THE LITTLE GREEN BOOK
“Development that meets the needs of the present without compromising the ability of future generations to meet their own needs”

1987 – Mrs. Gro Harlem Brundtland, Prime Minister of Norway.

This is the original definition of Sustainable Development. In the 1980’s, environmental issues (depletion of raw materials, climate change, biodiversity loss, pollution, etc.), led to the emergence of the notion of «Sustainable Development».

The idea now is to link economic development with maintaining ecological balances in order to avoid irreversible degradation for future generations and depletion of non-renewable natural resources.
Saverglass commits to Sustainable Development

Our approach

Saverglass’ role is to meet the needs of our market segment – luxury, top-of-the-line bottles – within an environmentally friendly industrial and technological framework that performs at a high economic level and acts responsibly on a social level.

Saverglass’ activity – design, manufacturing and sale of glass containers – consists in implementing a heavy industry process to produce bottles that meet both the aesthetic and functional requirements of our international customer base.

Well aware of the environmental impact of our business and of the ways to control it, we intend to become the reference to the world glass market in terms of Sustainable Development.

Without our expertise, in terms of design and production, being compromised, our Group aims at organizing all our industrial processes and activities to become as efficient as possible and create a kind of “virtuous circle” between the ecological, economic and social worlds.
The plants in Feuquières and Le Havre provide an outlet for household cullet in color glass campaigns (Antique, Champagne, Dead Leaf, Amber and Dark Amber colors). All 3 plants (including Arques) recycle 100% of their own glass.

PRESERVING NATURAL RESOURCES THROUGH THE EFFICIENT USE OF RAW MATERIALS, WATER AND ENERGY.

Glass and recycling

Glass recycling fits perfectly into a Sustainable Development approach: it enables consumer needs to be satisfied while preserving natural resources for future generations.

European countries have been recycling container glass for the past 30 years. Selective sorting is now firmly rooted.

Glass is the only packaging material to be 100% recyclable, i.e. with no deterioration in the physic-chemical performance of the bottles produced from recycled glass.

In other words, a new bottle can be produced from 100% recycled glass originating from 100% of recycled bottles. This leads to an endless cycle of glass re-use in which neither quality nor quantity are affected.

The use of cullet (recycled glass) in Saverglass’ industrial process offers major environmental benefits:

- **reduction in the use of natural resources.** As cullet is a substitute for raw materials (sand, limestone and soda ash).

- **energy conservation.** As cullet melts faster and at a lower temperature than natural raw materials.

- **limitation in CO₂ emissions** into the atmosphere (the use of 1 ton of cullet prevents the direct emission of 250 to 300 kg of CO₂).

- **reduction in the volume of waste.** Therefore preventing additional waste.

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ENVIRONMENTAL CHALLENGES

Saverglass is reducing its environmental impact and its use of natural resources through a constant quest for better efficiency.

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Water and recovery

Saverglass has significantly reduced its consumption of drinking water. The consumption now represents 60% vs. 15% in 2006 (Feuquières Plant). This reduction was made possible thanks to an ambitious program involving the installation of rainwater recovery tanks. Rainwater from the roofs of our storage buildings is recovered and re-directed to these tanks. This water is then used for the furnace cooling systems.

Energy savings

Saverglass is working at reducing its energy consumption. The furnaces used by Saverglass are fitted with a regenerator that re-captures the energy from the gas fumes. In addition, a program was implemented to reduce the electricity consumption generated through the production of compressed air.
IMPROVING THE EFFICIENCY OF INDUSTRIAL FACILITIES AND MINIMISING THEIR IMPACT ON THE ENVIRONMENT.

- Reduction of air emissions
- **Low-Nox burners** installed in all our plants have helped to reduce nitrogen oxide emissions (by 40 to 50% depending on the furnace).

- **Installation of electro filters** in each furnace drastically reduced the environmental impact of air emissions. Before being released into the atmosphere, fumes go through an electromagnetic field that captures the dust particles present in these fumes. Dust is then discharged as waste. The reduction is very high (up to 90%). In addition, the facilities also treat sulphur oxides through lime injection. The lime captures the sulphur oxides in a gas form, which are then held by the filter (efficiency is close to 75%). These electro filters also capture heavy metals, the waste is then sent to the cement factory.

The investment budget for electro filters was 12 million Euros for the 3 sites.

- **The gradual changeover to natural gas** replacing GPL has significantly reduced our CO₂ emissions. The changeover to natural gas in the glass and decorating annealing lehrs has reduced the emission by 2000 tons of CO₂.

By 2014, our furnaces will gradually pass bi-energy, allowing a substantial reduction in CO₂ emissions.

- **ISO 14001 certification**

Feuquières, Le Havre and Arques production sites are ISO 14001-certified.

For a plant to be ISO 14001-certified means that environmental concerns are the highest priority in all its activities and by the entire staff. It also means that the company integrates harmoniously into its environment.

An audit is conducted by an outside firm which involves a systematic, objective and periodic assessment of our group’s effectiveness concerning our environmental policy and program.
Reduction of packaging

Saverglass takes great pride in monitoring its toxic bi-products (by facilitating recycling or waste disposal operations). Practical initiatives are carried out on the production sites in order to better manage waste and limit polluting substances.

In terms of specifications for bottle pallet shrink wrapping, Saverglass has implemented the following initiatives:

- increasing use of translucent covers manufactured from recycled plastic materials (replacing transparent covers requiring use of new raw materials).

- reduction in the weight of the covers: an initiative started in 2004 which reduced the thickness of the double cover by 15%, equivalent to 200 tons reduction of polyethylene per year.

- a partial switch to a single cover (instead of a double cover) started in 2010 that led to a 40% reduction in thickness or a savings of 100 tons of polyethylene per year.
Optimization of transport

In order to reduce the environmental contribution relating to the logistics part of the business, Saverglass starts their daily operation with the most effective way to load trucks which transport the finished products. Optimizing the bottle packing on the pallets maximizes the use of the available volumes in trucks and containers.

The proximity of each of the production sites also encourages exchanges and promotes the use of sea transportation as a priority. 32.6% of the main raw materials are delivered via waterway. Goods can be transferred quickly from one site to another to enable logistics co loads or to carry out coating and decoration operations at Saverdec (the decoration plant in Feuquières), or at the Saverplus acid-etching site in Coulommiers. Another advantage is that our plants in Le Havre and Arques are located in close proximity to the main harbours in France, Belgium and the Netherlands, facilitating export operations, while our new plant was built close to Dubai and its port, at the crossroads between Asia, America and Africa.

CONTROLLING AND LIMITING OUR ENVIRONMENTAL IMPACT.

Reducing emissions from all sources

A number of socially responsible initiatives are implemented within our organization such as our state-of-the-art automated light management system. These small initiatives, when multiplied by the number of co-workers, have a significant impact on the environment.
ENSURING VALUE-CREATING GROWTH TO EVERYONE INVOLVED IN OUR SUCCESS

Growth strategy

Saverglass has profited from a sustained and regular growth over the past 20 years: averaging 11% of annual growth over the period.

Development like “premiumization” of Spirits, and more recently of Fine Wines, more differentiation, more personalization, and more segmentation are the kinds of requests Saverglass is faced with on a daily basis.

Our group is therefore committed to create growth for our customer base, partners, suppliers and co-workers.

For Saverglass, this growth cannot be separated from our civic responsibility to participate in the economic and social development in which we operate.

For example, the 2008 opening of the Alphaglass site in Arques has contributed to the industrial revitalization of the Saint-Omer region (Pas de Calais), when its construction created 300 jobs. The 2012 new plant in Ras-al-Khaimah in the UAE has created 180 new jobs.
EXTENDING INDUSTRIAL PERFORMANCE TO SUSTAINABLE DEVELOPMENT ISSUES.

Culture of quality

“Get it right the first time” and “quality through technology”, are assessments that highlight Saverglass. Performance is about packing perfect products as soon as possible from the start of the production run, without using further inspection (consequently meaning additional transport, handling, resorting and disposing of rejects).

This goal for industrial efficiency fits perfectly into a Sustainable Development approach: it is a guarantee to deliver the best quality to clients/users, while saving on resources to achieve it.

In order to continuously monitor and improve efficiency in their plants, Saverglass implemented a Global Performance Index that integrates production efficiency and quality performance. All those involved are committed to getting it right the first time.

The Feuquières, Le Havre and Arques plants are ISO 9001 certified. The Feuquières plant has been certified since 1993 because it was the base of our future development (the workforce increased by 7% since then).

Today, in order to better meet our clients’ needs, Saverglass has integrated the analysis and control of food risks using the HACCP method (Hazard Analysis Critical Control Point) in their quality assurance system which involves the most drastic standards and ensuring product traceability.

All our industrial sites are planned to be ISO 22000 certified by April 2013.
Eco-Design

The “spirit of design”, a key element of creativity and differentiation, is an integral part of the Saverglass strategy.

Without compromising the status of luxury glass manufacturer, Saverglass adopted an eco-design approach for some of its products. This consists of taking a container’s environmental impact into account at all stages of its lifecycle.

The aim is to continue creating special, unique and refined containers using innovative design, but in this case, using a minimum amount of resources in terms of glass weight, dimensions and packaging components, etc.

Saverglass created an “eco-design” logo for new models created under this concept.
Coating / Decoration

With our long-standing commitment to sustainable development, Saverglass offers its customers solutions to the ever-more specialized requirements of its customer base in terms of coating and decoration.

Saverglass is constantly optimizing their glass decoration processes making sure that they are environmentally friendly: the Saveroat® process (winner of the Apave Environment Award), is using water-soluble varnishes to re-create glass color and acid-etching matches through the application of high-performance organic coatings, offering a wide variety of colors and effects.

Organic coatings used to decorate glass have a promising future, innovation both in terms of the materials used and screenprinting techniques will enable the realization of environmentally friendly decorations (no heavy metals, lower in the amount of liquid waste and compliance with VOC (Volatile Organic Components) regulations...).

A part of its newer development in the use of organic decoration, Saverglass has developed facilities and products that make it possible to screen-print new types of organic inks using enamels requiring high annealing temperatures and accurate color to color registration, offering outstanding printing consistency.
CORPORATE AND SOCIAL CHALLENGES

Saverglass has always considered the development of human resources a leading factor in its economic performance. Opportunities created by the growth of our organization allow us to support the professional development of our staff, and attract the best talents in order to guarantee our success. Our ambition is:

COMBINING ECONOMIC DEVELOPMENT AND PERSONAL GROWTH

■ Diversity

By spurring respect and value of differences, the group positions itself as a socially responsible company. Saverglass joined the “Business Diversity Charter” launched in France in 2004 (valuing recruitment criteria that do not discriminate on the basis of the applicant’s age, gender or nationality and allowing selection solely on the basis of professional competence).

■ Recruitment

Attracting and retaining talented staff is one of Saverglass’ key missions. Our workforce has increased twentyfold in 20 years.

Staff recruitment is supported by an active integration policy starting on the first day in the company.

It materializes in the form of a 5 to 6 months training period allowing the new employee time to explore every department of our company. The H.R. Department has developed training and integration sessions specific to each activity. An orientation guide is given to each new staff member upon arrival.
Skills development

Saverglass has yearly one on one training. We offer high-quality training and tailor-made skills development programs to their entire staff. In 2012, 60% of all our staff members took part in this training.

10 years ago, Saverglass created an in-house training session, “School of Glass”, to train and qualify future employees. As a result, in 2008, 15% of the employees trained in 2012 were trained through the School of Glass.

The project to create an in-house “Decoration school” is currently under study.

ENCOURAGING SOCIAL DIALOGUE WITH STAFF

Social dialogue

At Saverglass, social dialogue is open minded and participation is encouraged based on the company spirit of trust and respect. These principles are applied through direct dialog with employees (Quality, Hygiene, Safety, Environment Workshops, Objective Exchange Meetings, etc).

As a group in continuous progression, with a workforce that has grown significantly advertising and reinforcing our values requires ongoing communication. An information magazine called “Transparencies” focusing on company news and Group values was launched in 2006. It is distributed to every employee in the Group, 3-4 times per year.
ENCOURAGING LOYAL RELATIONS WITH SUPPLIERS

Relations with suppliers and subcontractors

In order to contribute to the economic and social development of the local areas, Saverglass encourages significant procurement from local sources and long-term partnerships with SMEs. Saverglass is committed to establish sustainable partnerships with strategic suppliers (mold makers, R&D, etc.) based on mutual respect, transparency, information-sharing and constant communication.

Working conditions

A variable part of our employees’ compensation is based on the financial, industrial, quality and social performance of the Group through an incentive contract.

The health of our employees is always a priority for Saverglass. In that respect, a Safety Management System in accordance with the OHSAS (Occupational Health and Safety Assessment Series) 18001 reference system was initiated. Our aim is to ensure the security and protect the safety of every employee as well as outside contractors by actively managing accident risk prevention.
Since 2008, Saverglass has committed to evaluating its “Carbon Footprint” in order to calculate its environmental impact based on consumption of fossil energies, and to identify our company dependence on this type of energy. This will lead to a more detailed study of the different strategic industrial options (integration of the environmental component in all strategic decision-making) and opportunities for further reductions of CO2 emissions.

In addition, Saverglass has set a mid-term target range for:

- developing decorating processes that will minimize energy consumption and replacing raw materials that contain traces of heavy metals;
- completing R&D projects related to the abrasion resistance of glass surfaces in order to reduce the use of packaging.
- reducing toxic air emissions.
- implementing product traceability rules, meeting food safety standards.