

## 3R GOOD PRACTICES IMPLEMENTED BY NGOs/



### 3R Good Practices in China

<b>NGO /CBO</b>	Shanghai Light Industry Glass Corporation Limited
<b>Activity</b>	Recycling of waste glass bottles
<b>OUTLINE OF 3R GOOD PRACTICES</b>	
<b>Keywords</b>	Solid waste ,waste glass, recycling
<b>Country</b>	China
<b>Area Implemented</b>	Minghang District Shanghai
<b>Address</b>	No. 51 , Zhuhang Rd, Minghang District Shanghai, PRC 200237
<b>Phone</b>	86 21 64103894
<b>Fax</b>	86 21 64537058
<b>E-mail</b>	Not Available
<b>Contact Person</b>	Lu Rongkang
<b>Waste Sector</b>	Municipal solid waste
<b>3R Practice</b>	Recycling
<b>Website / Data Source</b>	Not Available

## OVERVIEW OF PRACTICES

### **Introduction**

From 90th century, Shanghai Light Industry Glass Corporation Limited (Ltd.) cooperated with Shanghai City Appearance & Environmental Sanitation Administration Bureau (SCAESAB) to set up this company, whose name is Shanghai Shenheng Glass Corporation Ltd. This company is a complementarily to Municipal Solid Waste (MSW) on sorting, collection and its purpose is to collect and utilize waste glasses. The recycled waste glass bottles were washed and milled into powder in the factory and then send to bottle manufacturers to produce beer bottles, milk bottles and beverage bottles.

### **3R Good Practices**

Shanghai Shenheng Glass Corporation Ltd is the only company that is specialized in dealing with waste glasses recycling and reproduction in Shanghai, even in the east area of China. Located on the northeast of Shanghai, it occupies 15000 m<sup>2</sup> of land with 7800 m<sup>2</sup> its building area. The company holds three production lines. The total production capacity of them is up to 150,000 tons per year. From the year it established, the accumulative total amount of waste glasses it has re-produced and treated is 520,000 tons and the waste glass particles manufactured is served as the feed material of glass manufacturing enterprises.

### **Outcomes of Practices**

Waste glass recycling, which can save resources, is an item of sustainable development strategy for bringing benefits to our future generation. Not only the waste glass recovery process can save nation resources, but it also benefits for environmental protection. It is estimated that every ton of glass bottles produced by the recyclable glass particles can save 682 kg quartz sandstone, 216 kg pure alkali, 214 kg limestone, 51 kg feldspar powder, 1000 kg standard coal and more than 400 kWh electricity. Calculation of all these resources in RMB shows that this waste glass recycling can save production cost of 141 US \$ per ton (980 yuan per ton). Taking the production capacity of Shenheng company 150,000 tons per year into consideration, it can save 27.67 million US \$ per year (192 million yuan per year) from production cost and waste glass landfill cost.



**Waste glasses**



**Sorting system**



**Products**