

Uganda

Alternative refrigerants can provide better energy efficient options



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Refrigeration could take up 30 to 40% of energy consumed in a supermarket. An interview held with a branch manager of one of the biggest local supermarkets in Uganda revealed that most refrigeration systems are still running on synthetic refrigerants such as R-22. These refrigerants with ozone depleting potential are to be phased out in the coming years as they have a negative impact on the environment.



Working with what you have to improve energy efficiency

Doors and blinders have been installed on large display coolers and freezers of supermarkets. This contributes approximately 10% of the energy savings.



Are you intrigued by the fact that you can be relieved of a large energy cost in your business?

More energy savings can be realised from refrigerant conversion to natural refrigerant options such as propane, carbon-dioxide or ammonia. These options are covered in detail in the full report which could be found on the UNIDO website.



International refrigeration technologies and local installers can make a great team

Most refrigeration systems are imported from developed countries such as from the UAE and UK. Supermarkets use local installers/ maintenance providers like LM Engineering services limited for regular servicing of their refrigeration systems every six months.



Exploring local refrigeration technology providers

Gayaza Electronic works Limited, GETS manufactures customised retail refrigeration equipment running on natural refrigerants. In addition, the company offers after-sale services to their customers.

UNIDO together with the IIR have developed a decision tree for supermarket managers/owners to guide them towards achieving energy savings from their refrigeration systems. In the attached decision tree, the main barriers to the adoption of energy efficient, environmentally friendly technologies in the retail sector have been identified and guidelines on how these can be overcome have been included.