

City suburban haze causes and control measures based on the review of research

Author: Li Wang¹ Ang Wang² Rong Guan³

1.Huanghe Science and Technology College

2.Huanghe Science and Technology College

3.Huanghe Science and Technology College

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Abstract:the social development also brings a series of environmental crisis, the haze of human health, life, work has brought serious threat. In this case, this article through the analysis of domestic and international research status, combined with the suburban counties of transference, from encircling the cities from the surrounding new haze governance mode, and puts forward the research train of thought, main contents and research methods, and analyzes the development of research in this area has the conditions.

Research significance and present situation

Research significance

In recent years, the haze weather is a major problem in china's environmental crisis, causing widespread concern. From 2013 to the present, china has more frequent severe fog and haze, a number of urban air quality showed "heavy pollution", part of urban pollution index is frequently break through the ceiling, haze pollution as an important research content of ecological environment system, it closely related with the health and life of human beings, the transportation industry, tourism industry, aquaculture, mining and other constitute the main pillar of the economy of our country cause heavy economic losses, also affect the sustained and stable development of China's economy, restricting the process of economic change, the resulting public panic is to bring serious losses to the credibility of the government. In this case on the haze of research and governance research is imminent.

In the suburban counties as the object of study the haze causes and governance, conducive to the transference of environmental pollution, urban fullyequipped small, for the further study of the influence and control of Urban Haze has very important practical significance, provide a reference for the future governance and prevention of air pollution in big cities, the introduction of a new idea.

Research status at home and abroad

(1) Overseas Research Status

Foreign research on the haze earlier, in which the United Kingdom and the United States as the first study of the most in-depth. London in 1952, the British began to reflect on the British to reflect on their own to pay the price. In 1956, the British government introduced the world's first air pollution prevention act《clean air act》, the act of factory production, domestic coal burning, such as a series of provisions to do. Finally, Britain's air quality get improved, a factor in the success of

British governance haze is enough full participation, the government promptly issued policy, people respond positively. The British government at different times for different problems and introduce the corresponding policies, effectively suppress the haze. In 1955, Losangeles had a by far the most serious photochemical smog event makes the Losangeles government to seriously solve the problem of pollution, In 1970, the United States the first Clean Air Act Amendments to strictly determine the composition of pollutants and for the future of haze governance has played a vital role in helping. Bu.cheng (1998) and other sources will be classified as the following categories PM2.5: automobile exhaust emissions, fuel combustion, industrial emissions, road dust, etc., all kinds of pollutants in different regions with different, but in general the automobile exhaust emissions and fuel combustion plays an important role. Overall, foreign research on the haze and PM2.5 are starting from its origin, and then seek the fundamental governance.

(2) Domestic Research Status

Study on the haze and PM2.5 fine particles in China relatively late, in recent years, with the air pollution is increasing, the domestic research work of PM2.5 is gradually attention. And the research is from a macro perspective, focusing on meteorological conditions and human factors analysis of the causes of fog and haze. Comprehensive exploration of urban air pollution is mainly for the chemical composition of PM2.5, visibility and climate effects, source apportionment and PM2.5 on human health effects on those aspects and the analysis methods also each are not identical. Are largely limited to the macro level, as a breakthrough in urban or suburban areas, specific regional haze, causes and control measures of deep does not see more it also provides a breakthrough for the research of this paper. Again from the point of view of governance haze, throughout the domestic scholars on the haze governance initiatives, mainly concentrated in the economy, the level of Taxation, legislation and government intervention, adjust the energy structure and to improve the awareness of the public and other, but most of the research still concentrated in the surface, did not form a virtuous cycle of the governance mechanism of the system and ecological sustainable development, is still a headache medicine head aches feet and governance initiatives mere form, the general effect.

This research hope based on existing literatures at home and abroad, in Zhengzhou City, the suburban Xinmi City as the breakthrough point, will narrow the scope, for further specific areas, seeking the cause of haze and countermeasures, hoping to haze governance in Zhengzhou city or other cities provide theory basis and experience reference, provides a new idea.

Research contents and methods

Research ideas and methods

Follow "put forward the problem analyze the problem solve the problem" the basic idea of this research ideas, specifically. First of all, combined with the on social and economic damage of haze pollution severity and haze pollution in our city in recent years, put forward the necessity of the haze pollution control; Secondly, city the haze pollution causes analysis and management of the status quo and existing problems of evaluation, it is pointed out that is not clear, lack of pertinence and governance is still far from enough, the governance effect can not meet the requirements of sustainable development, will need to be solved urgently at present environmental problems were summarized and analyzed, in the analysis of the causes of haze pollution; Again, learn the useful experiences from the developed countries in the industrialization process of air pollution control practice, draw lessons from its positive aspects, especially the effective measures in the three aspects of government, legal, public; Finally, city suburban haze pollution countermeasures

proposed relevant suggestions, in order to cause of formation and control of haze pollution in our city that it is of great significance to. Finally, summarized, proposed to the suburban counties haze governance as the breakthrough point, from point to surface, the center surrounded by a peripheral new governance haze new model.

(1) **Inductive analysis method:** To collect relevant data and field survey to get the information were classified and analyzed. To summarize their own point of view put forward; and finally to form a summary by suburban urban buildings, from point to surface haze governance model conclusion, applied to China's urban ecological environmental governance.

(2) **Empirical analysis method:** Haze pollution is plagued in recent years our country social natural phenomena, but also the environment pollution caused by social phenomenon, it is necessary from the empirical analysis point of view of severity of haze pollution in our country, the harm to the society and economy and haze pollution causes and the existing legal system of fog and haze governance.

(3) **Comparative analysis method:** There are many places that are worth our country to draw lessons from abroad in the prevention and control of air pollution. This is valuable experience in Western industrialized countries accumulated in the process of industrialization, so this topic during the process of discussing, through domestic and international environmental governance in the system construction, legal construction and publicity and guidance, technical support by comparative study method absorb and use for reference. Do make foreign things serve China.

Research contents

The goal of this research is: through City suburb haze, causes and governance research, to construct a in the, system, sustainable benign circulation system. Seek a surrounded by the periphery to the center, from the point to the new environmental governance model, provides the reference for our country and city haze governance of China's ecological environment protection system construction.

The main research contents include the following aspects:

- (1) A comparative study on the causes and control of urban air pollution at home and abroad;
- (2) In recent years, the serious degree of fog and haze pollution in our city and the investigation;
- (3) City suburban haze causes and governance status quo;
- (4) The surface, surrounded by suburban research in the new mode of city governance haze;
- (5) Exploration on the application of the new model of fog and haze control.

Application value

To carry out the city suburban haze causes and Countermeasures of the application value and innovation is mainly reflected in the following aspects:

To provide support for the construction of beautiful China

The 18 big reports of the party put forward: "in the face of tight resource constraints, environmental pollution is serious, ecosystem degradation grim situation must foster respect for nature, comply with nature, protect the natural concept of ecological civilization. the construction of ecological civilization in a prominent position, into the economic construction, political construction, cultural construction, social construction and all aspects of the whole process, and strive to build a beautiful China, to achieve sustainable development of the Chinese nation". In the construction of a beautiful Chinese target, the provincial government attaches great importance to the need to do everything possible to air pollution control. In this case, to carry out urban haze,

causes and countermeasures will for component beautiful China contribute to the cause. In order to solve the haze pollution to provide reference.

The Central Plains Economic Zone is an important part of the construction of the Central Plains ecological civilization

Construction of the Central Plains Economic Zone and the construction of the Zhengzhou airport economic comprehensive experimentation area is an important platform to build an inland open highland in Henan province. It is a very important strategic measure to expand the opening to the outside world. Construction of the Central Plains ecological civilization, to maintain the sustainable development of the ecological environment, is the Central Plains Economic Zone in the construction of a clear goal to achieve. Through this project in City suburb haze, causes and governance of research, for Urban Haze governance and prevention provides a reliable reference, and for the construction of ecological civilization, the city of construction of area of Central Plains economy has important practical significance.

Play the role of promoting the project and promotion

The city is located in the surrounding suburban city, is an important part of the city. Most of our city, industrial enterprises are concentrated in the Xinmi city is located in South Zhengzhou city, has a long history, with the rapid development of economy, next to Zhengzhou airport Comprehensive Experimental Zone, is an important part of Zhengzhou City Economic and cultural, and environmental pollution problems, the haze governance is the focus of Zhengzhou City haze governance. Therefore drive in Xinmi City as a representative of the suburban as the research objects were haze, causes and countermeasures analysis, seek from surrounding cities of to form a point to surface, from the periphery to the center surrounded by new environmental governance model. play its role in promoting the promotion, is to solve the whole of Zhengzhou City, an important part of the prevention and control of haze. Through project promotion will drive and ecological environment for the city and even the national each big city governance provides a powerful reference.

Research foundation

This project is hosted by Huanghe Science and Technology College, Henan Keda energy-saving environmental protection Co. Ltd., Xinmi city environmental monitoring station shared. Civil engineering, environmental engineering, environmental engineering, energy engineering, landscape and other professional, has a more complete environmental monitoring, landscape planning, pollutant analysis, ecological monitoring and other types of instruments and Equipment. The project team has been engaged in the research and teaching of civil engineering, green building, project management and evaluation, building energy saving technology for a long time, has hosted and participated in a 《beautiful, harmonious, sustainable construction of contemporary university campus environment education system》, research on the development status and problems of green building in Zhengzhou city and the research on the comprehensive improvement of road traffic in the city center of Zhengzhou City. In order to build an efficient, reasonable, multi energy integration of urban and rural integration of urban and rural areas, Zhengzhou City, Zhengzhou City, the restoration of blue sky and white clouds, For the construction of the Central Plains Economic Zone, cultural reconstruction and ecological reconstruction of a certain exploration, Also laid a certain foundation for the further research of this topic.

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