

PRESS ARTICLE

Case study

02/03/2016

SIDEL HELPS NESTLÉ WATERS TO ACHIEVE WORLDWIDE ENERGY SAVINGS EQUIVALENT TO SHUTTING DOWN 20 OVENS



The Healthy Hydration Company™



As the result of a worldwide energy-saving programme, Sidel has supported Nestlé Waters in achieving reductions in its energy consumption at production sites in countries around the globe. Consequently, the world's leading producer of bottled water has achieved energy savings equivalent to the consumption of more than 20 ovens, representing savings of more than 1 million euros a year.

Nestlé Waters first undertook the conservation programme in 2010 when it challenged its long-term supplier, Sidel, to rationalise the energy consumption of all its production equipment. With over 96 production facilities situated in 35 producing countries around the world, Nestlé Waters naturally places a high priority on improving the environmental performance of its processes, as well as keeping its operating costs to an absolute minimum.

Sidel, the leading provider of production equipment and services for liquids in PET, has worked with Nestlé Waters for over 50 years. The companies recently celebrated this landmark milestone in their lengthy collaboration. This relationship has resulted in many important and significant developments within the beverage industry.

Contact:

Public Relations
Tel: +41 41 785 23 60
press@sidel.com



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Focus on blow moulders brings significant energy-savings

Both companies were already well aware that blow moulding machines generally account for as much as 70% of the total energy consumption of a complete beverage bottling line. When charged with reviewing the efficiency of the company's electrical energy usage, Sidel started by carrying out a pilot Eco audit on two of Nestlé Waters' blow moulders.

After monitoring and measuring the electrical consumption of the blowers, Sidel identified corrective energy-saving measures to Nestlé Waters. One such recommendation was the installation of oven-top reflector lamps to maintain energy in the ovens of the blow moulding machines. This achieved a reduction in the electrical power consumption required for the preform heating process equivalent to turning off 20 preform ovens. Despite this significant energy saving, optimal performance is maintained.

Nestlé Waters was particularly pleased with results attained by the recommendations when they were implemented. "As we achieved around 20% in energy savings, we were really satisfied with the performance resulting from the upgrades to the first two blowers," explained Mr. Stephane Bosshart, Corporate Chief Engineer at Nestlé Waters. "So much so, that based on these results, we decided to apply a full Eco-programme to share those best practices on all of our blowers worldwide," he continued.

Global deployment of energy-saving programme

In close collaboration with Sidel, the energy conservation programme was deployed in all Nestlé Waters' plants worldwide. Local Sidel Services™ teams planned and supplied all the necessary resources for the different interventions at sites in over 30 countries. They also provided technical support for the project. By the end of 2015, nearly 130 Sidel blow moulding machines were successfully converted with the oven-top reflector lamps. All of them will have given a return on investment (ROI) of between six and 24 months.

"The upgrades of oven-top reflector lamps have achieved real improvements," comments Mr. Eric Baronnet of Nestlé Waters. "For example, they have delivered a reduction in the use of blower energy in US plants of up to 25%." Advances such as those achieved in the US all contribute to an annual saving of over a million euros in Nestlé Waters' plants worldwide.

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A combined sustainable approach

Both Nestlé Waters and Sidel are fully committed to achieving outstanding energy savings and contributing to improvements in the environmental performance of products. Working on a continuous sustainability improvement plan, Sidel classifies its production lines according to energy consumption. The company also analyses the reasons for potential waste of energy within the whole blow moulding machine, including the oven, the compressor and the chiller. With Nestlé Waters, Sidel has again collaborated to develop an energy-saving simulator in order to rate the blowers in terms of consumption and to enable solutions to optimise performance.

A long and successful relationship

The history of the Nestlé company began in 1866 when the Anglo-Swiss Condensed Milk Company opened Europe's first condensed milk factory in Cham, Switzerland. The following year saw Henri Nestlé develop a breakthrough in infant food and in 1905 the company he founded merged with Anglo-Swiss to form what is now known as the Nestlé Group. Nestlé Waters was created in 1992 and became the largest bottled water brand in the world in 2008. The company currently boasts 52 unique brands. Those include Nestlé Pure Life, Perrier and S.Pellegrino, all of which are among the many brands to benefit from the close relationship of more than 50 years between Nestlé Waters and Sidel. For instance, Sidel has been involved at every stage of Vittel's development since its commercial production, including the re-design of its distinctive ribbed bottle from a square to round shape. Sidel also worked with Perrier to validate the design of its first-ever PET bottle, providing a range of equipment still being used for the iconic brand, which is widely exported around the world.



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For editorial and advertising enquiries, please contact:
Shaw & Underwood PR
Chris Twigger, Director
Tel: +44 121 454 5584/Cell: +44 7795 423796
Email: christwigger@shawandunderwood.co.uk

About Sidel

Our purpose is to help brands protect the product inside, preserve the planet outside and touch the lives of millions of people every day.

We do so by offering complete and modular PET packaging solutions, including people, services and equipment.

Sidel has over 165 years of industrial experience. With 30,000 machines installed in more than 190 countries, we have been helping producers fill beverage bottles for over 85 years, blow them for more than 50 and label them for more than 40. We have over 40 years of aseptic packaging expertise, and were one of the first companies to introduce PET bottles to the beverage industry over 35 years ago.

Part of the Tetra Laval group, Sidel has offices worldwide, including 8 production sites and 8 training centres. All our experts are committed to creating the optimum liquid-packaging solution.

We call it **A Better Match** - for our world, our customers and ourselves.

Find out more at www.sidel.com and connect with us



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