

3R GOOD PRACTICES IMPLEMENTED BY NGOs/



3R Good Practices in China

NGO /CBO	Shanghai Minxin Environmental & Sanitation Engineering Company Ltd.
Activity	Recycling food wastes for animals feeding
OUTLINE OF 3R GOOD PRACTICES	
Keywords	Food wastes ,recycling, forage
Country	China
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Waste Sector	Food wastes
3R Practice	Recycling
Website / Data Source	Not Available

OVERVIEW OF PRACTICES

Introduction

Shanghai Minxin Environmental & Sanitation Engineering Company Ltd. (SMESEC), which was established in 1998, is a private scientific and technological enterprise involving in technologies on the fields of urban sanitation, municipal solid wastes disposal and waste recycling especially for agricultural wastes.

3R Good Practice

In 2001, SMESEC Ltd. developed its first set of equipment for recycling food wastes to produce foods for animal with capacity of 25 tons per day. The production line was installed in Luwan district, the centre place of Shanghai. The feedstocks for the production are collecting from large canteen, refectory and restaurant residues. The operation of different equipments is controlled to be under fully-closed conditions, avoiding odor and residue leakage. From the inlet to the output of products, each step of the process is operated on one successive production-line, and the process is also auto-controlled directly by central controlling room. In 2004, this project has been regarded as one of the high-tech transformation projects of Shanghai, the technology of which reached international advanced level. This project in association with Torch Program Project of Shanghai also has been selected to be the Technology Innovation Fund Project of high-tech small to moderate enterprises by National Ministry of Science and Technology (NMST) and Ministry of Finance (MoF) of China. Likewise, this company also built successfully another production line with capacity of 50 tons per day to treat food wastes. Presently, they are developing a new production line with treatment capacity of 100 tons per day to solve food wastes problem in Shanghai.

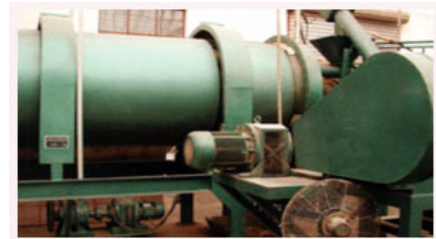
Outcome of Practice

The whole food recycling system utilizes nutrients and discharges the unwanted residues such as plastic bags and napkins from food wastes. It can recover three different kinds of products from one production line because of the different composition of food wastes. Therefore the cost of production is lowered and the benefit of enterprise is enhanced.

- Due to the special characteristics of food wastes in China, the recycling of such wastes produces the foods for animals with high content of calcium, phosphorus, iodine, manganese etc.
- Such wastes are not suitable for the digestion due to high contents of oil, salt and protein.
- All the fat and mineral elements can be recovered through such recycling of food wastes.



Food wastes



Production line



Products

