively serve d strengthen industry self-discipline. Strengthen the public etation of policies (<http://www.china-cer.com.cn/zhengcefa>) / respond to public opinion and reasonable concerns of the public, and effectively improve the public's scientific and rational cognition of petrochemical and chemical industries.

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(16) Improve supporting policies. Strengthen the coordination of fiscal, financial, regional, investment, import and export, energy, ecological environment, price and other policies with industrial policies. Give full play to the role of the national industry-finance cooperation platform, and promote bank-enterprise docking and industry-finance cooperation. Strengthen intellectual property protection. Strengthen the cultivation of chemical professionals and the training of employees. Promote the demonstration application of the first (set) equipment and the first batch of materials.

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(17) Improve the standard system. Establish and improve standard systems for new chemical materials, especially modified special materials, fine chemicals, especially special chemicals, evaluation and identification management systems for bio-based materials, biodegradable plastics, and recycled plastic materials, and green energy monitoring and evaluation systems. Improve the energy consumption limit of key products, the content limit of toxic and harmful chemical substances and the pollutant discharge limit. Explore the formulation and revision of standards for carbon emission accounting of carbon (<http://www.china-cer.com.cn/shuangtan/>) -containing chemical products and evaluation of low-carbon products based on carbon footprints. Participate in the formulation of global standards and rules, and strengthen the evaluation and transformation of international standards.

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