The Ecological Concept Based on Big Data is Integrated into the Strategy Analysis of Landscape Design

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Abstract. With the constant development of economy in our country, the city process also significantly faster, now is becoming more and more good urban design and planning, urban greening and landscape is also more and more common, people has higher requirement to the residential environment in the city now, today's landscape is the important content of ecological planning in the city, and a good set a good natural landscape can not only to the city image, also can bring the city live people a good ecological environment, it can greatly improve the quality of people's happiness and life. At the same time, good landscape can also reduce the harm of automobile exhaust, absorb harmful gases. Nowadays, more and more people pay attention to the ecological environment. Under such circumstances, the ecological concept should be integrated into the landscape design in the construction to achieve the purpose of environmental protection.

Keywords: Ecological Concept, Landscape Design, Construction Countermeasures, Analysis and Research

1. Introduction

With the rapid development of China's social economy, the damage to the ecological environment is becoming more and more serious, which has seriously affected people's quality. Green gardens in cities can not only beautify the urban environment, but also contribute to urban construction and create a good ecological environment for residents. At the same time, green plants can also absorb harmful emissions from cars and elite air, bringing a good urban living environment to urban residents. The construction of ecological landscape has gradually attracted people's attention. The author will be respectively from the following two aspects: the related principles of ecological concept into landscape construction and the effective countermeasures to promote ecological concept into landscape construction\textsuperscript{[1]}. 

2. The concept of landscape construction

Landscape plants in gardens are very important for gardens. While improving the ecological environment, they also provide a good place for residents. So what is the role of ecological gardens in cities? Firstly, the urban climate can be adjusted. As we all know, the urban population is very large, and a small area of land is crowded with a large number of people. The temperature in the city is often much higher than that in the suburbs, so gardens can effectively regulate the urban temperature. The
protection of ecological environment has become an issue that all countries in the world must pay attention to. At the same time, "urban syndrome" begins to appear in the process of urban construction and development, with typical symptoms including traffic congestion, rapid population growth, environmental degradation, tight use of land resources, insufficient power supply and water supply, etc. In order to solve such problems scientifically, more attention must be paid to ecological landscape construction[2].

![Image](elements_of_landscape_color.png)

**Figure 1.** Elements of landscape color.

### 2.1. Adapt to local conditions
Landscape construction is based on certain principles, not casual construction, construction must be done before the terrain and surrounding conditions of the survey, according to the local actual conditions to choose the most suitable scheme, so as to build a good garden. In addition, consider the elements between plants. Plant growth has a high demand on climate, so the relevant personnel should follow the principle of adapting to local conditions when selecting plants in the construction of garden. The climate of the place where the garden is located should be analyzed before the construction of the garden, based on which the suitable plant species can be selected. On the analysis of the climate conditions when dealing with the favorable factors and unfavorable factors into account, when choosing plants, not only deal with local climate were analyzed, considerations should be followed in the process of melt of adjust measures to local conditions related principle, make its role effectively.

### 2.2. Reasonable collocation
When integrating ecological concept into landscape design and construction, we should not only consider whether the plants are in accordance with the local climate, but also consider the problem of plant collocation. Many factors in the early stage are taken into consideration, so that the later stage can bring a lot of convenience in terms of energy and maintenance, can save a lot of manpower and material resources, and will have a very big impact on the later development of the garden.

### 2.3. Resource conservation
To make rational use of resources, the design should not only ensure the quality, but also learn to reduce the cost, SO as to achieve themaximum benefit of the construction of gardens. Landscape designers should take the construction cost into consideration in the garden construction, make rational use of relevant resources, apply new materials and new technologies to the garden design and construction, and embody the ecological concept[3].

### 2.4. Aesthetic and practical
The design of the urban garden should pay attention to a certain sense of beauty, the garden should
pay attention to a certain sense of design, so that the actual effect will be better, so the designer should also have a certain literary foundation, to have a good aesthetic. The garden itself has the ornamental function, the ecological concept into the garden construction should consider the development of the economy and whether it is beautiful and practical, comprehensively enhance people's spiritual enjoyment. In landscape construction, designers should rationally arrange the main scene and the background scene to ensure their coordination and better reflect the beauty.

2.5. Harmony and continuity
With the development of China's social economy, China is paying more and more attention to the development of the environment, because only a good environment, we can achieve sustainable economic development, so the garden design should pay attention to the concept of harmony between man and nature. Environmental development requires that we should not over-exploit resources and pursue short-term prosperity instead of focusing too much on short-term benefits. Instead, we should ensure that the city develops in a coordinated, healthy and stable direction. At the same time, in the construction of ecological garden city, we should pay special attention to the relationship between human and nature, highlight the importance of harmony. At the present stage, ecological gardens no longer simply pursue "environmental quality", but emphasize the coordination of the interests of nature, economy and society, and seek for the development of new order under the guidance of the principle of integrity. At the same time, ecological garden city is based on "regional balance" and has significant regional characteristics. Different proportions of the width and height of the scene give people different feelings. As shown in the Table 1.

| Table 1. Different ratio. |
|--------------------------|
| 1:1 | Decorum |
| 1:1.68 | Robustness |
| 1:1.414 | Luxury |
| 1:1.732 | Lightness |
| 1:2 | Beauty |

3. Effective countermeasures to promote the integration of ecological concept into landscape construction

3.1. Reasonable selection of garden plants
Plants are an important part of the garden, so the choice of plants affects the whole garden, the choice of plants should also consider many factors, to make the garden with the overall harmony, according to the overall design to choose. Local plants usually have strong vitality. In landscape design, tree species with strong tenacity and well-developed roots should be selected to ensure the ornamental value of the plants. For example: in the landscape design and construction in Xinjiang, poplars and other plants are usually selected, which can not only resist wind and sand, but also have ornamental value.

3.2. Coordinate internal and external tree species
In order to create a new landscape, many designers in the garden construction will introduce exotic tree species, on the one hand can play the role of enriching tree species, but also can meet the visual enjoyment of people. It is worth noting that the introduction of exotic tree species requires a series of transplant work and investment of certain funds. As exotic tree species cannot adapt to local climatic conditions, they eventually die and thus lead to waste. In order to improve the status quo, the effective coordination of internal and external tree species, promote the growth and development of plants, the formation of a patchwork of aesthetic. For example, mixing alder with cunninghamia lanceolata can
improves soil aeration and has a definite effect on environmental protection.

3.3. **Standardize landscaping construction system**

Some plants are suitable for growing together, and some plants are not suitable for growing together. Therefore, these are all factors to be considered. In urban garden construction, the choice of green vegetation is an important link whether to produce environmental benefits and economic benefits. According to the present situation of urban landscaping development, it is necessary to work out the universal greening index and building index standard, and construct the standardized construction of garden construction, so as to provide guarantee for urban landscaping construction technically. In addition, strengthening the supervision of greening construction is also an important and effective way to promote benign urban construction[4].

3.4. **Rational selection of plant species**

The maintenance of the garden in the later period is also the traditional Chinese medicine content of the garden design, a good garden needs staff to maintain the best side, in the later period of maintenance, we need to develop a series of management measures, if the garden for a long time no maintenance, it is likely to be abandoned. In the process of landscape design and construction, we should pay attention to the rationality of plant species selection, which is not only related to the economic cost of landscape, but also related to the ecological balance of forest landscape. Therefore, it is necessary to analyze the local natural environment to ensure the healthy growth of exotic tree species before selecting them. It is also necessary to reasonably match native tree species to improve the stability of the whole natural ecological environment. At the same time, attention should be paid to the collocation of plant colors, according to the change of plant colors in different seasons, to create a beautiful garden landscape[5]. The reasonable selection of tree species can not only improve the ecological and ornamental value of garden landscape, but also avoid the death of too many tree species and reduce economic losses[6].

4. **Conclusion**

To sum up, the author analyzes the relevant measures in the integration of ecological concept into landscape design. In order to realize the garden construction, various countermeasures should be taken, such as rational selection of garden plants, coordination of internal and external tree species, and standardization of landscaping construction system, so as to contribute to environmental protection.

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