

Coca-Cola uses up to 75% less energy  
with MOVIGEAR®



## Project overview

### Sector

Beverage industry

### Application

Transport line for PET bottles  
and packaging units

### Solution from SEW-EURODRIVE

MOVIGEAR® mechatronic  
drive system

### Communication

SNI technology  
(Single Line Network Installation)

### Customer

Coca-Cola HBC Austria GmbH  
Vienna, Austria

## Project

### SEW-EURODRIVE modernizes a PET transport line for Coca-Cola HBC Austria GmbH, achieving energy savings up to 75%

Coca-Cola HBC Austria, the licensed bottler for the Coca-Cola Company in Austria, planned to modernize transport line 2a, handling Coca-Cola, Fanta and Sprite, at the end of 2009. Lowering energy consumption and reducing CO<sub>2</sub> emissions were the top objectives. After modernization, the valu-

es obtained during the reference measurements surpassed all expectations: Energy saving of 75%, reduction in CO<sub>2</sub> emissions by 41,000 kg per year\*, amortization in less than one year: all through the consistent use of MOVIGEAR®, the mechatronic drive system from SEW-EURODRIVE.

\*in relation to the CO<sub>2</sub> balance in Austria

## Project description

Reducing energy consumption is an important requirement today when modernizing machines and systems and offers great potential for saving energy, and therefore money. That is why Coca-Cola HBC Austria GmbH put these objectives at the top of the agenda for the overhaul of transport line 2a at their bottling plant in Vienna.

The transport line links the bottling plant for Coca-Cola, Fanta and Sprite to the palletizing system via the shrink packer. PET bottles holding 0.3 to 2.5 liters are handled in this area. SEW-EURODRIVE used 40 MOVIGEAR® units in the system. Power supply and communication are handled using SNI technology (Single Line Network Installation). SNI technology allows energy transfer and communication transmission in a single 4-core cable (L1, L2, L3, PE), which decreases the number of components required while significantly reducing installation costs.

With the new solution using 40 MOVIGEAR® units and a number of accompanying measures, Coca-Cola Hellenic could achieve a sensational 75% reduction in energy consumption in comparison to the drive and control systems that were employed previously. That is equivalent to 41,000 kg of CO<sub>2</sub> annually.\* Through this savings alone, the investment pays for itself in less than one year. But every component of the modernized transport line contributes to this astonishing result. With the integrated PROFIBUS, for example, energy savings could be achieved when the line is shut down in the event of jams, and idle times were minimized significantly.

As the complete refurbishment was being planned, the electric company Wien Energie GmbH was involved from the start, providing detailed energy consumption calculations in order to achieve the best possible energy efficiency with the system. Wien Energie verifies and confirms these figures.

### Features of the energy-saving solution using MOVIGEAR® from SEW-EURODRIVE:

- Compact design: Motor, gear unit and electronics are combined in a single mechatronic drive system
- Reduction in energy costs due to high efficiency of all components (gear unit, motor, electronics)
- Reduction of CO<sub>2</sub> emissions
- Quick amortization
- SNI principle (Single Line Network Installation): only one cable used for energy and information transfer
- Simplified system planning and design
- Reduction in storage costs due to a reduced number of variants
- High degree of protection
- Tested resistance to common cleaning agents
- Hygienic surface design for applications in hygienic areas
- No air, dirt and germ swirls
- High degree of reliability due to systematic development of all components
- Reduction of total costs and operating costs of the conveyor system

Additional information about the MOVIGEAR® drive system is available at:  
<http://www.movigear.eu>

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