



SWITCHING SUPERMARKETS FROM HALOGENATED TO NATURAL REFRIGERANTS IN SOUTH AFRICA

As of: June 2021

The aim of the project was to pilot the conversion of the air-conditioning systems in two supermarkets owned by the Pick n Pay chain from fluorinated refrigerants to natural, environmentally compatible, energy-saving refrigerant technology. At the beginning, the project supported the supermarket chain in acquiring tradable carbon credits for future emissions reductions via the 'Clean Development Mechanism' (CDM) as this was supposed to gain significant co-financing opportunities for investment in new systems. In the end, this idea was abolished, due to low CER prices on one hand, but rather due to high and significant savings through energy efficiency measures. This savings were used to refinance the conversion of more supermarkets.

State of implementation/results

- Project completed
- A total of 25 combined CO₂/NH₃ cooling systems installed
- Workshops and training courses carried out for Pick n Pay technicians, including 'Train the Trainers' courses
- Technologies adopted by local service enterprises and put on the market
- Monitoring system set up to measure emissions and energy consumption
- Project results presented at international forums
- Technology approved by South Africa's industrial association and adopted by Woolworths, Spar and Metro

PROJECT DATA

Country/Countries:

Südafrika

Implementing organisation:

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Political partner(s):

- Department of Environmental Affairs (DEA)
- South Africa*

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- Pick n Pay (Supermarkets)

BMU grant:

€ 1,756,623.47

Duration:

10/2008 till 06/2013

