



INDEX



03 Opening Note



O4 APEQ Responsible Care® - Pacopar 2007



O7 Panel Activities
Pacopar 2007



15	Performance indicators	
	AIR LIQUIDE	16
	AQP	18
	ESTARREJA FIRE BRIGADE	20
	CIRES	22
	ESTARREJA MUNICIPALITY	24
	ESTARREJA HEALTH CENTRE	26
	CUF - QUÍMICOS INDUSTRIAIS	28
	DOW PORTUGAL	30
	ESTARREJA EB 2-3 SCHOOL	32
	ESTARREJA SECONDARY SCHOOL	34
	VISCONDE DE SALREU HOSPITAL	36
	SEMA	38
	TJA	40
	AVEIRO UNIVERSITY	42

44 Glossary

45 Contacts







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	Communication and Public Affairs Office of the Estarreja Municipality
Photo 1	Mariana Filipa Gaspar Silva Pinho, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 2	Rui Miguel Silva Castro Pereira, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 3	Abel Máximo Cunha, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 4	Bruno Miguel Vieira Azevedo, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 5	António José Santos Martins, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 6	António Oliveira Marques Bastos, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 7	Mário Xavier Gomes Rocha, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 8	José Manuel Rodrigues Fonseca, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 9	Maria Lasalette Marques, Environment in Images, 2006 Contest, Estarreja Municipality
Photo 10	António José Santos Martins, Environment in Images, 2006 Contest, Estarreja Municipality

In 2007 PACOPAR grew even more and still continues doing so.

Air Liquide, CUF and Dow, three of the PACOPAR companies, received approval of their expansion and modernization projects, bearing special attention to Safety, Health and the Environment, not only on account of their commitment to Responsible Care but also in order to comply with the increasingly stricter European Union legislation.

The companies are thus renewed in many aspects such as:

- Greater Environmental Protection.
- Increased Safety and Health toward both employees and the neighbouring community.
- Added Modernity and Competitiveness.

In addition to this and striving to meet customer satisfaction, production continues under the strictest quality standards.

Companies and the Community are growing together, striving in all aspects towards a better and better Estarreja, Portugal and Europe.

The performance indicators published in this magazine confirm the companies' ongoing efforts striving towards excellence, admired and cherished by customers and by the Community.

OPENING NOTE

Companies and Community together have achieved a great deal in 2007.

A few of these achievements are pointed out:

- Frequent radio programmes in partnership with the local radio, Voz da Ria, to inform the Community on important subjects such as:
- ∑The Bioria Project and its relevance to Estarreja and the setting up of the Estarreja Social Network.
- Open-Door Programme that welcomed the Community to our industrial facilities, inviting people to see what we do...
- Support to key community projects aimed at providing a better future for the Estarreja Community such as the sponsoring of ASE with a playground in Teixugueira, enriching the Avanca Group of School's library, purchasing and equipping the Estarreja Fire Brigade with a communication and data transmission vehicle.
- Start-up of the Chemistry Virtual Museum Project.
- Environmental projects in partnership with the University of Aveiro, such as research on the "time-space evolution of contamination levels in the surrounding area of the Estarreja complex".

It was also an honour to welcome Transportes J.Amaral to PACOPAR. They represent an added value in the interaction with the Community, since most of the chemical products of the Estarreja complex are transported by this company.

And many more projects and achievements.

We invite all of you to join us - Community and Pacopar. Together we can do more and better for Estarreja in 2008 and in the years to come.







PACOPAR and APEQ 2007

PACOPAR

In 2007, APEQ followed PACOPAR's activities earnestly. 2007 was one of the most intensive year concerning legislative activity and the kick-off of important regulation applicable to the chemical sector. A few examples that deserved our special attention are mentioned hereunder:

- End of the first phase of IPPC / PCIP legislation, i.e. the integrated pollution prevention and control directive, with issuing of the respective Environmental Licences;
- Revision of IPPC legislation and possible integration with the ETS (Emissions Trading Scheme) Directive;
- Discussion of the new ETS Directive;
- Implementation of the regulation REACH
 Registration, Evaluation and Authorization of Chemical Products.

In the next paragraphs we will give particular relevance to Responsible Care companies, presenting a summary of the worldwide program as well as a note on recent and relevant developments in the national Responsible Care® programme.

APEQ RESPONSIBLE CARE[®]

GLOBAL LEVEL

The Responsible Care Global Charter launched in early 2006, expanded its application to all activities using and handling chemical products throughout the value chain as reported that year, increasing the standardization of Responsible Care principles in all countries where the companies operate. Considering the recommendations of independent partners, the Charter goes beyond the initial elements of Responsible Care, focusing on new challenges to the industry as well as to the society, including discussion with the public on sustainable development, public health associated to the use of chemical products, the need for the industry to increase transparency and the use of a more accessible communication.

During the ICCA's (International Council of the Chemical Associations) Responsible Care Leadership Group hold in October 2007 in Paris, with the presence of APEQ, to our great satisfaction, the Russian chemical industry became the 53rd member to sign the Responsible Care principles. This is extremely important to the Russians, as it will enable the Russian industry to improve their international trade relationships, seeking behaviour standards that approach CEFIC – European Chemical Industry Council and ICCA, as both oblige to fulfil strict requisites.

In the same meeting, Middle East chemical companies represented by their recently created association - GPCA - Gulf Petrochemicals and Chemicals Association submitted their application for admission, which is likely to occur during 2008.

The first membership took place with the support of the Finnish chemical industry and the second is being supported by the Belgian association, showing how important mutual help is in the pursuit of continuous improvement goals set forth by Responsible Care.



APEQ



NATIONAL LEVEL

The results of the group of national companies that joined Responsible Care were presented in a specific report that includes performance indicators on Safety, Health and Environment, which in global terms continue to show a positive trend during the period 1996 - 2004. This fact shows how active and responsible these companies are in their struggle to continuously improve their performance in every aspect of their activity.

Having always in mind a continuous improvement, the efforts are permanent. In a scenario of constant market evolution, increasingly fiercer global competition, restrictive regulatory frameworks in Europe, and a staggering economy, difficulties are clear, providing added meaning to the good performance of the Responsible Care companies!

PORTUGAL'S EVOLUTION

Turning the decisions publicly taken in 2002 by Responsible Care companies into facts, APEQ decided in February 2006 to increase the number of Performance Indicators, classified into four areas: economic, environmental, social and product stewardship.

This considerable change aimed at enabling companies and the sector to show the commitment of Responsible Care companies to **SUSTAINABILITY** in an objective and transparent way, based on reports supported by indicators.

APEQ associated companies and Responsible Care subscribers report on a total of 109 indicators:

Economic Area	07
Environment Area	34
Social Area	49
Product Stewardship	19

A allowing them to:

- evaluate their performance throughout the years and detect areas for improvement;
- improve communication with different interested parties;
- show the commitments assumed when joining Responsible Care®;

Since 2006, first year of these new indicators, despite some reporting difficulties, it was nonetheless possible to give an **expressive image** of these industrial chemical companies.

This is in line with the commitment to contribute to a **SUSTAINABLE GROWTH** by the chemical industry.

APEQ

INDICATORS

Responsible Care has always focused its attention on Safety, Environment and Product Stewardship areas, as well as on the interaction with the Community. The economic area was not reflected directly on the Programme since it is already part of the company business. The fewer number of economic indicators comparing to other areas reflects this fact. Bearing in mind that Sustainable Growth assumes a right balance between its three axes, this should also be reflected in the set of indicators and possibly lead to an increase in economic indicators.

RESULTS

The set of data reported herein shows that the Sector:

- O1 Continues contributing positively to the country's economy;
- 02 Pays its employees adequately;
- O3 Provides for a considerable number of direct and indirect jobs;
- O4 Has one of the best ratios held by Occupational Health and Safety resulting from important expenditure in these areas;
- 05 Has a low turnover and absenteeism ratio;
- O6 Its personnel have an average age of 44 and ten to eleven years of education;
- O7 A positive trend is shown in most environmental indicators due to an important expenditure in this area;
- O8 Road transport is the main channel for the disposal of its products;
- O9 Interacts actively with the community, particularly with its neighbouring community and younger people;
- 10 Still have a margin for improvement in some indicators!

On the whole, an image of economic and labour stability is brought forth by this sector, banking strongly on environmental improvement, health and safety, and show a clear concern to interact with the community in general and closely with stakeholders in particular.

In other words, PACOPAR companies fulfilling respect for the Responsible Care® Guidelines give a clear contribution to Sustainability in Portugal.

LUBÉLIA PENEDO

RESPONSIBLE CARE National Coordinator APEQ





PACOPAR ACTIVITIES



SUPPORT THE PROJECT ON TIME-SPACE EVOLUTION OF CONTAMINATION LEVELS AT THE ESTARREJA CHEMICAL COMPLEX

PACOPAR decided to back up this project developed by a team of professors from the Aveiro University. The project views the collection of samples of soils in the surrounding area of the ECC – Estarreja Chemical Complex every seven years to monitor the concentration of heavy metals.

The first samples were collected in 1993 and will be analysed and compared to those gathered in 2000 and 2007.

PACOPAR EXPANSION

In 2007 the Panel welcomed its most recent member: Transportes J. Amaral.

Its importance in the local economy as major carrier of chemical products to and from the Estarreja Chemical Complex makes this company a major player in terms of product stewardship.



PROTOCOL TO ANSWER ENVIRONMENTAL CLAIMS

The Estarreja Municipality and the Chemical Companies of the ECC signed an agreement to answer environmental claims. Companies have undertaken to cooperate with the Municipality to answer any claim made by citizens in a timely manner.

CREATION OF A LANDSCAPE FRAMEWORK SUB-GROUP

This sub-group is part of the Environmental Work Group and has the following members: Luísa Barrosa (Estarreja Municipality), Marisa Machado (Estarreja Municipality), Renata Santos (Dow Portugal S.U.L.), Luis Ferreira (Arliquido, Lda.), Alexandre Burmmester (CUF Quimicos Industriais, S.A.).

The Group's mission is to promote actions, possibly on the basis of creditworthy environmental research and diagnoses that may lead to specific interventions involving local companies and sectors and constituting clear examples of respect for the environment and sustainable growth.

CIVIL PROTECTION CONTACT **NETWORK**

PACOPAR's hazard prevention work group started a project viewing the creation of a civil protection contact network. Throughout 2007, the group held meetings with local representatives to set up contacts at every level. The network became fully established in early 2008.



PACOPAR ACTIVITIES 2007

INTEGRATED SCHOOLS INTERNAL EMERGENCY PLAN

Aiming at coordinating emergency plans in local schools together with the Estarreja External Emergency Plan (EEP), PACOPAR launched a pilot project in the Estarreja Secondary School (ESS), which consisted of developing an Emergency Plan (EP) for this school. The plan was drawn up with the contribution of a trainee and then submitted to ESS.

In subsequent meetings, the School Executive Council informed that it would have to make changes in the school facilities to implement the EP. As soon as this EP is implemented and tested, PACOPAR intends to take the plan to other schools so as to include it in the Estarreja External Emergency Plan.

VISIT TO BIORIA

PACOPAR meetings do not always have to be held indoors. During the Panel's last quarterly meeting, the last item on the agenda was a guided visit to the SALREU BIORIA.









António Pereira and Rui Brito guided the visit to the main attractions to observe the fauna and flora in the area.

Images show the peaceful environment that we tried not to disturb and which we want to preserve so that species living in the area and future generations may become one of our most important stakeholders.

This is the kind of project that helps build up Estarreja's sustainability.





From left to right: Antonio Pereira and Rui Brito



PACOPAR ACTIVITIES 2007



PACOPAR DAY: A CLOSE RELATIONSHIP BETWEEN COMPANIES AND THE COMMUNITY



On the World Environment Day, companies and the community strengthened their relationship. The Panel promoted the PACOPAR Day, which consisted of an Open Doors Day and the exhibition of the movie, "An Inconvenient Truth".

The Estarreja chemical companies, police, fire brigade, municipality, Visconde de Salreu hospital and the health centre opened their doors to students, the elderly and disabled, providing information on how they operate.

For the first time, not only the chemical companies but also other entities participated in these Events, thus strengthening the relationship between these PACOPAR members.

Besides students from local schools, the initiative counted with the participation of the elderly whose average age is 85 and come from such social institutions as CERCIESTA and the Santa Casa da Misericórdia. PACOPAR was offered a picture with the panel logo made with recycled material.

The afternoon was a time of reflection on environmental problems. "An Inconvenient Truth" was shown at the Estarreja Movie Theatre, followed by discussion over the theme.

The discussion, led by Professor Myriam Lopes from the Environmental Department of the Aveiro University, counted on the participation of representatives from the environmental departments of CIRES, CUF and the Municipality.

PACOPAR IS PARTNER IN THE LAUNCHING OF TECHNOLOGICAL SPECIALIZATION COURSE

A welcoming session was held at the Estarreja Municipal Library for 18 students enrolled in the new Technological Specialization Course (electric facilities and industrial automation) started at the Estarreja Secondary School.

The Technological Specialization Course (TSC) on electric facilities and industrial automation will be subject to a cooperative agreement within the scope of the Specialized Training Partnership of the Estarreja Municipality, which includes the Aveiro University, the Estarreja Municipality, the Estarreja Secondary School, SEMA Corporate Association, PACOPAR companies and Nestlé.

This agreement includes the implementation of a professional training programme viewing the social and professional development of local young people and workers in order to provide local companies with qualified labour.













Members of this partnership will develop efforts to promote the Estarreja Training Unit with other important companies in the region to attract new partners. At the same time, the partnership will analyze which new courses may be provided to train/re-qualify existing manpower, taking advantage of the TSC training included in the Aveiro-Norte Programme.

The importance of this partnership with public entities was pointed out jointly with the Aveiro University and local companies for the creation of qualified technicians, who if willing, will have the possibility to continue studying at university level.

PORTUGUESE FIREMEN ASSOCIATION AWARDS GOLD MEDAL TO PACOPAR FOR DISTINGUISHED SERVICES

Within the scope of the celebration of the 83rd anniversary of the Estarreja Fire Brigade, PACOPAR was awarded a gold medal for distinguished services by the Portuguese Fire Association.

The awarding ceremony took place at the Fire Brigade's headquarters before representatives of the district's civil authorities, the Portuguese Firemen Association and the Firemen Humanitarian Association of Estarreja.





PACOPAR WAS INVITED TO TAKE PART IN THE 4TH SEMINAR ON ECOLOGY AND ENVIRONMENT

PACOPAR was invited to participate in the 4th Seminar on Ecology and the Environment promoted by the Estarreja Rotary Club de Estarreja, on "Renewable Energies".

PACOPAR was represented by its member, the Environment and Planning Department of the Aveiro University (AU). Doctor Professor Luís Tarelho was the speaker on the subject "Biomass in the Production of Heat and Electricity".

The Seminar was closed by a representative from the Ministry of the Environment.

The subjects under discussion and the knowledge of the speakers were an added value, encouraging the Estarreja Rotary Club to continue promoting such type of initiatives.



SHUTDOWN OF **EMERGENCY SERVICES AT THE VISCONDE DE SALREU HOSPITAL**



Pacopar continued to follow the subject during meetings held in 2007, after the public position taken in relation to the decision to close down the emergency department of the Estarreja hospital.

The hospital Manager kept the Panel members informed on the changes projected for these services, whilst Pacopar members referred what were the specific needs of the municipality and of the chemical complex in particular.

PACOPAR ACTIVITIES 2007

PACOPAR DONATIONS

 ASE - ASSOCIAÇÃO DE SOLIDARIEDADE ESTARREJENSE received a donation to fund part of a Children Playground in Teixugueira; THE AVANCA GROUP OF SCHOOLS was awarded a donation for its project "School Library: reading, education and culture";



PACOPAR HELPS THE ESTARREJA FIRE BRIGADE TO BUY A NEW COMMUNICATIONS VEHICLE. One of the high moments during the celebration of the Estarreja Fire Brigade anniversary, was the blessing of 3 new vehicles, one of which funded by PACOPAR, namely a control and transmission vehicle, fully equipped with the latest multi frequency radio equipment, satellite communications including image and sound transmission in real time. The vehicle may be used in normal, emergency and disaster situations as it is equipped with communication repeating systems.







¥93

ÚLTIMA PÁGINA

A nova Biblioteca Escolar!





Alamegaração da "Egantez" (siletâmente "Biblioteza Escalar Prafessara Maria Godinha"), decurror un dia 36 de Novembra. A cerimônio enablecea a novo espaço podagógico a solutral, através das intervorações dos curvidados e de unascentos de música, possão e declamação. Esilveram presentes elemientos experçentarios o de sinha a comunidader alguna, foncientarios decessões e mão docembra, representantes dos palo esta representa elemientos experçentarios o de sinha esta propriada e solutra en propriada de administração de Arcela forde de Comercia Consolio Securios de Apoparação (De. José Sarás e De Padade Nitro, o Consolio Securios de Apopa de Apola de Escalas do Alegrão, representantes do Rede de Bibliotecias Escalas do Alegrão, representantes do Rede de Bibliotecias Securios de Verganda (José Actor Pinho) e o Eng. Washingson Dántas (em aspresentação do PACOPALIO.

Um fatacu prominsor e o que malos augueram a pole equipamento bundancental, documento ao serviço de tudos.

Enquadramento Institucional

A Biblioreca Escolar é apoiada pela Camara Municipal de Estarreja e subsidiada pela Rede Nacional de Bibliorecas Escolares, bem como pelo Projecto Theku da Fundação Calouste Gulbenkian, através da implementação de A Biblioteca Escolar é apoi Projecto Thefar da Fundação Calouste Gulbenkian, através da implementação de um Projecto de desenvolvimento institulado "Educar para a Leitura" (dinamizado pela Professora Isabel Santos. O nove espaço beneficia de excelente equipamento mobilário e fundo documental. Em recente entrevista ao Dáirio de

fundo documental.

Em recente entrevista ao Diário de diveiro, e Sr. Vereador da Custura e Educação da C.M.E., Prof. João Alegria, comentualizoueste projecto, referiado a sua origeme "Começou com a sideia de ciar pólos da Hiblioteca Municipal em todas as freguesias do comecilho de Estarreja. Entretanto, saiu uma directiva que incentiva a criação de bibliotecas escolares e a autarquia vai aliar esta necessidade à ideia nicial de fundar pólos da biblioteca central mas freguesias". O necessidade à ideia micial de fundar pólos da biblioseca cestral nas freguesias". O municipio vai constituir a rede de biblioseca escolares, dosando as escolas destas estruturas. Estão a ser levados a coho cinco projectos. "Varsos comolidae o plano no proxima ano, fazendo com que as escolas tenham capacidade de abrir as bibliotecas à comunidade", afirmos Jodo Aberria. Joho Alegria,

Como funcionará a nova biblioteca?

O Equi coloren à Sr. Coordenadora, prof. Esabel Santos, algumus questies acerca da

- Podemos ir para a biblioteca ver filmes?

- rotettus ir para a miniotica ver llines?

- Son, quimdo quiverim. Tem de futer ausa requistição, receiver un fluw e depois, com a ajuda de um funcionario on de um alume ministite, podem vicionar a fluse.

-Vamos ter livros novos na Biblioteca? - Sim, ja icinus mulius forus novos financiados pola Fundação Calemare Guilbroitian o pela Reole de Bibliotecas Engolares.

Quem pode frequentar a Biblioteca?

Quem pode resquenza, professores, funcionários e entros elementos da comunidade, desde que materitudos pelo Conselho Executiva.

- Cama é que foi financiada o novo equipamento e mubilideio da Biblioteca?

- Basicamente pela R.B.E. É de salientar que a escola tem estado o focer sun esforço para colonatar visiras recessidades da Biblioteca, tendo ja adoptirido reis computadores novas, quatro emassibadores e outro material menor,

Exterão disposiveis mais jogos de mesa?
 Na Biblistecor Ectobar ao estão contemplados as jogos educaciveis. No extunto, apenas enturirimes jugos educaciveis en extensive, apenas enturirimes jugos encourações excividades?
 Site, terão preprintada aljertos concursos entividades. Por exempla, o entividades. Por exempla, logos de Confecticiones.

Jogo da Conhecimento; Concursos de Leitura;

Feiras do Liera; Oficinas de Escrita Criativa, etc.



- E quanto a regras de comportamento;
- Ce alames vio ser mais diveisos, mas também mais devenos. Ce alames sãos mais diveisos porque podem agores unificiar de recursos que antes não stolames CD's, DFD's, mais compusadores e mais livros. Têm mais deveres aguas, porque eada zona funcional da hilátosteca tem regras mais profesios que deverdo sur rigorasamente camposidas de modo a que este navo espaço funcione em pleno para sueda.

- A Bibilioteca val ter um site?

 A militances valuer una celar uma pàgina web Estamos a penaer em celar uma pàgina web para a BE/CRE cum o objectiva de estrober
para estrobar. ainda mais or oluma nus mortos actividades, fazer sugestões de leitura, divulgar novidades, etc.

[Tulions Alich v Marie M. Sours]

Objectivos ...

Desenvolver sus alunos o gosto e a hábito da leitura;
 Proporcionar aos alunos um espaço oberto, ande poderão encontrar apsio no desenvolvimento das sem trabalhos e projectos;
 Estimular a criatividade e a curiasidade dos alunos, contribuindo para a superiorio de contribuindo para en contribuindo.

na edicação, prazer e informação; - Desenvolver o respeito pelo uso da propriedade comum, incluindo um espirito de cooperação e partilha.

Quem coordena as actividades?

Para além da professora Isabel Santos, colaboram: - D' Umbelina Sossa (fasciondria em serviço permanente); - Professoras Anabela Ribeiru, António José Fosseca e Palmira Dias.



Concurso de Natal

O Natal não se resume a bonitas decorações e à troca de presente um ensôncia traz constigo uma mensagem de experiança renorsada, de se e funtasia.

O Natul tem sido om tema obserdado pelas artistas uo longo dos séculus? Aproveitundo o espírito da época, pedinus a todos os alumos da escola sede que desenvolvessem um projecto mis aulas de Educaçõe Vistud e Educação Fisual e Tecnológica, divididos em cinco categorius; S'ams Arvore de Natul; 6º amo - Presépia; 7º amo - Postal de Natul; 8º amo Folho de Corta; 9º ano - Marcador de Livro. Esta actividade e um excelent serio para transmitir e áfundir esta messagem, mas também constitui ama forma diferente de emolver todos os alumos na decenação da escula mesta quadra, pols todos os trabalhos desenvolvidos serão expontas. Em cada tromo serdo seleccionados os três melhores trabalhos para portícipação no concurso e em cada categoria será atribuido nor 1º prémio à propusta mais original.

Feliz Natal e um Bom Ano Novo!

16 · OEGAS · Dezembro 2007

PACOPAR ACTIVITIES 2007

VISIT TO SANTA CASA DE MISERICÓRDIA AND THE VISCONDE DE SALREU HOSPITAL

Following their quarterly meeting, PACOPAR representatives had lunch at the facilities of Santa Casa da Misericórdia of Estarreja, near the Visconde Salreu hospital and later visited the premises and users of this social institution. Panel representatives were thus able to witness the merit of a work directed to the community and its most needed elements as well as the size and reach of such work and get to know current needs and future projects.

The Panel members then visited the Visconde de Salreu hospital, guided by its Chairman of the Board Dr. Rui Crisóstomo, who showed them the hospital operating theatre, emergency and remaining facilities, and who took the opportunity to speak about present and future projects, including the building's refurbishment works.

RADIO PROGRAMME: EEM EXERCISE

In 2007, PACOPAR was a regular presence at the microphones of the "Voz da Ria" Radio, broadcasting various programmes of interest to the local community and dedicated to environmental and/or social subjects. Amongst these programmes, we point out one on the analysis of the External Emergency Plan exercise carried out at the end of 2006, information on the work developed by the Social Network of Estarreja through the Local social action council (CLAS) and the promotion of the Technological Specialization Course which took place at the Estarreja Secondary School.

These radio programmes were broadcast on Sunday mornings and repeated on Tuesday after dinner time. The format of the programme included guests and a resident speaker, José Fernando Correia whom we want to thank for his time and cooperation.



PARTICIPATION IN A SUSTAINABILITY COMMITMENT EVENT HELD AT LIPOR

PACOPAR was invited to participate in an event organized by LIPOR on the subject "Commitment to Sustainability" which took place at this company's facilities in Baguim do Monte.

Eng. Hélder Paula, the CIRES General Manager, spoke for PACOPAR on the subject "The Role of Partnerships in company success: PACOPAR's case".

The lecture focused on the chemical industry in the Estarreja Industrial Complex, its importance in the creation of value and its social and environmental concerns upon adopting the RESPONSIBLE CARE® Programme.

PACOPAR is an important player in the implementation of the Programme with the local community.

The experience and testimony of this Community Panel was followed with great interest by the participants, who wished to know how the panel worked, its activities, participation of the local community, etc.





PERFORMANCE INDICATORS







AIR LIQUIDE IN 2007

At operational level, the AIR LIQUIDE ESTARREJA PRODUCTION CENTRE (EPC) performed favourably guaranteeing a stable supply of carbon monoxide and hydrogen to its customers, DOW and CUF-QI, contributing to the profitability of the Estarreja chemical pole.

In 2007, Air Liquide in Estarreja received an Environmental License for its current facilities as well as for its future plant producing H2 and CO. Air Liquide's environmental obligations are thus fully established.

At social level, Air Liquide opened its doors to the community, having received about 80 students from various schools in 2007.

2007 was a busy year, fully committed to the construction of the future chemical pole in Estarreja. Engineering, planning and construction studies for the new hydrogen and carbon monoxide plant have been Air Liquide's great motivation to ensure the successful start-up of the new industrial units of the Estarreja chemical pole early 2009.



Beginning of construction works of new HyCO3 unit



Current situation of construction works of new HyCO3 unit



AIR LIQUIDE



Indicator	Units	2003	2004	2005	2006	2007
	THE COMPANY					
Share Capital	K€	13 250	13 250	13 250	13 250	13 250
Nr. of employees		28	28	28	28	27
Annual Sales Volume	K€	78 063	77 661	74 641	78 309	78 587
Total production	tons	112 020	116 113	116 131	112 541	115 072
142	ETY AND ENVIRONA	ENT				
Accident Frequency Rate	IT AND ENVIRONM	0	0	0	0	0
Severity Rate		0	0	0	0	0
Accident Incidence Rate	%	0	0	0	0	0
Number of fatalities	K€	0	0	0	0	0
	HEALTH					
Noise 85-90 decibel	%	0	0	7,1	7,1	7,1
Noise >90 decibel	%	0	0	0	0	Ô
Occupational health frequency rate		0	0	0	0	0
Health related expenses	K€/employee	0,162	0,50	0,24	0,25	0,28
	EMISSIONS TO AII	}				
Particles	tons	2,000	1,820	1,844	0,259	0,259
Sulphur dioxide	tons	0,080	0,940	4,210	0,000	0,000
(in NO2) Nitrogen Oxides	tons	83,180	89,340	21,120	13,176	13,176
Carbon Monoxide	tons	0,000	0,000	0,000	1,859	1,859
Heavy metals (total)	tons	0,015	0,010	0,006	0,105	0,105
Volatile Organic Compounds	tons	0,307	0,160	0,046	0,000	0,000
	DISCHARGES TO WA	TER				
Chemical Oxygen Demand	tons	2,31	0,29	0,21	0,588	0,231
T22	tons	0,38	0,08	0,02	0,04	0,026
Phosphorus Compounds	tons	0,10	0,00	0,01	0,04	0,024
Nitrogen Compounds	tons	0,09	0,09	0,07	ND	ND
As	tons	0,00	0,00	0,00	0,00	0,00
(u	tons	0,01 ND	0,00 ND	0,00 ND	0,00 ND	0,002 ND
Cr Cd	tons tons	0,00	0,00	0,00	0,00	0,001
Pb	tons	0,00	0,00	0,00	0,00	0,001
Hg	tons	0,00	0,00	0,00	0,00	0,00
Ni	tons	0,00	0,00	0,00	0,00	0,00
Zn	tons	0,01	0,00	0,00	0,00	0,00
	WASTE MANAGEMEN	T				
For recycling	tons	10,2	19,2	8,2	8,6	2,84
Hazardous waste for disposal	tons	1,1	3,1	2,8	0,7	1,95
Non Hazardous waste for disposal	tons	22,2	35,8	32,1	30,4	27,69
	CONSUMPTION					
Energy	MJ / ton	2 242 311	2 233 636	2 218 127	2 331 103	2 327 455
Water	m3 / ton	1,95	1,94	2,01	1,98	1,97
7. (70711)	TRANSPORT INCIDE		337336	,,,,,,,	110 541	1150-0
Transport (TOTAL)	tons	112 020	116 113	116 131	112 541	115 072
- Rail - Road	tons	NA 70 536	NA 73 302	NA 75 494	NA 73 791	NA 75 055
- kada - Sea	tons tons	70 336 NA	73 302 NA	75 494 NA	73 / 91 NA	/ 5 U 5 5 NA
- Inland waterway	tons	NA NA	NA NA	NA NA	NA NA	NA NA
- Pipeline	tons	41 484	42 810	40 637	38 751	40 017
NR. OF Transport INCIDENTS (TOTAL)	nr.	0	0	0	0	0
- Rail	nr.	NA	NA	NA	NA	NA
- Road	nr.	0	0	0	0	0
- Sea	nr.	NA	NA	NA	NA	NA
- Inland waterway	nr.	NA	NA	NA	NA	NA
- Pipeline	nr.	0	0	0	0	0



AQP IN 2007

ECONOMIC AXIS

In 2007, sales rose 6.8% comparing to 2006, which was in line with the previous year.

The company established a goal to improve its brand image by investing in the improvement of its industrial facilities.

INTEGRATED MANAGEMENT SYSTEM

Quality and Environmental Management Systems were audited (follow-up audits) in accordance with ISO 9001:2004 and ISO 14001:2000, respectively.

Both these systems as well as the Occupational Hazard Prevention System have been integrated since 2004.

ENVIRONMENTAL AXIS

The Company has had a good performance in that which concerns the environment, and 2007 was no different. This has been translated in reduced gas emissions combined with a low production of waste as well as no liquid emissions deriving from an industrial source.

This performance has been possible as the company operates in accordance with best practices and technology, which include measures of a general nature, measures to be implemented throughout the production process and end-of-line measures.

Amongst these are important measures concerning the quality control of raw materials used in product manufacturing, the re-utilization of residual waters and the use of rainwater in production, the reduction of gas emissions using an adequate combination of preventive measures and end-of-line treatment.

During 2007, considerable efforts were made to prepare the application for Environmental Licensing within the required deadlines. This was achieved thanks to the commitment of all those involved.

The company invested in the environmental area, namely in the creation and improvement of residual water collection points and improvement in the waste park.

SOCIAL AXIS

Commitments assumed within the scope of the Responsible Care programme in terms of occupational safety and health, were duly complied with namely by:

- Managing and developing operations under safe conditions, favouring and encouraging the prevention of occupational safety and health hazards, using the best technology;
- Providing training to all workers in such matters as health, safety and the environment.

The Zero Incident goal was achieved once again. As member of Pacopar and in line with its Responsible Care obligation, the company interacted with different local community agents, assessing their concerns, promoting the familiarization of the community with the industrial unit and evaluating its relationship with the community as a whole.

At internal level, the company encouraged communication to ensure employee awareness to such aspects as health, safety and the environment and to identify employees' concerns in these fields, so that these may be properly taken into consideration.



AQP



Indicator	Units	2003	2004	2005	2006	2007
	THE COMPANY					
Share Capital	K€	910	910	910	910	910
Nr. of Employees		6	6	6	6	8
Annual Sales Volume	K€	2 314	2 408	2 458	2 911	3 109
Total production	tons	24 560	25 323	25 159	28 477	28 654
	SAFETY AND ENVIRONM	ENT				
Accident Frequency Rate		0	0	0	0	0
Severity Rate		0	0	0	0	0
Accident Incidence Rate		0	0	0	0	0
Number of fatalities	20.1	0	0	0	0	0
Safety and Environment Expenditure Investment	% sales K€	0,73 0	0,83	0,96 0	0,71 11,185	0,89 32
IIIAG2IIIIGIII		0	U	0	11,100	JZ
	HEALTH	- 1	. 1			_
Noise 85-90 decibel	%	0	0	0	0	0
Noise >90 decibel Occupational Illness frequency index	%	0 0	0	0 0	0	0
Health related expenses	€ / employee	887	982	875	1 363	611
Todalia onpolisos	GAS EMISSIONS	007	702	0.5	1 000	011
Particles	tons	< 0,05	<0,07	0,05	<0,06	<0,07
Sulphur Dioxide	tons	\ 0,03	~0,07 NA	NA	~0,00 NA	~0,07 NA
Nitric Oxide (in NO2)	tons	NA NA	NA NA	NA NA	NA NA	NA
Carbon Monoxide	tons	NA	NA	NA	NA	NA
Heavy metals (total)	tons	NA	NA	NA	NA	NA
VOC	tons	NA	NA	NA	NA	NA
	LIQUID EMISSIONS					
CQO	tons	NA	NA	NA	NA	NA
TZZ	tons	NA	NA	NA	NA	NA
Phosphorous compounds	tons	NA	NA	NA	NA	NA
Nitro compounds	tons	NA	NA	NA	NA	NA
As	tons	NA	NA	NA	NA	NA NA
Cu Cr	tons	NA NA	NA Na	NA Na	NA NA	NA NA
(d	tons	NA NA	NA NA	NA NA	NA NA	NA NA
Pb	tons	NA NA	NA NA	NA NA	NA NA	NA NA
Hg	tons	NA	NA	NA	NA	NA
Ni	tons	NA	NA	NA	NA	NA
Zn	tons	NA	NA	NA	NA	NA
	WASTE					
For recycling	tons	2	2	3	3	5
Hazardous waste for final disposal	tons	0	0	0,1	0	0,1
Common waste for final disposal	tons	13	12	14	20	23
	CONSUMPTION		1			
Energy Wt	MJ / ton	67	67	92	94 0,5	97
Water	m3 / ton	0,4	0,5	0,5	υ, ο	0,6
TANC DISTRIBUTED (TATAL)	DISTRIBUTION INCIDEN		0.047	0 /14	11 001	11 /74
TONS DISTRIBUTED (TOTAL) - By train	tons tons	8 969 0	9 267 0	9 614 0	11 081 0	11 674 0
- By road	tons	4 268	4 414	4 265	4 861	4 983
- By sea	tons	0	0	0	0	0
- Waterway	tons	0	0	0	0	0
- Pipeline	tons	4 701	4 853	5 349	6 220	6 691
NR. OF INCIDENTS (TOTAL)	nr.	0	0	0	0	0
- By train	nr.	0	0	0	0	0
- By road - By sea	nr. nr.	0 0	0	0 0	0	0
- by seu - Waterway	nr.	0	0	0	0	0
- Pipeline	nr.	0	0	0	0	0
	,,,,			•	-	



Time has gone by fast and so has another year of activity, Mission and life.

Having planned and complied with our Mission by serving a Humanitarian Association and as diligent, solidary and responsible Volunteers, we have analyzed our activity for the year from an operational, educational, social perspective and from a relationship point of view with the community, and would like to share it with everyone.













ESTARREJA FIRE BRIGADE



In 2007 we performed the following services:

		2007				
Indicators	Nr. of Alerts	Nr. of Firemen	Nr. of Vehicles	Km Driven	Duration (h:m)	Patients Transported
1-Fires	201	1.156	381	10.039	512:07	6
2-Transport accidents	201	627	258	5.950	204:55	180
3-Road infrastructures	18	31	18	199	27:11	0
4-Pre-Hospital	3.264	6.800	3.274	50.177	3.003:16	2.381
5-Legal conflicts	96	193	97	2.791	106:16	79
6-Technological and industrial	2	20	8	40	2:07	3
7-Services	7.995	12.793	8.042	886.514	28.221:02	3.812
8-Activities	461	1.013	573	24.464	1.590:16	1
9999-Internal codes	78	104	81	2.240	197:03	0
9-Civil protection events	27	38	30	1.389	47:34	0
TOTAL	12.343	22.775	12.762	983.803	33.911:47	6.462

		2006				
Indicators	Nr. of Alerts	Nr. of Firemen	Nr. of Vehicles	Km Driven	Duration (h:m)	Patients Transported
1-Fires	178	885	253	8.538	897:56	13
2-Transport accidents	203	709	292	6.844	178:40	136
3-Road infrastructures	67	195	80	1.184	76:54	3
4-Pre-Hospital	3.024	6.291	3.031	45.052	2.157:41	1.461
5-Legal conflicts	76	173	77	1.809	75:38	41
6-Technological and industrial	1	2	1	48	0:59	-
7-Services	5.852	8.568	5.873	778.568	32.251:17	1.093
8-Activities	1.214	2.383	1.282	69.352	2.366:38	889
9999-Internal codes	194	287	221	10.561	709:28	0
9-Civil protection events	25	38	29	1.106	38:22	0
TOTAL	10.834	19.531	11.139	923.062	38.753:33	3.636



CIRES IN 2007

ENVIRONMENT, SAFETY AND OCCUPATIONAL HEALTH

The year was rich in activities associated with the safety and environment management systems, in line with Cires commitment to improve its environmental performance and operational risk in a sustainable way. As far as the Environmental and Safety areas are concerned, we point out the following highlights:

- 1. Preparatory actions to ensure full compliance of facilities and procedures with international reference standards for the Chemical Industry in terms of Safety.
- 2. Considerable decrease in the emission of PVC particles. This situation resulted mainly from the installation of a complementary dust removal system (shrubber) on 2 PVC-S dryers. All dryers associated to this manufacturing process are now equipped with these systems, ensuring the emission of particles are well below admissible levels.
- 3. Conversion of auxiliary boilers to steam production in order to burn natural gas instead of fuel oil, which will decrease the emission of pollutants and improve the quality of the air within the surrounding area of the plant, including CO2, a gas contributing to the greenhouse effect.
- 4. Waste valuation rate at 99% reflects the considerable performance achieved in waste management practices followed by the company for several years.
- 5. Decrease water consumption by 3% comparing to the previous year. This was managed through a reduction of losses in the internal water treatment processes and a decrease in consumption in the PVC manufacturing processes. The plan for the decrease in water consumption considers the re-utilization of some effluents after proper treatment, which will allow considerable saving in water.

6. The start-up of the new 2007-2011 Energy Consumption Rationalization Plan aims at reducing specific power consumption in PVC S and PVC E by 5% and 7% respectively.

It is worth pointing out that the company met all requisites for environmental certification in accordance with ISO 14001:2004 in a follow-up audit carried out by the Portuguese Certification Association APCER.

This same agency carried out a first audit to the SST Management System to assess the compliance level of facilities and procedures with OHSAS 18001-2007 standards.

The company has always sought to conciliate economic growth, social cohesion and environmental protection aspects, conferring particular care to its relationship with the surrounding community, in particular via PACOPAR, a privileged forum for the divulging and assessment of company development and interaction with local communities.

EXPOSURE TO CHEMICAL AGENTS: DUST



The presence of harmful agents in the working environment constitutes a health hazard for employees. However, the fact of being exposed to these aggressive agents does not necessarily mean that these workers will develop an occupational disease. These harmful agents will only affect health if their concentration level is above certain limits, and the period of exposure to them is sufficiently long to cause any harm to human beings. It is therefore very important to make a quantitative evaluation of any agent in the working place, as well as an assessment of the effective period of exposure to them.

CIRES has carried out sampling campaigns on several of these agents (not only chemical but also physical) in order to evaluate occupational exposure and whenever necessary, implement measures to improve the working environment. These evaluations were made to VCM, noise, vibrations and other, and an evaluation of dust exposure is to be carried out soon.

Photographs from left to right concern:

1. use of special chemical protection suits with self-contained breathing apparatus;

2. fire fighting exercise with fire protection suits;

nce/rescue in confined spaces.



CIRES



Indicator	Units	2003	2004	2005	2006	2007
	THE COMPANY					
Share Capital	K€	15 000	15 000	15 000	15 000	15 000
Nr. of Employees		163	127	122	123	121
Annual Sales Volume	K€	115 260	146 307	137 628	143 812	157 434
Total production	tons	192 515	195 050	186 948	181 878	194 672
	SAFETY AND ENVIRONMEN	NT				
Accident Frequency Rate		6,0	4,2	3,8	0	12,3
Severity Rate		0,08	1,01	0,02	0	0,29
Accident Incidence Rate		12,27	7,46	7,7	0	24
Number of fatalities		0	0	0	0	0
Safety and Environment Expenditure	% Sales	0,7	0,7	0,7	0,7	0,6
Investment	K€	1 259	2 781	1 318	682	365
N - 0500 L d L	HEALTH	,,	11	11	11	01.4
Noise 85-90 decibel	%	11	11	11	11	31,4
Noise >90 decibel	%	6	6	6	6	2,4
Occupational Illness frequency index Health related expenses	€ / employee	1 055	975	890	1 019	0 1 058
печни тением ехрензез	GAS EMISSIONS	1 033	7/3	070	1017	1 030
Particles	1 1	19	31	25	45	17,5
Sulphur Dioxide	tons tons	156	108	165	161	17,5
Nitric Oxide (in NO2)	tons	229	245	168	164	216,4
Carbon Monoxide	tons	0	10	2	6,8	11,5
Heavy metals (total)	tons	1,20	0,15	0,3	0,36	0,2
VOC	tons	13	19	22	16,5	11,4
	LIQUID EMISSIONS				,	,
CQ0*	tons	224	428	301	408	318
SST*	tons	18	160	67	336	226
Phosphorous compounds	tons	NA	NA	NA	NA	NA
Nitro compounds	tons	4	NA	NA	NA	NA
As	tons	NA	NA	NA	NA	NA
Cu	tons	NA	NA	NA	NA	NA
Cr	tons	NA	NA	NA	NA	NA
Cd	tons	NA	NA	NA	NA	NA
Pb	tons	NA	NA	NA	NA	NA
Hg N:	tons	NA NA	NA NA	NA NA	NA NA	NA NA
Ni Zn	tons tons	NA NA	NA NA	NA NA	NA NA	NA NA
LII	WASTF	IIA	IIA	IIA	IIA	IIA
For recycling	tons	781	714	807	570	391
Hazardous waste for final disposal	tons	7	4	8	7	2
Common waste for final disposal	tons	4	16	5	5	2
	CONSUMPTION					
Energy	MJ / ton	4 023	3 600	3 490	3 430	3 480
Water	m3 / ton	7,6	7,1	6,9	7,1	6,9
	DISTRIBUTION INCIDENTS					
TONS DISTRIBUTED (TOTAL)	tons	193 885	194 324	188 949	183 190	194 367
- By train	tons	NA NA	NA	NA	NA	NA
- By road - By sea	tons	NA 193 885	NA 194 324	NA 188 949	NA 183 190	NA 194 367
- By Sed - Waterway	tons tons	193 663 NA	194 324 NA	100 949 NA	163 190 NA	194 367 NA
- Pipeline	tons	193 885	194 324	188 949	183 190	194 367
NR. OF INCIDENTS (TOTAL)	nr.	0	0	0	0 0	174 307
- By train	nr.	NA NA	NA NA	NA NA	NA NA	NA.
- By road	nr.	NA NA	NA NA	NA NA	NA	NA NA
- By sea	nr.	0	0	0	0	0
- Waterway	nr.	NA	NA	NA	NA	NA
- Pipeline	nr.	0	0	0	0	0



MUNICIPALITY WITH QUALITY SYSTEM

Quality certification of municipal services is the official result of the proposed reform and modernization of public administration.

The quality certification project of the Estarreja Municipality was launched in 2005.

The certification process of a Quality Management System in accordance with the internationally recognized standard ISO 9001:2000 was developed in various stages: drawing up and introducing the procedures, definition and periodical follow-up of objectives, finding out and analysing opportunities for improvement and audits to ensure consistency and improvement in organizational performance.

This whole process took hundreds of working hours, particularly in the Work Processes certified in 2007:

Administration services, Library, Communication, Quality Control of Water Lines, Internet Area, General Business, Economic and Financial Management, Information Systems, Meteorology, Museology (Casa Museu Egas Moniz), Private Works, Human Resources, Water Supply System and Garbage Collection System.

The first certifications were obtained within a period of 18 months. Changing requirements involved an increase in working hours which will be offset thanks to the improvements that will be achieved in terms of organization, systematization, simplification, user satisfaction and modernization.

Following this first phase, the Estarreja Municipality became one of the few in the country to have a certified Quality Management System.

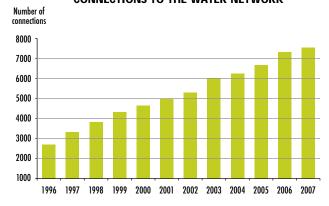


MUNICIPAL WATER NETWORK: CONNECTIONS INCREASED BY 3%

In 2007, the number of connections to the municipal water network rose to 7624 (+ 3%), which should correspond to approximately 20772 inhabitants (74% of the local population).

The Estarreja water supply network covers the municipality's entire area and is quality controlled (unlike most of the water from local wells and boreholes which is affected by contamination with nitrates and pathogenic micro-organisms).

EVOLUTION IN THE NUMBER OF CONNECTIONS TO THE WATER NETWORK



Municipality, telephone nr. 234845219 or 234840600 in case you see a leak in a fire hydrant or water pipe.

Remember: water from the network is quality controlled! Request your connection to the water network!



ESTARREJA MUNICIPALITY



IMPROVED GARBAGE COLLECTION AND CLEANING

The Municipality contracted SUMA - Serviços Urbanos e Meio Ambiente to perform the collection of the municipal solid waste (MSW) and handle the final disposal, maintenance and disinfection of containers, at a cost of € 1,303,430 (one million three hundred thousand four hundred and thirty euros). This was the outcome of the international public tender launched by the Municipality in 2007, which had 8 bidding companies.

Soon after being elected, the executive council presided by José Eduardo de Matos appointed public hygiene and garbage collection as the main areas to be dealt with. Changes introduced in 2002 in municipal cleansing, collection of MSW, selective garbage collection and recycling services resulted in considerable improvements. Garbage bags in the street are now an image of the past.

IMPROVEMENT OF EQUIPMENT (UNITS)	2002	2007
Garbage containers	620	686
Container holders	0	80
MOLOK containers	0	40
MOLOK Ecopoints	0	20
Ecopoints	17	50
Ecobox	0	63
Domestic Ecopoints	0	140
Used batteries container	7	38
Eco containers for used batteries	0	40
Eco containers for paper	100	263
Eco containers for glass	42	72
Eco containers for paper	2	6

The executive council implemented other measures such as: the increase in number of containers and ecopoints, introduction of new equipment (Molok containers and Ecopoints, eco containers for used batteries, ecobox and home Ecopoints); acquisition of cleansing machines and awareness campaigns.

Estarreja has a full ecopoint per 361 inhabitants.

It should be pointed out that the European Union established one ecopoint per 500 inhabitants.

MSW collection: quantity/year	MSW Quantity (tons)	Per capita (Kg/inhab.)
1985	3.432,269	130,70
1990	4.351,779	165,71
1995	5.482,262	205,01
2000	7.134,800	266,80
2001	7.355,400	261,00
2002	7.719,110	273,90
2003	8.362,760	296,74
2004	8.485,940	301,11
2005	8.552,860	303,49
2006	8.845,300	313,86
2007	8.677,880	307,92





CURRENT SITUATION

Independent Entity
New Facilities
19 February 2001
Inauguration
23 November 2001

INTERVENTION AREAS

- Adult health
- Child health
- Maternal health
- Family planning
- School health

Early intervention Educational Psychotherapy

- Diabetes
- STDR
- Appointments to quit smoking
- Dental and oral health appointments
- Diet appointments
- Vaccination
- Home care
- Help to ostomized patients
- Help to drug addicts
- Help to adolescents
- Public health

HUMAN RESOURCES

•	DOCTORS	
	General practitioners and family doctors	17
	Complementary Interns	
	General and family doctor	2
	Public health doctor	1
	Specialized medical practitioner	1

•	NURSES	
	Permanent staff	13
	Temporary Contract	6
•	ADMINISTRATIVE STAFF	

•	ADMINISTRATIVE STAFF	
	Permanent staff	12
	Temporary Contract	7

•	AUXILIARY STAFF	
	Permanent staff	8
	Temporary Contract	6

PATIENTS

•	Registered patients	31.033
•	Average number of patients per doctor	1,750

1.827

• Nr. of patients without family doctor

PARISH	POPULATION		
AVANCA	7.689		
BEDUÍDO	6.737		
CANELAS	1.650		
FERMELÃ	1.465		
PARDILHÓ	4.923		
SALREU	7.033		
VEIROS	2.156		
TOTAL	31.653		

RECORD OF OUT-PATIENT APPOINTMENTS

YEAR	NR. OF APPOINTMENTS	NR. WORKING DAYS	NURSE CARE HOME CARE
2004	81.700	4.232	253
2005	84.043	4.144	250
2006	86.319	4.332	259
2007	83.316	3.888	194



ESTARREJA HEALTH CENTRE



PUBLIC HEALTH

The Estarreja Health Centre has a Public Health Department which includes the Public Health Delegate, an environmental health technician and a public health intern. Health professionals from the Health Centre provide their collaboration whenever specifically needed. The following programmes are worth pointing out:

1 SURVEILLANCE OF DRINKING WATER AND WATER FOR RECREATIONAL ACTIVITIES

- Surveillance of the municipal water included 84 bacterial analyses and 34 chemical analyses performed in 2007.
- Surveillance of springs performed with 24 analyses on bacteria and 24 analyses on chemicals in 2007.
 - We continued to sample 12 springs at municipal level. The water of the remaining springs was found unsuitable for consumption and its sampling interrupted.
- Surveillance of water from municipal pools performed with 74 analyses on bacteria and 68 analyses on chemicals in 2007.
- Sampling of water from wells and boreholes at the request of owners.

2 HOSPITAL WASTE MANAGEMENT

- 3 EVALUATION OF SAFETY, HYGIENE AND HEALTH CONDITIONS IN SCHOOLS AND OTHER PUBLIC INSTITUTIONS
- 4 INTERVENTION IN THE LICENSING AND OPERATION OF INSTITUTIONS, CONSIDERING THE ACTIVITY IS LIKELY TO INTERFERE WITH THE HEALTH OF THE COMMUNITY
- 5 EVALUATION OF HEALTH HAZARDS POINTED OUT BY THE POPULATION

6 FOOD QUALITY CONTROL

OLEOVITAE Project

PÃO.COME project started in 2007 at regional level views the gradual reduction of salt content in bread. All local bakeries have joined the programme with positive results.





CUF-QUÍMICOS INDUSTRIAIS IN 2007

ECONOMIC AXIS

CUF-QI's activity in 2007 performed quite favourably with sales increasing in relation to the previous year. The Capacity Expansion Project is developing at a good pace, thanks to the excellent collaboration between all companies of the Estarreja Chemical Complex involved in the project, which is crucial to its success.

INNOVATION

Besides being one of our corporate values, innovation is a daily practice. In 2007, in strict collaboration with Universities, we continued to develop projects which are becoming part of our reality. Amongst these are the AROMA project (Project for the Environmental and Energetic Integration of Aromatic Solvents Nitration and Hydrogenation), which has the financial support of Adl (Innovation Agency) and which invited CUF-QI to be present in the Innovation Salon held in Lisbon. During five days, we presented some of our most representative innovation projects: INOVA, AROMA, SIAP, CLEÓPATRA II and MACRÓFITAS to a public mainly made up of students and researchers from universities and companies.

QUALITY

Our Quality Management System certified since 2002, views the implementation of total quality. To achieve this goal, CUF-QI decided to submit its application to the Committed to Excellence level according to EFQM - European Foundation for Quality Management criteria. Additionally, in accordance with the 6 Sigma methodology adopted since 2006, the company has already trained various Black Belts and Green Belts and developed various projects resulting in considerable savings.

ENVIRONMENTAL AXIS

The CUF-QI policy of continuous improvement in environment-related issues translated in the consolidation of certification according to ISO1400 obtained in 2006, namely by means of control and training actions, audits and an increase in investment, particularly viewing the decrease in CO2 emissions and consequent savings in licenses for emissions.

We point out a large training programme on environmental awareness which initially involved all CUF-QI employees and subsequently its services providers. Additionally, the Zero Spillage Project with the purpose of identifying, eliminating and preventing leakages or spillages was carried out from March to October 2007 with good results.



CUF - QUÍMICOS INDUSTRIAIS RECEIVED THE ACADEMY OF ENGINEERING PRIZE 2007

CUF-Químicos Industriais was chosen by the Engineering Academy to receive the first edition of the Prize in the history of this Academy. The jury decided to distinguish CUF QI "for excellence, international competitiveness, innovation and respect for the environment".

Every two years, the Academy of Engineering Prize distinguishes professionals from engineering and engineering related areas from both public and private institutions or individuals that have contributed in a relevant way to the progress, prestige and assertiveness of Portuguese engineering in the scientific or technological fields.

The jury consisted of the President of the Engineering Academy, Carlos Salema, its former president, Emanuel Maranha das Neves, the former president of its General Meeting, João Bártolo, the former minister of Higher Education Sciences, Pedro Lynce de Faria, Professors of the Lisbon Engineering Faculty (Instituto Superior Técnico), António Betâmio de Almeida and António Lamas, the former president of INETI, Carlos Campos Morais and the former president of LNEC and Estradas de Portugal, José Manuel Catarino.

SOCIAL AXIS

The values shared by our organization and which we convey in our relationship with our stakeholders - Competence, Innovation, Human Development and Responsible Care, are the way we stand in the world, i.e. our Ethics. As a responsible company, we share our successes and concerns with our community. Thus, in and outside PACOPAR, we support the community and we feel that the community supports and creates a bond with us.

That is why we have Open Door Days during which we receive various sectors of the community, invite representatives of the community and the press to our drills. An evidence of the community's recognition is the award to CUF-Químicos Industriais, a Prize recently created by the Academy of Engineering and which we are very proud of.



CUF · QUÍMICOS INDUSTRIAIS



Indicator	Units	2003	2004	2005	2006	2007
	THE COMPANY					
Share Capital	K€	30 500	30 500	30 500	30 500	30 500
Nr. of Employees		292	266	232	186	156
Annual Sales Volume	K€	109 541	147 620	150 075	168 542	172 854
Total production	tons	617 878	674 495	624 510	664 016	637 071
	SAFETY AND ENVIRONME	NT				
Accident Frequency Rate	JAI ET I AND ENVIRONMEN	18	16	16,3	2,6	8,6
Severity Rate		0,2	0,4	0,2	0,1	0,1
Accident Incidence Rate		34	38	38,8	5,6	19,1
Number of Fatalities		0	0	0	0	0
Investments	% Sales	231	156	437	730	354
Safety and Environment Expenditure	K€	1	0,4	0,21	0,20	0,22
	HEALTH					
Noise 85-90 decibel	%	4	2	6	0	0
Noise >90 decibel	%	9	9	6	6	6
Occupational Illness frequency index		0	0	0	0	0
Health related expenses	€/employee	819	1 194	552	1 677	1 675
	GAS EMISSIONS					
Particles	tons	6	7	7	44	24
Sulphur Dioxide	tons	133	31	143	188	379
Nitric Oxide (in NO2)	tons	336	271	212	527	679
Carbon Monoxide	tons	36	47	64	146	263
Heavy metals (total)	tons	0	0,1	0	0,2	0,3
VOC	tons	6	7	9	2,5	6,3
	LIQUID EMISSIONS					
CQO	tons	24	42	249	201	162
T22	tons	6	11	18	20	30
Phosphorous compounds	tons	NA	NA	NA	NA	NA
Nitro compounds	tons	11	2	21	27	29
As	tons	NA	NA	NA	NA	NA
Cr	tons tons	NA NA	NA NA	NA NA	NA NA	NA Na
Cd	tons	NA NA	NA NA	NA NA	NA NA	NA NA
Pb	tons	NA NA	NA NA	NA	NA	NA NA
Hg	tons	0,008	0,007	0,002	0,002	0,002
Ni	tons	NA	NA	NA	NA	NA
Zn	tons	NA	NA	NA	NA	NA
	WASTE					
For recycling	tons	10 937	11 346	10 197	13 630	12 838
Hazardous waste for final disposal	tons	627	966	1 143	604	532,0
Common waste for final disposal	tons	2 574	1 583	3 591	2 448	210
	CONSUMPTIONS					
Energy	MJ / ton	2282	2186	2241	2059	1915
Water	m3 / ton	2,6	2,5	2,6	2,4	2,3
	DISTRIBUTION INCIDENT	S				
DISTRIBUTED TONS (TOTAL)	tons	444 254	455 362	574 140	589 047	640 925
- By train	tons	22 095	21 897	10 600	10 546	14 081
- By road	tons	254 783	256 996	376 940	411 016	444 363
- By sea	tons	12 699	26 158	30 900	29 956	31 969
- Waterway	tons	0 154 677	0 150 311	0 155 700	0 137 529	15 0511
- Pipeline NR. OF INCIDENTS (TOTAL)	tons	134 6//	0	100 / (00	13/ 329	15 0511
- By train	nr. nr.	0	0	0	0	0
- By road	nr.	0	0	1	0	1
- By sea	nr.	0	0	0	0	0
- Waterway	nr.	0	0	0	0	0
- Pipeline	nr.	0	0	0	0	0
		- 0		0	U	



DOW PORTUGAL IN 2007

Dow Portugal is a subsidiary of The Dow Chemical Company. Its main business is the production of PMDI (polymeric diphenylmethane diisocyanate) and StyrofoamTM (Extruded Polystyrene), as well as the marketing of chemical products and performance chemicals, plastics and performance plastics and products for agriculture and the livestock industry.

In 2007, Dow's PMDI and StyrofoamTM plants posted excellent production rates. In fact, they achieved the second best result in their history.

The PMDI plant production was affected by a decrease in demand and the restricted supply of its main raw materials: Carbon Monoxide supplied by Air Liquide, and Chlorine, supplied by CUF.

The Styrofoam[™] unit production was limited by the implementation of improvements in its manufacturing line, leading to a slight decrease in production.

In the Health, Safety and Environment area, Dow Portugal completed 17 years without accidents (Dow employees and contract workers), which reflects the priority given to the safety of our staff and of everyone providing services at our company.

This performance is outstanding at world level.

Moreover, Dow Portugal is proud to have completed five years with no reportable spill or leak (according to the company policy, a reportable spill is any spill of chemical product over 50 kg, though for some specific chemicals, the reportable quantity is above 1 Kg).

This performance reflects the company's commitment in terms of Health, Safety and the Environment, excellent operating practices, state-of-the-art technology and the focus on preventive maintenance on pipe works, valves and equipment.

In 2007, Dow Portugal was subject to several internal and external audits in various areas, namely technology, loss prevention, quality, etc. All audits certified the company's high level of compliance with internal and external rules, namely TS16949.

As far as the 6 Sigma programme is concerned, we had one Green Belt Project Leader and two Green Belts certified.

Dow Portugal has used the 6-Sigma methodology for many years for problem-solving, defect reduction and to improve competitiveness.

The company invests on continuous training. In 2007, we spent 6,316 hours on training in order to ensure that our employees apply the best techniques and well-prepared to face any challenge that may arise in the Safety, Health and Environment areas as well as in the technical and behavioural areas.

Both through PACOPAR as well as on its own initiative, Dow Portugal sponsored various projects presented by the Estarreja Community.

The expansion projects of its two industrial units - PMDI and StyrofoamTM were approved according to plans and are presently under development; they should be completed until the end of 2008.

We anticipate an excellent performance for 2008 for the benefit of Dow Portugal, its employees, customers, suppliers and surrounding community.

When we want to do it - we can do it!!!





DOW PORTUGAL



Indicator	Units	2003	2004	2005	2006	2007
	THE COMPANY					
Share Capital	K€	4 762	4 762	4 762	4 762	4 762
Nr. of Employees	N€	105	101	96	99	104
Annual Sales Volume	K€	46 840	67 848	77 192	80 172	110 890
Total production	tons	89 159	104 581	98 041	104 835	98 226
·	CAFFTY AND FARINDONIA				<u>'</u>	
	SAFETY AND ENVIRONM					
Accident Frequency Rate		0,0 0,0	0,0	0,0	0,0 0,0	0,0
Severity Rate Accident Incidence Rate		0,0	0,0 0,0	0,0 0,0	0,0	0,0 0,0
Number of fatalities		0,0	0,0	0,0	0,0	0,0
Safety and Environment Expenditure	€ / Sales	*0,10	*0,10	0,63	0,81	9,77
Investments	K€	773	203	320	704	10,835
	HEALTH					
Noise 85-90 decibel	%	12,6	12,0	34,0	34,0	28,0
Noise >90 decibel	%	15,9	12,0	12,0	12,0	12,0
Occupational Health frequency rate		0	0	0	0	0
Health related expenses	€/employee	790	838	855	890	1,051
	GAS EMISSIONS					
Particles	tons	2,0	4,7	1,7	3,7	5,45
Sulphur Dioxide	tons	1,10	0,80	0,90	2,00	5,97
Nitric Oxide (in NO2)	tons	49,9	49,4	61,4	74,1	45,8
Carbon Monoxide	tons	12,9	0,8	4,9	1,5	2,1
Heavy metals (total) VOC	tons tons	0 1,3	0 9,0	0 8,8	0 9,5	0 8,1
VOC		1,0	7,0	0,0	7,3	0,1
	LIQUID EMISSIONS	1		1	1.00	
CQO	tons	31,0	26,8	13,7	**0 **0	**0 **0
SST Phosphorous compounds	tons tons	23,2	24,2	10,6 0,16	**0	**2
Nitro compounds	tons	6,40	3,00	2,19	**0	**8
As	tons	NA NA	NA NA	NA NA	NA NA	NA
Cu	tons	NA	NA	NA	NA	NA
Cr	tons	NA	NA	NA	NA	NA
Cd	tons	NA	NA	NA	NA	NA
РЬ	tons	NA	NA	NA	NA NA	NA
Hg Ni	tons tons	NA NA	NA NA	NA NA	NA NA	NA NA
Zn	tons	NA NA	NA NA	NA NA	NA NA	NA NA
	WASTE					
For recycling	tons 22	35	92	79	131	126,4
Hazardous waste for final disposal	tons 42	236	251	222	242	77
Common waste for final disposal	tons 57	37	30	32	34	30,1
	CONSUMPTIONS					
Energy	MJ / ton	11 425	9 498	9 625	9 460	9 467
Water	m3/ton	10,1	9,1	8,6	8,4	8,79
	DISTRIBUTION INCIDENTS					
TONS DISTRIBUTED (TOTAL)	tons	196 614	218 250	195 778	183 351	167 059
- By train	tons	NA	NA	NA	NA	NA
- By road	tons	93 235	105 569	93 921	103 872	97 341
- By sea	tons	74 524	78 666	69 080	79 479	69 718
- Waterway - Pipeline	tons tons	NA 28 855	NA 34 015	NA 32 777	NA 35 113	NA 32 300
NR. OF INCIDENTS (TOTAL)	nr.	20 000	34 013	32777	35113	32 300 0
- By train	nr.	0	0	00	0	0
- By road	nr.	0	0	0	0	0
- By sea	nr.	0	0	NA	0	0
- Waterway - Pipeline	nr. nr.	NA Na	NA NA	NA	NA NA	NA Na

^{*} only expenses in safety ** connection to SIMRIA

Throughout the 2006/2007 school year, 8th grade students of the of the EB 2,3 Padre Donaciano de Abreu Freire School carried out various activities on Environmental Education, namely in the Project Area curricular subject.



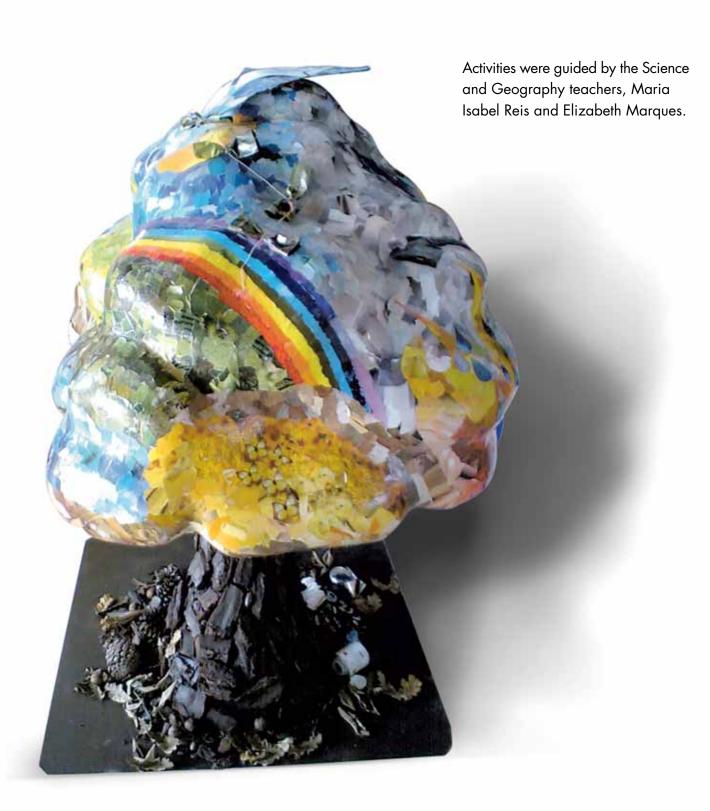
These activities were developed in accordance with the guidelines set forth in the General Activity Plan for Forest Clubs - PROSEPE (raising awareness within the school population). A one-day trip through the "BioRia Route", participation in the Forest Olympiads, the Forest Exhibition, the "Magic Forest" photograph contest and the development of various activities on school grounds are worth mentioning.

Students also participated in the "School in Nature" project with a two-day activity programme a night at the S.Jacinto Natural Reserve Dunes, and the "Tree Parade 2007" national contest organized by the General-Director for Forest Resources, which included the decoration of a tree under the theme "Protecting forests from fire".



ESTARREJA EB 2-3 SCHOOL







EDUCATIONAL OFFER FOR 2008/2009

EDUCATION AND TRAINING COURSES (BASIC)

LEVEL II · TYPE 2

These courses are intended for young people aged 15 to 18 in risk of abandoning school, having completed the 6th grade or attended the 7th or 8th grades without progress. These courses grant a diploma equivalent to 9th grade and a Level 2 professional qualification.

- Industrial Equipment Electro mechanics
- Gardening and Landscaping
- Installation and Operation of Information Systems

REGULAR SECONDARY SCHOOL COURSES

- Science and Technology scientific-humanistic
- Language and humanity scientific-humanistic course
- Social economics Course

NIGHT SCHOOL COURSES

These courses represent a second opportunity to those wishing to complete school cycles. Any 18year old or older having completed the 9th grade can enrol in these courses.

The curricular programmes of these courses are equivalent to those of day school.

SCIENTIFIC-HUMANISTIC COURSES

Science and Technology Social and Human Sciences

TECHNOLOGICAL COURSES

Administration

PROFESSIONAL COURSES

Technical Professional Course in Legal Services Technical Professional Course in Electrical Facilities

racopar,

PROFESSIONAL COURSES

These are mainly intended for students who having completed the 9th grade seek a more practical education focused on the labour market. The successful completion of a professional course confers a secondary education diploma and a Level 3 professional qualification certificate, allowing students to continue studying/training via a Technological Specialization Course or granting access to higher education, subject to the requirements for access to higher education.

- Technical Professional Course in Laboratorial Analysis
- Technical Professional Course in Electrotechnics
- Technical Professional Course in Renewable Energies
- Technical Professional Course in Information Management
- Technical Professional Course in Information Systems Management and Programming
- Technical Professional Course in Marketing Technical Professional Course in Multimedia
- Technical Professional Course in Metalomechanics production
- Technical Professional Course in Environmental and **Rural Tourism**
- Technical Professional Course in Business Management (NEW)
- Technical Professional Course in Sales (NEW)
- Technical Professional Course in Accounting (NEW)
- Cultural Assistant Professional Course (NEW)
- Technical Professional Course in Legal Services (Night School)
- Technical Professional Course in Electric Facilities (Night School)

TECHNOLOGICAL SPECIALIZATION COURSES

SHORT-TERM POST SECONDARY COURSES

In partnership with the Aveiro University **LEVEL IV**

Technological Specialization Courses are intended for: - holders of secondary course or legally equivalent education or those having passed the 10th and 12th grade and being enrolled in the 12th grade of a secondary school course or legally equivalent course without having completed it yet; holders of level 3 professional qualification; holders of a technological specialization diploma or higher education diploma wishing a professional requalification.

- Electric Facilities and Industrial Automation
- Mecatronics Technology

ESTARREJA SECONDARY SCHOOL



ANTUÃ NEW OPPORTUNITIES CENTRE

Adult citizens may want to add value to their life experience via a skill recognition process, obtaining a certificate which, for all legal purposes, is equivalent to the 1st, 2nd and 3rd grades of Basic School and Secondary School.

CNO Opening hours: 9:30 - 21:00.

EFA COURSE ADULT EDUCATION AND TRAINING

This course is intended for adults wishing to complete the 3rd cycle of Basic School. It is a night school course.

CIVIL PROTECTION CLUB ESTARREJA SECONDARY SCHOOL



AB ESE PROJECT WITHIN THE SCOPE OF SAFETY AND PREVENTION

At a time when we all agree it is necessary to encourage young people to citizenship and responsibility, the creation of the Civil Protection Club of the Estarreja Secondary School, in collaboration with various entities, namely the Estarreja Municipal Council, the Estarreja Fire Brigade, the Local Police and the Aveiro CDOS (SOS Operations Command), was the opportunity and the right move to develop a common education strategy on safety hazards and prevention as a crucial element in the construction of a Safety Culture.

The main goal of the club will always be to make education for hazard prevention and mitigation a priority, reaching all groups within the community especially young people, transmitting knowledge, attitude and prevention practices, self-prevention and action in hazard situations, either in everyday or spot situations, as Educating to Safety is Educating to Prevention.

However, it is important to include education to safety in a methodology aiming at raising young people's awareness to other equally important subjects of civic participation and educating for an intervening and responsible citizenship in other areas as well: health, sustainable environment, rights and consumption.

The personal development and learning process will always be interactive; hence the project of the Civil Protection Club of the Estarreja secondary School will allow the construction of a new practice... which seeks to build new learnings, resorting to the following dynamics: young people's participation with enthusiasm and availability; creativity; responsibility; teamwork; courage to face risks albeit safely; flexibility; inter disciplinarity; pluri dimension of problems; theory/practice dynamics; ability to research; etc.

Besides these dynamics, learning conditions in this first year of the Club's existence also involved guaranteed access to knowledge and information via awareness and training actions (lectures on "Emergency Plans" and "Forest Fire Prevention"), study visits, (CDOS of Aveiro and CIRES), thematic exhibitions on wall newspaper, creation of a slogan for the club "With Civil Protection now and always... We're good!" the choice of a mascot, construction of a website, etc. These were some good ideas of the two classes involved in the project – namely 9thX and 9thY Classes of the Education and Training Course – Software Operator, during innovating and active working sessions rising the interest and motivation of all involved.

Worth mentioning is that the implementation of this kind of project sets new alternatives for students with learning difficulties. Some of these students, when faced with a different work methodology, are subject to new situations and roles, new interpersonal relationships, new representations of themselves, seeing this opportunity as a success in their school lives.

The Civil Protection Club of the ESS fits in this context - a dynamic space for the construction of knowledge, with new social responsibilities, where students are able to understand the meaning, effects and advantages of a safety culture in their life. The School Executive Council intends to continue this project in order to encourage a participative and dynamic "safety culture" where young people may commit themselves to acquiring knowledge, consolidating behaviours and stances of a preventive nature.

"All for a Safety Culture and many for a School served by and serving everyone." (Mission of the ESS Civil Protection Club)





Health institutions hold a noble function for which they are respected but at the same time, they are closely scrutinized by the entire community.

The Visconde de Salreu Hospital facilities have a rich architectural heritage and their walls are filled with history and memoirs; however, an operation satisfying modern day requirements is not easily adjustable to the age of this illustrious building.

That is why to accommodate the new mission of the Visconde de Salreu Hospital it is necessary to revamp, rebuild or even adapt the Health Centre. Besides In-patient health care provision in the areas of internal medicine, surgery and orthopaedics, the hospital provides out-patient consultations in the following areas:

Otolaryngology; Pneumology; allergology; Gynaecology; Paediatrics; Orthopaedic Surgery, Nutrition; Clinical Pathology; arterial hypertension; Physiatrics: Internal Medicine and Occupational Medicine: Physiotherapy; Radiology and Clinical Tests, Emergency Services, Pharmacy and Surgery Theatre, Administrative Services, logistics facilities, and the recent Cerebral Vascular Accident Recovery Unit. It is to find room for Continued Care and Outpatient surgery which our hospital must remain pursuant to the protocol entered with the Estarreja Municipality and ARSCentro, I.P, approved by the Health Ministry on 24/07/08.

It is understandable that this new course established for the Visconde de Salreu Hospital requires planning for the future. Future generations would not forgive any decision lacking ambition and strictness.

The technical bases for this planning namely operability/cost/time have undergone three alternatives.

VSH Turnover	2007
Nr. emergencies	43.063
Nr. of admissions:	
Patients dismissed	1 519
Internal transfers	15
Nr. Major Surgerie	s
General Surgery	418
Orthopaedics	204
Nr. minor surgeries	1 158
Nr. out patient appointments	9 437
Nr. Clinical tests	44 186
Nr. Imaging Exams	S
Echography	3 806
X-Ray	23 501
Nr. Physiotherapy Treatments	30 203



VISCONDE DE SALREU HOSPITAL



It is also necessary to consider that the Santa Casa da Misericórdia de Estarreja has a unique history of health care and that the central government will not cease to help it and that this aid will mean its inclusion in the National Network of Continued Care (medium and long duration).

THUS, EVERYONE WILL BE LIABLE FOR RESPECTING THE PAST WITHOUT MORTGAGING THE FUTURE





Sever do Vouga Estarreja Murtosa Albergaria-a-Velha

When 12 years ago a small group of traders was capable of **transforming** a good idea into an associative project, surely it did not anticipate that it was taking the first steps towards an association which presently represents the will and commitment of a large number of businessmen from many different sectors

SEMA's history is simple – to recognize the ability of associative movement and allow that men and women and an increasing number of young people with enterprising spirit recognize that companies, large or small, are changing and that the challenges of productivity and competitiveness can only succeed through the discussion of ideas, projects and concepts relating to an associative movement.

SEMA's philosophy is based on work and the following motto "we can always do better".

Our mission is to offer our associates the satisfaction of their needs and acting jointly, create synergies and capacities which on an individual basis are difficult or even impossible to achieve.

This task never ends, being therefore enticing and unceasing. By joining hands and combining efforts we are capable of **transforming valid ideas into successful ventures**.

That is why in 2007 and 2008 we continued to invest in Professional Training and Quality, two major challenges assumed and well accepted by our associates and which represent two important silent revolutions as charts clearly show.

To bank on human resources and quality are sustainable investments which will contribute to a strong, resistant and sustainable economy.

Young entrepreneurs joining this young association will be assured that involved in the same spirit of participation we will build a much better future.

We are certain that with dedication, effort, work and motivation and a supporting base we will contribute to a better world:

SEMA IS YOUR SUPPORTING BASE.

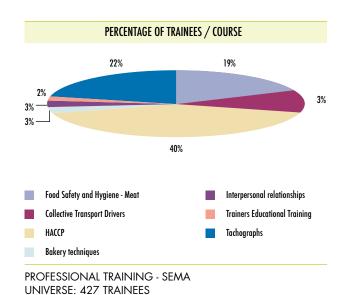


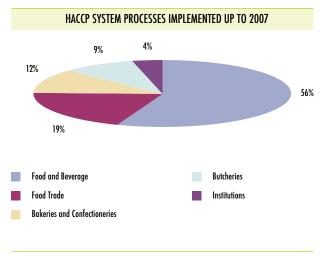
SEMA



TWO SILENT REVOLUTIONS:

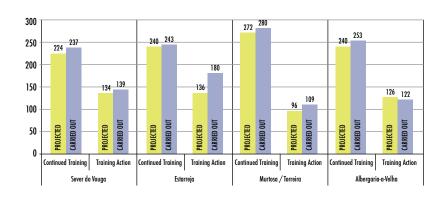
- · Professional Training
- · Food Quality





QUALITY DEPARTMENT UNIVERSE: 162 ASSOCIATES

PROFESSIONAL TRAINING WITHIN THE SCOPE OF URBCOM - MARKET URBANISM





TJA IN 2007

TJA CARRIES THE BIORIA PROJECT

The World Environment Day will mark the start up of an initiative agreed between the Estarreja Municipality and TJA - Transportes J. Amaral, S.A. meant to show the natural beauty of the low Vouga River. In fact, two long distance trucks will adorn European roads exhibiting images of the BioRia project, with fauna and flora landscapes of the Low Vouga River.

BioRia is a local pilot project aiming at the preservation of nature and bio diversity; the environmental recovery and requalification of deteriorated areas and raising environmental awareness. It is based on principles of sustainable development and aims at maintaining ecological balance.

TJA has strong environmental awareness and seeks to mitigate the impact of its activity on the environment. Therefore, TJA is pleased to collaborate in this project which will show up and promote the town of Estarreja throughout Europe, displaying images of the natural/environmental landscape of Estarreja.

ENVIRONMENTALLY FRIENDLY ADBLUE

Anticipating the entry into force of a new specification on gas oil in the European Union (2009), TJA holds an AdBlue service station since March 2007. AdBlue is a chemical product of synthetic origin, made up from natural gas, allowing the reduction of emissions of nitrogen oxides from the exhaust pipes of diesel vehicles equipped with selective catalytic reduction (SCR) technology.

It is a clean non-toxic solution that can be handled safely and which protects the environment.

AdBlue is carried in specially designed tanks which are normally located close to the diesel tank, though it does not mix with the fuel.

SCR systems using AdBlue convert harmful oxides of nitrogen (NOx), one of the main air pollutants, into an innocuous mixture of nitrogen and steam, thus protecting the environment.

CERTIFICATIONS

TJA is certified according to the following standards since June 2007: NP EN ISO 14001:2004 (Environment) and NP EN ISO 22000:2005 (Food Safety). Its Integrated Management System now covers two new areas (Environment and Food Safety) besides Quality, Safety and Occupational Health.

The company's sustained growth combined with its customer needs and demand triggered the implementation of a Quality Management System which was certified in January 28, 1997.

In December 1998, TJA was assessed according to CEFIC - Safety and Quality Assessment System (SQAS), taking one further step towards development and guaranteeing higher safety to people and the environment when transporting hazardous products.

The system was reassessed in July 2003. In 2001, TJA implemented an Integrated Quality, Environmental and Safety Management System to maximize the benefits of all people involved in its organization: customers, employees, suppliers, stakeholders and surrounding community.

In January 2003, the company was certified according to ISO 9001:2000 (transition) and OHSAS 18001 (concession). Its Integrated Management System was renewed in 23/01/2006.





TJA



CARGO CAPACITY	Indicator	Units	2003	2004	2005	2006	2007
Marie 1987 1988 1988 1989		EWDI UALEZ					
WINDIAND COR	Annual Avarago	EMI LOTELS	207	330	274	411	127
MITH MUTION	Alliloui Aveluye		271	330	370	4111	43/
Trigitaty 1978 2215 2378 246 279 279 270 281 2		VEHICLES					
Trush			100	0.15	207	2//	007
Marie Mar							
Tealers CARCO CAPACITY			40	40	43	47	47
Tests			227	248	286	327	354
Tests		CARCO CAPACITY	·	'	· ·	•	
DINST TRAINSPORTED 1900 000 2 015 500 2 775 500 2 793 500 2 771 5200 10 01 01 01 01 01 01 000 2 015 500 2 775 500 2 993 500 2 771 5200 2 797 500 2	Tons	CAROU CALACITI	5 200	5 001	4 222	7 049	7 704
Persistang 1900 2015 00 2175 00 2175 00 2185 00 2185 00 2185 00 2185 00 2185 00 2185 00 2185 00 2185 00 2283 400	IUIIS		3 300	7 001	0 333	7 002	/ / / / 0
Time		TONS TRANSPORTED					
Transpire Tra			1 900 000	2 015 500		2 393 500	
Earto liberian			1 070 000				
Entro- Businaria 6.4 pt 5.5 pt 7.0 pt 5.5 pt 5.0 pt 5.5 pt 5.0 pt	10101		1 970 000	2 003 100	2 233 400	2 404 300	2 / 99 030
Berein		KM TRAVELLED					
Tarel				7 010 535			
BUSINESS DEVELOPMENT Entre Berinn			19 902 467		27 250 160	29 074 966	31 050 342
Ectro Iberian	lotal		26 378 324	29 887 324	34 747 059	3/ 002 692	39 719 387
Serian		BUSINESS DEVELOPMENT	Ţ				
Serian	Extra-lherian		4 659 917	5 222 974	5 709 754	6 138 953	6 293 967
Advanced CROSS FIXED ASSETS CROSS STACE ASSE		€	17 009 592	19 096 122	25 179 029	29 751 763	31 567 164
Advanced SAREHOLDERS EQUITY	Total		23 407 945	24 666 067	31 177 214	36 379 864	38 562 612
Advanced SAREHOLDERS EQUITY		CROSS FIXED ASSETS		<u> </u>		<u>-</u>	
Advanced GROSS ADDED VALUE	Advanced		22 147 425	22 7/0 216	24 002 195	26 002 620	28 104 625
Advanced CROSS ADDED VALUE ACCIDENT RATE A	Auvunteu	€	22 107 035	22 747 310	24 772 103	20 002 020	20 174 033
Advanced GROSS ADDED VALUE		SHAREHOLDERS EQUITY					
Advanced GROSS ADDED VALUE	Advanced	€	2 847 819	3 067 143	3 412 014	4 214 398	5 119 102
Advanced			'	'	<u>'</u>	'	
Accident Number Section Sectio							
Average Staff 297 330 394 411 440 140 140 161 151	Advanced	€	9 028 855	9 400 231	10 792 481	12 294 571	14 554 269
Nr. of working hours 603 874 673 114, 763 590,4 833 319,6 819 034 842		ACCIDENT RATE					
Nr. of working hours 603 874 673 114, 763 590, 833 319, 819 934 Accidents with disability 12 13 19 16 30 30 40 418 353 464 397 180 50 50 50 50 50 50 50	Average Staff		297	330	394	411	440
Marciants with disability 16 18 9 17 6 6 Working days lost due to sick leave 373 353 464 397 180 352 3	Nr. of working hours		603 874	673 114,4		833 319,6	819 034
Working days lost due to sick leave 478 353 464 397 180 500 18	Accidents without disability						
CONSUMPTIONS CONS	Working days lost due to sick leave						
Tenguency index CONSUMPTIONS							
Energy			26,5	26,74			7,33
Energy							
Common Waste Mag		CONSUMPTIONS					
Waste	Energy	Kwh (Total)		256 518	268 466		253 256
Value Valu	Gas oil (average)				36,67	36,15	
Vehicle plastic (Non recyclable) Kg	Water	m³		1 094,10	1 103,00	1 222,20	1 158,00
Vehicle plastic (Non recyclable) Kg		WASTF					
Vehicle plastic (Non recyclable) Kg 7 380 6 940 1 830 Glass (Windscreen) Kg 450 Card / Paper Kg 880 Iron scrap Kg 25 480 14 860 23 140 SPECIAL OR HAZARDOUS WASTE Oil filters Kg 4 400 3 800 5 000 Contaminated absorbing material (waste) Kg 4 00 800 Batteries Kg 4 00 800 800 Butteries Kg 16 200 10 450 13 300 Printe cartridges Kg 16 200 10 450 13 300 Print cartridges Kg 8,4 5,4 0 Print cartridges Kg 4,5 1,2 0	COMMON WASTE		1	ı	1	1	
Glass (Windscreen)	Vehicle plastic (Non recyclable)	Kg			7 380	6 940	1 830
Tron scrap Kg	Glass (Windscreen)	Kg Ka					450
SPECIAL OR HAZARDOUS WASTE	Iron scrap	kg Ka				14 860	
Contaminated absorbing material (waste) Kg	SPECIAL OR HAZARDOUS WASTE						
Batteries Kg 2 040 8 380 3 880 Used oil Litres 16 200 10 450 13 300 Degreasant solution Litres 560 590 540 Printer and photocopier toners Kg 8,4 5,4 0 Print cartridges Kg 4,5 1,2 0 Batteries Kg 40 0 40 Oily sludge Kg 7 280 0 5 980 Fluorescent lamps Kg 0 0 9	Contaminated absorbing material (waste)	Kg Ka			4 400	3 800	5 UOO 800
Used oil Litres 16 200 10 450 13 300 Degreasant solution Litres 560 590 540 Print and photocopier toners Kg 8,4 5,4 0 Print cartridges Kg 4,5 1,2 0 Batteries Kg 40 0 40 Oily sludge Kg 7 280 0 5 980 Fluorescent lamps Kg 0 0 9	Batteries	Kg				8 380	3 880
Printer and photocopier toners Kg 8,4 5,4 0 Print cartridges Kg 4,5 1,2 0 Batteries Kg 40 0 40 Oily sludge Kg 7 280 0 5 980 Fluorescent lamps Kg 0 0 9 NEW OILS		Litres				10 450	13 300
Batteries Kg 40 0 40 0 0 40 0 0 0	Printer and photocopier toners	Litres Ka			8.4	5.4	540 0
Oily sludge Kg 7 280 0 5 980 Fluorescent lamps Kg 0 0 9 NEW OILS	Print cartridges	Kg			4.5	1,2	0
Fluorescent lamps Kg 0 0 9	Batteries Oily sludge	Kg			7 280		40 5 090
NEW OILS	Fluorescent lamps	Kg Kg			0		9
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HIGHER EDUCATION AND THE COMMUNITY GO HAND IN HAND

Answering to the latest pressures imposed by the Bologna process and the legal restructuring of higher education institutions, the Aveiro University has proved its vitality and capacity for adaptation and innovation, standing on the forefront of the Portuguese university education.

AU FIGURES

STUDENTS	13.570
Initial education	8.506
Integrated masters	1.936
Post-graduate education	2.718
Post secondary education	293
TEACHING STAFF	1510
NON TEACHING STAFF	622
COURSES	169
Initial education (graduation)	50
Post-graduation	110
(Masters, PhDs and Advanced Post Secondary Courses)	
Advanced	
Post secondary	19

INFRASTRUCTURES	
Campus total area	921500 m ²
Buildings on campus	42
Departments and autonomous sections (university education)	17
High schools (polytechnic school)	4
Classrooms	401
Research labs	255
Computer rooms	24
Study rooms	36
Canteens	4
Residences	21



AVEIRO UNIVERSITY



The Environment and Planning Department (DAO,) holds a vast experience on education and research in Science and Environmental Engineering. 30 years ago, the University was a pioneer in Environmental Engineering in Portugal, with the creation of a degree in this field.

DAO's current staff is made up of 20 professors, 12 non teaching employees, 27 scholarship holders distributed by Post PhD, PhD, Master's degrees and research and a total of 394 students. DAO educational offer includes:

- 1 Bologna Degree (3 years) in Environmental Engineering (1st cycle);
- 4 Bologna Master's degree (2 years): in Environmental Engineering (2nd cycle), in Sea and Coastal Science; The Joint European Master in Environmental Studies and Sustainable Energetic Systems;
- 2 PhDs in Applied Sciences and Environment and Environmental Engineering (3rd cycle);
- 7 (pre-Bologna) Master degrees are still in progress: Health and Environmental Risk; Environmental Management, Material and Waste Recovery, Energy and Environmental Management; Effluent and Water Quality and Treatment; Waste Management and Treatment; Natural and Technological Hazards.

Some DAO members are part of a research unit – the Sea and Environment Study Centre (CESAM, www.cesam.ua.pt) which holds the status of Associate Laboratory granted by the Ministry for Sciences, Innovation and Higher Education since December 2004.









The Aveiro University's relation with the community has always been one of its main priorities. The Science and Technology Open Week is probably the best example of the University's interaction with the outside world. Every year and for a week, the Aveiro University opens its doors to the community, particularly basic and secondary schools, viewing to stir up young students' interest to these areas of knowledge and contribute to their future professional choices.

In the last edition, which took place from 19 to 24 November 2007, the Open Week activities included lectures and lab experiences, covering distinct present-day environmental subjects:

- Forest biomass recovery for heating and energy purposes
- Man induced global warming and climate changes
- Energy and the Environment
- The water cycle and the impact of climate changes
- Bio diesel production from used food oil
- Planning and protection of resources and coastal areas
- The salt world
- Experiences in the wind tunnel

GLOSSARY



WATER

COD - Chemical Oxygen Demand

This parameter measures the amount of organic compounds in water.

N - Nitrogen

Nutrient contributing to the accelerated growth of algae and other micro organisms, triggering phenomena of euphoria in the receiving environment.

TSS - Total Suspended Solids

Non filterable organic particles transported by residual waters up to the receiving environment. Particles are responsible for the turbidity of many superficial waters and the deposition of sludge that result in the depletion of oxygen and the production of bad odours.

AIR

CO - Carbon Monoxide

Gas resulting from partial combustions.

Nox - Nitric Oxide

Gases produced by combustion processes, amongst others, contributing to the formation of photochemical fog and acid rain.

Particles

Solid particles in suspension in a gas environment with irrelevant falling speed.

SO2 - Sulphur Dioxide

Gas resulting from the combustion of fossil fuels containing sulphur. This gas contributes to the formation of photochemical fog and acid rain.

WASTE

Landfill

Waste facility used for controlled above or under ground disposal of waste (source: Decree-law nr. 239/97, of 9 September).

Recycling

Processing, including compounding processes and regeneration of used materials into new products (source: Ministerial Order nr. 15/96, of 23 January).

Waste residues

Any disposable substances or objects complying with the European Waste Catalogue approved by the European Commission and transformed into national law by Ministerial Order nr. 818/97 of 5 September (source: Decree-law nr. 239/97 of 9 September).

Industrial waste

Waste generated by industrial activities as well as those resulting from the production and distribution of electricity, gas and water (source: Decree-law 239/97 of 9 September).

Hazardous waste

Waste that is dangerous to people, animals or the environment in accordance with the Hazardous Waste List approved by the European Commission and transformed into national law by Ministerial Order nr. 818/97 of September (source: Decree-law 239/97 of 9 September).

Urban waste

Domestic waste or similar, including waste disposed by the services sector or industrial or commercial establishments or health care provides not exceeding 1,100 lt per day (source: Decree-law 239/97 of 9 September).

Recovery

Changes that view the re-using of waste namely recycling and energy recovery (source: Decree-law 239/97 of 9 September and Ministerial Order nr. 15/96, of 23 January).

SAFETY

Fi - Frequency Index

Number of working accidents with sick leave per million of hours/man worked

Si - Seriousness Index

Number of working days lost per thousand hours/man worked.

li - Incidence Index

Number of accidents with sick leave per thousand workers (in average).

INDUSTRIAL HYGIENE

Worker exposed to noise

Worker exposed to daily personal noise exposure level (LEP.d) equal or above 85 dB (A) or a maximum peak sound pressure equal or above 140 dB.

OTHER

VCM - vinyl chloride monomer

Volatile organic compound (COV) (pe=13.9 °C and pv=2548 mmHg a 25 °C) soluble in water at approximately 1,1g/l (at 20 °C).



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