

# Strategic Analysis of Ecosystem Protection and Sustainable Growth in Internationalized Cities

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**Abstract.** Under the background of globalization, international cities play an important role in promoting economic growth and cultural exchanges. However, the stage of urbanization has also brought many ecosystem problems and challenges, such as environmental pollution, climate change and urban expansion, which seriously threaten the sustainable growth of cities. Therefore, the combination of ecosystem protection and urban sustainable growth is a necessary condition for the healthy development of an international city. Based on the above background, this paper introduces the concept of urban sustainable growth and its relationship with ecosystem protection, and expounds the importance of ecosystem protection in urban sustainable growth. Then, the paper discusses the strategies of ecosystem protection and sustainable growth of international cities from different aspects, including making scientific and reasonable urban planning, strengthening the formulation and implementation of environmental laws and regulations, promoting scientific and technological innovation and developing environmental protection industries and green technologies. Strengthening the protection of ecosystem and promoting the sustainable growth of the city is an important task of an international city. Only by taking practical and effective measures to strengthen the protection of ecosystem and promote the sustainable growth of cities can we create a better, livable and sustainable future for mankind.

**Keywords:** Internationalized City; Globalization; Ecosystem Protection; Sustainable Growth.

## 1. Introduction

With the acceleration of globalization and the development of urbanization, international cities play an important role in promoting economic growth, cultural exchange and innovation. However, the stage of urbanization has also brought many ecological and environmental problems, such as environmental pollution, climate change and urban expansion, which seriously threaten the sustainable growth of cities [1]. Therefore, it is particularly important to analyze the strategy of ecosystem protection and urban sustainable growth in international cities. In the strategic analysis of ecosystem protection and urban sustainable growth of international cities, the first thing to be clear is the contradiction between urban expansion and environmental destruction [2]. Urban expansion makes a lot of natural land occupied and the ecosystem destroyed, which leads to urban environmental pollution and climate change [3]. These problems not only affect the quality of life of urban residents, but also restrict the economic growth and social progress of the city.

In view of the above problems, international cities need to adopt a series of ecosystem protection and urban sustainable growth strategies. First of all, we should strengthen the formulation and implementation of environmental laws and regulations, limit environmental pollution through legal means, and protect natural resources and ecosystem [4]. Secondly, it is necessary to formulate scientific and reasonable urban planning, combine urban development with ecosystem protection, and ensure the sustainable growth of urban economy and the harmonious coexistence of ecosystem [5]. In addition, it is necessary to promote scientific and technological innovation, develop environmental protection industries and green technologies, improve energy efficiency and reduce environmental pollution.

Through in-depth study and exploration of the strategies of ecosystem protection and urban sustainable growth in international cities, we can draw the following important conclusions: ecosystem protection and urban sustainable growth promote and complement each other [6]. Only by

integrating ecosystem protection into urban development can the sustainable growth of the city be realized; Only by realizing the sustainable growth of the city can we better protect the ecosystem. Therefore, effective measures must be taken to strengthen the protection of ecosystem, promote the sustainable growth of cities and create a better, livable and sustainable future for mankind.

## **2. Current Situation of Ecosystem Protection in International Cities**

In the stage of globalization, many international cities attract a large number of people with their unique advantages in location, economy, science and technology and culture. These international cities include, but are not limited to, London, new york, Tokyo, Singapore, etc. While enjoying high economic growth, they are also facing severe challenges of ecosystem protection [7]. The ecological and environmental problems faced by these international cities are common. Take air pollution as an example. Due to high-density population gathering and large energy consumption, these cities often face serious air pollution problems, such as London's "fog capital" and Tokyo's "photochemical smog". In addition, problems such as water shortage, solid waste pollution, noise pollution and biodiversity loss are also common.

In the stage of implementing ecosystem protection policies, these international cities are facing many challenges. First of all, the public's awareness and participation in ecosystemal protection is an important factor affecting the implementation of policies [8]. Secondly, the conflict between economic interests and environmental protection is also a big problem. For example, some industrial production activities pollute the environment, and urban economic growth cannot be separated from these industries. In addition, the unreasonable urban planning, the lag of environmental laws and regulations and the ineffective implementation have further aggravated the pressure on the ecosystem.

## **3. The Concept of Urban Sustainable Growth and its Relationship with Ecosystem Protection**

### **3.1. Definition of Urban Sustainable Growth**

Urban sustainable growth means that the ability of future generations to meet their development needs is not damaged while meeting the current urban development needs. It includes not only sustained economic growth, but also environmental protection and social justice. Urban sustainable growth is an important part of global sustainable growth, and it is also the key to realize the harmonious symbiosis between human beings and the environment.

### **3.2. Relationship between Urban Sustainable Growth and Ecosystem Protection**

Urban sustainable growth and ecosystem protection are inseparable. First of all, the ecosystem is the foundation of urban sustainable growth. A good ecosystem can provide clean air, water and suitable climatic conditions, and guarantee the health and quality of life of urban residents [9]. Secondly, the sustainable growth of cities needs to rely on the resources and services provided by the ecosystem. For example, natural ecosystems can absorb and store carbon dioxide, regulate urban microclimate and provide diverse biological habitats for cities. On the other hand, urban sustainable growth also affects the ecosystem. The stage of urbanization is often accompanied by the change and destruction of the ecosystem. For example, the change of land use may lead to the loss of biological habitat; Urban pollution may cause damage to water quality and soil; Excessive energy consumption may lead to an increase in greenhouse gas emissions. Therefore, the sustainable growth of cities needs to be combined with the protection of ecosystem, so as to realize the harmonious symbiosis between people and the environment. The conceptual diagram in Figure 1 reflects the relationship between urban sustainable growth and ecosystem protection.



**Figure 1.** Concept map of urban sustainable growth

By deeply understanding the concept of urban sustainable growth and its relationship with ecosystem protection, this section can better understand the importance of ecosystem protection and urban sustainable growth in international cities and their mutual influence. This will provide an important theoretical basis for the subsequent strategic analysis.

#### **4. Analysis of Ecosystem Protection Strategy**

##### **4.1. Ecosystem Protection Policy**

International Cities Often Formulate A Series of ecosystem protection policies to deal with the ecosystem problems they face. These policies mainly include environmental protection laws and regulations and green tax policies. For example, Singapore has successfully protected the city's environmental quality by enacting strict environmental protection laws and severely punishing pollution. In addition, cities such as Copenhagen have implemented green tax policies to tax energy consumption and pollution emissions in order to reduce energy consumption and pollution emissions.

##### **4.2. Ecosystem Protection Measures**

In the stage of implementing ecosystem protection policies, international cities have taken various specific ecosystem protection measures. These measures include pollution control and ecological restoration. For example, London has implemented strict traffic control and fuel control, and vigorously developed public transport. At the same time, many international cities have restored and protected urban ecosystems by building parks and wetlands.

##### **4.3. Effect of Ecosystem Protection**

Through the implementation of ecosystem protection policies and measures, international cities have achieved remarkable ecosystem protection results. For example, through long-term environmental protection efforts, Singapore has successfully ranked among the most livable cities in the world. Copenhagen has reduced carbon emissions and increased the use of renewable energy through green tax policies and the vigorous development of renewable energy.

## 5. Analysis of Urban Sustainable Growth Strategy

In this section, the strategic analysis of urban sustainable growth is carried out from the following aspects:

**Table 1.** Urban sustainable growth strategy

Urban sustainable growth strategy	Implementation measures	influencing factor
Economic strategy	1. Optimize the industrial structure and layout	1. Carrying capacity of resources and environment
	2. Develop modern service industry	2. Market demand and competitive environment
	3. Strengthen the technological innovation ability of enterprises	3. Financial and policy support
Social strategy	1. Improve the living standards of residents	1. Social and cultural traditions
	2. Strengthen urban governance capacity	2. Urban planning and management level
Environmental tactics	1. Strictly control the scale of construction land	1. Natural resource endowments and ecological conditions
	2. Improve the level of ecological protection and restoration	2. Environmental policies and regulations

(1) Sustainable economic growth. In the stage of urban sustainable growth, economic sustainable growth is crucial. This includes the optimization of industrial structure, the adjustment of energy structure and the improvement of resource utilization efficiency. For example, by developing green industries and circular economy, we can reduce the dependence of traditional industries on natural resources and reduce environmental pollution. In addition, actively promoting scientific and technological innovation, improving energy utilization efficiency and reducing energy consumption are also important aspects of sustainable economic growth. (2) Social sustainable growth. Social sustainable growth focuses on the satisfaction of basic human needs, including education, medical care, employment and social security. In the stage of urban sustainable growth, it is necessary to pay attention to the quality of life of urban residents and promote social fairness and harmony by improving the level of public services and welfare. For example, provide high-quality education and medical resources, establish a sound social security system, and enhance residents' sense of happiness and acquisition. (3) Sustainable growth of ecosystem. The sustainable growth of urban ecosystem is the core of urban sustainable growth. In the stage of urban planning and development, it is necessary to pay attention to protecting and restoring the ecosystem and maintaining ecological balance. For example, measures such as increasing urban greening, protecting urban wetlands and strictly controlling industrial pollution can improve the quality of urban environment and the quality of life of residents. At the same time, it also needs to guide the public to participate in environmental protection, improve environmental awareness, and form a consensus on environmental protection in the whole society. (4) Sustainable growth of spatial layout and urban planning. Urban spatial layout and urban planning are important means to realize urban sustainable growth. Reasonable urban spatial layout and urban planning can promote the optimization of urban functions, improve the efficiency of urban operation and protect the ecosystem. For example, by rationally planning traffic networks and residential areas, urban traffic congestion and pollution emissions can be reduced; Reasonable layout of urban green space and public space can provide a pleasant living environment and improve the quality of life of residents. (5) Sustainable growth of resource utilization and energy structure. Resource utilization and energy structure are important supports for urban sustainable growth. Promoting the utilization of renewable energy, reducing the consumption of fossil energy and

improving the efficiency of resource utilization are important ways to realize the sustainable growth of cities. For example, by developing renewable energy such as solar energy and wind energy, carbon emissions can be reduced and the environment can be protected; Improving the efficiency of resource utilization through technological innovation can reduce energy consumption and improve economic benefits. (6) Policy guidance and management of sustainable growth. Policy guidance and management is the key to realize the sustainable growth of cities. The government needs to formulate corresponding policies and regulations to guide enterprises and citizens to participate in urban sustainable growth. For example, by formulating environmental laws and regulations and energy-saving standards, we can standardize the behavior of enterprises and citizens and promote environmental protection; By improving the urban management system, we can improve the ability of urban governance and ensure the stability and efficiency of urban operation. Table 1 summarizes the strategies of urban sustainable growth.

To sum up, urban sustainable growth is a complex and systematic project, which needs to start from many aspects to form a pattern in which the government, enterprises and the public participate together. Drawing lessons from the successful experience of international cities and combining with our own actual situation, China needs to make efforts in economic, social and environmental aspects to promote the sustainable growth of cities.

## **6. Effective Strategies to Achieve Sustainable Growth**

### **6.1. Urban Spatial Planning**

Urban spatial planning is the key to realize urban sustainable growth. Reasonable urban spatial planning should fully consider the balance between urban development and ecosystem protection. The following are some referential urban spatial planning strategies: green infrastructure: increasing urban green belts, such as parks, wetlands and other natural landscapes, not only provides ecological functions, but also improves the quality of life of residents. Compact city: through rational layout and efficient use of urban space, reduce disorderly spread and reduce resource and energy consumption. Public transportation: give priority to the development of public transportation and reduce the use of private cars, thus reducing energy consumption and environmental pollution.

### **6.2. Utilization of Renewable Energy**

The sustainable growth of cities needs to rely on clean and renewable energy. Some international cities, such as Copenhagen, Denmark, have achieved a significant reduction in carbon emissions based on renewable energy. The strategies to promote the utilization of renewable energy include: energy transformation: changing the energy structure from fossil energy to renewable energy, such as solar energy and wind energy. Energy efficiency improvement: through technical progress and policy guidance, improve energy efficiency and reduce energy consumption. Energy storage: develop and apply energy storage technology to deal with the instability of renewable energy.

### **6.3. Social Participation and Cooperation**

Urban sustainable growth is not only the responsibility of the government and enterprises, but also the active participation of the general public. Therefore, we should encourage the public to participate in the decision-making process, raise environmental awareness and cultivate a sustainable lifestyle. In addition, cities should also strengthen cooperation, share experience and technology, and jointly deal with global environmental problems.

## **7. Conclusion**

Ecosystem protection of international cities and sustainable urban development are mutually reinforcing and complementary. By adopting a series of strategies of ecosystem protection and urban sustainable growth, an international city can achieve a balance between economic growth and

ecosystem protection. In practice, we need to integrate ecosystemal protection into all aspects of urban development in order to realize the sustainable growth of the city; It is also necessary to promote the sustainable growth of cities to better protect the ecosystem. At the same time, ecosystem protection and urban sustainable growth is a long and complicated process, which requires the joint efforts of the government, enterprises and the public. The government needs to formulate corresponding policies and regulations to promote ecosystem protection and sustainable growth, enterprises need to actively fulfill their social responsibilities and promote green technology innovation, while the public needs to actively participate in and promote the stage of urban sustainable growth. In addition, urban sustainable growth is a multi-dimensional and multi-level problem, which needs to be considered and practiced from different angles. Drawing lessons from the successful experience of international cities can provide beneficial enlightenment and reference for the sustainable growth of China and other cities.

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