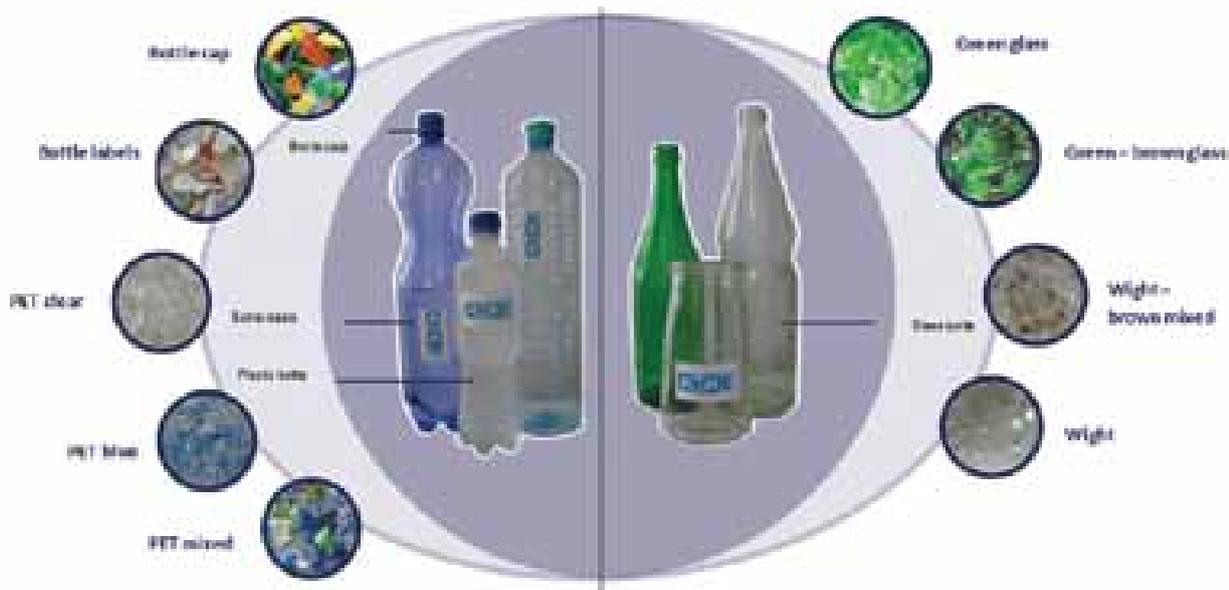


# HUKE Magazine



Entire waste  
management from  
a single source

**Issue 2012**



[www.huke.hu](http://www.huke.hu)





## HUKE Group

**In 2011** we successfully brought the technology in our company up to date.

The waste economy changes more and more into a raw material economy. That means waste is converted into raw materials, so natural resources, energy will be saved, and the CO<sup>2</sup> output will be reduced. Altogether the HUKE group has collected more than 250.000 tons of Hungarian waste. Thereof more than 51 % could be recycled and at the same time we saved around 130.000 tons of CO<sup>2</sup>.

An essential point is also the quality of the recycling process. Our target is to reach the highest output quality with a high-tech recycling process.

Recycling products with high quality can be used as raw material replacement at the new production.

So everyday used objects like PET bottles, glass bot-

ties, aluminium cans and paper, can be taken nearby without any loss for the production of new products.

In the year 1993 the first container for the selected waste collection was placed by us. At this time there were many critics, which thought that my ideas were unconvertible. Therefore we are especially proud, that we are running the house waste collecting in Hungarian since more than 20 years successfully. Since the beginning, the collecting quality constantly improves. (in Hungarian the collecting quote of packaging waste is at the moment 35-40 kg per inhabitant and year). In West European countries (Austria, Germany, Holland, etc) the collecting quotes are even better. (per inhabitant 150 – 180 kg / year).

In West Europe the residual waste amounts are essential

lower because of the higher collecting quotes.

By a 4 to 6 weekly collection interval of the residual waste ton.

That means that the population is moved by a lower residual waste volume to recycle.

Especially important for us is the information and motivation of population. In these areas we want to put our attention in the near future.



CEO Rudolf Wiedner



## PET bottle recycling



### We sell:

PET Flakes clear  
PET Flakes light blue  
PET Flakes colored  
PET Flakes brown

### We buy:

PET bottles clear  
PET bottles light blue  
PET bottles colored  
PET bottles brown

### Plant capacity

18.200 to / year  
PET bottle Input



### Sárvári HUKE Kft.

**At our location** in Sárvár is our high modern recycling plant for PET bottles. With this plant we are able to recycle PET bottles on the highest level of technology. With the high technology we achieve first class quality.

We are particularly proud that we are able to document the quality of our products and work by different certificates for instance PÜG and EUCertPlast.

By the institute IIP we are certificated for the Italian market.

We reach this significant recycling amount by running a four shift operation.

It is very necessary for us that the quality improves. We manage this by an intern labor, where each output material is checked.

The produced PET Flakes are suitable after treatment for food packaging.





## Glass bottle recycling



**We sell:**

Broken shards:  
clear, brown, coloured

**We buy:**

Glass bottles:  
clear, brown, coloured

**Plant capacity**

30.000 to / year  
or rather  
60.000 to / year



### Vasi Consulting Kft.

**Since 2010** we are operating in Zalaegerszeg one of the most modern glass bottle recycling plants in whole Europe.

Currently we run our plant in a 4-shift operation. Every day approximately 80 tons of glass waste is prepared.

We are producing 3 products: clear, brown and coloured broken shards.

Quality is our number one priority.

Next to the manual sorting we have also different high modern sorting machines. Just this combination ensures an optimal quality. Our broken glass is prepared in Europe's biggest glassworks and is used for the glass bottle production.

With this top quality it is possible to use 83 % of the bro-

ken shards for the production of new bottles.

That means that only 17 % of new basic materials are necessary.

It is an enormous advantage that raw materials, for example quartz, soda and so on, so energy for production can be saved.

The production of broken shards, which corresponds to the quality requirement of the glassworks is a big challenge.

The limit for stones, ceramics, china is very low and are only reachable with the combination of perfect work and machines.





# Composting



**We sell:**  
Compost

**We are collecting:**  
Biological waste  
Green waste



Ketéh Kft.

**In our own** composting plant, which we run since 2004 in Keszthely, we have the possibility to deposit biological waste and lop.

Thanks to our well trained employees we have the approval for the compost production.

We mix the delivered wastes to get an optimal result.

After this, the rotting process, which takes 3 weeks, can start.

To meet the optimal degrading conditions, we constantly measure the temperature and the oxygen content. Only under the best circumstances, a successful decomposition is possible.

By transposing the windrow compostings the compost is enriched new oxygen and

so the decomposing process is accelerated.

Only by a good mixing a good product is possible.

All parameter be accurately controlled and after the finished compost is used in the garden, on open space and on agricultures for soil improvement.

For all, who are interested we have detailed instructions for the optimal compost use.





## News



**We are collecting:**

- Biological waste
- Residual waste
- Packaging waste
- Paper
- Metal
- Bulky waste
- Hazardous waste

### Waste-Collecting-Bike

**Our waste** collection bikes are brand new.

We use these bikes in Keszthely and Sárvár for emptying of smart waste container in the streets and on sidewalks.



The special built bikes are very friendly for the environment.

Our plastic composters are characterized by their long life, the simple assembly and they are inexpensive.



### Plastic – composter made out of waste

**Our plastic** composter characterized by their long life, the simple handling and they are inexpensive.





## Further activities



### Plastic application

**The HUKÉ** Group is able to deposit nearly all kind of plastic packaging waste and also technical plastics.

For example:  
LDPE, LLDPE, HDPE, PP, PS, PVC, ABS, PC, ABS&PC, POM and so on.

By the REACH regulation an uniform and high quality ap-

plication can be guaranteed for whole Europe (without registration no recycling).

To prepare the plastic special machines, like several mills, extruder, agglomerates and washing systems, are available to us.

Plastic is a high quality and important raw material.

### Matured forest

**Wood wastes** are often underestimated in the waste application. But it plays a major role for the environment. Matured forest is an important secondary raw material for the production in the timber industry.

Shredded wood wastes can be used in biological heating plants to produce heat and energy.

Wood is a renewable resource and so CO<sup>2</sup> neutral.



## Aluminium cans application



### Can to Can!

**Another** very important column of HUKÉ application is the collecting and treatment of aluminium cans. Annually we gather approximately 1.500 tons of aluminium cans.

These are sorted by us very complex and pretreated to be subsequently brought to a treatment facility, where the cans are changed into new beverage cans almost without loss.

Through this technology, the aluminium remains completely preserved.

The new generation of aluminium cans is a very expensive procedure and by the recycling two-third of the new generation costs can be saved.

It not only saves costs, it also valubles energy and raw materials.

To meet the requirements of the new production, we must meet stringent quality requirements.





## Innovation



Samples for div. tests



### Roofing tiles made out of plastic

**One of our** companies (MPG Polimer Gyártó) is specialized with the development and production of plastic roofing tiles.

Together with several experts, we improved the properties and the composition of the roofing tiles.

So we are able to set new standards for the European Market.

After series of quality audits we have successfully passed the EMI certification.

Early 2012 was first presented our product on several measures in whole Europe, where this roofing tiles have impressed.

On the basis of the strong demands we try to switch the planned production start from autumn into spring.





## Events

- **Sárvár Roadshow**



- **Open day at the collecting point in Zalaszentgrot**



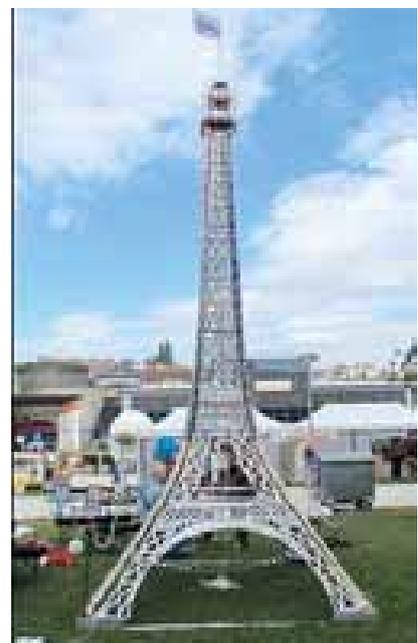
- **President of EUPR hands over the EU certificate for the PET bottle plant in Sárvár**



- **Factory tour with the deputy governor and a Chinese delegation from the region Yubei ( 30 million inhabitants)**



▪ National Geographic ÖKODAY in Millenáris on 10.09.2011 (Budapest)





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