

ANALYSIS ON SOLID WASTE EMISSION AND MANAGEMENT IN THE DEVELOPMENT OF BEIJING CITY

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Key Words: Material metabolism, large city, solid waste management, Beijing.

Beijing, as a typical large city of China, is experiencing a transformational development that huge change occurs in the industrial structure and the city infrastructure. It will have an impact on the resources consumption and solid waste management of Beijing. Based on the data of city development and resources utilization in 2010-2014, this research analyzes the relationship among the different solid waste types, resources consumption and industry development on the premise of sustainable industrial structure adjustment by the methods of the material flow analysis and scenarios analysis. The results show that: firstly, Beijing city has become a typical city relying on resources consumption, with a slow growth of the waste solid emission. Secondly, construction and demolition waste has become the major solid waste in total amount, while municipal solid waste is still the major solid waste in the central urban. Thirdly, a larger reduction of solid waste landfill would be obtained by adjusting the mode of resources recycle, utilization and disposition. The potential reduction of solid waste landfill is estimated to be above 10 million tons in 2020.

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