

Source Management Policy of Construction Waste in Beijing

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Abstract

By introducing the current situation of source management of construction waste in Beijing, problems and loopholes in management were point out. Drawing on the general specific policies and advanced experience in source management in Japan, America and Europe etc, source management policy of construction waste in Beijing were put forward.

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1. Experience in source management of other countries

1.1 Japan

In Japan, laws on refuse disposal and sweep were formulated in 1970. In 1991, 《Law on Promoting Resource Reused》 was formulated, and it determined that, construction waste produced in the course of construction, such as dregs, concrete block, asphaltic concrete block, woods, metal and so on must move to recycle facilities to dispose. In 1997, Japan determined that construction waste produced in the course of construction, such as concrete block and asphaltic concrete block, should be reused, 《Plans on Promoting Recycle Use of Construction Recourse》 and 《Law on Resource Utilization of Construction Materials》 were formulated. According to the statistic of Japan Ministry of Construction, recycle rate of construction waste reached 80% in 2000. The lead guidelines of construction waste in Japan: Discharge of construction waste at construction site as less as possible; Recycle of construction waste as much as possible; Build owner or demolition organization which has difficulty in recycle should be dealt with properly.

1.2 America

America pays special attention to source reduction, from standards to the policies and the laws, from government's control measures to enterprise's self-discipline behavior, from construction designs to spot construction, from choosing building materials by survival of the fittest to field use specification, they all limit the production of construction waste, encourage and reward for "zero discharge" of construction waste. Developer is responsible for the separation, transport and paying disposal of construction waste in order to reduce resources exploitation, production cost, transportation, and environment destruction, which is more effective than end treatment for a long time.

1.3 Europe

A look at Europe, in 10 years recently, recycle rate of construction waste is up to 80%. Many countries and local governments take recycle of construction waste as a condition of approving new building programs.

In 2007, the British government discusses the British refuse strategy, a profession frame document will finally be achieved. That is, the total quantity of landfill refuse in 2012 will be the half of that in 2000, and in 2020, achieved zero landfill, or the refuse balance goal. It means that the output of construction waste cannot surpass gross of recycle materials. In order to meet the objective mentioned in the document, government introduces contract requirements, evaluates and improves energy efficiency of the programs, of which contract value is more than 1,000,000 pounds (210,000,000 dollars), and implements Solid Waste Management Plan (SWMP).

Danish government issued a public notice in 1995 that local government should formulate local laws in the condition of observing 《The Law on Environmental Protection》, demolishing programs, of which output of construction waste is surpass a certain scale, should submit disposal plan in advance, and is asked to separate at construction site and recycle come components. By levying landfill tax, Danish and Holland promote the recycle of construction waste, at present, the recycle rate of both countries is up to 90%. In addition, some countries implement reduction of tax or reward measures to recycle activities. In Holland, if the contractor uses the recycle materials instead of natural materials in the project, the government will give certain bonus as an incentive; Denmark and Britain have promulgated tax plan of natural materials to further reduce the cost difference between recycle materials and natural materials.

In brief, to the disposal of construction waste, the developed countries implement source reduction strategy, that is, reduce the construction waste by science management and effective control measures before it is produced, and to the produced construction waste, using effective technology to make it become recycle resource, in order to save resource and energy.

2. The current situation and problems of source management of construction waste in Beijing

2.1 The current situation of source management

According to 《Regulations of Beijing Municipal People's Government on Strengthens Management of refuse and Dregs》, construction units which produce construction waste and dregs, should apply dregs disposal permit from district, county, or city municipal administration department; individual who produce construction waste and dregs in the course of repairing and decorating house should apply dregs disposal permit from district, county, or city municipal administration department; construction units which produce construction waste and dregs should go to approval department with relative materials like

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