

3R GOOD PRACTICES IMPLEMENTED BY NGOS/



3R Good Practices in China

NGO /CBO	Biomax Environment Holdings Limited
Activity	Transforming waste into non-hazardous materials and resources
OUTLINE OF 3R GOOD PRACTICES	
Keywords	Solid waste ,Organic waste, Biogas, Anaerobic digestion
Country	China
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Waste Sector	Municipal solid waste
3R Practice	Recycling, Composting
Website / Data Source	WWW.Biomax.com.hk

OVERVIEW OF PRACTICES

Introduction

Biomax Environment Holdings Limited is a company specializing in providing waste treatment solutions to the municipalities in China with a focus on waste-to-energy arena. With in-depth studies of the city's economy, community, planning, resources, geography and environment Municipal Solid Wastes (MSW), comprehensive treatment solution can be tailor-made to integrate into the city's planning and meets its requirement in waste management system, transforming waste into non-hazardous materials and resources , MSW comprehensive treatment solution is a renewable energy plant. In respond to the waste characteristics of most cities in China, the Company fully utilized Europe's cutting-the-edge technologies through integrating Anaerobic Digestion Treatment Technology and Incineration Waste-to-Energy Technology to achieve our goal.

3R Good Practices

Shanghai Putuo MSW comprehensive treatment plant project adopts European advanced anaerobic digestion technology, by which MSW is sorted out and recycled the usable firstly, and then organic compound is fed into the anaerobic fermentation system. Through the dry anaerobic digestion, methane is produced and via gas Internal Combustion Engine (ICE), electricity is generated for transmission. After digestion, the residues are used as fertilizer through post-treatment process such as dehydration. Recyclable materials, such as paper, coca bottles and beer bottles, etc. in the MSW are brought to the package workshop and bond together evenly; then they are transported to garbage center for recycling. This project is the first comprehensive treatment plant in China implementing biochemical treatment.

Outcome of Practices

Shanghai Putuo MSW comprehensive treatment plant adopts world advanced Mechanical Biochemical Treatment (MBT) technology. The core of the technology is an anaerobic fermentation treatment patent process, which utilizes waste resources to maximum degree. This plant can treat 268,500 tons waste per year and generate electricity power of more than 41,000,000 kWh for east China where electricity supply is shorted. Additionally, it can produce 40,000 tons of nutrient soil per year. Moreover, it can also produce recyclable materials such as paper, plastic, metal, etc.



Waste Collector



Sorting system



Digester

Generator



Recycling

Compost