

Research on Chinese Ecological Civilization Construction and Its Evaluation System Based on Sustainable Development

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Abstract: It is necessary to put forward the construction of ecological civilization to thoroughly implement the scientific concept of development, which is of great significance. The discussion on "vigorously promoting the construction of ecological civilization" in the report of the 18th National Congress of the Communist Party of China specifically expounds the concept of "system of ecological civilization" construction, which makes the political action program set by the Party Central Committee for the next five years or even longer to create a socialist ecological civilization have a clear dimension of system innovation. After the 18th National Congress of the CPC, the guiding position of the concept of ecological civilization will be further strengthened, the theoretical research on the construction of ecological civilization will be further deepened in an all-round way, the construction practice of ecological civilization focusing on energy conservation and emission reduction, circular economy and low-carbon economy will be further promoted, the construction of ecological culture will form a general atmosphere, and the pace of progress towards an ecological civilized society will be gradually accelerated.

1. Introduction

With the increasing intensity of human activities on the natural ecosystem, the natural ecosystem has been continuously destroyed and the ecological environment problems have occurred frequently, which has caused human beings to re-recognize the relationship between human beings and nature. Ecological civilization construction can improve the ecological and cultural level of our residents [1]. The quality of Chinese ecological environment is directly related to the level of residents' ecological culture. The residents' awareness of ecological management and environmental protection is increasing day by day in our country, but the level of ecological culture has not improved. However, in this process, resources are consumed in large quantities and the balance of the natural ecosystem is broken, bringing a series of ecological environment problems, threatening the survival of human beings and the sustainable development of economy and society [2]. Guan Siqi, taking Chongzuo City in Guangxi as an example, designed an evaluation index system of ecological civilization including three aspects of sustainable economic development, ecological environment protection and social progress [3]; Dong Zhanfeng and others analyzed the basic connotation of ecological civilization and constructed an evaluation index system including 35 specific indicators [4]. Judging from the current research results, although the selection of indicators is different, there is a general tendency to focus on economic indicators rather than ideological indoctrination, and insufficient attention has been paid to ecological civilization education to guide people to establish correct ecological civilization concepts. The evaluation index system provides quantitative standards for the construction of ecological civilization and sustainable development, and guides the construction of ecological civilization to deepen, improve, expand and upgrade continuously. Therefore, it is of great theoretical significance and application value to construct an objective, scientific, systematic and accurate evaluation index system to evaluate, monitor and guide the process of ecological civilization construction and the direction of sustainable development.

2. Principles and Basis for Constructing Evaluation Index System of Ecological Civilization Construction

On the one hand, we should study the construction of ecological civilization as a system and follow the general rules of ecological system. On the other hand, we should also consider the characteristics of different regions and different ecosystems.

2.1 Drawing on existing research literature

There are many problems in the comprehensive evaluation of ecological civilization construction. On the one hand, there are many observation variables; on the other hand, the importance of each index is different, which brings difficulties to the analysis and comprehensive evaluation of the problems. Therefore, the established evaluation criteria for the construction of ecological civilization must proceed from the overall system and scientifically reflect the comprehensiveness and integrity of ecological civilization. The concept of production under the premise of sustainable ecosystem and the concept of consumption that meets one's own needs without harming nature. Mao Yuan Yuan and others [5] pointed out that ecological civilization is the highest moral civilization, the only way to sustainable development in the world, and the highest standard of human civilization. It is also an expression of progress in looking at ecological problems. It has progressive ecological consciousness, progressive ecological culture and progressive ecological ethics, especially a legal system that can highlight the construction of ecological civilization. Among them, the second-level and third-level indicators of ideological education, the second-level and third-level indicators of ecological culture have been newly established, and some economic indicators have been cut down, so that they can more accurately and comprehensively reflect the achievements of ecological civilization construction.

2.2 According to relevant national policies

Ecological civilization construction has its specific connotation and essential attributes. Scientific representation and accurate reflection of the connotation of ecological civilization construction and the characteristics of different sustainable development stages are the important basis for constructing the evaluation index system of ecological civilization construction. To ensure the reliability of data sources as much as possible, the selection of indicators should be comprehensive and accurate, and the repeatability and correlation of indicators should be minimized to ensure the authenticity of evaluation results. As a performance evaluation system, the ecological civilization index system aims to reflect the final results of sustainable economic and social development. In general, as far as possible, the final result indicators are selected instead of motivation, measures and countermeasures indicators. Zhang Yuying and others put forward that ecological civilization refers to the combination of man's creation in the practice of transforming, adapting, conserving and tasting nature, the local and overall coordinated mode of material production and consumption, social organization and management system, values and ethics, as well as the mode of resource development and environmental impact [6]. The report of the 18th National Congress of the Communist Party of China sets forth in detail "vigorously promoting the construction of ecological civilization" as a separate chapter. It proposes to put the construction of ecological civilization in a prominent position and integrate it into all aspects and the whole process of economic construction, political construction, cultural construction and social construction. Transforming traditional industries and strategic industries for sustainable development to make green, circular and low-carbon technologies a large proportion of the economic structure and promote the green transformation of the sustainable economic development model. From the perspective of mechanism, we must establish an ecological system in which incentives and constraints are in parallel.

2.3 Practical experience of relevant provinces in China

The construction of ecological civilization is a process of continuous and sustainable development and improvement, and many theories and practices concerning the construction of ecological

civilization are still under exploration [7]. Due to the relativity of people's understanding of its characteristics and laws, the evaluation index of ecological civilization construction must be constantly changed and revised with the sustainable development of the times. On the whole, although more and more fields have begun to discuss their own points of agreement with the construction of ecological civilization, and use this as a bridge to integrate the concept of ecological civilization into their own management practices. Guiyang City has issued the first evaluation index system for eco-civilized cities in China. From six aspects of eco-economy, eco-environment, improvement of people's livelihood, infrastructure, eco-culture, honesty and high efficiency, 33 secondary indicators have been dimensionless and practical. However, the evaluation index system obviously attaches importance to economic indicators and belittles ideological education indicators. The requirement of environmental fairness should be embodied in a sound system and mechanism under the mode of economic innovation and sustainable development. Judging from the trend, ecological security must be guaranteed. Efficient prevention of environmental deterioration, as far as possible to avoid sudden environmental resources, natural disasters, to maintain a good ecological environment; Based on the research foundation of geography, economics, ecology, environmental science and other related disciplines, an index system suitable for Jiangsu's characteristics and sustainable development stage is constructed to evaluate the sustainable development level of Chinese ecological civilization and provide basis for formulating relevant policies and measures.

3. The Institutional Framework and Conception of Socialist Ecological Civilization

The report of the 18th National Congress of the Communist Party of China points out that the fundamental task of the construction of ecological civilization or socialist ecological civilization is to put the construction of ecological civilization in a prominent position on the basis of the brand-new concept of ecological civilization (respect for nature, compliance with nature and protection of nature), integrate all aspects and the whole process of economic construction, political construction, cultural construction and social construction, and strive to build a beautiful China and realize the sustainable development of the Chinese nation. Chinese understanding of the construction of ecological civilization has gradually deepened and the pace of construction has gradually accelerated. The understanding of the party and the government on environmental issues has gradually risen to the height of ecological civilization and taken it as the party's program and national strategy. This means that the cooperation between the nation-states (governments) and their achievements are likely to be more important than the efforts of the nation-states themselves, although it may be more difficult in reality. Building ecological civilization is the inherent requirement of implementing the scientific development concept and building a well-off society in an all-round way. It is the inevitable choice to solve the problems of resources and environment and realize sustainable development [8]. As for a modern nation-state, the author thinks that they should at least include the evaluation system of ecological civilization level, the green evaluation system of economic and social development, the system of land and space development planning and protection, the system of natural resources development and conservation, and the system of ecological environment protection. At present, China has initially established a system of laws, regulations and policies to promote the construction of a resource-saving and environment-friendly society and ensure sustainable development, enabling the construction of ecological civilization to fall into concrete practical actions.

For example, the evaluation system of ecological civilization level is the basic system that we need to establish and gradually improve in the process of vigorously promoting the construction of ecological civilization. By adjusting the industrial structure and energy structure, saving energy, improving energy efficiency and increasing carbon sink, greenhouse gas emissions were effectively controlled. To realize the ecological transformation of enterprises, it is necessary to follow up with green management and cleaner production. The implementation of enterprise green management will increase the potential possibility for enterprises to adopt cleaner production and obtain environmental and economic benefits. It can institutionalize the overall goal and strategic deployment of ecological civilization construction into some clear and specific rigid norms and

constraints, and at the same time make government agencies and the public themselves more consciously commit to the goal of ecological civilization construction. As far as daily environmental protection is concerned, the specific work shall be undertaken by the local environmental protection bureau. Local environmental protection agencies are subordinate to the local government, and their own people, money and things are managed by the local government. Although there are a large number of explanations and explanations of ecological civilization in China at present and they are different from each other, a consensus can be reached that the core of ecological civilization is "coordinated development of human beings and nature". Taking coordinated development of human beings and nature as a code of conduct and establishing a healthy and orderly ecological mechanism are the inevitable ways to realize the sustainable development of population, economy, society and natural resources.

Another example is that the green evaluation system for economic and social development is a system transformation or reconstruction that we must realize in the process of vigorously promoting the construction of ecological civilization, but it will also face many difficulties. The problems of imperfect system, imperfect mechanism, incomplete policies and inadequate incentives in the construction of ecological civilization are still outstanding. While pursuing economic benefits, enterprises should take into account, at least not damage social benefits and ecological benefits. Inevitably causing damage to social and ecological benefits, appropriate compensation should be made through internalization of external costs. It should be admitted that the most mature social system in the development of human civilization is the economic system. With the help of modern economic methods and means, we have been able to measure digitally the total economic volume and material wealth of the whole world and a country, as well as the input and output of economic factors of an industrial and commercial enterprise. Every citizen's positive role in the practice of ecological civilization regards paying attention to ecological environment protection and strict economy as important contents in the construction of family virtues and the establishment of civilized families, and insists on starting from now on and starting from me. Enterprises should consciously infiltrate ecological and humanistic values, scientific and environmental ethics, green wealth, green happiness and other values into their management activities. Therefore, it is necessary to further enhance the strategic position of the construction of ecological civilization, starting with the most prominent, urgent and environmental problems that have the greatest impact on people's livelihood, and to promote the construction of ecological civilization in depth and for a long time.

4. Vigorously Promote the Construction and Innovation of System of Ecological Civilization

4.1 Main topic areas of system construction and innovation

If system of ecological civilization is roughly defined as the different institutional forms of ecological civilization ideal and practice, then the institutional construction and innovation of ecological civilization is an important part of our efforts to promote the construction of ecological civilization. The concept, principle and goal of ecological civilization construction must be deeply integrated and fully penetrated into all aspects and the whole process of Chinese economic, political, cultural and social construction. This requires us to adhere to the leadership of the party and the government, respect the people's dominant position and pioneering spirit, and mobilize the people to participate actively and orderly, so that the people can share ecological civilization in building ecological civilization, and build ecological civilization in sharing ecological civilization. Adhere to the basic national policy of saving resources and protecting the environment, and strive to promote green development, circular development and low-carbon development to create a good production and living environment for the people. From this, we can understand that the institutional framework of socialist ecological civilization is a systematic system reconstruction project involving all aspects of our modern society, and it cannot happen overnight. At the same time, clean production should not only save raw materials and energy in the production process, but also minimize the damage to human health and natural ecology in the whole production cycle. We urgently need to establish some key topic areas with overall significance and leading value, instead of "grasping with one eyebrow

and beard".

4.2 How to realize system construction and innovation

We need to consider two closely related aspects at the same time: "Greening the modern democratic system" and "Ecological democratic political system" which is more conducive to the construction and innovation of system of ecological civilization? Which is more conducive to the construction and innovation of system of ecological civilization, the "greening of the market economic system" or the "ecological (market) economic system"? After the 18th National Congress of the CPC, it is expected to further establish and strengthen the guiding position of the concept of living civilization as the basic content of the socialist core value system and as the ideological basis and core content of building a well-off society in an all-round way. To achieve the goal of sustainable development, we must rely on the support and participation of the public and social organizations. The way and degree of participation of the public, groups and organizations will determine the process of achieving the sustainable development goals. Vigorously advocate conservation-oriented consumption and change one-time consumption and quasi-one-time consumption. Oppose selfish optimism and refuse extravagance, extravagance and other consumption behaviors. Encourage starting from little by little to reduce or eliminate ecological damage, environmental pollution and waste of resources, including the use of traditional market mechanisms and means to promote changes in the mode of economic production and the mode of mass consumption. Those with clear illegal political demands (such as ecological anarchism) should be resolutely banned and combated according to law. For general differences of opinion with the government, mutual trust, mutual understanding and mutual cooperation should be enhanced through communication, consultation and dialogue [9]. To improve the quality of ecological civilization of the whole nation and promote the all-round development of humanities; Establish an ecological compensation mechanism to achieve ecological justice, optimize income distribution pattern, narrow the gap between rich and poor, and promote balanced regional development.

4.3 The fundamental point or key to system construction and innovation

The system itself contains many levels from institutional entities to informal norms and customs, and the successful operation of any system needs a corresponding system culture to support, especially for an innovative new system like system of ecological civilization. Strengthen the research on "ecological view" in traditional Chinese culture, Marxist "ecological view" and ecological Marxism and ecological socialism thoughts, and deeply analyze the relationship between industrial civilization and capitalist economic crisis, political crisis and system crisis. Whether the government is just in eliminating environmental deterioration, distributing ecological rights and interests, ecological responsibilities, ecological risks and relieving ecological disasters is directly related to the credibility of the government and social stability and harmony. For example, if an innovative system wants to achieve tangible results, it must first obtain the positive response and participation of a sufficient number of people. Similarly, the sustainable effect of this system also depends on the persistence and continuous participation of a sufficient number of people. Only in this way can an ecological production and operation mode be established in which all links of the enterprise's clean production system complement each other and support each other, thus realizing the maximum effect of enterprises in energy conservation and emission reduction, forming an industrial structure that saves energy resources and protects the ecological environment, and developing circular economy.

5. Conclusions

In a word, the construction of ecological civilization is a great cause that needs to mobilize all social forces to participate and benefit the general public. The construction of ecological culture will form a general atmosphere. Advocating ecological ethics, popularizing ecological consciousness, gradually raising ecological consciousness to national consciousness, mainstream ideological trend and fashion concept, and forming a trend of paying attention to ecology, protecting ecology and

rational consumption; But for system of ecological civilization, the most important measure should be to understand and respect the diversity and stability of ecology. In the process of ecological civilization construction, there will inevitably be conflicts of interests and interest games. It is necessary to understand the differences in the needs of different groups for ecological civilization construction. On the basis of clarifying the mechanism and objectives of ecological civilization construction, it is necessary to explore various methods of ecological civilization construction in the region, coordinate the relationships between various stakeholders inside and outside the region, and promote the coordinated development of the region.

References

- [1] Surong Liu, Chuanju Jiang. Research on Performance Evaluation Index System of Ecological Civilization Construction under Big Data. *Scientific Development*, 3(2017) 40-46.
- [2] Zhuo Guihua, Chen Jin, Zhang Yuzhen, et al. Study on Establishment and Application of Evaluation Index System for County and Municipal Ecological Civilization Construction-Taking Fujian Province as an Example. *Strait Science*, 1 (2019)3-7.
- [3] Siqi Guan. From the perspective of the issuer, the development dilemma of Chinese green bonds. *Journal of Changchun College of Finance*, 4 (2017) 42-49.
- [4] Zhanfeng Dong, Hongxiang Li, Chazhong Ge, et al. Progress Assessment Report on National Environmental and Economic Policy 2018. *China Environmental Management*, 3 (2019) 60-64.
- [5] Yuan Yuan Mao, Jiameng Yang. Performance Evaluation of Ecological Civilization Construction in National Ecological Counties in Yangtze River Delta Region. *Ecological Economy*, 6 (2018) 210-216.
- [6] Yuying Zhang, Yang Luo, et al. Multi-level Fuzzy Comprehensive Evaluation of Ecological Civilization Construction. *Sichuan Architectural Science Research*, 1 (2017) 149-154.
- [7] Hongguang Dong, Lehong Gao, Jiaying Geng. Evaluation of the Present Situation of Ecological Civilization Construction in Anhui Province and Research on Fiscal and Tax Promotion Policies. *Journal of Huainan Normal University*, 4 (2018) 21-26.
- [8] Haiyan Zhuang, Darren Liu, gan Ma. Spatial Pattern and Optimization Path of Ecological Civilization Construction in Hainan Province. *Economic research guide*, 11 (2017)31-35.
- [9] Dandan Wang, Zhenyu Zhong. Study on Evaluation Index of Eco-civilized City Construction-Taking Yantai High-tech Zone as an Example. *Private Science and Technology*, 2(2017) 205.