



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 2025, 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.

五、《意见》重点任务

《意见》围绕主要目标，聚焦创新发展、产业结构、产业布局、数字化转型、绿色低碳、安全发展等6个重点难点，凝炼出6大重点任务。

（一）提升创新发展水平。一是完善创新机制，强化企业创新主体地位，构建重点实验室、重点领域创新中心、共性技术研发机构“三位一体”创新体系。二是攻克核心技术，加快重要装备及零部件制造技术攻关，开发推广先进感知技术以及过程控制软件、全流程智能控制系统、故障诊断与预测性维护等控制技术，增强创新发展动力。三是实施“三品”行动，增加材料品种规格，加快发展高端化工新材料产品，积极布局前沿化工新材料，提高绿色化工产品占比，鼓励企业培育创建品牌。

（二）推动产业结构调整。一是强化分类施策，科学调控石油化工、煤化工等传统化工行业产业规模，有序推进炼化项目“降油增化”，促进煤化工产业高端化、多元化、低碳化发展。二是动态更新石化化工行业鼓励推广应用的技术和产品目录，加快先进适用技术改造提升，优化烯烃、芳烃原料结构，加快煤制化学品、煤制油气向高附加值产品延伸，提高技术水平和竞争力。

（三）优化调整产业布局。一是统筹项目布局，推进新建石化化工项目向资源环境优势基地集中，推动现代煤化工产业示范区转型升级。持续推进城镇人口密集区危险化学品生产企业搬迁改造。二是引导化工项目进区入园，推动化工园区规范发展。新建危险化学品生产项目必须进入一般或较低安全风险的化工园区（与其他行业生产装置配套建设的项目除外），引导其他石化化工项目在化工园区发展。

（四）推进产业数字化转型。一是加快新技术、新模式与石化化工行业融合，不断强化化工过程数据获取能力，强化全过程一体化管控，推进数字孪生创新应用，打造3—5家面向行业的特色专业型工业互联网平台及化肥、轮胎等基于工业互联网的产业链监测系统。二是发布石化化工行业智能制造标准体系建设指南，推进数字化车间、智能工厂、智慧园区等示范标杆引领，强化工业互联网赋能。

（五）加快绿色低碳发展。一是发挥碳固定碳消纳优势，有序推动石化化工行业重点领域节能降碳，推进炼化、煤化工与“绿电”、“绿氢”等产业耦合以及二氧化碳规模化捕集、封存、驱油和制化学品等示范。二是发展清洁生产，构建全生命周期绿色制造体系。积极发展生物化工，基于非粮生物质制造大宗化学品，强化生物基大宗化学品与现有化工产业链衔接，实现对传统化石基产品的部分替代。三是促进行业间耦合发展，提高资源循环利用效率。有序发展和科学推广生物可降解塑料，推动废塑料、废弃橡胶等废旧化工材料循环利用。

（六）夯实安全发展基础。一是提升技术和管理水平，压实安全生产主体责任，推进实施责任关怀。鼓励企业采用先进适用技术改造提升，推进高危工艺安全化改造和替代，提升本质安全水平。二是增强炼化行业轻质低碳原料、化肥行业磷钾矿产资源保障，稳妥推进磷化工“以渣定产”，确保化肥稳定供应，保护性开采萤石资源，鼓励开发利用伴生氟资源，维护产业链供应链安全稳定。

六、《意见》保障措施

为保障主要目标和重点任务顺利实施，《意见》着眼打好“组合拳”，提出以下三项措施。一是强化组织实施。加强部门协同和上下联动，强化事中事后监管。发挥行业组织桥梁纽带作用，强化行业自律。加强政策宣贯解读，积极回应社会舆论和民众合理关切，切实提升社会公众对石化化工的科学理性认知。二是完善配套政策。加强财政、金融、区域、投资、进出口、能源、生态环境、价格等政策与产业政策的协同，推进银企对接和产融合作，强化知识产权保护，加强化工专业人才培养和从业员工培训，推动首台（套）装备、首批次材料示范应用。三是健全标准体系。建立完善相关产品标准体系、评价标识管理体系和绿色用能监测与评价体系；完善重点产品能耗限额、有毒有害化学物质含量限值 and 污染物排放限额；制修订含碳化工产品碳排放核算以及低碳产品评价等标准。

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