The construction strategy and measures for ecological analysis of China's ports

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The construction strategy and measures for ecological analysis of China's ports

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Abstract. The Port is an important transport hub, one of the important infrastructure of the national economy, the corresponding regional development has a great role in promoting. The construction of the port has been developed rapidly, but it has also brought about more serious environmental problems. Therefore, this paper discusses the nature of ecological ports, summarized the experience of ecological protection measures on the international advanced ports and port construction ecology. The central idea is to explore the construction of ecological port ideas and development countermeasures.

1. Introduction
The Port is an important transport hub, one of the important infrastructure of the national economy, the corresponding regional development has a great role in promoting. The construction of the port has been developed rapidly, but it has also brought about more serious environmental problems. Now, the port has been unable to meet the environmental requirements, therefore the port must be consider the transition. Whether the environment and the port can be coordinated has become a hot issue, therefore, the ecological port came into being.

2. Development Status of Foreign Ecological Port
Developed countries have put forward the construction of ecological ports, the environmental protection work to the port to the overall planning, design, construction and operation, the concept of sustainable development applied to the port construction, making the ecological port quite effective.[1] New Jersey Port, New York, US. The construction of the ecological port of the New Jersey Port Authority is based on the relevant environmental management system of the perfect ecological port. First, through the external publicity and the internal staff training, the whole concept of sustainable development has been greatly increased and integrated into the whole port development. Followed by the expansion of high-speed railway and the improvement of port logistics and so on measures, greatly promoted the ecological port built in the development of such a set of sustainable development concept has been provided.
Tokyo Port, Japan. The port to the environment as a starting point, planning a meticulous on the port of the green park planning, green space planning line, line, surface, and connected to form a large network
of green space system. Coastal and water landscape protection development as the focus of environmental construction, beach restoration has also been taken seriously, in addition to the port and environmental planning combined, the environment and port development combined, this series of measures makes the ecological port Of the built to be guaranteed.

Throughout the world some of the Western developed countries, ecological port construction has become increasingly mature, can be a good idea of sustainable development into the daily construction and movement, but also has its own management of the port regulations and policies. Such as the US federal government and state government environmental agencies have made clear environmental protection targets for the port to improve the target and to enforce the relevant measures. Regulatory authorities have also been strict inspection and review of port environmental protection, Environmental management and strengthening of these ports can do their own, It can be said that this environmental awareness has entered the entire operation process, in addition to the government and the community have the full support. It can be said that the Western developed countries of this series of related measures on the one hand by the development of modern port adaptation, On the other hand also reflects the true meaning of the ecological port.[2]

3. Current Situation and Problems of Ecological Port Development in China

3.1. Current Situation of Ecological Port Development in China

Compared to the western developed countries, China's ecological port is really a starting stage, they are mainly in Tianjin, Shanghai, such a large port.

In 2005, The Shanghai Port began to carry out the green port construction planning related research, of which the ecological port as the core issue of research,and Explore some of the relevant environmental protection programs. Tianjin Port has done a lot of effort to optimize to optimize layout, specifically divided into the Beijiang and Nanjiang region. At the same time to promote the construction of cargo facility for green building in this area increased investment. Qingdao port adhere to science and technology, talent policy, ideas innovation, scientific and technological innovation, through the development of science and technology out of their own characteristics of sustainable development.

3.2. The Problems in the Development of Ecological Port in China

At this stage, China's Port from the second generation to the third generation of port transition period, Compared with the western countries, China's ecological port construction of the degree of attention there is still a certain gap. For a long time, the lack of environmental awareness, in the port production is not the pollution treatment facilities within the scope of consideration, The entire port construction without ecological port awareness, the overall still remain in the pollution control and port area of greening, so that the overall port of China is facing extremely serious environmental problems. Not only that, the academic aspects of the lack of ecological port planning and design research, there is no complete sustainable development and ecological construction of the port system. On the ecological port development, construction, planning and operation of the evaluation index is not enough in the science, in addition, the government departments are also lack of ecological port-related aspects of the construction of the regulations, etc., on the ecological green-related publicity is also less.
4. Suggestions and Measures for the Development of Ecological Port in China

4.1. Building a resource-saving port
From the port planning, layout to the construction, production, the full implementation of environmental protection measures, the implementation of the whole process of environmental supervision and management, to achieve the port of conservation development, clean development, safe development and sustainable development. To achieve the port economic, social and ecological benefits together to improve. For the relevant ports and enterprises of energy-saving emission reduction and related environmental protection standards, regulations, etc. to do a good job in the implementation of the work, the real eco-friendly, environmentally friendly port construction standards, complete laws and regulations, law enforcement supervision and management system effective.

4.2. To carry out ecological port planning research, the establishment of ecological demonstration port area
Planning is the port construction and development of the action guide, to carry out ecological port planning research work is the construction of China's ecological port of the most powerful support. In the investigation and evaluation of the ecological environment in the harbor area, the study of the environmental capacity of the harbor area, the environmental impact analysis of the port construction and the assessment of the value of the marine ecosystem services and the analysis of the ecological port construction mode and experience in foreign countries, Follow the different functional types and geographical environment of the port to formulate the corresponding work points and priorities. For the ports that have been built and planned, the corresponding ecological construction requirements and strategies should be formulated according to the different construction period and operation period and the port ecological function Planning and factor allocation principles.[3]

4.3. Scientific layout, optimization of port resource allocation
Contemporary high-speed development of science and technology at the same time more close to the relationship between human and nature, Therefore, it is necessary to do a good job in the requirements of the scientific development concept under the port resource recycling system, including the port planning, construction and production of the whole process will be closely linked with environmental protection projects. To further coordinate the relationship between port development and resource utilization, to carry out performance supervision and management of the whole process of port construction and operation, to solve the phenomenon of overcapacity caused by the irrational allocation of resources in China's port, so as to realize port resources Rationalize the configuration.

5. Conclusion
China's basic national policy is resource conservation and environmental protection, therefore, in the new era of green eco-friendly port is not only the development needs of the times, but also The rapid development of economic high-speed globalization today has enabled the port's core competitiveness to be enhanced and sustainable development to achieve the fundamental path in the port.

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