

# The Development Perspective of Gardens From the Perspective Ecological Gardens in China

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**Abstract:** With the development of the times, the artistic conception of ecological gardens gradually become the development trend and direction of innovation in China's ecological garden landscape industry, the ecological value of the ecological gardens and the coexistence philosophy of "Harmonious coexistence of man and nature" serves as the important gene that conforms to the strategy of sustainable development. Besides, the construction of ecological gardens is made as the basis of future garden engineering. From the perspective of ecological gardens, the prospect of garden engineering in China is promising, but there are also challenges. This paper gives special attention to the future development prospect of China's gardens from the perspective of the development of ecological gardens.

## 1. Ecological Gardens

### 1.1 Connotation of Ecological Gardens

Landscaping of gardens refers to the landscaping of municipal gardens and real estate gardens, which is aimed to beautify the environment, improve the ecology, reduce environmental pollution so as to achieve effective improvement of living environment of human beings. In actual design of garden engineering, ecological garden is a kind of the concrete forms of gardens and also the concept on garden development. The essence is to achieve the harmonious coexistence between human and flora and fauna and benign circulation of ecology on the basis of the traditional garden engineering, which is supported by ecology through the establishment of multilevel and phytocenosis with multi-structures[1-2].The essence of ecological gardens is to build a civilized and beautiful ecological environment, which is a kind of fundamental engineering that is coordinated and sustainable and share-based environmental protection to improve the ecological environment.

### 1.2 Construction Principles of Ecological Gardens

#### 1.2.1 Coordination and Unity of Development and Utilization

Conservation is the first priority in the construction of ecological gardens. The realization of resource conservation and efficient use of energy is the essence of the construction of ecological gardens. The prominent features of ecological gardens are to improve the amount of urban afforestation, which can effectively improve the construction benefits of ecological gardens, conserve water and soil, reduce pollution, and reduce indoor energy consumption. Ecological gardens in urban areas can effectively reduce the heat island effect in urban area.

#### 1.2.2 Harmonious Coexistence Between Human and Nature

The harmonious coexistence of city and nature and the protection of natural environment have become the future pursuit and development direction of people, which reflects the bilateral interaction between human and the environment. According to the actual situation of the ecological environment in urban area and on the basis of the environmental requirements of people, the physical and psychological needs of people should be taken into consideration. It is necessary to

embody both the "harmonious coexistence between man and nature" and "return to nature". The creation and development of ecological gardens display the care and respect of the inner demands of people[4].

## **2. Analysis on the Development of Chinese Gardens**

### **2.1 The Status Quo of Development of Chinese Gardens**

#### **2.1.1 The Expansion of the Scale of the Market has Become a Trend**

The market scale of Chinese garden industry is increasingly expanding. According to statistics, the size of China's public landscaping market increased from 245.1 billion yuan in 2014 to 348.9 billion yuan in 2019. Due to rapid economic growth, strategic industrial transformation and the improvement of urbanization rate, the compound annual rate of growth of public gardens was 7.3%. The market scale of private landscaping has increased from 349.6 billion yuan in 2014 to 506.9 billion yuan in 2019[3]. As the increasing demand for green coverage in real estate and tourist attractions, the CAGR of private gardens was slightly higher than that of public gardens, which stood at 7.7 percent. From the perspective of the total contract value of the garden construction projects completed in the same year, the market scale of China's garden industry has increased from 594.7 billion yuan in 2014 to 855.8 billion yuan in 2019 with an annual compound growth rate of 7.6%. It is estimated that by the beginning of 2025, China's landscape market will reach about 1.16 trillion yuan and create greater economic benefits.

#### **2.1.2 Development Imbalance of Gardens in Eastern and Western Regions**

The development of Chinese garden market is related to economic development and location. Due to the influence of factors such as economic development, climatic conditions, population density and others, China is confronted with the problems of unbalanced development of garden market in eastern and western regions, which is reflected in the prominent development of garden engineering in the eastern coastal areas and the backward development of garden engineering of the inland cities in the west. According to the scale of China's garden market, the market share of eastern China accounts for about 45% of the overall market of China's garden industry. Among China's first-grade enterprises responsible for landscaping, Zhejiang, Jiangsu and Guangdong top other provinces, while Ningxia, Qinghai and Hainan province have fewer than 10 such enterprises. This shows the problem of unbalanced development[5]. Under the guidance of the philosophy of "Beautiful China", the layout of green gardens has been upgraded all over the country. In the middle and late stage of urbanization, the requirements of residents for environmental quality are constantly improving, and landscaping industry will also be upgraded and permeated to all links of the industrial chain. It is inevitable that the coordinated development of China's garden market in eastern and western areas will be promoted with the drive of building a moderately prosperous society in an all-round way[10].

### **2.2 The development Trend of Chinese Garden Industry**

#### **2.2.1 Ecological development of garden industry**

Over the past 30 years of rapid economic development, the lack of protection of ecological environment and unreasonable industrial structure and other factors have led to the serious destruction of China's ecological environment, and such "unfriendly" development has seriously affected the development of social economy. Against such background, the state gives top priority to "sustainable development" and ecological and environmental protection. Landscaping is not only for the sightseeing or even damage the original ecological environment, but the substantive function of improving the natural ecological environment be initially undertaken. At the same time, the introduction of a series of relevant policies further promoted the rapid development of the emerging field of garden engineering, especially the development trend of the industry related to ecological environment construction and ecological restoration is more prominent, the industry is characterized with obvious ecologicalization.

### **2.2.2 The Improvement of the Level of Concentration of Gardens**

The centralized development of the market will be the development trend of garden market in China in the future. Currently, China's garden industry still is in a state of dispersed competition, the development of centralization of the Chinese garden industry is relatively lower. Chinese enterprises with strong capability in landscaping will further demonstrate their strengths in capitals, manpower and brands to increase market share so as to ensure the deepening of concentration level of the industry.

### **2.2.3 The Development of Economical gardens Will be the Trend**

In accordance with the principle of rational and cyclic utilization of resources and the purpose of saving all kinds of resources to the maximum extent to achieve the purpose of improving the utilization rate of resources, the sustainability of human and nature is embodied. Besides, the characteristics of cyclicity at low cost is presented, which serves as the the essence of garden engineering in the future. The contradiction between the depletion of natural resources and the increasing demands on living environment of human beings has become the main reason impeding the development of landscaping industry in China in the future. Based on such background, the development trend of conservation-oriented gardens must be pushed forward to provide solutions to the contradiction between resources and quality, which is consistent with the concept of "conservation-oriented gardens" proposed by the Ministry of Housing and Urban-Rural Development[8-9].

## **3. Analysis on the Development Prospect of Chinese Garden Industry From the Perspective of Ecological Gardens**

### **3.1 Coordinated Advancement of Development of Ecological Gardens and Landscaping Industry in China**

According to the 13th Five-Year Plan, the area of national forest will reach 223 million hectares, and the forest coverage rate will stand at 23.04 percent by the end of the 13th Five-Year Plan. There is great pressure in carrying out large-scale land afforestation activities and strengthening the construction of key forestry projects. During the period of the 13th Five-Year Plan, China will accomplish the task of 100 million Mu of afforestation every year. The idea of afforestation alone in urban afforestation construction is unrealistic, which requires renovation in afforestation and scale expansion of ecological garden projects, so that ecological gardens become the ecological and economic power of landscape projects. As a result, the development of landscape engineering is promoted, at the same time, the development of ecological garden engineering is driven correspondingly.

### **3.2 Obstacles in the Construction of Ecological Gardens Are Removed by Technological Innovation**

There has been technical problems in the construction engineering of gardens in China in both past period and future. For example, information about supply and demands of nursery stock is blocked. The blocked information results in the increase of construction cost of gardens. In addition, the supply of plants is not scientific and in-proficient master of business all lead to the unreasonable selection of green plants of gardens. The improper collocation of plants will give rise to the increase of cost in management and operation[7]. Meanwhile, the construction benefits of ecological gardens will be low. Therefore, the information platform for transaction of nursery stock with the help of information technology can be greatly developed[6] for convenient procurement and reducing operating costs. In the future, technical talents will also become a booster for the development of Chinese gardens. They are the technical capital and will make the construction of ecological gardens more reasonable and economical, and the functions of soil improvement and ecological restoration will be effectively realized.

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