

ECCBC CAVIBEL

SETTORE BIBITE

Equatorial Coca-Cola Bottling Company

Praia, Capo Verde

Group: Cobega

7,200 BPH PET LINE

- Smiform SR 4 Stretch-blow moulder
- Smiflexi LSK 35F Shrinkwrapper
- Smiline air and chain conveyors
- Rinse-fill-cap monobloc, premix, labeller, inspection systems, electrical distribution.



VIDEO



GEO LOCATION

INSTALLATION / ECCBC Cavibel



The first production of Coca-Cola in the islands of the Republic of Cape Verde dates back to 1997.

Since then, the industrial business linked to the famous carbonated soft drink has evolved considerably and now occupies a prominent position in the local economy both for the jobs it offers (the Cavibel plant in Praia employs more than 100 persons) and the allied industries this activity creates in the surrounding area.

The increase in sales of Coca-Cola in the Republic of Cape Verde has recently led the Equatorial Coca-Cola Bottling Company to buy a new production line for bottling and packaging Coca-Cola and Fanta in PET bottles.

The new 7,200 bottles/hour system was entirely designed, built and installed by SMI, which integrated its own machines such as the Smiform SR 4 stretch-blow moulder, the Smiflexi LSK 35F shrinkwrapper and the



Smiline conveyor belts with machines made by selected partners, such as the filler, the premix, the labeller and the control systems.



CAVIBEL

THE “BUBBLES” IN THE ISLAND OF SANTIAGO



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Cavibel is located in the urban area of the city of Praia, capital of the Republic of Cape Verde and main city of the homonymous County, which is located on the island of Santiago in the Sotavento archipelago. The name “Praia” means “beach” not only in Portuguese but also in different Creole languages of the Republic of Cape Verde. With a population of just over 127,000 inhabitants (as of 2009), Praia is the largest town in the archipelago and is

also the main commercial, harbor and touristic hub. It also hosts one of the country’s two international airports. In Praia they speak a Creole language called “Crioulo de Santiago” (Santiago Creole). The historic city center is situated on a small plateau in the immediate vicinity of the harbor and for this reason the raised platô overlooking the bay is called Platô. Santiago is the largest island of the Republic of Cape Verde and was



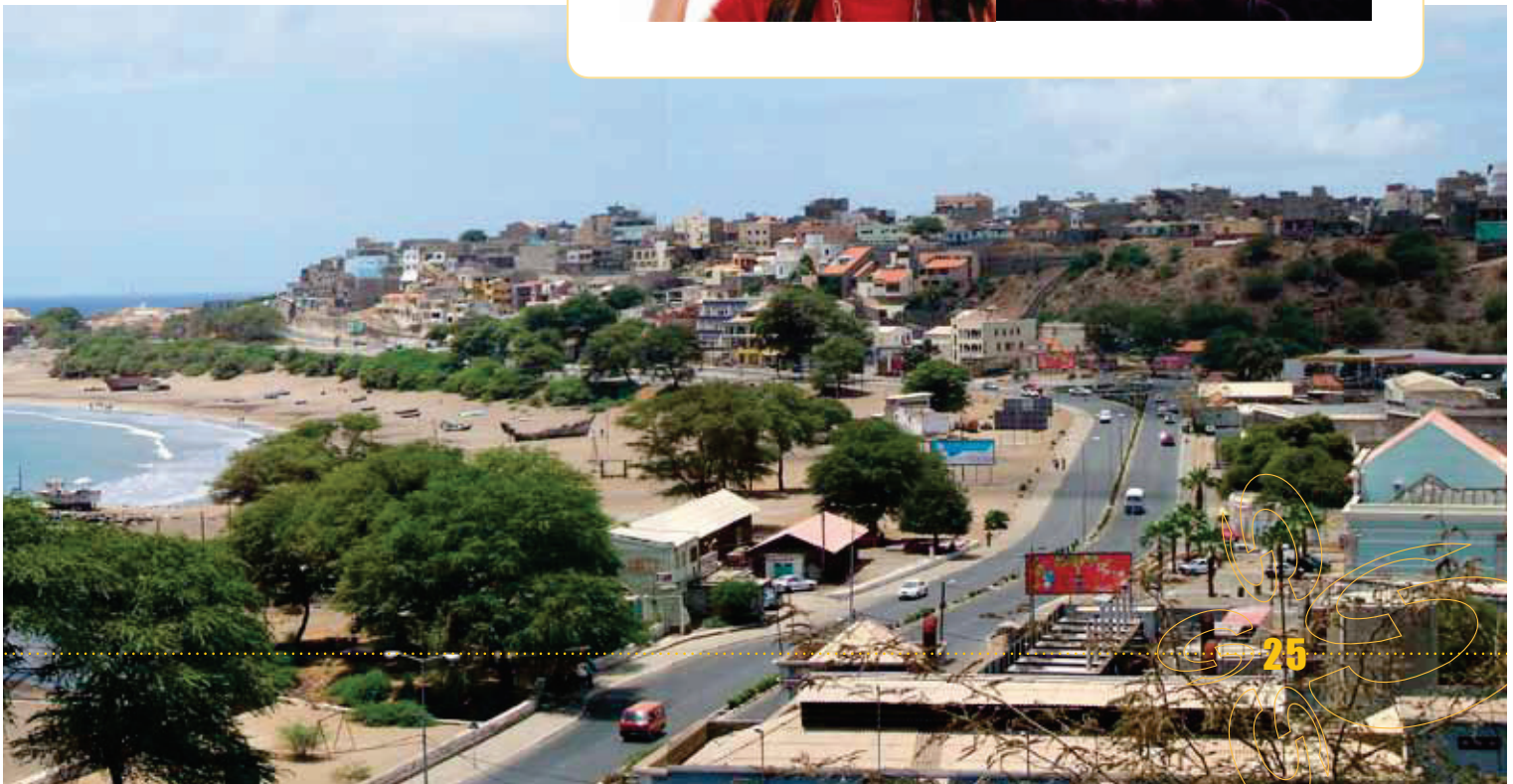
INSTALLATION / ECCBC Cavibel



the first to be populated after the Portuguese discovered it in the fifteenth century. Of volcanic origin, the island's territory is characterized by various mountain ranges and deep valleys of rare beauty that, alternated with the rugged coastline and white sandy beaches, offer a natural spectacle of great charm.

Coca-Cola

Coca-Cola was invented thanks to American pharmacist Dr. John Stith Pemberton who developed the formula for this cola-based drink for medicinal purposes in the late nineteenth century. The patent was bought in 1886 by entrepreneur Asa Griggs Candler who started marketing in glass bottles what would become the most famous and popular drink in the world in 1899. Currently the company that owns the formula, The Coca-Cola Bottling Company of Atlanta, Georgia, produces only the concentrate which it then sells to licensed Coca-Cola bottlers throughout the world; they hold exclusive territorial contracts for the production of the soft drink and its packaging in cans and bottles. Today Coca-Cola is the best-selling or one of the most sold soft drinks in supermarkets, convenience stores, restaurants and vending machines in more than 200 countries on five continents.



EQUATORIAL COCA-COLA BOTTLING COMPANY AND THE COBEGA GROUP

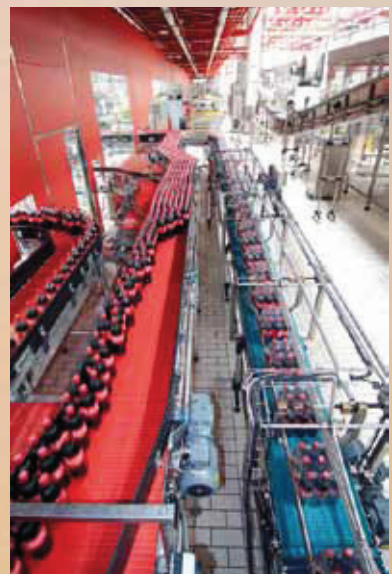


The Cavibel plant in the Republic of Cape Verde belongs to the Equatorial Coca-Cola Bottling Company (ECCBC) that has operations in 13 countries and operates 14 factories with a production volume of about one billion liters in 2011. ECCBC started its production business in Africa in 1989 with only 6 persons and a

production volume of about 300.000 liters. Today it is a joint venture between Cobega and The Coca-Cola Export Co. employing 6263 persons. Cobega, the largest business unit of the homonymous Spanish group, includes bottlers and distributors of Coca-Cola products in Catalonia, Aragon, Balearic Islands, Canary Islands and Portugal.



INSTALLATION / ECCBC Cavibel



Cobega among culture, sport and territory

For over half a century, the companies of the Cobega Group have been actively involved in many activities of social interest associated with the area they belong to: they organize educational and sporting events for school-age children and support local initiatives in cultural, sporting and educational contexts. In 2010, the Cobega Group has supported 7467 initiatives and socially useful events in various ways.



Company) includes production facilities in Central and Northern Africa: Morocco, Algeria, Mauritania, Gambia, Guinea Conakry, Guinea Bissau, Sierra Leone, Liberia, Ghana, Equatorial Guinea and São Tomé y Príncipe.



In addition to Cavibel in the Republic of Cape Verde, the ECCBC business unit (Equatorial Coca-Cola Bottling

“ ECCBC operates 14 factories with a production volume of about one billion liters





INVESTING IN MODERN TECHNOLOGY TO ENHANCE COMPETITIVE STRENGTH



Cobega is constantly aiming to be among the best Coca-Cola bottlers in the world and an important reference point in the Spanish market, adopting business strategies capable of emphasizing its economic excellence. Cobega conducts its business with rigor and determination in order to reduce production costs and improve its efficiency by investing in the continuous improvement of processes and structures in addition to equipping its facilities with the best technologies available on the market. These investments have enabled all the companies of the Cobega Group to expand their production capacities and increase their market shares. The recent expansion of the Cavibel ECCBC plant in the Republic of Cape Verde is part of this process through the installation of a new complete line provided by SMI for the bottling of PET bottles of various sizes (from 0.33 to 2 liters) containing Coca-Cola and Fanta branded products. More specifically the new plant, producing 7,200 bottles/hour, includes a Smiform SR4 rotary stretch-blow moulder, a rinse-fill-cap monobloc and





relating pre-mixer, a rotary reel labeller, a Smiflexi LSK 35F shrinkwrapper for the film only packaging of 0.33, 0.35 and 0.5 liter bottles in the 4x3 collation and 1, 1.5 and 2 liter bottles in the 3x2 and 2x2 collations. In addition, SMI provided all the conveyor belts both for the loose containers and the packaged product, the control systems and the electrical distribution.



••• DID YOU KNOW THAT ...?

1. Coca-Cola is the brand that the Spanish population associates with the concept of happiness (according to a survey conducted by the Sondea Institute on a representative sample of over 2,000 persons)
2. Coca-Cola is the Football World Cup sponsor since 1978
3. Coca-Cola uses recycled materials for packaging
4. Coca-Cola Spain recycles 84% of its waste and in one year alone has reduced the waste of its own plants by 12%
5. For over 50 years, Coca-Cola Spain promotes writing among young people through a special short story competition; since 1969 more than 10 million young people have participated
6. Coca-Cola and Spanish bottlers actively participate in the United Nations Global Compact for the protection of human rights.



AUTOMATION

FOR CUSTOMER BENEFIT

Smiline's conveyor belt systems offer many advantages to the end user thanks to the innovative technology used for the automation and control of plant management operations. Among its main features, the following are worth mentioning:

- competitive price, thanks to the use of inverter-based distributed architecture with built-in motor that require less space for electrical panels and simplify machine wiring;
- simplicity of use, thanks to the presence of a single industrial PC (POSYC) with both control and operator interface functions;
- compact size of the control station, which can be positioned in the line's most strategic point;
- time and cost of wiring the line among the lowest in this category;

- modularity, which allows installing multiple VLS stations within the same system;
- multilingual man-machine interface with touch-screen display;
- operational flexibility;
- quick size change;
- reduced maintenance;
- low energy consumption.



INSTALLATION / ECEBC Covibel



Innovative solutions to protect the environment

The line engineering solution proposed by SMI allows the Cavibel ECCBC plant to optimally manage product flows; in fact, during the project study stages, SMI designers performed a thorough analysis of product build-up, distribution and handling dynamics to ensure fluid and constant production flows as well as maximum operating flexibility of the installed machines.

The use of the latest generation automation and control system, which entails the use of sophisticated sensors positioned in the line's most strategic points, allows to maintain high levels of operating efficiency during all production cycle phases.

All machines provided by SMI are electronically controlled and have been designed in full compliance with the environmental policy of the Coca-Cola Group.

For example, all the motors are equipped with inverters to reduce energy consumption: the Smiform SR 4 stretch-blow moulder is equipped with a system that recovers the compressed air used during the blowing process and Smiline conveyor belts are lubricated with silicone material which allows considerable saving of water and reduced release of organophosphates in the drains.

In addition, the air conveyors between the blow moulder and the filler have filters designed to prevent contamination among the conveyed empty bottles.

