



Asker
kommune

Sorting at the source 2011



Sort waste – create value!

Join our great local environmental project



Are you ready to join this great local environmental project? I am. I'm looking forward to getting started – and I wish all my fellow Asker residents good luck!

I must admit that I'm really hooked on cleaning up and sorting things. I sort paper, plastic, clothes, used batteries and empty milk cartons. And now I'm ready to start sorting kitchen waste!

This year all Asker residents will receive new outdoor rubbish containers, and we will also start sorting kitchen waste. We will be given a sorting guide, a kitchen waste basket and bio-bags for indoor use. Most other municipalities do this already; finally it's our turn too.

"Sort waste – create value" is the local authority's slogan for this project. I like the sound of that! There are benefits to be gained from utilising resources in the best way possible, and we can contribute by starting in the kitchen. It could hardly be simpler. An extra bonus is that we also learn to be more aware of our consumption and what we throw out.

And this has value. The paper we sort can be made into paper again. Plastic can be used to produce a new plastic bottle or lots of other things.

Kitchen waste we throw out can be made into biogas so that buses can use it as fuel, and it can also be used as an extra nutrient for the cultivated fields you can see all over our district.

There are many things in the world beyond our influence, but here we actually have the possibility of doing something useful for our environment. What you and I do in our homes makes a difference!

So, are you ready to join this great local environmental project? I'm looking forward to getting started – and I wish all my fellow Asker residents good luck!

*Hilde Hummelvoll
Asker resident*

Contact information

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You can also use an internet form to order or change your subscription for waste collection. See the local authority website under Selvbetjening (Self-service). Here you can also find a form to use if you would like to order or change waste containers for a business. This brochure has been translated into English, Polish and Somali - Tolketjenesten i Oslo, February 2011.

At some point in time this year you will receive new outdoor containers for kitchen waste, paper/cardboard/drink cartons and household waste

This year we will replace the black plastic bag and the orange paper bag with new light plastic outdoor containers. These will make it simpler for you to sort and keep your outdoor waste in order. The colour of the lid tells you what type of waste you can put in the container.



Kitchen waste



Paper/cardboard/drink cartons



Household waste



Plastic packaging

Brown lid = kitchen waste
Green lid = paper/cardboard and drink cartons
Grey lid = household waste
Blue lid = plastic packaging for five or more households. Small collective solutions and individual households continue to use the same transparent plastic bags as before.

The new containers have many advantages:

- The containers keep small rodents and other animals out
- The ventilated container for kitchen waste keeps odours down. However, you should clean your container a few times during the summer season and otherwise when needed. It's easy to do with your garden hose
- Wheels make the containers easy to move
- No more black plastic bags. Now you will tie bio-bags and bags with household waste and put them in the outdoor containers
- Easy to change the size of your container if you need a different volume
- Better working conditions for the sanitation workers, with fewer cuts and less heavy lifting
- More environmentally friendly; kitchen and household waste removal once every two weeks means less transport
- The containers are identified by an electronic chip ensuring that all the containers are emptied at the right time
- Paper and cardboard can be packed more tightly in a container than in a bag



Reinholdt and the new containers

Bear in mind that when you sort at the source, there will be more space in the household waste container!

More environmentally friendly waste collection

Our waste collection trucks will be fuelled by bio-gas, and the new schedule calls for collection of kitchen and household waste every second week where there are four or less households. This way we save the environment from emissions, noise and traffic.

Joint solutions with five or more households will have a weekly collection of kitchen and household waste. Such solutions are also beneficial for the environment because there are fewer collection points.

The Modus work and training centre will deliver the containers to you

“Work, Recreation and Relief” is a municipal programme offering work training or work experience to persons who want this for various reasons. The Drengsrud and Daleløyken work centres assemble the containers, and Modus will distribute 41 000 containers and kitchen waste baskets with bio-bags to Asker’s inhabitants. Modus will also collect the old bag racks if you want to return them.

Solutions for discrete placement of outdoor containers

On assignment from Asker local authority, an architect has designed solutions for discrete placement of the outdoor containers. You are not required to have

Good accessibility in summer and winter

It is important that the sanitation worker is able to wheel the container to the collection truck, and therefore the ground and the area where the containers are placed must be cleared. Where possible, the container should be placed with the handle facing out. If there is vegetation around the container, this should be trimmed back. In winter, access to the containers must be cleared of snow, and sand or gravel should be strewn on icy ground.

Thank you for helping!

this solution, it is just a suggestion for those who want it. You can find detailed drawings and more information about this on the local authority’s website www.asker.kommune.no/kildesortering.

Electronic collection registration

Each container will be furnished with an electronic chip and a sticker with a bar code which must NOT be removed. The electronic chip is called an RFID (radio frequency identification). The chip will be read when your container is emptied, which gives us a simple way of knowing what has been collected at the right time. If the container is not emptied, the sanitation worker will be notified by a warning light on a screen installed in the truck.

The RFID system makes it easier for the sanitation worker to find your container. If you change the placement of your outdoor containers so they are difficult to find, it is important that you notify us.

The RFID chip has no personal information, only a unique number that identifies your container in the collection system. Installation will take place gradually and will be activated for everybody before the end of the year.



Why is Asker local authority introducing separate sorting of kitchen waste?

In one way or another we all deal with waste every day. We all have a role to play from when the waste is made until it has been recycled into new products. Many people have to cooperate if the resources that can be found in waste are to be exploited in the best way possible.

Until now kitchen waste has been sent to be burnt for energy recovery together with household waste, but as it contains around 70% water, it is not that well suited for burning. Nor have we been able to utilise the nutrients in the kitchen waste in a good way. We can achieve much better utilisation if we produce bio-gas for energy purposes in a decomposition process than if we were to continue burning it. What's more, we also obtain a valuable residual product, so-called "bio residue", which is made into fertilizer products.

This new approach enables us to be more aware of what and how much we throw away – and we hope that this increased awareness will help us to stop discarding fully useable articles, edible food and other things as easily as we have done before. This may in turn lead to reduced consumption which is important if we want to look after the Earth's resources.

Did you know that...

- Analyses show that around half of what we put into the black waste bag is food
- As much as 25 per cent of the food we buy is thrown away!
- Each Asker resident today produces almost 440 kg household waste per year. That's approximately 20 kg above the national average
- Each of us sorts:
 - 74 kg paper
 - 28 kg glass and metal
 - 6 kg plastic packaging
- According to estimates, kitchen waste collected in Asker may produce enough bio-gas to fuel 8-10 sanitation trucks for one year
- Bio-gas used as fuel gives cleaner air and less noise, and is climate neutral

The goals are...

- Optimal exploitation of resources
- Raised awareness of our own waste production
- Reduction of the waste production per household to below the national average by 2015
- A minimum of 65 per cent of household waste must be sorted and recycled. Only three per cent of the remaining amount should go to landfill. Everything else should be used to recover energy!

*Sorting at the source 2011
- a great local environmental project!*



Indoor sorting at the source

There are many smart and inexpensive solutions for sorting at the source in your house. To make it easy it is important to have a solution that agrees with you and your household.

- Storage boxes are good for dry and bulky waste, such as paper/cardboard, glass and metal packaging and deposit bottles
- Use what you already have in your house: baskets, pots, containers, shoe cupboards, pegs etc.
- You can also use a normal bucket
- Some solutions can be hung on the cupboard door
- Some solutions feature containers that slide in and out of the cupboard on track slides
- If you are planning a new kitchen, you can consider customised solutions for the kitchen drawer or inlaid in the countertop

Bear in mind that the kitchen waste basket should be ventilated if you intend to use something else than the one that is supplied.



You can find more solutions and dealers on our website www.asker.kommune.no/kildesortering



Make an effort for a better environment – each and every day!

The final preparations – we need your help

Stickers

Two stickers are provided with this brochure. Both are for affixing to the lid of the old bag rack. If you need more stickers, contact the Service Centre.



Write your address on the one sticker and then stick it on the lid. This will be very helpful for us when we deliver the new containers. Make sure that your house number is easy to read!



Put the second sticker on the lid only if you want the local authority to take it away for you.

Collection of old bag racks

The rack is your property, but if you want Modus to take it away for you, you can put the sticker stating “We would like this bag rack to be collected by Asker local authority” on it. Collection of waste in black bags will stop when the new source sorting system starts. If you have waste in the black bag when the old rack is collected, we will move the bag over to the new container as a transition solution until the first waste collection under the new system.



After you have received the new containers, the old bag rack will be picked up from those who have put on the sticker. If you want it removed, put it in a place that is easily accessible. This offer applies where new waste containers have been put in place and for all types of old bag racks and containers, not only the type you see in the illustration here. The racks that are collected will be sent to a material recovery site.

Starter pack – we help you to get started

All households will be issued a starter pack with information that will make it easier for you to get started sorting at the source. You will receive the starter pack when the outdoor containers are delivered in your neighbourhood. It will be placed outside your door. Get your neighbour to keep it for you if you are not at home.



The starter pack includes:

- Kitchen waste basket (7 litres)
- Two rolls each with 80 bio-bags (8 litres), corresponding to around one year's consumption. These are made from corn starch which is biodegradable
- Sorting guide
- Stickers for labelling indoor waste containers
- New collection calendar showing the schedule for emptying kitchen and household waste every 14 days

How to get new bio-bags

Small collective solutions and single households will receive bio-bags once a year. If you need more bags, just tie a bio-bag to your waste container. The sanitation worker will then leave a new roll for you.

If you are part of a collective solution with five or more households, you can pick up bio-bags from the Service Centre or selected grocery stores. You will find a list showing the shops where bio-bags are available on the local authority's website. You can also contact the Service Centre for more information.

NOTE! Bio-bags are perishable and are best suited in well ventilated baskets and ventilated outdoor containers.

Collective solutions

If you live in a housing cooperative or a densely populated area, a collective solution is generally preferred. The costs are divided equally, as the local authority cannot consider who discards the most or the least in this kind of collective solution. Generally, the fee to be paid for waste collection will be lower than for individual households. Existing collective solutions will generally only need to add the kitchen waste containers, but you may find it possible to reduce the volume for household waste because the kitchen waste is now being sorted separately.

Underground solutions

Several housing cooperatives and condominiums in Asker have opted for joint underground waste collection solutions. Normally, underground collection systems require less space than traditional container solutions. They are a smart solution for housing cooperatives or condominiums where the outdoor areas are small and the buildings are close together. Underground containers for kitchen and household waste are emptied weekly.

Summer subscriptions

For households that only need waste collection during the summer season we have summer subscriptions for the period from 15 April to 15 October. The waste collection fee is then halved, both the basic fee and the variable amount to be calculated on the basis of volume. Read more about the waste collection fee on the last page.

Asker city centre

Due to the lack of space in the centre of Asker, waste will be collected three days a week in this area. Those who live here may therefore calculate the size of their container according to this collection schedule. The fee is calculated according to the total household volume per week, i.e. three times the container volume.

Island waste

A special system applies for island waste collection, and the people this applies to will receive a letter in the post. You can also visit the local authority's website for more information.

Business customers

Business enterprises may enter into an agreement with Asker local authority on waste collection if the composition and amount of the waste are suitable for our collection systems for households. Visit the local authority's website for more information.

New system - new rules

When you start sorting your kitchen waste at the source, your collection day will be the same as before, but kitchen and household waste will be collected every 14 days for small collective solutions and individual households.

- Kitchen and household waste will be collected every 14 days for those who have small collective solutions and individual households with two-wheel containers
- Collective solutions with four-wheel containers for household waste will have weekly collections. Kitchen waste will also be collected weekly with such collective solutions
- If you have little household waste, you can ask us to collect it every fourth week. Kitchen waste will still be collected every 14 days
- The maximum distance for wheeling the containers is 10 meters for two-wheel containers and 5 meters for four-wheel containers
- You may, however, place containers with two wheels up to 30 meters from where the waste collection truck stops for an extra fee. You must notify us about this. If you notified us about this when you chose containers last autumn, you do not need to notify us again
- The container will be placed at the address that has been reported. If you have not notified us of the address, the container will be placed where the old bag rack is placed today
- Containers must be placed so they are easily visible, and the ground and general area must be clear so that the sanitation worker can wheel the container to the sanitation collection truck in summer and winter
- If you have two subscriptions today, you will automatically be given two sets of containers for the standard solution unless you ordered differently
- If you have one subscription today but two bags, you will only receive one set of containers for the standard solution unless you ordered differently
- It will still be possible to use blue extra bags if you occasionally have much household waste
- These can be bought at the Service Centre, at Shell service stations or at Yggeset Waste Park
- If you need additional kitchen waste baskets and bio-bags, for example for tenants, these are available at the Service Centre

When will it be your turn?

The new source sorting system with separation of kitchen waste will start at your house as soon as you receive the new containers. The containers will be distributed zone by zone, and the planned schedule is as follows:

Spring

Zone 1

From the end of March to the end of May

Summer

Zone 2

From the middle of June to the middle of August

Autumn

Zone 3

In September and October

You will find the zone your address belongs to in the collection calendar which was distributed in the autumn of 2010, or you can visit the local authority's website.

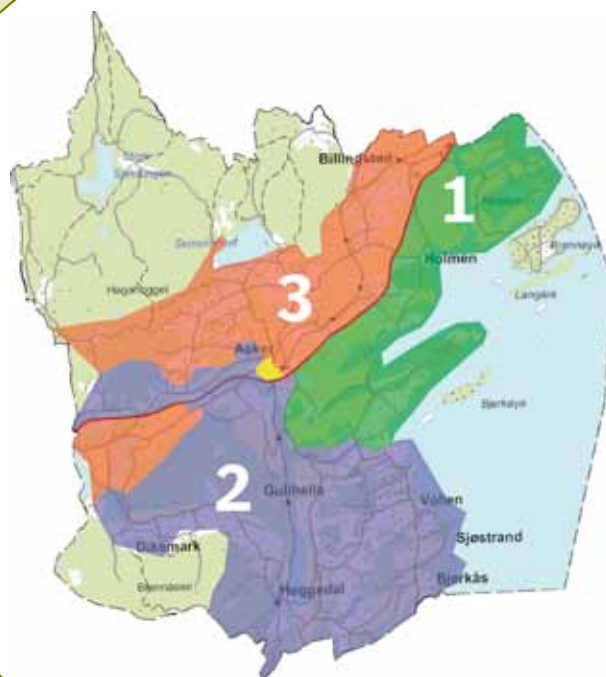
Distribution of containers may deviate from the schedule. If so, you do not need to do anything other than continue with the old system using the black bag just as before.

Notify us immediately if you need another waste container volume than the standard, or if you have changes to what you have already reported. You can do this using a website form you can find under "Self-service" on the local authority's website or by contacting the Service Centre.

The standard solution gives each household three containers:

- one of 140 litres for kitchen waste
- one of 140 litres for household waste
- one of 240 litres for paper/cardboard/drink cartons
- plastic bags for plastic packaging – same as before

If it turns out that the container you have received is too small, notify the Service Centre as soon as possible. We will help you make adjustments as soon as we can.



How do you do it?

The new system starts as soon as you have received the new outdoor containers. Until then you just continue as before.

Put your kitchen waste in bio-bags. You will be given a kitchen waste basket and bio-bags for indoor use. You will receive a supply of bio-bags once a year. The bio-bags must be put in the outdoor container that has a BROWN lid and the symbol for kitchen waste.

The remaining household waste must be put in regular plastic bags the way most people do today. The bags with household waste must be placed in the outdoor container which has a GREY lid and the symbol for household waste.

Please remember to tie the bag tightly before you put it in the outdoor container!

Paper and cardboard must be placed directly in the outdoor container with the GREEN lid and the symbol for paper. Drink cartons must be rinsed, folded and stuffed in one of the cartons before being placed in a plastic shopping bag in the outdoor container. Small amounts of larger cardboard packaging can be folded and left by the side of the container.

Plastic packaging can be put in regular plastic bags, and the system with the transparent plastic bag continues as before. A roll of plastic bags will be supplied to you once a year. If you are in a large collective, an outdoor container may have been or may be supplied for plastic. The plastic must be placed in the outdoor container with the BLUE lid and the symbol for plastic packaging.

This is how waste is sorted, collected and processed. When we sort at the source we keep the resources in circulation and thus limit the need for new raw materials.



Kitchen waste



Household waste



Paper/Cardboard/Drink cartons



Plastic packaging

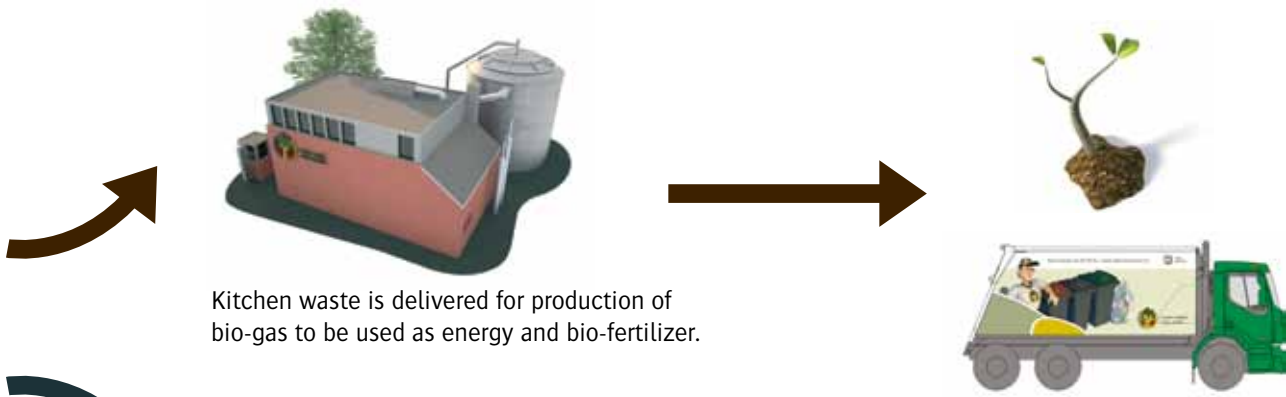


Two-chamber truck:
The bags for kitchen waste and household waste are collected by the same truck but are placed in separate chambers.



Two-chamber truck: The bags with plastic packaging and the containers for paper are collected by the same truck but placed in separate chambers.

- Kitchen and household waste will be collected every 14 days for the standard solutions
- Waste from collective solutions will be collected weekly
- If you have little household waste, you may ask for collection every fourth week
- Paper/cardboard/drink cartons and plastic packaging will be collected every third week
- The collection calendar with the date for collecting the various types of waste will be distributed at the same time as the containers



Kitchen waste is delivered for production of bio-gas to be used as energy and bio-fertilizer.



Household waste is burned and the energy will be used for production of electric power and distance heating.



The bulk of drink cartons are recycled into cardboard. Paper and cardboard are recycled into other paper products, including packaging cardboard and kitchen and toilet paper.



Plastic packaging is sorted and recycled according to the type of plastic and size, and the plastic is then recycled as raw material for new plastic products, such as drainage pipes and waste containers etc. The outdoor containers and the kitchen waste baskets for the new waste collection system have been made from recycled plastic.

How to calculate the total fee for waste collection in the new system

Household waste is what is left when all the recyclable waste has been sorted out. The new fee system is designed so that you will benefit from sorting at the source. The less volume you need for household waste, the lower the total fee will be. The fee is divided into a basic amount and a variable amount.

- The basic amount, NOK 1335 including VAT, will ensure that all households pay part of the cost of collecting waste in Asker.
- The variable amount is calculated according to the volume and type of household waste container. The price per litre for a two-wheel container is NOK 14.29 including VAT. The price per litre for a four-wheel container is NOK 13.50 including VAT.

Example 1:

Standard fee, one household with 140 litres for household waste:

Basic amount including VAT:	NOK 1,335
+ Variable amount: 140 litres x NOK 14,29 per litre for household waste:	NOK 2,000
= Total fee:	NOK 3,335

Example 2:

Two households together with 140 litres for household waste:

Basic amount including VAT:	NOK 1,335
+ Variable amount: 140 litres x NOK 14,29 per litre/two households:	NOK 1,000
= Total fee per household:	NOK 2,335

The final waste collection fees may be changed after political debate in the city council in the spring of 2011. You can find more examples and more about waste collection fees on our website.



QUIZ

Take part and win one of the prizes listed below! You will find all the answers in this brochure.

1. How much of the food that you buy is thrown out?
2. What colour lid does the paper container have?
3. How many kilograms of household waste does each Asker inhabitant throw away on average per year?
4. When will the new system start for you?
5. What is the bio-bag made from?
6. Why are we introducing separation of kitchen waste?
7. Why do we need containers and not bags?
8. How many containers will be distributed and who will be distributing them?
9. What can bio-gas be used for?
10. What is RFID?
11. What is household waste?
12. What can the plastic packaging we sort at the source become?
13. What is the point of sorting when kitchen waste and household waste are collected by the same truck?
14. What is the name of the person on page 3 with the containers?

1st prize: Optional source sorting solution for your kitchen or a gift card for Asker Cultural Centre – Value NOK 1000

2nd prize: Four tickets to Risenga swimming pool – value NOK 500

3d prize: Flax lottery tickets – value NOK 250

Send your answers by 28 March 2011 to lene.stensland@asker.kommune.no or Asker kommune, Kommunalteknisk avdeling (City Engineering Department) v/Lene Stensland, Pb. 353, 1372 Asker.