


What is Bofa?



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What is Bofa?

Bofa I/S (Bornholms Fælleskommunale Affaldsbortskaffelse I/S) [Joint Municipal Waste Removal System for Bornholm] was founded in 1986 as one of the five municipalities authorised to carry out the waste disposal tasks in Bornholm.

In 2003, when the five municipalities became one, Bofa dropped the I/S, and became a part of in the new municipality.

Bofa's work combines planning and establishing recycling systems and running the necessary facilities to process the recycling of waste from all of Bornholm. In addition to this, Bofa plans to establish systems to collect waste and recyclable materials from households, businesses and industrial units in Bornholm.

Bofa's premises include a Recycling Centre in Vestermarie, container sites in Rønne, Hasle, Olsker, Østermarie, Nexø and Aakirkeby. Bofa also have thirteen environmental station's located in the holiday cottage regions of Bornholm and an incineration plant in Rønne.



Bofas areas in Rønne. The numbers are referring to the paragraphs below.

1) Administration

Bofa is managed by the Managing Director. The director signs a company-agreement with the mayor once a year, which states the how Bofa is to be managed.

The day to day management of Bofa is conducted by the Managing Director who heads the four divisions of the Company: finance; incineration; environment and recycling/container sites.

Bofa has 34 employees which include five administrative staff, twelve incineration plant operators, four focussed on environment issues and thirteen who work within the recycling and container sites teams.



The Incineration Plant

2) Incineration Plant

The incineration Plant of Bofa was put into service in January 1991. The plant receives household waste, bulk refuse, mixed combustible refuse from businesses and industries and clinical hazardous waste (from medical, dental and veterinary clinics and the hospital).

During 2011 a major renovation of the plant took place. Almost everything was replaced with new and cleaner technology. The capacity wasn't changed, but the emissions has been reduced.

The plant capacity is app. 2.5 tons of waste per hour. The heating value of the waste is 2,900 Kcal/kg. The total capacity is between 21,000 and 22,000 tonnes of waste per year.

The waste is incinerated at around 1,000°C. The incineration process produces bottom ash. After sorting, the bottom ash can be used for various construction purposes. Bofa sells the bottom ash for things like the construction of roads.

The smoke from the incineration is cleansed in a dry smoke purification system and the acidic gasses are neutralised by adding lime. A number of primarily metals (e.g. lead, nickel, arsenic and cadmium), stick to the surface of the lime particles. The smoke that contains fly ash and lime, are passed to a filter bag before being discharged, via a ventilator, through the 75-meter high chimney.

Bofa adds charcoal to the lime to ensure, that the smoke is cleansed for dioxins. Bofas output of dioxin are less than 1/10 of the allowed amount. Unfortunately Bofa receives more waste than we can incinerate. Therefore Bofa ships combustible refuse to another plant in Denmark.

3) Deposit Site

The Deposit Site, or the controlled dump/landfill, as it is known, is where waste that cannot be recycled, incinerated or requires special processing is deposited.

Bofa has two sites. The old dump from 1973, and a new one that which opened in 1999. The new dump was expanded in 2011-12.

The old dump is now filled and completely covered. In 2012 the new deposit-site has a capacity of around 15,000 cubic metres.

In both the old dump and the new site the groundwater is monitored for pollution. Samples are taken from six wells to measure the content of hazardous substances in the groundwater.

In addition to this, the water is analysed four times every year. These samples are taken from the outflow at Bofa to the Rønne/Hasle wastewater treatment plant.

The amount of waste deposited at the Deposit Site is around 5,500 tonnes per year, which distributed as follows: 3,500 tonnes of contaminated construction waste, 1,500 tonnes of waste from businesses and industries, 100 tonnes of contaminated soil, 30 tonnes of PVC, 300 tonnes of preserved wood and 90 tonnes of fishnet and trawls. The PVC, preserved wood and fishnets are shipped off the island to larger deposit site at another company on Falster.

Bofa receives contaminated soil in connection with cleaning of oil polluted areas on Bornholm. This soil is purified, and the contaminated soil is temporarily placed on the Deposit Site until it is clean enough to be recycled.



Garden refuse before composting

4) Compost Site

The central compost site consists of a system for mound composting of garden refuse. The “raw material” at the compost site consists of branches, trees, bushes and similar organic waste from public and private gardens and parks.

Bofa receives around 4,100 tonnes of garden refuse from businesses and industries and around 1,500 tonnes of garden refuse from private households.

The site annually produces around 1,000 cubic metres of fertile humus, Bofa produces high-quality and easy-to-use humus for the citizens of Bornholm which they can pick up at the container sites.

In addition to this, some 2,700 tonnes garden refuse are being composted at, or close to the container sites round the island.



The Oil and Hazardous Waste Station

5) Oil and Hazardous Waste Station

Previously, Bofa received, packed and shipped hazardous waste away from the island for further processing. Since 1999 this task has been in the hands of a contractor that visits Bornholm several times a year as needed and collects the hazardous waste. The waste is brought to Bofa in Rønne where it is sorted. The part of the waste that can be directly conveyed by the BornholmFerries ships is packed on the contractor's lorry while the rest is shipped by freight on BornholmFerries to Køge, Denmark, where the contractor fetches it and sends it on to further processing.

Bofa still collects hazardous waste at the containers sites. The waste is stored at the station until the next visit by the contractor.

Every year around 150 tonnes of hazardous waste are collected from Bornholm. Hazardous waste includes oil and chemical residue, such as lubricants, solvents, wood preservatives, batteries (with and without mercury), pesticides, pressurized containers and spray cans.



The Recycling Centre in Vestermarie.

Recycling Centre

The Recycling Centre of Bofa, established in 1989, is located in the village of Vestermarie. The Recycling Centre receives recyclable waste such as cardboard, paper, glass, bottles, packaging plastic, refrigerators, freezers and electronic waste.

The cardboard and paper comes from businesses and industries, from paper containers at the container sites and environmental stations or from households where the paper is discarded in separate green containers distributed in the communities for this purpose. Cardboard and paper are sorted and pressed into bales before being shipped from the island to be recycled, primarily in Sweden.

Glass and bottles are collected in the roughly 160 bottle containers distributed all over the island. Glass and bottles are not sorted, but shipped in containers to a plant at Sealand, to be recycled.

Packaging plastic is also pressed into bales before being shipped to recycling.

Discarded electric and electronic waste are stored at the Recycling Centre until shipped by haulage contractors to recycling plants.

The Vestermarie Recycling Centre receives roughly 5,700 tonnes of cardboard and paper, and 800 tonnes of glass and bottles, and 3,500 refrigerators and freezers and 300 tonnes of electronic waste per year.



The location of the six Container Sites

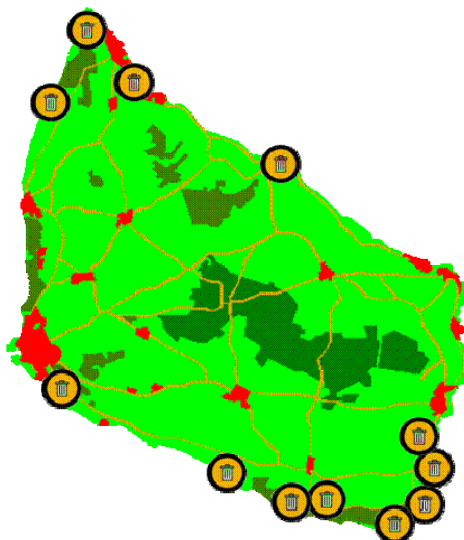
Container Sites

Bofa operates six container sites around the island. The largest of these is located next to the plant on Almegårdsvej in Rønne, while the five others are situated in the towns of Hasle, Olsker, Østermarie, Nexø and Aakirkeby.

The total amounts of waste from the container sites are around 7,300 tonnes for incineration including furniture and other bulk refuse. Around 3,500 tonnes of contaminated construction waste are delivered to the sites. The container sites receive around 4,500 tonnes of garden refuse. Some of this is composted locally and some at the composting site at the plant in Rønne.

The precise amounts of recycled waste such as cardboard, paper, glass, plastic, refrigerators, freezers and electronic waste are only registered at the Vestermarie Recycling Centre.

Holiday cottage residents can also use the twelve environmental stations placed in various holiday cottage areas. Each environmental station consists of containers for refuse, for cardboard and paper and for glass.



The location of the twelve Environmental Stations



Environmental Management

Bofas Environmental Management System is certificated in accordance with the DS/EN ISO 14001-standard. And the work environment has also been taken into account.

The system consists of a manual, which not only describes Bofa but also all the work processes. The manual shows the average everyday, and doesn't just tell the staff what to do in a specific situation.

Visit Bofa

Anyone who would like to visit Bofa and enjoy a guided tour at either the plant in Rønne or the Vestermarie Recycling Centre are very welcome. All you need to do is call for arrange a date and time by telephone +45 5695 9200.

Over the past ten years, Bofa has had an average of sixty guided tours per year, and we also have time for your visit!

You will get the most out of your tour if the group has a maximum of twenty persons and if the group has an opportunity to read this flyer beforehand.

We have made this flyer with the intention of giving our visitors a little information about Bofa before their visit, by giving them the background for additional questions to our guide.

The flyer can also answer some of the most commonly asked questions we receive during the tours.

We look forward to your visit.