

The Planning and Design Strategy from Ecological Civilization Perspective

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Abstract: After experiencing thousands of years of the agricultural civilization and the industrial civilization development, China has finally entered an ecological-civilization stage in recent years, and the environmental protection has become an important gauge for measuring the social economic development. In the procedure of urban and rural construction, the release of the Urban and Rural Planing Decree signifies that the coordinated development of urban and rural planning in our country has entered a significant historical stage. This thesis has summarized and analyzed the common problems existing in domestic urban and rural planning and design. Based on the problems this thesis has made in-depth discussion of the urban and rural planning and design with the ecological civilization issue which has been widely concerned in current social development and the implementation of the Urban and Rural Planing Decree being taken into consideration.

Key words: Urban and Rural Planing Decree, ecological civilization, urban and rural planning and design

In China, the ecological environment as a protruded social problem does not exist singly, but is produced accompanied by the urbanization and the industrialization. Since the reform and opening up, with the speedy development of urbanization and industrialization, the ecological environment problem as an important social problem has been severer than ever. For the series of ecological civilization problems caused by improper urban and rural planning and design, the Urban and Rural Planing Decree issued in 2007 has provided a precious opportunity for the settlement of current ecological environment problems during the urban and rural development. In the later the seventeenth National Congress, the industrial organization, increasing way and consumptive model based the the ecological civilization has been confirmed and highlighted, which implies tat the GDP-oriented model in China's social economic development has been transited to the ecological civilization-oriented model. In this background, the ecological civilization construction has been a basic notion in the process of urban and rural planning and management. Due to this alteration, this thesis makes some rudimentary analyses for the problems that should be concerned in urban and rural planning and design from the ecological civilization perspective, and further explores the developing road for the urban and rural development which presents a balanced development among the society, economy and ecology with

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the limited resources.

1. The Ecological Environment Problems Emerged In urban and rural Developing Process And The Origins In Planning Behind

1.1 The reflection of ecological civilization problems

Firstly, the pollution problem becomes increasingly important. In this year, in the background of great development of coordinated development in urban and rural pushed by the government, the ecological environment problem becomes protruded and has been a severe problem in the process of urban and rural development especially the urbanization in our country. No matter the “cyanophyta breakthrough” event in Tai Hu sometimes, or the “north smog” event recently, or the newly emergence of PM value, they have all been the alarm of the environmental pollution in the urban and rural development. Besides, the rapid development automobile industry produces the air pollution, which is another skill of the urban and rural ecological environment. The existence of this pollution forms severe threat to the lives of citizens of urban and rural.

Secondly, the rp situation is not optimistic. The large population with limited land in our country has made the resource issue becomes protruded. As the planning and development of urban and rural go further, the land use in urban and rural has increased rapidly which leads to the shrink of farmland directly, which forms great limitation to the city construction and industrial development. For example, currently the land for city construction in ShenZhen has been developed nearly entirely. At the same time, in south areas or southeast area which is equipped with rich water resource, the water shortage problem has occurred as well, which indicates that the situation of resource protection in the current urban and rural planning and development is not optimistic.

1.2 The unreasonable urban and rural planning and design has damaged the ecological environment

Firstly, the unreasonable planning has damaged to the natural environment. The major reasons for the damage to environment include the damage to land resource and water resource due to unreasonable and unscientific planning of urban and rural, the water pollution caused by unreasonable development mountain land resource, the over extract of underwater resource and the polluted water discharge and the filling of natural lake and pond in order to form construction land.

Secondly, the unreasonable city planning has aggregated the pollution to the environment. In the process of construction, many cities have caused the frequent air pollution, water pollution and solid pollution due to the unreasonable planing of city space structure, location of industrial area and orientation of the city. These factors are the major reasons of city pollution.

Thirdly, the unreasonable planning has increased the consumption of recourse and energy. Many city have pursued for scale effect in the construction, an design large area square or plantation district, which causes the great consumption of land resource. Apart from it, there are a lot of university cities, industrial parks and governmental office districts which are being constructed, which increases the commuting distance of the relevant workers, and further increases the amount of private car, then the energy consumption has been aggregated.

Lastly, the abundant disordered construction activities in the rural area has made the ecological environment problems protruded. The current Urban and Rural Planing Decree is developed based on the previous version of the Urban and Rural Planing Decree, and the major content of this decree is to regulate the construction of cities, and the construction activities in the wide rural area ares lack the limitation of corresponding decrees, which makes the project that violate the decree transferred to the rural area, and makes the ecological environment problems in rural area protruded.

2. The Effective Planning and Design of urban and rural from the ecological civilization Perspective

2.1 To establish the ecological civilization planning and design notion and refine the procedure of planning and design

The basic notion of the ecological civilization is to reach the harmony between human and nature as well as the sustainable development of the environment. For the urban and rural planning and construction, the prerequisite of reaching this goal is to keep the ecological civilization notion throughout the urban and rural planning and design, to set the energy saving, decreasing of discharge, environmental protection, pollution settlement as the basic indexes and principles of the planing and design work. Besides, the evaluation of environmental influence and environmental censoring should be included in the process of planning and development and be enlisted in the procedure of planning and development.

2.2 To coordinate the urban and rural planning and development and optimize the space planning system

There is no doubt that the release of Urban and Rural Planing Decree has offered the basic legitimate basis for the urban and rural unification work in our country. On the one hand, the construction and development of rural area should be enlisted in the planning and development of urban and rural unification; on the other hand, the planning and development of city especially the frontier area of city and the urban village should be enhanced.

In addition, the current space planning system should be optimized. The current space planning system in our country include the urban and rural planning and development as well as the overall planning of land use and the planning of state owned land. These different types of planning have their own respective feature and focus, and they are contradictory to each other, which leads to the chaos and low efficiency of space planning system and hinders the realization of urban and rural coordinated development. Therefore, the author thinks that it is necessary to make unification and coordination among different types of planning in order to realize the reasonable application of city space.

2.3 To layout the city space reasonably

Firstly, the structure design of city should be tight. In recent years, the greedy for large scale in the urbanization process of our country makes the enlargement of city scale becomes a tendency. Although the scale of city has been enlarged in a short period, the structure of city groups is loose, and the distance between the work areas and living areas in city becomes longer. This makes the public transport development faces difficulty and the private cars amount increases, which leads to the energy consumption and environment pollution becomes more. Therefore, considering the situation of large population with limited land and the reduction of energy consumption and environment pollution, the urban area planning and development should develops in the direction of tight space structure.

Secondly, the urban city structure and the ecological system should be coordinated. On the one hand, the design of urban space structure should fully consider the biodiversity, environmental stability in the areas and take the protection of them into the design work. On the other hand, the variation or expansion of urban space structure should take the state and feature of natural ecological environment capacity as the basis.

Lastly, the urban and rural ecological infrastructure construction should be enhanced. The ecological infrastructure has an obvious promoting and improving function on the urban ecological environment protection and settlement for

environmental pollution. In other words, the urban and rural ecological environment protection and settlement relies on the support of infrastructure construction. Therefore, in the urban and rural planning and development, the ecological environment should be taken as the basic channel and prerequisite for ecological environment protection and environmental pollution settlement.

Conclusion

The urban and rural planning and development has been a new problem during the domestic deepened urbanization process. In the background that the ecological civilization has been an important values in the urbanization development, the ecological civilization notion should be penetrated into the whole process of urban and rural planning and development. From the initial design to the later censor and measure, the ecological civilization values should be taken as the major criterion. People should launch the planning and design based on the requirement of being beneficial for the ecological environment and making harmonious development among the ecological environment, society and human. The urban and rural construction should be developed healthily with the prerequisite of ecological environment coordinated development

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