

EMAS environmental statement for Hr Björkmans Entrémattor AB 2015

The business operation

Hr Björkman's Entrémattor AB is a privately owned company that is mainly focused on rental and replacement service of entrance mats. The company, which is located in Stora Bernstorp outside Malmö, started in autumn 1993 and has had a positive development since its establishment. The business is concentrated in Skåne, southern Halland, Gothenburg, Stockholm and the Kalix vicinity. It has a turnover of about 30 million SEK and currently employs 27 people, with about 3 300 customers.

Service and quality are the mottos of the business idea; "Rental of entrance mats, with a focus on delivery quality. With delivery quality means everything related to the product, that is, the way to deliver, as well as the quality of the mat."

The purpose of this environmental report is to give the public an overview of the company's activities and its environmental impact. Review of the Environmental Report is carried out every year. All who wish are always welcome to visit our company for further information.

Welcome to read the report or visit us!

Hr Björkmans Entrémattor AB
Carl-Johan Björkman

The products

Our entire business is built from scratch in a circular business model where we unite high quality and durable products with a service that cares for and preserves the product quality so that it can perform its function again and again. For example, we have entrance mats that has been in circulation for more than 10 years. Our main product entrance mats are collected and returned according to a predetermined switching interval and serves as a barrier between a dirty and a clean area. The mats are available in a variety of sizes, qualities and appearances to fit into the different environments. Moreover, it's possible to make a mat with the customer's own design or logo.

The Customers

We have customers from all industries. Customers ranging from large industrial and service companies, to public organizations as well as individual stores and chains.

Environmental management

Because our services and products are environmentally friendly, it was natural to put the environmental aspect on the whole business. To help, we have used the ISO 14001 standard and the EU Eco-Management and Audit Scheme, EMAS.

The environmental management system works as a tool to achieve environmental goals and as a mechanism for continual environmental improvement. Our goal is to be the leading environmentally friendly alternative for our customers. All the company's employees have received both external and internal training on environmental issues. We have identified laws that concern the company based on our impact on the environment. These are evaluated 1 time per year and recognized in our environmental management systems. Since 2008, we are not notifiable under the Environmental Code. The environmental management system is audited regularly by both internal and external auditors, to ensure its function. These checks are carried out by an accredited environmental inspector from the SP Swedish Technical Research Institute.

Environmental impact

From an environmental perspective, our environmental impact is divided into two main areas, the direct and indirect significant environmental aspects. The direct significant environmental aspect that we have identified are distribution and laundry. A significant indirect environmental aspect however is staff travel to and from work. The main positive environmental aspects are the recycling of mats and water in the wash. The difficulty arises when the indirect environmental aspects should be reported. It is difficult to measure its impact on the environment or connect the activities to results. But we have seen that these are affected by our internal and external decisions.

Transportation

Transportation is done with our own light trucks. Apart from the car in Norrbotten, the cars are fueled with biogas, environmentally the best option currently on the market. In our business transports are the most significant environmental impacts with respect to the combustion of fossil fuels. The main things that affects the environment from transportation is carbon dioxide, which causes global warming, nitrogen dioxide, which acidifies, contributing to eutrophication and the formation of ground-level ozone and hydrocarbons, which also contributes to ground-level ozone. This makes us focus our environmental efforts on efficient distribution planning and continuous measurement of fuel consumption in liters per km and mat replacement per km.

We also have a separate filling station on our site that is a joint project with EON. On our "own" filling station we refuel our distribution vehicles during the night, which reduces our mileage further. In the current situation, we cover most of Skåne, southern Halland, Gothenburg and Stockholm, mainly in the big cities. The annual mileage in 2015 amounted to about 279 150 km.

The laundry

Since September 1997 we wash our mats in a facility where 80-98% of the water is reused in a closed system. The water is treated biologically by microorganisms. The water in the system is about 33 ° C, and only need to be warmed up by about 7 degrees. Since 2005 rainwater is also supplied to the closed system. Water heating is done by a bio gas-fired boiler and the dryer is bio gas driven.

Naturally clean with biotechnology

We are constantly working to improve our environmental profile. As part of this environmental initiative, we introduced a new, unique method of washing in our laundry facility in autumn 2012. As the first mat-laundry in the world, we began to use biotechnological detergent. Today, about 50% of all the oil we pick up from the earth's crust consumed to produce chemical molecules, which are the active ingredients of traditional cleaners. In the long term this is unsustainable development. Biotechnology is instead based on getting nature's own microorganisms, e.g. bacteria, fungi and mold, to produce reactive substances that cleans almost entirely without the help of chemicals. Natural enzymes and proteins break down and remove grease and dirt, and leaves bacteria that continue to clean and remove odor. This type of bacteria is completely harmless to humans, animals and nature. The bacteria are most effective at low water temperatures. We have therefore lowered the temperature in the wash water even further. As the cleaning takes place almost entirely without chemicals, our new washing method has a favorable impact on the environment. But it is not just the environment that benefits, but also our customers. According to tests, the surface tension becomes better when the mats are washed with biotechnology. This means that the mats can absorb more liquid. The more dirt and liquid trapped in the entrance mat, the cleaner it will be inside the customer premises.

Environmental Report 2015 in figures

These figures are updated and reported in January each year. The aim is that in a simple and transparent way show numerically how we affect the environment.

Car exhaust / fuel:	year 2015	year 2014
(templates)		
Total mileage:	279 150 km ¹	311 210 km ²
Gasoline:		
- Hydrocarbons, CHX, NMVOC	8,1 kg	5,19 kg
- Nitrogen dioxide + nitrogen oxide,	7,86 kg	5,10 kg
- Carbon dioxide, CO2	9190 kg	5960 kg
- Sulfur dioxide, SO2	3,51 kg	2,27 kg
Biogas:		
- Hydrocarbons, CHX, NMVOC	18,42 kg	21,05 kg

¹ In addition, we have run 88 640 km with private vehicles in service.

² In addition, we have run 77 420 km with private vehicles in service.

	- Nitrogen Dioxide + Nitrogen oxide,	44,66 kg	51,04 kg
	- Carbon dioxide, CO2	3350 kg	3828 kg
	- Sulfur dioxide, SO2	4,47 kg	5,10 kg
Diesel:	- Hydrocarbons, CHX, NMVOC	2,83 kg	1,35 kg
	- Nitrogen dioxide + nitrogen oxide,	14,72 kg	7,04 kg
	- Carbon dioxide, CO2	4062 kg	1944 kg
	- Sulfur dioxide, SO2	1,03 kg	0,49 kg
Distribution total:	- Hydrocarbons, CHX, NMVOC	29,26 kg	27,60 kg
	- Nitrogen Dioxide + Nitrogen,	67,24 kg	63,18 kg
	- Carbon dioxide, CO2	16 601 kg	11731,59 kg
	- Sulfur dioxide, SO2	9 kg	7,87 kg
Production		year 2015	year 2014
Laundry:	- Washed amount	755 kkg	760 kkg
Biogas:	- Hydrocarbons, CHX, NMVOC	6,91 kg	6,08 kg
	- Nitrogen Dioxide + Nitrogen,	16,74 kg	14,73 kg
	- Carbon dioxide, CO2	1255,73 kg	1105 kg
	- Sulfur dioxide, SO2	1,67 kg	1,47 kg
Electricity:	- Electricity consumption	85 720 KWh	82 812 KWh
Additions:	- Water (80-98%, reuse)	446 m ³	356 m ³
	- Detergent	1,57 kkg	1,53 kkg
Property heating		year 2015	year 2014
Biogas:	- Hydrocarbons, CHX, NMVOC	19,45 kg	18,13 kg
	- Nitrogen Dioxide + Nitrogen,	47,15 kg	43,95kg
	- Carbon dioxide, CO2	3536 kg	3296 kg
	- Sulfur dioxide, SO2	4,72 kg	4,40 kg
Total emission distribution, production and property		year 2015	year 2014
	- Hydrocarbons, CHX, NMVOC	55,61 kg	51,81 kg
	- Nitrogen Dioxide + Nitrogen	131,13 kg	121,86 kg
	- Carbon dioxide, CO2	21393 kg	16133kg
	- Sulfur dioxide, SO2	15,39 kg	13,74 kg

Environmental Policy

Hr Björkmans Entrémattor's environmental policy is a part of our effort to take pole position within the industry regarding environmental and ecological behavior both in terms of our services / products and the way we produce and deliver them.

Hr Björkmans Entrémattor makes sure to

- comply to and / or stay ahead of environmental legislation
- work actively with environmental goals and preventing pollution through optimization of the transport and energy efficiency
- disseminating knowledge both among customers, employees and suppliers
- always take customer benefit into account

Significant environmental aspects and goals

In connection to the introduction of our environmental management an environmental review was conducted by an external environmental consultant. This in order to survey our significant environmental aspects. For each environmental aspect, we conducted a valuation which then resulted in an environmental program.

Because of this we could for example establish that our transport is the most significant environmental aspect. The next step was to make instructions for how to reach our environmental goals and the measurement points to be used and reported. We regularly submit samples of wastewater and sludge for analysis to control the content.

We also want to mention four positive environmental aspects of our operations. The first is that our business is based on a reuse concept, where we wash and re-use our products. The same mats can be in use for up to ten years. The other aspect is that we recycle almost all the water we use in the washing process and therefore have very low water usage. Third, we use biotechnology detergent that is much more gentle on the environment than traditional detergents. Finally, we can mention that the entrance matting deployed at our customers even gather hazardous cadmium.

Here are our key objectives:

1. Transports
 - keep driving planned so that km / mat is kept low.
 - reduce liters / km with solid numbers on each vehicle.
2. Sales
 - plan and focus visits per day
3. Production
 - all data is measured regularly so that consumption does not increase.

	Goal 2012	Outcome 2012	Goal 2013	Outcome 2013	Goal 2014	Outcome 2014	Goal 2015	Outcome 2015	Goal 2016
Km/mat	1,22	1,59	1,26	1,52	1,40	1,54	1,40	1,47	1,4
Sales km/deal	90	231	120	261	120	264	120	303	180
Water liter/kg	0,45	0,53	0,45	0,47	0,39	0,49	0,39	0,58	0,39

In 2016, we have provided our goals at the same level as in 2015 except km/deal. The sales people are far from the target and in the new area in northern Sweden, distances are great. We are actively working to achieve them and we believe that it is possible. When we set our goals, we look at the levels that we have been at one time and what new opportunities that are available and sets targets at a low level, but also reachable.

<u>CORE INDICATORS FOR YEAR</u>	2015	2014
<u>Energy production + distribution</u>		
Total annual supply of renewable energy, biogas	627	556 MWh
Total annual production - washed mats	755	760 kkg
The ratio of direct energy and production	0,83	0,73 MWh/kkg
<u>Material efficiency production</u>		
Total annual supply of laundry chemicals	1,57	1,53 kkg
Total annual production - washed mats	755	760 kkg
The ratio of washing chemicals and production	0,002	0,002 kkg/kkg
<u>Water production</u>		
Total annual supply of water	446	356 m ³
Total annual production - washed mats	755	760 kkg
Water and production ratio	0,59	0,46 m ³ /kkg
<u>Waste</u>		
Total annual waste production:		
- Combustible waste	20,03	3,53 kkg
- Recyclable paper	1,01	1,01 kkg
- Corrugated cardboard	0,26	4,80 kkg
- Oil sludge	13,12	19,80 kkg
Total:	34,42	29,15 kkg
Total annual production - washed mats	755	760 kkg

Biodiversity

We have concluded that the core indicator of biodiversity is not relevant to our significant direct environmental aspects and thus chosen not to report it. The reason for this is that our chemicals are labeled with Good Environmental Choice and that we have a private sewage treatment plant. The water that we cannot manage to clean ourselves is released into a, by Burlövs Municipality, controlled unit.

Comment on results and objectives

During 2015, our production has remained largely unchanged from 760 tons to 755 tons, and emissions have increased by 34%. This is due in large part to the increased use of diesel and petrol. The increased use of diesel because diesel is used in Norrbotten. We still use biogas to

our other distribution vehicles, buying wind power, recycle water in the production and use biotechnological detergent. The increased use of petrol is mainly due to sale and distribution has fueled gasoline instead of biogas in a larger extent. We have also received the EMAS Award in 2014 for our water reuse systems. The newest addition to our environmental efforts, our solar panels on the roof that provide the building in Arlöv with clean energy.

We have set new targets for 2016 at about the same level as in 2015 because we have not reached them. But we still believe our goals are achievable because we were able to achieve them in previous years. One of the reasons we failed to achieve our goals is that Hr Björkmans Entrémattor AB is extending its business to new locations. New geographies resulting in mileage at the beginning and it takes time to optimize the distribution of the new areas. In accordance with the Environmental Certification ISO 14001: 2004 we are under ongoing continuously work on continuous environmental improvement to achieve the ambitious targets set.

The most significant environmental impacts are perceived to be transportation. A program to reduce the number of kilometers per number of supplied mats are currently being conducted by evaluating various route optimization software.

Accredited verifier

SP Sveriges Tekniska Forskningsinstitut, ackrediterings nr 1002.

Datum för godkännande,

Uppdaterad : 20160324