

SUSTAINABLE DEVELOPMENT REPORT 2013

Bobst Group SA



Roseland site, USA

Research shows that consumers hold brand owners and their supply chain partners to a higher standard than themselves when it comes to sustainability, often making purchasing choices based on which company can help them feel that they are making a difference. Such drivers cascade down the supply chain, where they are reinforced by increasingly strict environmental standards and packaging manufacturers' need to improve competitiveness by minimizing waste.

In such an environment, BOBST responds in two ways: by continuing to develop equipment that is more efficient and less wasteful of resources than ever before; and by setting up major initiatives at its different sites throughout the world to optimize their production processes, making them at once more efficient and more environmentally friendly.

OVERVIEW

BOBST is dedicated to safety

Roseland site, USA

In our continuing commitment to safety at the Roseland, USA, site we have taken the following measurements to ensure all technicians working in the U.S. and Canada can conduct all work on BOBST equipment in a safe manner, for their individual safety, as well as the safety of customers:

Web-based Continuing Safety & Certification Program

To ensure that every technician is properly educated to meet all Occupational Safety & Health Administration (OSHA) safety requirements, all our technicians have access to an external website that contains both details of these safety requirements and continuing education safety courses. This website based program, called "e-Leap", allows each technician to complete the safety program on their own, and at their own pace. This safety education is also available to our Technical Services team.

This safety education program will help to ensure that our OSHA knowledge remains a part of our everyday practices as we repair customers' machines.

Utilizing e-Leap allows our team to keep up to date and educated on important safety issues with easy and convenient website access. We also have the capability to store and maintain all safety topics/programs for reference, as well as safety quiz results.

Certification will be required for all technicians, including affiliate technicians coming to the U.S. to perform work, any Technical Services personnel working on customer machines, and any personnel conducting work on equipment in our Roseland Demonstration Center.

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The Roseland site's Safety Manager collaborates with any technicians from our affiliate locations who are currently, or will be in the future, working in North America to ensure that they are included in the safety courses and I.D. program. For example, if a technician from our Lyon site is due to perform any equipment services for customers in the United States or Canada, they will also have access to the Safety & Certification Program; receive a technician safety kit, and a BOBST employee identification card.

Technician safety kits

Each technician is provided with a safety kit that includes safety glasses, ear plugs, safety shoes, safety padlock, safety hasp, and LOTTO (Lock out tag out) card with name and picture, in both English and French.

BOBST employee identification cards

The Roseland site produces I.D. cards that identify our technicians as employees of BOBST, denotes their safety course certifications, and also includes their photograph. While traveling and working at customer sites, our technicians are required to keep their I.D. cards on their person, and be prepared to show their I.D. and safety certification(s) upon customer request.

Environmental aspects of the BOBST FFG 8.20 EXPERT

Lyon site, France

The new BOBST FFG 8.20 EXPERT is a machine of high design quality that meets most of the demands of the corrugated board market. Of the compact Rapidset type, the FFG 8.20 EXPERT is easy to install and run, and produces 22'000 sheets/hour.

This machine is dedicated to the market for traditional American boxes and half boxes – for which profitability is particularly vital, and the mechanical performance of the box essential.

Constantly listening to market needs and conscious of the global imperatives about the environment, we have designed this machine to offer customers the best production, yet with optimized consumption.

In terms of its carbon footprint, we can say that the FFG 8.20 EXPERT is «Green as a Dollar».



The new BOBST FFG 8.20 EXPERT

Firstly, the amount of paper consumed is significantly reduced thanks to the machines' non-crush feeder. This keeps up the 'box compression test', or BCT, quality, and thus allows a wider use of carton types and even lighter cartons.

During the development of the machine, we paid particular attention to the reduction of waste. The objective was clear: for each setting, the first box should be salable. This was achieved thanks to the ergonomics of the machine, especially of the new MPC4. This device allows particularly fast change-over through the use of a high technology touch screen with macro-commands. The operator can view and interact directly with a 3D representation of the box, and thus refine the settings: after which 34 coded axes move simultaneously.

Finally, the concept of managing the vacuum was totally modified. It is now generated and adjusted in real time and at the appropriate level in relation to the size of the box. This results in a decrease in energy consumption, less noise and maintenance.



Shanghai site, China

LED lighting system modification

Shanghai site, China

- Build up a green, safe and healthy environment.
- Commit the corporate social responsibility policy to environment protection.
- Create a harmonized and sustainable environment.

Above is the Shanghai, China, site’s environmental policy, which the plant has been committed to for over six years.

The site established its environmental management system in 2008 and obtained the ISO 14001 certificate in 2009. In 2011, the site successfully passed the repeat audit.

LED Lighting System Modification Project

Energy saving and waste reduction are key elements of the site’s environment, health and safety system. Since 2013 the site has paid more attention to its lighting system, which constitutes a large part of its energy consumption, so that it can fulfill the environmental target set at the beginning of 2013. After analysis and a market survey, a Lighting System Modification Project was defined as an important element in the continuous improvement in the Shanghai site.

The introduction and pilot testing of the concept has been completed and the plant’s current halogen lamps will be replaced step by step as they stop working.

Estimated benefit

It is estimated that replacing the current lamps with LED’s will bring an energy saving of over 60% to the Shanghai site, as well as creating a brighter workplace with less hazardous waste.

	Current – Halogen Lamps	Future – LED
Unit energy consumption	5.3 kwh/d ⁽¹⁾	1.7 kwh/d ⁽¹⁾
Total energy consumption	5.3×300=1’590kwh/d ⁽²⁾	1.7×300= 510kwh/d ⁽²⁾
Energy saving		1’080 kwh/d
Cost saving		1’080 RMB/day 270’000 RMB/year

⁽¹⁾ Average data from pilot test in November 2013. Five pairs of halogen lamps and LEDs tested for 11 days.

⁽²⁾ There are 400 halogen lamps in total in the workshop, around 75% of which are used every day.

What is LED?
LED is a new lighting technology which creates energy savings and generates fewer polluting substances than the current lighting solution. It is friendly to the environment.

Current Lighting Solution	LED Solution
High energy	Low energy
Hazardous waste	No hazardous waste

Update on green initiatives

Mex site, Switzerland

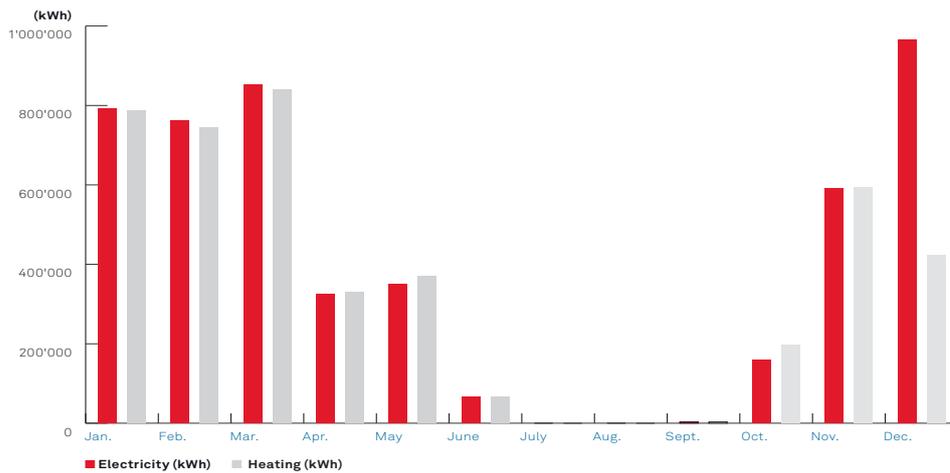
Electrical energy

For the first time in 2013 we were able to operate and monitor the performance of the new energy facilities installed on the Mex site during a whole year.

In the heating periods of 2013, the cogeneration (combined heat and power) installation generated more than 4'800 MWh of electricity.

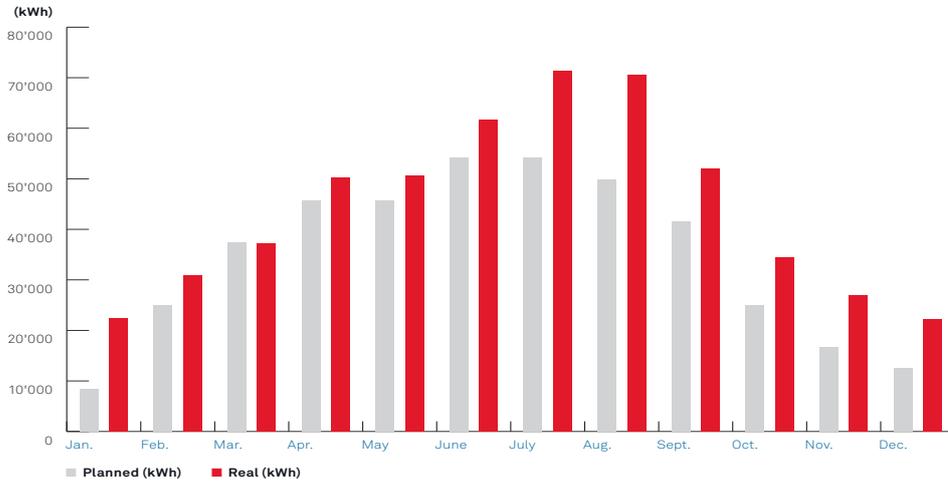
The production of electrical energy by this system is highly dependent on the weather, since it increases depending on heat demand in winter.

Production of heat and electricity with cogeneration installation



The 2'800 m² photovoltaic system equipping hall J has in turn produced more than 520 MWh: 110 MWh more than the planned annual production.

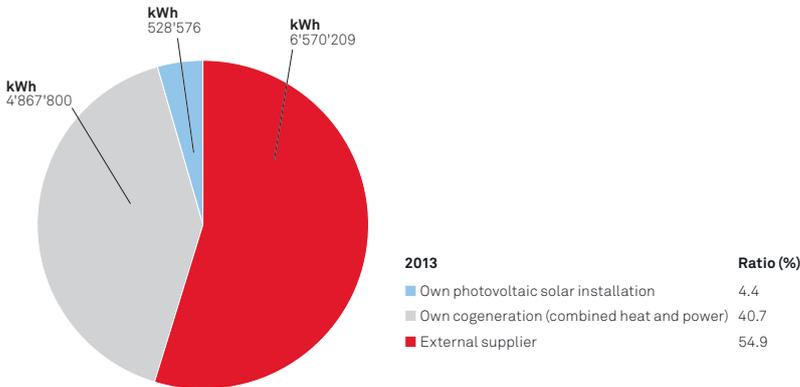
Monthly production of photovoltaic installation



Energy production by the photovoltaic installation has enabled the Mex site to save 292 tons of CO₂.

Both installations have enabled us to produce on site more than 45% of the electrical energy consumed.

Distribution of electricity consumption (Mex site, Switzerland)



Water

Thanks to the installation of a 250 m³ tank for storing rainwater, more than 8'500 m³ of grey water was used for sanitary and industrial processes. This represents over 34% of the 2013 water consumption of the site.

Transport

With a dual carriage road-rail framework set up in partnership with the carrier «Camion Transport Wil», over 40 tons of CO₂ were saved on 6'330 transport operations in 2013.

An important year in terms of certifications

Bobst Group

Always conscious to develop their activities in an eco-responsible way, several Group sites achieved significant ISO 14001 environmental standards certifications during 2013.

The site at San Giorgio, Italy obtained ISO 14001-2004 on June 14, 2013, following an audit conducted by DNV Italia Srl.

The sites at Itatiba in Brazil, Pune in India and Mex in Switzerland passed their renewal audits in the course of 2013, and are therefore certified for a further period of three years.

All certified sites have implemented a continuous improvement process utilizing the PDCA (Plan-Do-Check-Act) framework. Through objective settings, the implementation of concrete measures and the monitoring of indicators, the sites check and improve their environmental performance. Their results are reviewed regularly at meetings with site management.

At the end of 2013, ISO 14001 certification covered the activities of 94% of the Group's employees, and allows us to demonstrate the efforts of BOBST in the field of environmental protection.

DASHBOARDS

CO₂ energy emissions per m²

CO₂ production increased by 6.9%, while useful surfaces decreased by nearly 15% with the closure of the Prilly site. This increase is mainly due to a higher consumption of gas between January and April 2013 to complete the move from Prilly to Mex. A drop in average temperature of 0.8°C in the Lausanne region was also a contributory factor.

Waste

The amount of waste per million of Gross Added Value (GAV) has slightly decreased. Due to the increased use of sites, production of waste has increased slightly (+ 3.2%). On a volume of 5'500 tons of waste, more than 78% was recycled (mainly metals 64%, paper and board 14%).

Electrical energy

Given the Group's transformation program, an increase of 10.5% for this indicator has been seen, whereas if the energy consumption is related to the GAV, there is a kind of stability. This shows that the 6.5% increase of the energy consumption is mainly due to the increase in the use of the sites.

Industrial accidents

Measures implemented at the different sites have allowed us to reduce by 10'000 the hours of absence related to accidents at work. The sites of Lyon and Mex recorded a sharp drop, thus contributing to this excellent result.

Water consumption

Total water consumption increased by 6.36% for climatic reasons (watering) and the increased use of sites. The decrease in the Group's total workforce also contributed to raise this indicator.

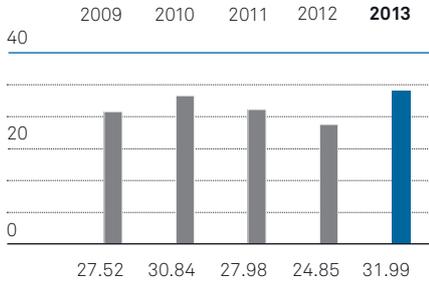
OBJECTIVES

In order to help reduce the impact of our activities on the environment and anticipate challenges in terms of energy transition, the energy strategy of the Group will be a business project to bring out the improvement potentials throughout the value chain.

For any questions about sustainable development, e-mail: sustainable-development@bobst.com.

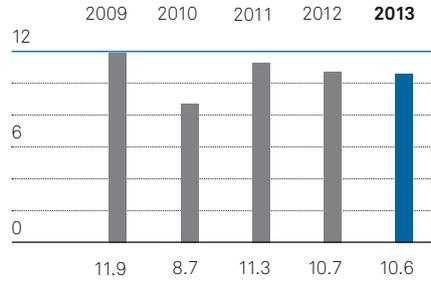
DASHBOARDS

CO₂ energy emissions



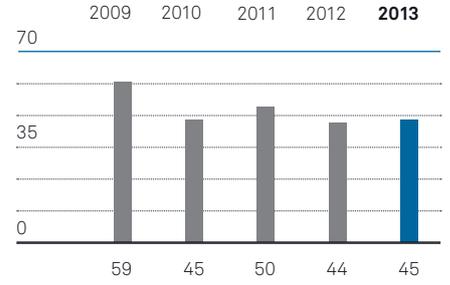
kg CO₂ per m² ground surface

Waste



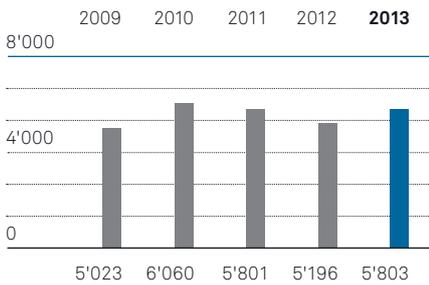
tons per mio GAV*.

Electrical energy



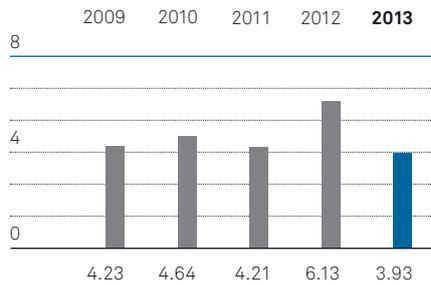
MWh per mio GAV*.

Electrical energy per employee



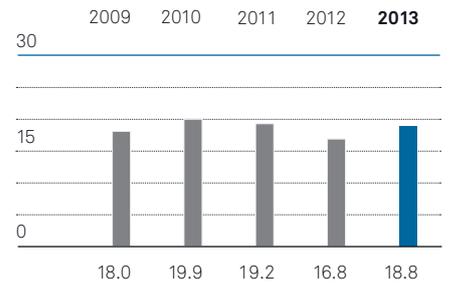
kWh per employee.

Injury at work



lost hours per employee.

Water consumption



m³ per person.

* GAV (Gross Added Value).

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