Thoughts on Constructing Ecological Logistics Park Based on Supply Chain

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Abstract: In recent years, the phenomenon of "haze, air pollution and traffic jam" has gradually deteriorated, which seriously affects the health and safety of residents and the efficiency of logistics operation. Data show that: 2016, China's automobile exhaust emissions of 120 million tons, carbon emissions of 13 billion tons, accounting for 28% of global carbon emissions, logistics industry accounted for 18.9%. 2017 "two sessions" period, Premier Li Keqiang stressed the need to strengthen air pollution control, optimize the energy structure, to achieve sulfur dioxide, nitrogen steadily decline, the proportion of clean energy consumption gradually increased. Over the past two years, the "supply side" reform, economic downturn, economic restructuring, "high energy consumption, high pollution" industry is facing the winter, the logistics industry has become a new economic engine. Logistics Park as an important carrier of the development of the logistics industry, build "eco-logistics park" is the logistics industry to "smart, saving, environmental protection," an important part.

Introduction

Logistics process is complex, the goods from the supply to the consumption of the entity flow process contains transportation, storage, handling, handling, circulation processing, information processing many links, is a systematic process. To some extent, the logistics park similar to the human body, logistics enterprises, logistics line is equivalent to "seven by eight pulse", a large number of logistics enterprises and logistics line convergence of a place to form a logistics park.

the ecological logistics park connotation

Narrow understanding, eco-logistics park is the logistics gathering place to achieve conservation, clean.Broadly speaking, eco-logistics park is through the organization and management in several forms of transport to form the logistics node activities of the space aggregator to achieve the ultimate "saving, green, environmental protection" purposes. The essence of eco-logistics park is to realize the improvement of logistics technology and service level through resource integration, to share relevant facilities, to reduce operating costs and to increase economies of scale so as to maximize the overall interests of the whole stakeholders.

the logistics park activities of high energy consumption reasons

China's high cost of logistics, energy consumption, high pollution mainly from the following aspects:

information asymmetry, low degree of information technology. In the logistics supply chain network system, the collection of logistics, business flow, capital flow, information flow, the current logistics park in the enterprise small size, relatively scattered, low culture of employees, there is not enough money to buy or learn to operate a Set of modern information systems, low degree of information, hinder, weaken the logistics resource allocation efficiency.

transport equipment, high energy consumption. Logistics Park, the vast majority of transport vehicles are gasoline and diesel as the driving force, the number of new energy transport vehicles is very small, "bulky, heavy load, large displacement" is the basic characteristics of logistics and distribution vehicles, and many vehicles in the park for many years , Disrepair, poor performance, no doubt to the park "high pollution, high energy consumption" worse.

logistics operation convergence unreasonable. Logistics, logistics, logistics and other management software, can not accurately understand the number of goods inventory, vehicle resource allocation, customer demand for materials, vehicle distribution and other aspects of loading and unloading and other links, prone to "black hole in the logistics " The market demand can not quickly respond to reduce their own corporate brand influence. Information is not smooth, the goods can not be a reasonable allocation of resources, transportation, transit, handling and other links can not be effective convergence, resulting in duplication of construction and waste of resources.

the system is unreasonable, low degree of standardization. Compared with developed countries in Europe and America, China's logistics industry, a low degree of standardization, transport tools, standard box model, size, road, track different regions between the different standards, in the vehicle transit, rejection, cold chain transport links can not be effective convergence Need to be repeated packaging, secondary handling and handling. In addition, China's logistics policy, the system in accounting, construction support, financial subsidies is not perfect, this time hot logistics "car carrier" is an example.

The ecological logistics park construction

Construction of eco-logistics park must be government, logistics park, logistics enterprises, consumer terminals integration and connectivity, to create closed-loop logistics chain and the ecological circle(shown in Fig.1). Can start from the macro, micro two levels:

macro level

Formulate logistics policy, encourage enterprises to new energy transformation. The government to develop relevant logistics policies to encourage enterprises to "clean" direction of the operation, the use of new energy, pollution, low energy consumption of enterprises or parks to give tax incentives or financial support; development of logistics park carbon emissions standards, more than the emission standards given to a certain Penalties, more stringent point of high emissions, high energy consumption of enterprises or parks to take carbon emissions limit, more than a certain amount is to cancel operating qualifications, forcing enterprises or parks to green, environmental protection transformation.

Promote logistics standardization, planning and construction of the corresponding infrastructure. As the standard is not uniform, the logistics operation process will often cause a lot of unnecessary waste, logistics standardization for reducing costs, improve the quality of running is essential. Standardization must be government-led implementation, strengthening infrastructure investment, planning and construction of pile and other infrastructure. Through the training to support new energy leading enterprises to promote the development of green logistics, such as the

wisdom of logistics new energy vehicle rental platform "eight horses" in the logistics of new energy vehicles operating on the first step, the next three years will invest 5,000 new energy vehicles, the current "Eight horses" have 281 different types of vehicles, which requires the government to develop logistics vehicle standards, to avoid non-standardization caused by waste.

micro level

Park to strengthen the information construction, the use of electronic orders, reduce the use of paper. In the park information construction to increase capital investment, build logistics information platform, integration of park logistics resources, the use of information systems for "paperless" operation, improve logistics efficiency.

The park as far as possible the use of new energy vehicles, to the "clean, environmentally friendly" transformation, and promote information sharing, and vigorously develop the common distribution, centralized transport, reduce the cargo transport no-load rate. And the new energy vehicle rental platform to cooperate to form a set of transport ---- loading and unloading ----- rental ----- maintenance as one of the "one-stop" service chain, powerful combination, the formation of strategic alliances.

Use environmentally friendly new materials to avoid excessive packaging. At present, the logistics market "over-packaging" phenomenon is widespread, most of the demolition of the package directly into the trash, and ultimately return to the garbage station, did not form an effective recovery. Logistics park every day a large number of express mail needs to be packaged with the packaging enterprises to develop and use of biodegradable materials for packaging, the establishment of recycling mechanism, classification and recycling, repeated recycling, both to reduce packaging costs and reduce environmental pollution, Form a win-win situation.

Create a closed loop logistics chain. Logistics park, logistics enterprises, packaging, consumers, recyclers to form a complete logistics and distribution chain, to avoid the logistics in all aspects of waste, rational allocation of resources, take care of the interests of all parties, and ultimately to maximize the overall benefits.The model diagram is shown in Fig.2.

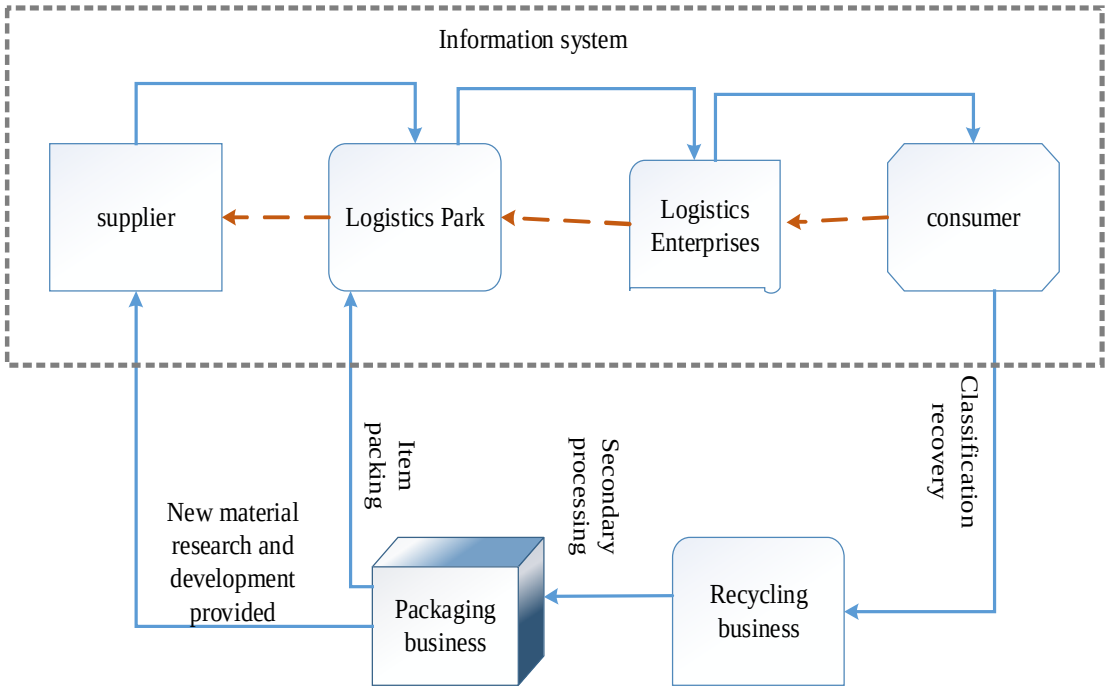

Fig.1 Construction of eco - logistics park circulation flow chart

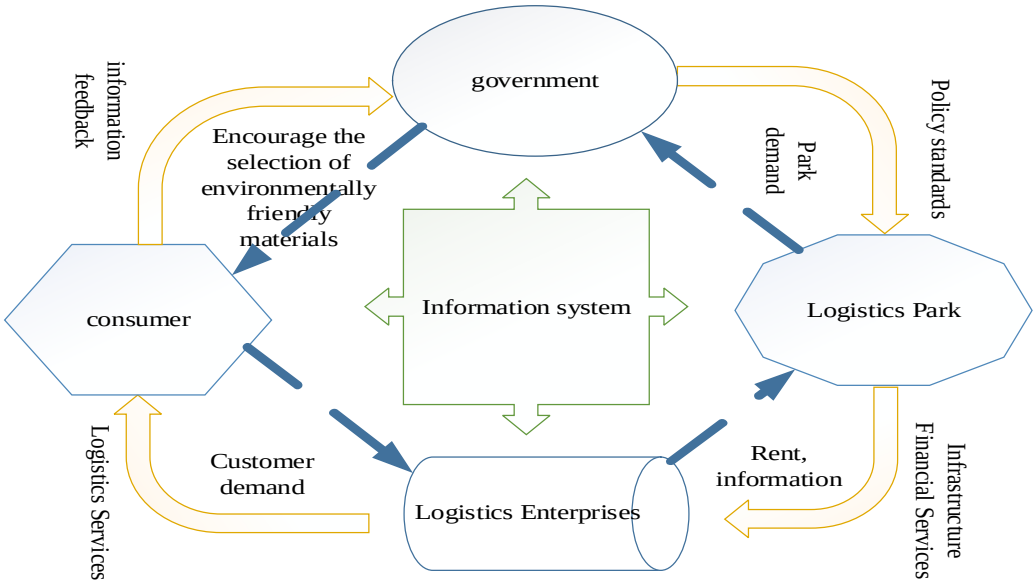

Fig2.Logistics Park Ecological Model

the ecological logistics park construction on the impact of industrial development

Construction of eco - logistics park is the logistics industry healthy development and intelligent logistics construction of the inevitable requirement, must have a clear understanding and action. However, due to the low level of development of China's logistics industry, industrial transformation and upgrading of a longer process, therefore, eco-logistics park construction is bound to have a certain impact on industrial development, need to pay attention and efforts to be resolved.

job reduction. Eco-logistics park will make the park to form a closed-loop eco-logistics chain, each link to achieve seamless convergence, to avoid duplication and waste of resources.

Closed-loop logistics chain eco-logistics park cluster logistics information, standardization, intelligent campus and logistics mechanization, the formation of a highly efficient logistics ecosystem, part of the job disappeared, reduced staff demand.

short-term economic benefits decline. Logistics park to the "new energy" transformation of the inevitable need to invest a lot of money, technology upgrades, new energy vehicle replacement, information system upgrades, infrastructure construction, short-term time will give logistics park or business business impact, economic benefits Down.

the practitioners demanding high Eco-logistics park is one of the main objectives of energy-saving emission reduction, the need to use the "carbon footprint" of the various logistics aspects of the calculation, targeted meticulous analysis, reasonable arrangements, planning and management to reduce carbon emissions. To this end, the need for practitioners on the logistics process, technology, equipment familiar with the higher requirements of practitioners.

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