

Research on the Problems and Countermeasures of Green Development in Zhoukou City

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Abstract: *In the Fifth Plenary Session of the 18th Central Committee, the 13th Five-Year Plan and the 14th Five-Year Plan, China has proposed the concept of green development, making it clear that the guiding concept of economic and social development is green development and the promotion of green development in order to promote the harmonious development of man and nature. Zhoukou City is rich in natural resources and has a deep material foundation for green development. In view of the problems of Zhoukou's green development, this paper improves the supporting policies related to green development from the current green development of Zhoukou, so that Zhoukou's green development can have perfect policy support, and establishes a sound green technology innovation mechanism and talent training management mechanism to ensure Zhoukou's green and high-quality development.*

Keywords: *green development; Zhoukou City; countermeasures*

1. Introduction

The transformation and upgrading of Zhoukou's industrial system is a difficult task. In 2020, the structure of Zhoukou's three industries will be 17.2:41.1:41.7, and high-tech industries will be developed. From an overall perspective, however, Zhoukou City's industrial structure of high pollution, high energy consumption, low efficiency industries are still more, the traditional development model still occupies a larger part of industrial development, which is in urgent need of green development model, that is, excessive "low pollution, low energy consumption, high efficiency". In the new historical development stage, Zhoukou City accelerates the pace of green development, which is the necessary way to smoothly cross the impact of COVID-19, skip over the economic hurdles and achieve transformation and upgrading, and is also the inevitable choice to solve the current unbalanced and insufficient contradictions in social development, as well as the inevitable choice to practice the requirements of green development in the National 14th Five-Year Plan. Although Zhoukou City has encountered many problems and insufficient experience in green development, as long as it gradually decomposes the difficulties, solves the problems encountered in green development, alleviates the contradictions between people and the environment, and follows a green and sustainable development path, it will be conducive to timely green transformation and the construction of beautiful Zhoukou and ecological Zhoukou [1].

2. The Dilemma of Green Development in Zhoukou

2.1. Traditional development models dominate

Although the current economic development model in Zhoukou's has been in a state of flux, it is still dominated by the traditional development model. The main function of the local government in the process of green development is to maintain stable development while increasing local fiscal revenue, whereas market players place more emphasis on maximizing their own interests, with the main aim of growing profits. In the development of Zhoukou, although attempts have been made to establish a green target responsibility mechanism and to issue carbon reduction targets based on the specific conditions of the city, the development plans issued are mainly from different perspectives such as energy industry, transport and living, with simple descriptions of the targets as well as qualitative explanations, without carrying out detailed planning. However, the corresponding elements are not well

developed, the responsibility objectives are not broken down on a case-by-case basis, and no scientifically rigorous assessment review process has been carried out. Zhoukou City has maintained the inherent development model, most of the enterprises in the development of energy resources dependence is relatively high, the application of new technology is less, leading to a result of environmental pollution is slow to improve, the cycle is repeated, and green development is difficult to achieve. It is therefore particularly important to strengthen the scientific dispatch of resources, to allocate energy resources in a rational and scientific manner, and to take measures to stimulate the enthusiasm of enterprises to innovate.

2.2. Insufficient Technological Innovation

There are still many problems with technological innovation in Zhoukou, resulting in a lack of technological innovation, high demand for energy resources and low efficiency in their use. When energy resources are not used efficiently, the amount of energy resources used increases, and in this cycle, it is difficult both to protect energy resources and to achieve quality development. For example, the application of some technologies can indeed alleviate resource and environmental problems in a timely manner, but carbon emission problems may also arise in the process of application, which is tantamount to solving one environmental problem and then bringing in new environmental problems. Urban wastewater treatment, for example, while treating polluted water for secondary use can relieve water pressure and reduce water pollution, the construction and application of wastewater treatment plants requires a large amount of energy when carrying out wastewater treatment, and may also lead to more pollution. Due to the relatively low level of economic development in Zhoukou, there is insufficient financial strength to undertake higher risk investments. At the same time, reasons such as the lack of technical talent, the difficulty of introducing and retaining technical talent, and the even greater difficulty of implementing technical research, make it hard for technological innovation in Zhoukou to develop in depth. Coupled with the fact that the traditional development model has been implemented for a longer period of time and that the whole process of development is better mastered and has been in the comfort zone for a long time, innovative development becomes too risky. Under such circumstances, key technologies are not effectively developed and enterprises are not willing to innovate independently, while the government's policies and financial support in encouraging innovation are not enough. Ultimately, there is a serious lack of technological innovation in the economic development in Zhoukou.

2.3. Inadequate Environmental Protection Laws and Regulations

At present, there are fewer laws and regulations that include green development aspects, and the environmental regulatory system itself is inadequate. Inadequate dynamic assessment mechanisms for green development, online monitoring systems and emergency response systems for major environmental accidents can constrain the green development process in Zhoukou. Although a new environmental protection law has been implemented in China, it is difficult for local governments to actually implement policies and carry out green development in accordance with the principle of tailoring to the specific area of the city in order to increase fiscal revenues and maintain the stability of the employment situation. At the same time, the government's weak enforcement of environmental protection and the mutual shirking of responsibilities and multiple enforcement of laws in the face of problems in the green development process are limiting the sustainable green development of the city.

3. Cause of Green Development in Zhoukou City

3.1. High Dependence on Resources

Currently, the reliance on energy for urban development in Zhoukou is relatively strong, and the rate of energy consumption is increasing in the process of urbanization. In the future, as the economy continues to grow and urbanization progresses rapidly, demand for energy in Zhoukou will also increase, which will have a direct impact on the city's low carbon development level. With high energy use, the amount of pollution generated and the lack of timely and proper follow-up, environmental pollution becomes a real problem and it is difficult to carry out green development. Although Zhoukou City has followed the national development trend and promoted energy restructuring, the pace of adjustment has been relatively slow. This factor is difficult to resolve in a short period of time and the relatively low level of economic development in Zhoukou, a process that will directly affect the

effectiveness of the city's green development.

3.2. Planning and Policy Factors

Another part of the dilemma that causes green development in Zhoukou is the policy factor, which cannot achieve the optimal path of green development. The main function of local governments in the process of green development is to maintain stable development while increasing local revenues, and market players place more emphasis on maximizing their own interests, with the main aim of growing profits. In the development process of Zhoukou, although attempts have been made to establish a green target responsibility mechanism and to issue carbon reduction targets based on the specific conditions of the city, the development plans issued are mainly from different perspectives, such as energy industry, transport and living, and provide simple descriptions and qualitative explanations of the targets, without carrying out detailed planning. In addition, the targets are not broken down according to the specific situation, and no scientific and rigorous assessment and review process has been carried out.

3.3. Technological Innovation and Financial Factors

The process of green development in Zhoukou is also relatively constrained by technological innovation and financial support. And green development cannot be achieved without the use of new energy sources. Poor efficiency in the application of clean, low-carbon energy sources such as natural gas has led to a relatively low utilization of new clean energy sources, too much reliance on traditional development models and difficulties in improving the ecological environment in a timely manner. Adverse effects, such as the application of some technologies, can indeed alleviate resource and environmental problems in time, but they may also lead to carbon emission problems, which is tantamount to solving one environmental problem and then creating a new one. Commonly, such as urban sewage treatment, although the treatment of polluted water resources for secondary use can, to a certain extent, relieve water pressure and reduce water pollution, but when carrying out sewage treatment, sewage treatment plant construction and application process requires a large amount of energy input, may also bring more pollution.

4. Analysis of countermeasures for green development in Zhoukou City

4.1. Strengthen the Promotion of Green Development

Environmental protection is not just a slogan, but needs to be put into practice on the ground. Therefore, supervision and inspection should be stepped up to stop and deal with irregularities in a timely manner. Reasonable planning of national land space, through assessment and adjustment, nature reserves and ecological function areas are assigned to the ecological protection red line, so as to protect inside the red line and develop outside the red line. It is therefore important to win the battle for blue skies, strengthen the treatment of pollution sources, do a good job of ecological restoration, water source protection and rural pollution control, strictly implement environmental assessments for new construction and production projects, and resolutely prevent economic development at the expense of the environment. At the same time, it is necessary to cultivate a green lifestyle and insist on a healthy and environmentally friendly habit of living starting from me and from little to little.

4.2. Focus on Technological Innovation for Green Development

A sound technological innovation platform must be established to do a good job in all aspects of green technology research and development; for enterprises with high pollution emissions, more efforts should be made to deal with them and use advanced technological means to reduce the waste of energy resources. The application of new technological means is inseparable from advanced talents and equipment, and increase government investment to use green and environmentally friendly energy instead of highly polluting energy. For the current lack of technical personnel in Zhoukou City, by increasing the incentive mechanism, providing the necessary measures to protect life, etc., to attract talent, retain talent, use talent, and truly achieve technological innovation.

It is necessary to do a good job of innovation in finance and taxation in Zhoukou City, scientific planning funds for supporting projects such as 5G, industrial Internet, digital transformation and upgrading of enterprises, focusing on the development of high-tech industries; actively implement

actions to digitally transform key industries, industrial Internet innovation actions, actions to cultivate new models and new business models, and actions to improve basic support capabilities, build digital industrial ecology, and cultivate new momentum for the development of industrial digitization and digital industrialization, as a way to improve the level of green development in Zhoukou City.

4.3. Promoting the Transformation and Upgrading of the Industrial Structure

The transformation and upgrading of the industrial structure is an inevitable choice to achieve high-quality development in Zhoukou City, and green development provides a new source of power for the industrial transformation and upgrading of Zhoukou City. Therefore, macro-regulation of the industrial structure, the industrial enterprises with high consumption, low efficiency and heavy stain take adjustment measures such as shutting down and relocating. At the same time, through the use of new technologies to transform and upgrade traditional industries, vigorously develop energy-saving and environmental protection industries, develop and use new energy, implement energy-saving and environmental protection projects, cultivate and develop green services and other initiatives to improve economic efficiency, ecological benefits, value-added products and services, Zhoukou City's industrial development can move from the low-end to the middle and high-end, and high-quality development can be achieved. Vigorously develop circular economy. The other is to vigorously develop a circular economy, enhance the recycling of industrial agglomerations, promote the exchange and use of waste between enterprises, share resources and common use of infrastructure, and form a modern industrial system with low consumption, low emissions, high efficiency and the ability to recycle.

Zhoukou City can actively develop special industries and make use of its existing resource advantages, especially the rich tourism resources of Laozi's hometown tourism area and Taiqing Palace in Luyi County, Taihao Mausoleum scenic spot and Guandi Temple in Huaiyang District, Chinese Sophora Garden in Shenqiu County, Zhongyuan Folk Culture Park, Dragon Lake in Huaiyang, and the former city of Nanton and Yuan's former residence in Xiangcheng City. Based on this, Zhoukou City can vigorously develop cultural experience tours, rural resort tours and other derivative industries, invest corresponding public resources, and fully mobilize and integrate the power of enterprises, social groups and even foreign enterprises to improve its own attractiveness, affinity and influence, enrich tourism experience elements, improve the tourism experience environment, enhance tourism experience services, strengthen tourism interaction, and meet the tourism experience needs of foreign tourists To enhance the development of Zhoukou's tertiary industry.

4.4. Increase Environmental Pollution Prevention and Control

In response to the increasingly serious environmental problems in Zhoukou City, the government should pay attention to pollution prevention and control, reform production art or update equipment, research and develop pollution-free and less polluting production technology, develop green products, and reduce the amount of waste discharged per unit of output; develop and use transportation means with low energy consumption or clean energy, and gradually eliminate and limit the use of outdated transportation means; use energy and resources rationally, and Strengthen the management of industrial production, incorporate environmental protection into the track of enterprise production and management, save energy and reduce consumption, and reduce material flow; improve coal combustion technology, improve combustion efficiency, actively develop and adopt non-polluting and less polluting energy sources, reform the fuel composition to gradually realize gasification and electrification, and expand joint piece or centralized heat supply. The most pedantic municipal waste, human and animal excrement and sewage should be treated centrally and harmlessly, while hospital sewage may contain a variety of pathogenic microorganisms and radioactive waste and must be treated with special disinfection before discharge.

References

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