



# Regional Economic Development from the Perspective of Circular Economy-- From "APEC blue" of the Enlightenment

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*Abstract: 2014 November held the twenty-first session of the APEC conference in Beijing, during the meeting of Beijing sky appear for a long time did not see the blue sky, the air quality is good, be net friend for fun "APEC blue". The reasons why people have this demand is the reverse effect of economic development. This reminds us, the economic development not to the expense of environmental pollution. From the analysis of regional economic point of view, found that regional economic to be healthy, harmonious development, it must be combined with the circular economy, improve resource utilization efficiency, reduce pollution and keep the sustained economic growth at the same time, the problem of environmental pollution can improved. This paper intends to study how high utilization of circular economy in the development of regional economy, make economic development and environmental protection can change with direction. This paper firstly expounds the circular economy related theory; secondly, analyzes the necessity of the development of regional circular economy; thirdly, analysis the development of regional circular economy problems faced and how to develop the regional circular economy.*

*Key words: Regional economy; circular economy; sustainable development; APEC blue*

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## I. INTRODUCTION

Since the beginning of twentieth Century to the end of the twentieth Century, our country has not so strong as the original, the Qing government claim territory, the period of the Republic of the northern expedition, the war of Japanese aggression, the three years of war, ten years of the cultural revolution makes the original Chinese nation on earth in a disastrous state, the life of people suffer unspeakably, solid state and national one thousand things wait to be done. In 1978 the correct leadership of Comrade Deng Xiaoping, we embarked on a suitable Chinese socialist economic development road of the reform and open policy, the economic rapid development, people's living standards have markedly improved, but, today we find that the emergence contradiction relationship we still did not escape from the other countries between the economic development and environmental protection.

## II. RESEARCH BACKGROUND

2014 November in Beijing, held the twenty-first APEC meeting, during the meeting of state organs and Beijing city authorities, institutions and social groups take the body six days holiday, the vehicle is divided into single and double limit line, organs and enterprises and institutions of the 70% bus stop running, and all the construction site to stop earthwork, demolition, stone cutting, sediment transport dust work process, the atmospheric pollutant emission key enterprises, 69 enterprises stop production, 72 limited production. During the APEC meeting to guarantee air quality, Hebei Province, is expected to stop the implementation of measures to limit production to 2386 enterprises, at the same time, there are 2445 the cessation of the construction site, a distance of 200 km range around the city of Beijing in Tangshan, the tasks are more difficult, a kind of key control region production enterprises 47, two kinds of key control region limited production enterprises 195, key control areas, shutdown site 22, parts of Tianjin which will also cooperate with APEC meeting stop heating. Efforts made during the APEC conference, Beijing people finally have a clear blue sky, the netizens called "APEC blue".



People look forward to the "APEC blue" as promised that, as long as the accurate method to increase the intensity of environmental problems can be solved. First of all, we should analyze the causes of haze weather ,during the APEC meeting in Beijing, from the measures taken, we can see that the root cause of haze weather, mainly is the problem of air pollution from automobile exhaust, industrial emissions, construction dust, but automotive, industrial and construction is we get economic development and city construction are indispensable, so we need to do is to guarantee the economic development, making economic development and environmental protection in the same direction change. It can be concluded that the development of circular economy to imminent.

### III. ANALYSIS OF REGIONAL CIRCULAR ECONOMY THEORY

"Circular economy" was put forward by American economist K Paulding in twentieth Century 60 years, refers to the large system of human, natural resources and science and technology, in the whole process of resource investment, enterprise production, product consumption and waste, the traditional reliance on resource consumption based economic growth, towards ecological resource circulation type to economic development. The concept of circular economy, is the product of in the grim situation, the global population explosion, shortage of resources, environmental pollution and ecological degradation, human reunderstanding of nature, respect the objective laws, to explore the laws of economics. Circular economy is a kind of high utilization of resources and recycling as the core, In accordance with the "reduction, reuse, resource" as the principle, to promote resource conservation, comprehensive utilization of resources and clean production as the focus, with "low consumption, low emission, high efficiency" as the basic characteristics, and also is fundamental change of "mass production, mass consumption, a large number of abandoned" traditional growth mode. The essence of circular economy expression the new industrialization, then the core content attributed to transformation of industrial ecology construction based on industrial restructuring, as well as the corresponding system innovation, it can be concluded that the circular economy is to achieve one of the channels will be "APEC blue" into "every day blue".

Wang Le (2011) in their paper "regional development pattern of circular economy" summary of regional circular economy refers to that in a single administrative district or some administrative region formed in a region of the group, with the area within the existing resource conditions and the industrial structure as the foundation, based on circular economy, regional economy, industrial economy, ecological and economic theory as the basis, with developed economy, resource efficient, environmental friendly, harmonious society for the development goals, according to reduction, reuse, recycling, sustainable principle, suit one's measures to local conditions, comprehensive promotion of circular economy development degree among industries within the region internal and industry, improve the comprehensive utilization efficiency of all resources in the region, and to policy, capital, technology, talent as a way to safeguard the scientific development.

Yu Jinxiang (2014) in their paper "China's regional development of circular economy problem research" respectively from the administrative area, economic area, the region of space, industrial park four angles summary of circular economy theory, and also summarizes the regional circular economy refers to the circular economy, the implementation of regional units formed an administrative area or administrative region in the alliance, is a foothold in the area within the existing resource conditions, industrial structure, the basic concept of ecological circular economy pursued economic, social development, based on the regional industrial structure more optimized, within the scope of the economic layout more reasonable coordination and resource comprehensive utilization efficiency is greatly improved for the purpose of sustainable economic development pattern. From the analysis and the summary, the author thinks that: regional economic cycle is in the specific region, the use of regional resources and favorable conditions for the foundation, the use of specific relevant economic theory as the basis, to social harmony, energy saving and high efficiency, economic growth, industrial structure optimization as the goal, pursues the low energy consumption, high efficiency, guarantee the development, promoting harmony as the criterion, and a series of economic growth and environmental protection coordinated development mode of scientific development.



#### IV. ANALYSIS OF THE NECESSITY OF REGIONAL CIRCULAR ECONOMY DEVELOPMENT

##### A. The necessity of the development of regional circular economy

First, the economic development of our country is currently in the middle stage of industrialization development, compared with the foreign economic development journey, want to make the economic structure can make fundamental adjustment at the macro level, we also need long-term unremitting efforts. According to China's current industrial structure and form of environmental protection, we must lead through the construction of regional circular economy, and gradually into the national circular economy stage is the choice and practice more realistic.

Second, the present our country enterprise management mode, mode of production, which belongs to the first treatment after the control after the event, it is a kind of passive mode of operation, although economy to development and growth, but the environment has been irreparable harm, for China's ecological protection and resource depletion caused irreparable loss. At the same time, since the accession to the WTO, the impact of green barriers non-tariff barriers to international trade has become increasingly prominent. Many developed countries in resources and environment, the requirements of end products to meet the stringent environmental requirements, require imports of products from research and development, production, packaging, transport, use, from the link to recycling and so on to meet the requirements of environmental protection, the development of China's foreign trade, especially the influence the expanded ends the export of products. Therefore, only in some enterprise internal development of circular economy, the implementation of export control pollution control model is far from being a main idea to solve the contradiction between economic development and environmental protection in china.

Third, the inefficient use of resources in china. Compared with the use of international advanced technology of our country resource, especially in resource productivity, resource utilization efficiency, the level of comprehensive utilization of resources, renewable resources recovery and utilization ratio of cyclic correlation problem on the technical level is not high. And the mode of regional circular economy closely holds the resources at the entrance of the industrial chain, through the use of circular economy development in line with the materials and technology, to realize the economic development of the enterprise on the beforehand control aspects of environmental protection and so on, thus the energy-saving emission reduction into active.

##### B. THE SIGNIFICANCE OF THE DEVELOPMENT OF CIRCULAR ECONOMY ON REGIONAL ECONOMIC DEVELOPMENT

1. Circular economy is the best way to solve the problems of environment and resources in the development of regional economy. Circular economy emphasizes the conservation of resources, efficient use of resources, in the process of production and consumption, with the minimum cost to the pursuit of maximum economic benefit and ecological benefit. Mainly displays in: (1) Circulation economy can promote the efficient use of resources. Emphasis on resource recycling use, to extend the use of the product period, realize the transformation between products and resources, give full play to the intrinsic value of natural resources use, improve efficiency in the use of scarce resources. (2) Circular economy is conducive to reducing emissions of pollutants. Saving resources and reducing pollution from the source of economic activity, and finished product manufacturing, consumer to the recovery of this cycle, and greatly reduce the emission of pollutants in these segments. (3) Circular economy can reduce the difference of workers and peasants, urban and rural areas. The three major differences have become a destabilising factor in the development of the socialist economy of china. In China's more developed area, the pollution and waste generated more, more impoverished areas and poor people, but suffered the most serious pollution.

2. Circular economy is the optimization of regional industrial structure. In the same input and technology management conditions, restricting the quantity and quality of output will be affected by the different main natural resources, natural resources, regional conditions is one of the important factors determining the distribution and development in all sectors of the economy in the area. Circular economy can improve the efficiency of using resources, limited resources can be used in the most appropriate location, the efficiency in the use of that area to maximize resource scarcity may play resources,



promote the optimization of regional industrial structure. Circular economy can realize economic benefit, social benefit and ecological environment benefit, conducive to the sustained and healthy development of the regional economy, enhance the comprehensive competitive power of regional economy.

3. The development of circular economy is an important way to realize regional sustainable development. Circular economy is shown as: low consumption, low pollution, high utilization rate and high cycle rate. Circular economy can achieve the lowest pollution emissions, waste recycling and harmless. Circular economy is the pursuit of the production of both the speed and benefit, both short-term development and long-term development, the coordinated development of economy, society and environment. Circular economy is to make full use of, reasonable resources, the impact of economic activities on the natural environment is reduced to a kind of ecological economy in the lowest, is the mode of development of economic innovation in line with the principle of sustainable development, is the important way to realize the sustainable development of region.

#### V. HOW TO DEVELOPMENT REGIONAL CIRCULAR ECONOMY

##### A. Construction of the industrial system of regional circular economy

With the development of economy and socialization of production increase, people gradually realize that to the overall optimization of regional circular economy system of the guiding ideology is the right path to promote economic development, the most important thing is to construct a suitable for the development of regional economy industrial system.

1. Vigorously develop the regional eco industrial chain. Ecological industry chain is the request will be linked to all the relevant enterprises within the region, the formation of enjoying resources together industry combination. In this industry cycle, investment of production system of raw materials for the manufacture of a first product, the remainder will be used as a raw material for production of second kinds of products, if there is a remainder in turn for the production of third products of raw materials, until the remainder used completely, the last for the remainder can no longer put into use for harmless treatment, to achieve zero pollution to the environment.

2. Vigorously develop the resources environmental protection industry. The development of regional circular economy, first of all to do for recycling of waste re-use, and the advanced science and technology applied to production processes, greatly reducing waste emissions to achieve zero emissions, and finally reached a new closed by the way of resources. That is to say, only the effective implementation of 3R principles in regional circular economy, circular economy can make the related theories are fully implemented in the area of construction, so as to change the original backward mode of economic development.

##### B. The macro environment of the construction of regional circular economy development

The government used various means of economic regulation, directly regulate or influence the behavior of market players, to realize sustainable development of region economic development and environmental protection. Mainly from the following several aspects: first, the price reform. Study and use of the price policy to promote the development of circular economy, improve the natural resource price formation mechanism. Second, strengthen toll system. Strengthen residents garbage disposal fees and sewage treatment fee collection management. Third, in accordance with the polluter pays, the person that use compensation, developers protection, restoration destroyer principle, vigorously promote and develop the ecological environment system of paid use. Fourth, will be the focus of government investment in the development of circular economy, circular economy on some major projects for direct investment or provide capital grants, loan discount support, play the guiding role of government investment to the social investment. Fifth, the establishment of conducive to the organizational structure of enterprises and promote the development of circular economy.

##### C. Give play to the resource advantage in the region

The regional development must to exert regional advantages, realize the maximization of the overall interests as the main principles, combined with the region's own resources condition, environment and social economic status and other characteristics, the science of making overall planning for regional development, reasonable adjustment of regional



industrial structure and layout, the use of its own advantages in resources, build characteristic industry system, achieve the sustainable development of regional economy.

#### VI.CONCLUSION

China's economy is now tend to center of economy or economic zone as the core, will drive up the surrounding region economy, common development of regional economy is the future direction of economic research, but the resources and environmental problems also follow close on succession, in the development of regional economy by using the concept of circular economy is the direction of future economic development. China is a developing country, can be said to be just from a resource-based economy walks out, facing the problems of resources and the environment is very serious, in this way, we have a long way to go. From the 2014 APEC meeting of the appearance of "APEC blue", know, distress of capital and the surrounding people's quality of life of the haze can be uniform, although it will bring temporary economic loss, but if you find the right method, after a period of time, we have a good chance of getting "APEC" blue into "every day blue". This paper puts forward some countermeasures to the development of regional circular economy, to the development of regional circular economy not only to gradually improve the specific safeguard measures, but also in accordance with the principles of circular economy restructuring of regional industrial structure, development priority to encourage high-tech industry and the third industry; step by step adjustment of traditional industrial structure, increase research and development of environmentally sound technologies, through the construction of regional circular economy, and enhance the comprehensive competitiveness of the region.

#### ACKNOWLEDGEMENT

This Paper is Stage achievements of Regional economic and industrial competitiveness Research base.

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