

# The Lund recycling system



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One of the most common daily chores is to take out the garbage. Every day we produce waste, more or less. And the way we act is a choice that can affect the future. Recycling has become a very important environmental issue. An active action affects how our tomorrow will be with a sustainable society.

To make it easier for small households we have developed a system to aid the recycling in the convenience of their own home. The system uses two bins that are divided in 4 compartments, where every compartment has a designated waste material. This allows for collection of eight different fractions. Emptying is done with 4-compartment vehicles that empty all four fractions in the bin in one single cycle. The vehicle has divider walls, thus making mixing of fractions virtually impossible.

Our solution saves on transports which lead to less pollutants in the air. We don't need one vehicle per fraction, which minimises the traffic from heavy trucks. The majority of our collection vehicles are natural gas powered, and as soon as biogas becomes available in Lund we will move over to biogas power.

This means our customers doesn't have to load their cars with recyclable materials, and drive several kilometres to a central recycling centre. The users conveniently recycle everything right outside their own door. All in all the result is a large reduction in transports.



# System Facts

## Advantages

- \* Reduce transports
- \* Door step collection
- \* User friendly
- \* 2 x 370L bins
- \* Separate inlay container
- \* Divider wall
- \* Three wheels

- \* Bin 1  
Household waste  
Food waste  
Colour Glass  
Plastics
- \* Bin 2  
Paper  
Cardboard  
Clear glass  
Metals

## Placement

Requires more space than traditional solution  
Hard ground surface  
Old solutions might not work, built in bins etc

## Collection Vehicle

- \* Compresses all 4 compartments
- \* Emptying bins from behind
- \* Emptying in one cycle
- \* 4 separate hinged doors

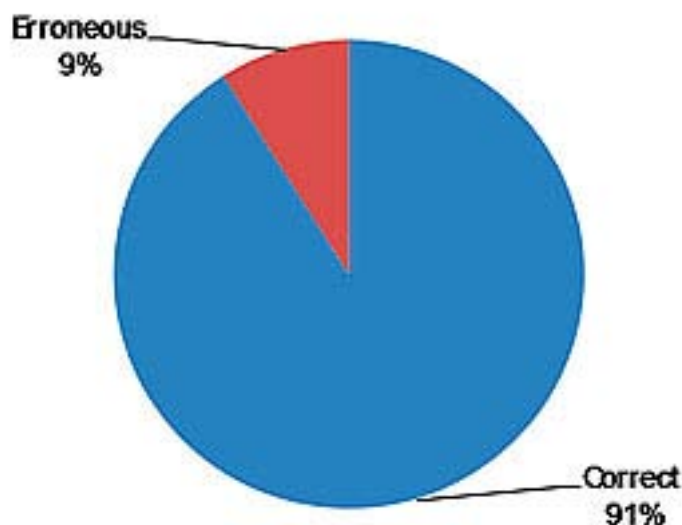




# Result

This solution let us collect a pure high quality fraction. The simplicity and close proximity of the system enables a higher quantity of materials, and the customers motivation to recycle rises. Higher qualities and quantities means less work at the recycling companies, and most important, less waste that needs to be incinerated.

**Purity of collected fractions**



## What we collect are recyclable materials:

Packaging made from metal,  
cardboard,  
plastic,  
coloured and clear glass,  
paper,  
food waste and  
household waste.

The recyclable materials are delivered to recycling companies. The food waste is treated in a reactor to produce biogas and also bio fertilizer. The household waste is incinerated to produce hot water for district heating and also electricity.



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