

Investigation and Research on Environmental Pollution Status in the Pearl River Delta Region Based on the Background of Guangdong, Hong Kong and Macao Dawan District

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Abstract. The Pearl River Delta urban agglomeration is the frontier of China's reform and opening up. One of the earliest formed urban agglomerations, based on the background of the Guangdong, Hong Kong and Macao Dawan District, people pay more attention to the living environment and pursue a higher quality of life. Therefore, it is of great significance to explore ways to prevent pollution, encourage the development of environmental protection industries, and raise people's awareness of pollution prevention and environmental protection. This paper summarizes the research report of "Investigation and Countermeasure Research on Environmental Pollution in the Pearl River Delta Region - Taking Xincheng Town of Zengcheng as an Example", and summarizes the report's effect on exploring and preventing environmental pollution and attracting people's attention.

1. Introduction

At present, PM2.5, which is widely discussed by the society, is supported by the continuous support of national policies. The environmental protection industry pays special attention to the development of environmental management of sub-sectors such as atmospheric treatment (including waste gas treatment) and sewage treatment and solid waste treatment. With the continuous improvement of people's living standards, people pay more and more attention to the safety and comfort of the living environment and the sustainable development of the global environment. It is the development trend of the international community to strengthen the management of environmental pollution and increase the human and financial resources. Society, the vital part of creating a beautiful global village. Governing the environment and protecting the environment have become one of the common actions and major tasks of the governments and peoples of the world today.

2. The background and significance of environmental pollution prevention in the Pearl River Delta region

2.1 Environmental pollution background in the Pearl River Delta region

In recent years, along with the implementation of the reform and opening up policy, the Pearl River Delta region is the world's processing and manufacturing base and import and export base. It is already one of the important choice areas for world industrial transfer. The Pearl River Delta region has initially formed an industrial cluster of electronic information and home appliances. It is a gathering place for important scientific and technological resources in Guangdong Province. It is China's largest high-tech industrial belt and an important high-tech industrial production base at home and abroad. However, in the process of accelerating industrialization, the "three wastes" have large emissions and the amount of pollution disposal is small, and the environmental pollution problem in the Pearl River Delta has been fully exposed.

2.2 The purpose of investigation and study on the status quo of environmental pollution

In response to the "Plan of the Pearl River Delta Reform and Development Plan (2008-2020)", the total amount of the economy reached 725 billion yuan in 2020, striving to catch up with South Korea and achieve the level of upper middle income to high income countries and regions. Strive targets such as "target" and "significant improvement in ecological environment" to explore ways to solve environmental pollution in the Pearl River Delta. After a close discussion and selection, the team decided to investigate the research with Xintang Town of Guangzhou as a sample. According to local environmental issues, we should take timely measures to improve and improve. If not, environmental issues not only directly restrict the sustainable development of China's economy and society, but also threaten the ecological balance and endanger the health of residents.

2.3 The significance of environmental pollution prevention in the Pearl River Delta region

Systematic research on environmental pollution in Xintang Town can systematically propose a complete set of countermeasures to solve environmental pollution problems in the region. On the other hand, it can provide management experience and reference basis for other high-economy areas in China, and also other The region that is vigorously developing economic construction is ringing the alarm clock and the strategic goal of realizing better and faster development of our economy and happier people's lives. Governing the environment and protecting the environment have become one of the common actions and major tasks of the governments and peoples of the world today. It can be seen that in the process of human survival and social development, environmental protection work has clear responsibilities and obligations, and the importance of environmental protection work that people have gradually realized has also attracted more attention.

3. Analysis of current situation of environmental pollution in the Pearl River Delta

3.1 Pollution trends that spread to rural areas with cities as the center

In the 1980s, a few river sections of the Pearl River Frontier Channel, Shenzhen River, Foshan Lujiang Section, Zhongshan Shiqi River and Jiangmen River were accompanied by the spread of pollution belts, which showed serious water pollution. Since the beginning of the 21st century, the black odor conditions of these heavily polluted river sections have improved significantly, and the pollution index has declined. In contrast, in the 1980s, the Pearl River Delta region was also clean and natural in Shenzhen Pingshan River, Guanlan River, Longgang River and Nanshan River, as well as some of the water source origins of the Qianshan River and the Dongguan Canal, with hundreds of small rivers and waterways. But it is a black stinky river. The mobility of water resources has determined that the point of urban pollution that people have begun to manage has unexpectedly spread to the periphery of the point. Invisible has formed another vicious ring of serious pollution. If there is no scientific attention to this polluted The ring, then its periphery began to form a larger pollution domain. The economic benefits brought about by the development of this kind of city are invisible double-edged swords. Only when they are firmly grasped, will they not escape control.

3.2 The problem of large pollutant discharge, multiple types and serious cross-border pollution

According to the survey data, if the waters are compared between different cities in the Pearl River Delta, the distance between them is less than 10 km, forming an overall layout of water supply and drainage between cities. Water is taken from the upper reaches of the river to the downstream of the river, and the flowing water environment causes the pollution of the urban pollution surface to expand, and even the drinking water is contaminated. In recent years, the discharge of sewage in the Pearl River Delta has reached about 4.17 billion tons, accounting for 69.7% of the province. Among them, domestic sewage from large and medium-sized cities has accounted for 70.7% of total wastewater discharge. Domestic sewage rich in inorganic pollutants, accompanied by a variety of aliphatic hydrocarbons, aromatic hydrocarbons and heterocyclic compounds, these elements become a breeding ground for people who nourish urban life. From point-to-face area impact, cross-regional

pollution problems are prominent, cross-city river border water quality is poor, and prominent bilateral or multilateral cross-urban pollution problems are also in the Pearl River Delta region of Shenzhen and Huizhou, Dongguan, Guangzhou and Foshan. There is a city and township. The end result of environmental disputes will inevitably lead to an imbalance in the coordinated development of regional social economy.

3.3 The influence of extensive economic development and urban-rural integration pattern

The team investigated and found that the Pearl River Delta industry is dominated by labor and resource-intensive industrial structures, the industrial structure is irrational, the overall scientific and technological content is low, the enterprise resource consumption is high, and the departmental production enterprises rely on the high investment of resources to realize the economy. High growth. The extensive economic development shows obvious regional characteristics, but the development of regional economy and the input of enterprise resources can basically be proportional. In the extensive investment development model of the Pearl River Delta, in terms of time, enterprise resource consumption and social and economic development grow simultaneously, but the benefits need to be improved; in terms of space, resource consumption and pollutant discharge water level are relatively high, Improve. In addition, the Pearl River Delta region is densely populated, and the urban and rural industrial areas are contiguously distributed, forming a regional overall development pattern of "village ignition, household smoke". The entire Pearl River Delta is a large factory, mixed with industrial and residential areas. The pollution also presents a regional overall pattern. The formation of pollutant-like surface-like emission characteristics is another drawback of the urban-rural integration pattern, which also increases the difficulty coefficient of pollution.

4. Research on the Countermeasures of Environmental Pollution Prevention in the Pearl River Delta

4.1 Improve the environmental management system and improve the environmental supervision system

The focus of environmental protection lies in the combination of prevention and control, combined with the environmental supervision system of "national supervision, local supervision, and unit responsibility", through the state's increased supervision of local governments and their relevant departments, and enhanced monitoring under the implementation of environmental laws and regulations, This will solve the problem of environmental pollution and become the vanguard. At the same time, local governments should be responsible for the environmental quality of their respective jurisdictions and organize the implementation of pollution prevention and ecological protection tasks. Local government agencies have a comprehensive understanding of environmental issues in their jurisdictions, and their information is relatively sound, so it is more suitable for environmental protection special treatment. Of course, in the implementation of supervision, all kinds of legal persons and other organizations are responsible for solving their own environmental problems, taking the initiative to take the lead in the implementation, and taking responsibility for pollution control and ecological restoration to promote the smooth progress of prevention.

4.2 Multi-channel publicity to support environmental awareness and action for social citizens

In the work of advancing the legal system policy of China's environmental protection, it is also necessary to fully recognize the power of the public in solving environmental problems. The necessary propaganda means is conducive to strengthening citizens' awareness of environmental protection. It can be achieved through the following methods: First, through various means of propaganda, it is a manifestation of the public's awareness of environmental protection to make the public's participation in environmental protection become a conscious action. Second, support the public and the news media and other government and industrial pollution majors in the supervision of environmental protection actions, pressure to make environmental protection policies effective, can also combine the rise of some environmental protection civil organizations, their effective action

begins The formation and implementation of government decision-making has a driving force and plays an important role in guiding the formation of environmental protection and energy-saving society. Third, students with a large base have developed into a huge force in the society. They are not only educators of environmental knowledge, but also important propaganda teams for environmental protection knowledge. We should encourage the volunteer service teams of major universities to actively go to the streets to help the neighborhood committees, village committees, environmental protection bureaus, health bureaus and other publicity work.

4.3 Promote environmental science and technology progress and develop environmental protection industry

In recent years, many environmentally friendly materials have entered the market, which has also brought more security to our lives. Therefore, vigorously developing environmental protection industries and introducing new technologies are environmental protection actions that promote the technological environment. The development of environmental protection industry may be cross-industry, cross-sector, and cross-regional. This must be linked to other economic sectors, emphasizing comprehensive development in the intersection and inter-infiltration of sectors and industries. The environmental protection industry is also our “fifth industry”. Its work aims at preventing environmental pollution, improving the ecological environment and protecting natural resources, combining technology development, product production, commercial circulation, resource utilization, information services, project contracting, and nature protection. Development and other activities are carried out through environmental protection machinery and equipment manufacturing, nature conservation development and management, environmental engineering construction, and environmental protection services. According to statistics, the market scale of the global environmental protection industry has increased from 250 billion US dollars in 1992 to 600 billion US dollars last year, with an average annual growth rate of 8%, far exceeding the global economic growth rate, becoming a "sunrise industry" that all countries attach great importance to. . According to the survey, China's environmental protection industry is in a stage of rapid growth and rapid expansion, but the overall scale is still relatively small, and the environmental boundaries and connotations of environmental protection need to be continuously extended and enriched.

5. Summary

“Green Mountain is the Jinshan Silver Mountain”, which is in harmony with the environment in which human beings live. It is the only way to realize the great Chinese dream. Under the background of the construction of Guangdong, Hong Kong and Macao Dawan District in the new era, the environmental pollution control and prevention issues in the Pearl River Delta region have made significant progress, but people's desire to satisfy people's pursuit of a better life has prompted us to have a higher awareness of environmental protection. understanding.

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