

# The Important Role of Environmental Protection Projects in the Background of Low-carbon Economy

Ying Wang

Transportation Engineering Branch of China Railway Third Bureau, Shanxi 030600, China

## Abstract:

*With the continuous development of low-carbon economy, the role and status of environmental protection engineering are becoming increasingly prominent. The low-carbon economy not only emphasizes slowing down the speed of economic development, but also emphasizes that in the process of development, it always protects resources and the environment, and carries out social production and economic development on the basis of respecting nature, so as to promote the sustainable development of the national economy. The construction of environmental protection projects has been influenced by the concept of a low-carbon economy. This paper analyzes the construction of environmental protection projects under the background of low-carbon economic.*

## Keywords:

*Low-carbon economy; environmental protection engineering; function*

## Preface:

With the development of the world economic integration, the communication between countries has been deepening, and the discussion on the world environmental problems has followed. With the increasingly serious problem of global warming, the United Nations and other countries in the world have set up special management departments to carry out environmental protection work, conducted in-depth research on environmental issues, and carried out environmental protection engineering as a key project in economic development. At present, the international and domestic have begun to advocate the concept of low-carbon, and continue to carry out energy conservation and emission reduction work, in order to reduce the concentration of greenhouse gases, and constantly reduce the impact of human social production activities on the natural system and damage, to achieve sustainable and healthy economic development. In the current environment of low-carbon economy, the construction of environmental protection projects is the main embodiment of the practice of low-carbon concept, and an important measure to realize China's socialist modernization.

## 1 Low-carbon economy and its relationship with environmental protection

### 1.1 Concept of low-carbon economy

Low emission, low energy consumption and low pollution are the main models of low-carbon economy. Low-carbon economy refers to the continuous reduction of carbon emissions in the development of the social and economic system and the environment, so as to achieve sustainable social and economic development and reduce the impact of social production on the environment. The development of low-carbon economy is a comprehensive and global revolution in social values, lifestyles, production models and national rights and interests. In fact, it belongs to a kind of economic development concept, and it is also a kind of economic development mode under the new situation.

### 1.2 Relationship between low-carbon economy and environmental protection

Environmental protection is an important task in the development of low-carbon economy, which mainly refers to the rapid economic development of the country at the same time environmental protection work. If the economy is a major artery of the human body, the environment is the internal environment that wants to be connected with the major artery, in other words, it means that the development of the economy and the environmental protection work are at the same level. Due to the rapid

development of low-carbon economy, it has promoted the development of social and economic industries, and promoted the economic industry towards the direction of environmental protection and sustainable development, which is more in line with the public interest. The development of low-carbon economy is conducive to the progress of environmental protection work, which promotes the social economy to be cleaner, and effectively reduces the economic pollution caused by lack of adequate consideration of environmental protection. And with the continuous development of low-carbon economy, people have a clearer understanding of the importance of environmental protection, which is undoubtedly a good start for the development of environmental protection projects.

## **2 Reasons for the construction of environmental protection projects under the background of low-carbon economy**

In the process of social and economic development, a lot of non-renewable energy resources such as oil and coal will be consumed in their life and production, especially in industrial production. The use of these non-renewable energy resources has produced problems such as solid waste pollution, air pollution and water pollution. With the development of modern economy and the requirements of the concept of scientific development, its social life and production need to adhere to the requirements of this concept, and low-carbon economy is born in such a background. The proposal of low-carbon economy reflects the progress, civilization and times of the current international and domestic economic development. In fact, low-carbon economy can achieve win-win production, which is mainly the use of technical research and accounting and continuous equipment update to effectively improve social productivity, and reduce pollution emissions generated by industrial production and life production. Although the utilization and development of non-renewable resources such as oil and coal have effectively and rapidly promoted the development and progress of human society and civilization, in the process of social production, the utilization of these energy sources has produced a large number of chemical substances such as carbon monoxide and sulfur dioxide, resulting in very serious atmospheric pollution and ultimately causing the greenhouse effect. Therefore, it is necessary to carry out energy-saving production and develop green economy, so as to achieve sustainable development of society. The concept of low-carbon economy is mainly in the social production and manufacturing, product circulation and transportation, as well as waste recycling and other aspects of social deepening of industrial emissions of pollutants and waste generation for effective control, so as to reduce the concentration of carbon dioxide in the atmosphere.

The development of a low-carbon economy is not only a requirement of the current era and social development, but also one of the basic conditions for promoting human survival and development. People's main mode of activity is social production and life, and many resources will be applied in production and life, but natural resources are limited, which leads to a huge contradiction between natural resources and people's growing material and cultural needs, hindering social development. Therefore, we need to improve productivity and promote economic development at the same time, through effective measures to control industrial pollution, domestic pollution, and continuously reduce the emission of carbon pollutants in production. The basic objectives of environmental protection project construction are economic development and environmental protection, and the control of air pollution, water pollution, nuclear pollution, solid waste pollution, noise pollution, and other pollution is the focus of environmental protection project construction. The construction of environmental protection projects needs to be organized and planned, and the environmental pollution problems in a certain area should be comprehensively controlled. It mainly uses professional environmental protection theories and advanced scientific means to improve the regional environment intensively. In recent years, with the deepening of people's concept of sustainable development and environmental problems, people's awareness of low-carbon environmental protection has been continuously improved, and the demand for environmental protection project construction has also increased. In the new period, its social and economic development is inseparable from energy conservation and environmental protection, which requires us to take necessary measures to control and rectify regional environmental pollution problems, and at the same time, we also need our continuous production technology to achieve clean production of social production.

## **3 Importance of building environmental protection projects**

Construction of environmental protection projects under the background of low-carbon economy can effectively reduce the problem of environmental damage and pollution caused by unreasonable utilization and development of resources in economic

activities, and encourage social enterprises to fully consider social interests while pursuing their own economic interests, and realize the integration and application of environmental protection engineering concepts in the development of enterprises, so as to realize the long-term and healthy development of enterprises. Only under the premise of attaching importance to environmental protection can it provide a long-term and effective driving force for social and economic development.

In the process of urban construction and development, it is necessary to strengthen the protection of urban ecological environment, accelerate the integration of resources, adjust the development mode of urban enterprises, and implement the concept of environmental protection in specific economic behaviors, so as to realize the harmonious coexistence of man and nature.

## **4 Specific measures for the construction of environmental protection projects**

### **4.1 Formulate environmental protection regulations**

It is necessary to carry out the construction work of environmental engineering under specific laws and regulations to achieve the standardization and legitimacy of the implementation of environmental protection projects. Therefore, the national government and legislative departments need to formulate perfect environmental protection laws and regulations, reflect the development concept of China's rule of law, so that all regions can carry out the construction of environmental protection projects, so as to implement environmental protection engineering measures.

### **4.2 Use of high-tech means**

In the construction of environmental protection projects, improving resource utilization and reducing environmental pollution are two important aspects. Therefore, in the development of society, we must increase the use of high-tech means and research on environmental protection materials, promote the development and application of new energy technologies, so as to reform the traditional economic development model and mode and reduce the impact of economic activities on the environment. At the same time, the concept of environment-friendly development should be introduced into the social development, so as to achieve the common harmonious development of economy and environment.

### **4.3 Promote green travel methods**

Green travel means this environmental protection measures need to be implemented and specific to individuals. It mainly means that individuals maintain good habits in daily life, improve the importance of family living environment construction, and strengthen the protection of social environment. Green travel advocates the use of transport with less environmental pollution, avoiding a large amount of carbon emissions in daily life, thereby reducing environmental pollution and waste of resources, so that the concept of green environmental protection into the mind of each individual.

## **5 Conclusion**

The concept of low-carbon economy reflects human's renewed awareness and protection of the environment in economic activities. Low-carbon economy has specific goals, and the reduction of harmful gas emissions is allocated to the national development task, which can play a constraining role in the economic development of various countries. Environmental protection engineering is the practice of low-carbon economy, which can implement environmental protection work in practice, promote the transformation of the development mode of enterprises, promote the construction of environmental protection projects of the government, and also encourage individuals to join in the task of environmental protection, so as to jointly build a good environment suitable for human habitation.

---

### **References:**

- [1] Lei Wang. *Research on the Value of Constructing Environmental Protection Project from the Perspective of Low-carbon Economy* [J]. *Resource Conservation and Environmental Protection*, 2015(8):125-125.
- [2] Xuechun Qin. *Construction of Low-carbon Life from the Perspective of Low-carbon Economy: A case study of Bacheng City.* *Value Engineering*, 2012, 31(19):191-192.
- [3] Jialing Zheng. *Analysis on the Important Role of Environmental Protection Engineering under the Background of Low-carbon Economy* [J]. *Engineering Technology: Full Text Edition*, 2016(8):00001-00001.
- [4] Jun Zhou, Xu Pan. *Research on the Value of Constructing Environmental Protection Project from the Perspective of Low-carbon Economy* [J]. *Architectural Engineering Technology and Design*, 2016(20).