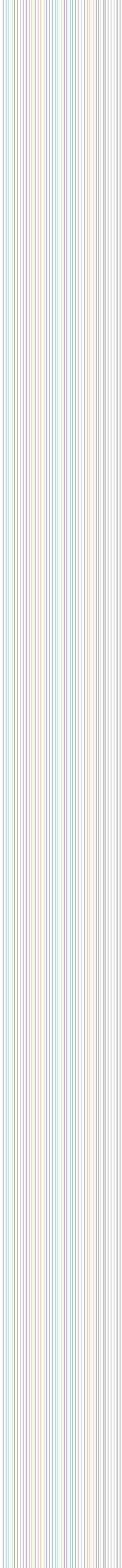


# gorenje

EMAS Amendment of the  
Environmental Statement  
by the Gorenje, d.d. and  
Gorenje I.P.C., d.o.o.

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# 1. Statement on the Credibility of Environmental Data

The EMAS environmental scheme for the period between 1 January and 31 December, 2007 refers to the operation of the Gorenje, d.d. and Gorenje, I.P.C., d.o.o. companies and represents an amendment to the EMAS Scheme statement by the Gorenje, d.d. and Gorenje I.P.C., d.o.o. for 2006. All data and facts, given in the EMAS environmental statement are credible and represent the actual condition of the environment management system in both companies.

The Gorenje, d.d. holding company already adapted its operations to the EMAS requirements according to the EC Regulation No. 761/2001 in 2003, while the Gorenje I.P.C., d.o.o. joined this system in 2006. In March 2008, the implementation of the system was audited by the Slovene Institute for Quality and Metrology (SiQ) having assessed that the system is in conformity with the EMAS Regulation.



Vilma Fece, M.Sc.  
Director  
Environment, Health and Safety

## 2. Company Profile

### Activities of the Gorenje, d.d.

**Name:**

Gorenje, gospodinjski aparati, d.d.

**Date of entry into the court register:**

31 December, 1997

**Abbreviated name:**

Gorenje, d.d.

**Registered office:**

Velenje, Partizanska 12

**Company activities:**

Development, production and sales of household appliances, information and industrial equipment

**Activity code:**

27.510 Production of electric household appliances

### Activities of the Gorenje I.P.C., d.o.o.

**Name:**

Gorenje I.P.C., Invalidsko podjetniški center, d.o.o.

**Date of entry into the court register:**

25 June, 1991

**Abbreviated name:**

Gorenje I.P.C., d.o.o.

**Registered office:**

Velenje, Partizanska 12

**Company activities:**

Development, production and sale of electric component parts, graphic products, polystyrene packaging and assembly of component kits for household appliance industry

**Activity code:**

27.330 Production of sockets, switches and other wiring devices

### 3. Activities Scope of the Companies

#### **Activities of the Gorenje, d.d.**

The EMAS System includes the complete range of the holding company activities, which are performed at the following sites:

- Velenje, Partizanska 12,
- Šoštanj, Industrijska cona Primorska cesta and
- Rogatec, Ceste 56.

The activity of the Gorenje d.d. at the Velenje site is performed across a mixed area aimed at industrial, repair, crafts and service activity. In Šoštanj and Rogatec the activities are performed in locations provided for industry and crafts.

The EMAS System does not include Gorenje, d.d., the MEKOM program at the Hrastje 2 a site in Bistrica ob Sotli, where the production of doors for fridge-freezers and activities, which are not linked to the core activity of the company are performed.

The activities include the development, production and marketing of household appliances, information technology and industrial equipment. The production companies within the holding company are:

- Refrigerator/freezer programme: refrigerators, freezers, chest freezers and combined appliances;
- Cooking appliances programme: electric and gas cookers, ovens, hobs;
- Washer/dryer programme: washing machines, dryers, pantry kitchen;
- Mechanical components - MEKOM programme: metal and plastic components;
- POINT programme: development, production and sale of information equipment;
- INDOP programme: development, production and sale of industrial equipment.

In 2007, the activities of the INDOP program have been relocated from the Velenje to the Šoštanj site which resulted in the adjustment of the implementation goals in 2008.

#### **Activities by the Gorenje, I.P.C., d.o.o.**

The EMAS system includes activities of the company at the following locations:

- Velenje, Partizanska 12,
- Šoštanj, Industrijska cona Primorska cesta.

The activity of the Gorenje I.P.C., d.o.o. company at the Velenje site is performed in a mixed area which is aimed at industrial, repair, crafts and service activity. In Šoštanje the Gorenje I.P.C., d.o.o. is located in the industrial zone along the Primorska street which is aimed at industry and crafts.

The activity of the company includes the following main processes: development and production of electric components, production of printed materials, production of packaging from expanded polystyrene and production of assemblies for household appliances.

The production consists of the following divisions:

- Packaging programme: production of packaging from expanded polystyrene;
- Services programme: assembly of component kits for household appliances;
- Graphics programme: drawing up user's manuals for household appliances;
- Electrical components programme: production of wiring sets for household appliances.

## 4. Development

The company's own development focuses on the design excellence of products as well as their optimum functional features while keeping in mind the protection of the environment throughout the complete life-cycle of the product. The company uses environment-friendly materials and technologies, strives for integrating intelligent systems and components which enable various forms of integration into electronically linked systems. Special attention is paid to the enhancement of energy efficiency.

In 2007, the household appliances division completed implemented an upgraded process of new product development which combines the current knowledge and experience from all business fields linked to development. Apart from the development of new products and technologies great emphasis was given to research activities and cooperation with external scientific institutions since the company is aware that this is one of the more important activities for providing a long-term competitiveness.

The key achievements of the household appliances division in the field of product development in 2007 were:

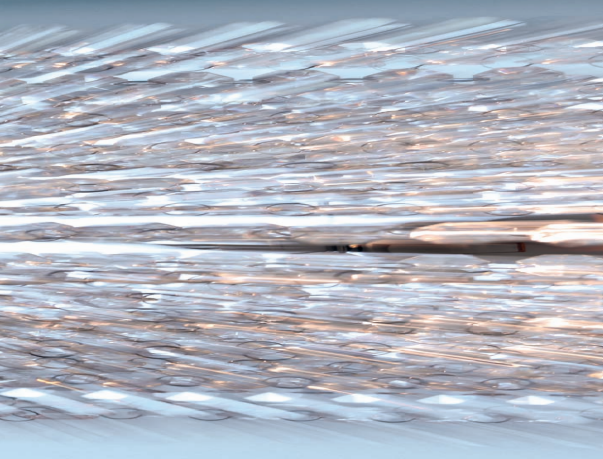
- at the beginning of the year, the Gorenje production line Ora-Ita was put into operation, consisting of combined refrigerator and freezer appliances, built-in ovens and hobs, kitchen hoods and decorative panels for dishwashers and microwave ovens;
- completion of development and start of production of a new generation of built-in and free-standing refrigerators and freezers 540 mm wide, innovative SmarTable tables with integrated refrigerators and a new generation of refrigerators and freezers 600 mm wide with EURO COMBI mechanical programme selector button;
- pursuit of the development of a new generation of built-in and free-standing cooking appliances of 600 mm wide as well as hobs, while regarding free-standing cooking appliances the project of implementing base induction has been implemented;
- development of large household appliances belonging to the highest energy classes (A, A+, A++) has continued;
- optimizing energy and functional features of our products has continued.

Among the development activities, which have been completed in 2007, the most important one is the development project in the field of cooking appliances. The project will be completed in 2008 and shall represent a complete upgrade or even replacement of the existing program of cooking appliances.

In the field of development, the Gorenje I.P.C., d.o.o. company has been part of the simultaneous development of household appliances within the parent company. The main activities in 2007 include the increase of the production of polystyrene packaging, purchase of a colour printing machine at the Graphics division and numerous organizational and technological improvements in production which have resulted in further improvements regarding productivity, product and service quality as well as ensuring customer deliveries on time.



Care for the environment is behind everything we do



## 5. Suitability Assessment of the Environmental Policy

February 15<sup>th</sup>, 2006, a joint policy of the integrated environment protection system according to the ISO 14001 standards as well as the system of occupational health and safety according to the OHSAS 18001 standard was adopted by Gorenje, d.d.. By taking the decision of implementing an integrated environment protection system as well as occupational health and safety system March 13<sup>th</sup>, 2007 also at the Gorenje, I.P.C., d.o.o. and the Gorenje Orodjarna, d.o.o., a policy reflecting a uniform approach by the Gorenje, d.d. parent company as well as the Gorenje, I.P.C., d.o.o. and Gorenje Orodjarna, d.o.o. daughter companies was demonstrated.

It is considered that the 2007 policy reflects the actual condition of the major aspects (products, services etc.) and the environmental targets linked to them.

## 6. Identification of Environmental Aspects and Assessment of Environmental Impact

Based on the Regulation on maximum values regarding light pollution of the environment (Official Gazette of the RS no. 81/07, 109/07) at Gorenje, d.d. and at Gorenje I.P.C., d.o.o. the environmental aspects have been reassessed thus leading to amendments of the list of environmental aspects. At Gorenje, d.d. and Gorenje I.P.C., d.o.o. the newly identified environmental aspect is light pollution.

Environmental aspects, identified in 2007 for Gorenje, d.d.

Identified environmental aspects	Essential environmental aspects
1. Raw material	
- sheet metal	
- metal and non-metal-based components	
- chemicals	
- thermal and sound insulation	
- semi-finished goods made of rubber and plastic	
- packaging material	
2. Energy resources	
- electric power	
- thermal energy	
- natural gas	
- compressed air	
- water	
3. Other	
- office supplies	
- additional material	
4. Emissions	
- emissions into air	
- emissions into soil	
- noise emission	
- emissions into the water	
- technical wastewater	- technical wastewater
- cooling wastewater	
- utility wastewater	
- sewage system:	
• sewage system for acids	
• rainwater sewage system	
• faecal sewage system	
- light pollution	
5. Waste	
- hazardous waste	
- secondary raw material	
- waste for disposal	
6. Products	
- product / service	- product / service
- own parts	
- purchased parts	

**Environmental aspects, identified in 2007 for Gorenje I.P.C., d.o.o.**

Identified environmental aspects	Essential environmental aspects
1. Raw material	
- sheet metal	
- metal and non-metal-based components	
- chemicals	
- thermal and sound insulation	
- semi-finished goods made of rubber and plastic	
- packaging material	
2. Energy resources	
- electric power	
- thermal energy	
- natural gas	
- compressed air	
- water	
3. Other	
- office supplies	
- additional material	
4. Emissions	
- emissions into air	
- emissions into soil	
- noise emission	
- emissions into the water	
- technical wastewater	
- cooling wastewater	
- utility wastewater	
- sewage system:	
• sewage system for acids	
• rainwater sewage system	
• faecal sewage system	
- light pollution	
5. Waste	
- hazardous waste	
- secondary raw material	
- waste for disposal	
6. Products	
- product / service	- product / service
- own parts	
- purchased parts	

## 7. Effectiveness in Environment Management

### 7.1 Meeting Implementation Targets of Gorenje, d.d.

#### Meeting environment protection implementation targets at the Velenje site

Aspect	Unit	2001	2002	2003	2004	2005	2006	Target 2007	Implemented 2007
<b>Reduction in the quantity of</b>									
- hazardous waste	kg/product	0.25	0.25	0.18	0.21	0.20	0.15	0.13	0.14
- secondary raw material	kg/product	4.68	4.23	4.23	4.33	-	-	-	-
- deposited waste	kg/product	0.75	0.49	0.44	0.36	0.33	0.30	0.29	0.31
<b>Effective use of energy resources:</b>									
- water	m <sup>3</sup> /product	0.21	0.18	0.19	0.20	0.20	0.18	0.17	0.11
- electric power	kWh/ product	21.95	21.62	22.24	22.39	23.09	23.00	23.00	24.65
- thermal energy	kWh/ product	15.05	12.47	13.28	13.72	13.42	11.43	-	-
- compressed air	m <sup>3</sup> / product	19.49	15.09	13.45	17.47	15.29	16.06	15.30	15.44
- natural gas	Nm <sup>3</sup> / product	1.09	1.02	1.03	1.02	1.04	1.04	1.04	1.17

In 2007, the quantity of hazardous waste produced was 0.14 kg/product, which is 6.7 % less than in 2006. Despite that the target of 0.13 kg/product was not achieved. The result was 7.7 % short of the target. The reason is the smaller reduction of the quantity of the waste sludge from the central wastewater treatment plant than anticipated. The specific quantity of deposited waste increased by 3.3 % and was 6.9 % short of the target.

In the field of effective use of energy the target regarding water consumption was exceeded by 35.3 %. The natural gas consumption was by 12.5 % higher than the approved target, the compressed air consumption was 0.9 % higher than planned and the electric power consumption exceeded the target by 7.2 %. The consequence of a change in preprocessing technology in the enamelling process which was implemented in the Cooking Appliances Division in 2006 followed by an optimization in 2007 was smaller water consumption and thus reduction of the output from the wastewater treatment plant, in particular a reduced nickel pollution rate of the wastewater. The consequence of the investment and also a more than 12 % increase in the cooking appliances output was the increased natural gas consumption due to the need of implementing a new drying system of semi-finished goods. The increase in the electric power consumption was the result of increased requirement for cooling premises.

#### Meeting environment protection implementation targets at the Rogatec site

Aspect	Unit	2006	Target 2007	Implemented 2007
<b>Reduction in the quantity of</b>				
- hazardous waste	t	22.7	21.0	22.3
- waste for disposal	t	69.4	66.0	65.2

The comparison of the quantity of hazardous waste shows a decrease compared to the year before but this still does not meet the defined target. The discrepancy is 6.2 %. The increase in the quantity of hazardous waste was the result of major relocation of the machinery at the Rogatec site and therefore more exchanges of lubricating oil than planned. Regarding waste for disposal the target was exceeded by 1.2 %. Compared to 2006 the quantities were reduced by 6.0 %.

### Meeting environment protection implementation targets at the Šoštanj site

Aspect	Unit	2006	Target 2007	Implemented 2007
<b>Reduction in the quantity of</b>				
- hazardous waste	t	1.9	1.8	0.45
- waste for disposal	t	32.3	30.0	32.2
<b>Effective use of energy resources:</b>				
- water	m <sup>3</sup>	2,994	2,900	2,790
- electric power	kWh	1,372,973	1,372,000	1,981,574

The quantities of hazardous waste were 75 % below target. The smaller quantity of the produced hazardous waste is linked to the reduction of maintenance frequency compared to plan (waste oil).

Compared to 2006, the quantity of waste for disposal almost didn't change, while the defined target of 30.0 tons was not met. The quantity remained 7.3 % below target.

The water consumption remained within planned quantities. The discrepancy in the field of electric power consumption was 44.4 % in particular due to the changing dynamics of performance at the Šoštanj site and the expanded product range.

### 7.2 Meeting Implementation Targets of Gorenje I.P.C., d.o.o.

#### meeting environment protection implementation targets at the Velenje site

Aspect	Unit	2004	2005	2006	Target 2007	Implemented 2007
<b>Reduction in the quantity of</b>						
- hazardous waste	kg	1,710	0	1,138	1,050	1,200
- waste for disposal	kg	120,000	45,000	82,800	80,000	64,612
<b>Effective use of energy resources:</b>						
- water	l/ product	1.594	4.829	3.897	3.860	2.492
- electric power	kWh/ product	0.044	0.057	0.060	0.059	0.058
- compressed air	m <sup>3</sup> / product	0.086	0.100	0.103	0.099	0.100
- natural gas	Nm <sup>3</sup> / product	0.229	0.130	0.131	0.129	0.125

The defined target for hazardous waste in 2007 was not met since compared to 2006 the quantity of hazardous waste increased by 4 %. This is a 14.4 % discrepancy from the target. The reason for such a result was the exchange of lubricating oil due to urgent maintenance of machinery.

Compared to the year before, the quantity of deposited waste was reduced by 82,800 kg to 64,612 kg. The result exceeded the target by 19.2 %.

Regarding the effective use of energy media other than compressed air consumption all the targets have been met. Although the compressed air consumption has been reduced by 2.9 % it remains still 1 % from target.

Regarding the water consumption the target in the sense of reduced consumption has been improved by 35.4 %, as far as electric power is concerned this reduction was 1.7 % and regarding natural gas the reduction was 3.1 %. Such a strong reduction in the water consumption is the result of reducing losses in the field of cooling waters and the teflonisation of classical EKO LTH tools at the Packaging Division.

### meeting environment protection implementation targets at the Šoštanj site

Aspect	Unit	2005	2006	Target 2007	Implemented 2007
<b>Reduction in the quantity of</b>					
- hazardous waste	kg	1,770	162	150	0.0
- waste for disposal	kg	80,000	32,200	30,000	48,718
<b>Effective use of energy resources:</b>					
- water	l/product	0.099	0.111	0.109	0.097
- electric power	kWh/product	0.039	0.037	0.036	0.034

The target for hazardous waste has been defined based on the resulting quantities in 2006. Among these types of waste are waste from printing dyes and development liquids. Last year this type of waste did not occur.

The target in waste for disposal was not met. The produced quantities are exceeding the target by 18,714 kg, which is a discrepancy of 62.4 %. The target was defined based on the quantities from 2006 when the production in Šoštanj was not in full swing. Last year's quantity reflects the real situation regarding the production in Šoštanj, which should also serve for defining the 2008 target.

In 2007, the consumption of energy resources at the Šoštanj site is smaller than the year before. The target has been met. The water consumption was down 11.0 % from target, while for electric power the consumption was 5.6 % lower than planned.

## 8. Implementation Targets in 2008

### 8.1 Implementation targets of Gorenje, d.d.

#### Implementation targets of Gorenje, d.d., at the Velenje site

Aspect	Unit	2001	2002	2003	2004	2005	2006	2007	Target 2008
<b>Reduction in the quantity of</b>									
- hazardous waste	kg/product	0.25	0.25	0.18	0.21	0.21	0.15	0.14	0.13
- waste for disposal	kg/product	0.75	0.49	0.44	0.36	0.33	0.30	0.31	0.29
<b>Effective use of energy resources:</b>									
- water	m <sup>3</sup> /product	0.21	0.18	0.19	0.20	0.20	0.18	0.11	0.11
- electric power	kWh/product	21.95	21.62	22.24	22.39	23.09	23.00	24.65	24.00
- thermal energy	kWh/product	15.05	12.47	13.28	13.72	13.42	11.43	-	-
- compressed air	m <sup>3</sup> /product	19.49	15.09	13.45	17.47	15.29	16.06	15.44	15.30
- natural gas	Nm <sup>3</sup> /product	1.09	1.02	1.03	1.02	1.04	1.04	1.17	1.14

#### Implementation targets of Gorenje, d.d., at the Rogatec site

Aspect	Unit	2006	2007	Target 2008
<b>Reduction in the quantity of</b>				
- hazardous waste	t	22.7	22.3	21.0
- waste for disposal	t	69.4	65.2	66.0

#### Implementation targets of Gorenje, d.d., at the Šoštanj site

Aspect	Unit	2006	2007	Target 2008*
<b>Reduction in the quantity of</b>				
- hazardous waste	t	1.9	0.45	10.8
- waste for disposal	t	32.3	32.2	40.0
<b>Effective use of energy resources:</b>				
- water	m <sup>3</sup>	2,994	2,790	3,900
- electric power	kWh	1,372,973	1,981,574	2,945,000

\*- targets are set higher because they include the INDOP Šoštanj program.

## 8.2 Implementation targets of Gorenje I.P.C., d.o.o.

### Implementation targets of Gorenje I.P.C., d.o.o., at the Velenje site

Aspect	Unit	2004	2005	2006	2007	Target 2008
Reduction in the quantity of						
- hazardous waste	kg	1,710	0	1,138	1,200	1,250
- waste for disposal	kg	120,000	45,000	82,800	64,612	110,000
Effective use of energy resources:						
- water	l/ product	1.594	4.829	3.897	2.492	0.792
- power	kWh/ product	0.044	0.057	0.060	0.058	0.046
- compressed air	m <sup>3</sup> / product	0.086	0.100	0.103	0.100	0.099
- natural gas	Nm <sup>3</sup> / product	0.229	0.130	0.131	0.125	0.124

### Implementation targets by Gorenje I.P.C., d.o.o., at the Šoštanj site

Aspect	Unit	2005	2006	2007	Target 2008
Reduction of the quantity of					
- hazardous waste	kg	1,770	162	0.0	50
- deposited waste	kg	80,000	32,200	48,718	47,000
Effective use of energy resources:					
- water	l/product	0.099	0.111	0.097	0.096
- electric power	kWh/product	0.039	0.037	0.034	0.033

## 9. Communication with Interested Parties

In 2007, Slovene media has mentioned the Gorenje Group 4,966 times, out of that 77 reports were focusing on environmental problems. The share of publications in the field of environment protection thus resulted in 1.5 %. In this topical section on environment protection the media paid most of its attention to the purchase of the 51 percent share of the Surovina company (12 publications) and the improvement of the tar sites (12 publications). Gorenje is also often mentioned in reports discussing environmental awareness of companies (10 publications) and reports on environmental awards (8 publications).

Within the framework of the EcoTopTen initiative the German Institute for Applied Ecology Öko-Institut e. V. from Freiburg put Gorenje's RB 4139 W refrigerator at the top of the list of the most ecologic ones. With an overall annual cost of only 51 Euros this appliance is the most cost-effective among the most competitive appliances offered on the German market in the category of freestanding refrigerators up to 88 cm. On the EcoTopTen list of recommended appliances only appliances meeting the criteria of Energy class A++ are listed, which means up to 45 percent of energy savings and more. By this recommendation Gorenje for the third time met the most stringent criteria of the EcoTopTen list in the field of household appliances.

In November Gorenje received the Environment Friendly Company award at the Environmental meeting organized by the Finance newspaper along with the Ecological Fund and the Environmental Agency of the Republic of Slovenia in the category of large enterprises. This made Gorenje again rank among the best to run for the European environmental award in 2008.

In December, the Gorenje brand for cooking appliances received the »Czech user test winner« award. The recognition is awarded by the Czech web site Qmagazin ([www.qmagazin.cz](http://www.qmagazin.cz)), which is focusing on testing products and market research. In the December cookers market research Qmagazin tested the 10 best selling brand names in the Czech Republic, while the criteria for this research included quality of the appliances, recognition of the brand name as well as sales results. In this research, users stated as the most important parameters in selecting a new cooker energy consumption, price, cooker type, number of functions, brand name and design.

Reports with a negative character referred only to the complications with the construction of the processing – recycling centre in Trbovlje.

In 2007, there were also 13 groups or individuals who asked for more information on environment management, most of them required answers to various questionnaires and survey forms or they visited Gorenje themselves. In 2007, no individual contacted the Gorenje I.P.C., d.o.o.

Last year, the Environmental inspectorate visited Gorenje, d.d., seven times checking the following environmental areas: waste management, storage of hazardous substances, air emissions, noise released into the environment, handling of ozone-depleting substances, handling of packaging material, operation and maintenance of oil catchers and handling of communal hygienic wastewaters, and emissions of substance and heat during waste water disposal as well as gathering waste electric and electronic equipment. No decree has been issued.

At Gorenje I.P.C., d.o.o the Environmental inspectorate performed one on-site visit checking the following environmental areas: waste management, emissions into water, air emissions and noise released into the environment. No decree has been issued.

Within both companies internal communication is in place focusing also on environment protection, via the Worker's Council, the "Iskrice" system of submitting and rewarding useful proposals, the 20-key system, internal bulletins and coordinators for environment protection and occupational health and safety. As part of the Gorenje Group intranet there is a special web site dedicated exclusively to environment protection with the aim of effective exchange of information. The staff is informed about the developments and goals in the field of environment protection also by reports in the Črno na belem internal bulletin and the Pika na G and GIB periodicals.

In 2007, the periodic training in the field of occupational health and safety, fire safety and environment protection was held according to annual plans. The introductory seminars for the new staff and for the hands-on training of pupils and students were carried out in cooperation with the HR department. This way 142 seminars have been held in Gorenje, d.d., with the participation of 2,228 employees. In 2007, the occupational health and safety, fire safety and environment protection seminars were attended by 558 employees of Gorenje I.P.C., d.o.o. End of 2007, an e-training seminar in the field of occupational health and safety was held for the first time. The training was attended by 1,100 employees of the common services of Gorenje d.d.

For firemen brigades which perform the firemen service in the Municipality of Šoštanj the Gorenje professional fire brigade prepared an introduction of a Fire-Rescue Plan for the IHIŠ (Indop Šoštanj industrial site) facility.

## 10. Meeting Legal and Other Requirements

Based on continuous monitoring of legal (in the field of emissions into the water, emissions into air, noise released into the environment, handling of packaging material, chemicals, energy resources, building construction and protection against natural and other disasters) as well as other requirements in the field of environment protection, careful environmental assessment of the company operations, the results of environmental monitoring as well as the results of the inspections it is considered that the operations of the Gorenje, d.d. and the Gorenje I.P.C., d.o.o. meet all legal and other requirements defined by the requirements of the ISO 14001 standard and EMAS regulation.

The company meets legally stipulated limit values in the area of wastewater, emissions into air, noise released into the environment, specifically defined for our areas of activity. For other aforementioned field no limit values have been defined by law.

At its location in Velenje Gorenje, d.d. is required to obtain an environment protection approval for the operation of its plant which will perform activities that could cause major pollution, so in 2007 it applied at the Ministry of Environment and Spatial Planning for obtaining an environment protection permit.

