United Nations Industrial Development Organization (UNIDO)
The first CO$_2$ Supermarket in Jordan
- Demo Project for high-ambient Temperatures -

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United Nations Industrial Development Organization – UNIDO (1)

Established:
17 November 1966

Member States: 174

Staff: from 105 countries all over the world including field offices

HQ: Vienna, Austria
United Nations Industrial Development Organization – UNIDO (2)

UNIDO is the specialized agency of the United Nations that promotes industrial development for poverty reduction, inclusive globalization and environmental sustainability in developing countries and economies in transition.
Every country achieves a higher level of industrialization in their economies, and benefits from the globalization of markets for industrial goods and services.

No one is left behind in benefiting from industrial growth within an environmentally sustainable framework, and prosperity is shared among women and men in all countries.
Project in Jordan:

« Demonstration of non-HFC alternatives to HCFC-22 in retail installations in countries with high ambient temperatures »
Main Project Facts

• **Purpose:** Demonstrate the feasibility of non-HFC alternatives to HCFC-22 in retail installations in countries with high ambient temperatures (Jordan)

• **Expected results:**
  a) Full replacement of HCFC-22 installation to CO$_2$ transcritical system in retail site
  b) Experiences and results disseminated to other countries with high ambient temperatures

• **Total budget:** US$ 605,000
Latest Developments

• **Status:**
  - Beneficiary and appropriate supermarket selected end of last year
  - TORs for the most suitable non-HFC and high efficiency technology and set up for the selected supermarket developed
  - Bidding completed
Project Site & Technology

- **Selected system:** CO$_2$ transcritical system with parallel compressors
- **Selected beneficiary:** AlSalam supermarket in Amman (Army-owned)
- **Selected technology provider:** 100% Jordan and family-owned company, cabinet manufacturer with support from European company, leading manufacturer of advanced CO$_2$ commercial systems for warm climates

AlSalam Supermarket expert visit
Next Steps

• **Commissioning** of the system in preparation, delivery after the summer
• **Training** from European experts for engineers and technicians

• **Project dissemination**; incl. presentation of the system to other interested companies and government officials from Jordan
AlSalam Supermarket from inside and outside
Current condensing units
Example picture of the new CO$_2$ refrigeration unit
Thank you for your Attention!

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