



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

Refrigeration in the cold chain in Africa

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Refrigeration in the cold chain

- Transportation and storage at the recommended temperature from manufacture through to final use
- Key industries:
 - Food (fresh fruits, vegetables, juices meat, poultry, seafood & fish, dairy)
 - Pharmaceuticals & veterinary supplies
 - Floriculture
- Required to ensure safety and potency





Food & Agriculture sector

- Ensuring optimal productivity of livestock
- Reducing food losses/food waste, ensuring the availability of edible & nutritious foods.
 - *Supports food security and helps to address malnutrition*
- Availability of quality food products to the growing urban population
- Availability of quality agriculture/horticulture products for export
- Increases opportunities for value addition





Health & well being

- Reducing neonatal death and infant mortality
 - *45% linked to malnutrition*
- Eradicate incidence of diseases
- Access to life-saving drugs
 - *Insulin, blood, serum, vaccines*





Challenges in Africa

- 40% access to electricity
- Unreliable in many part
- Affordability of refrigeration
- Technical skills for repair and maintenance





Way forward

- Technologies to maintain cold chain in off grid communities,
 - Renewal energy options
- Synergies with other interventions
 - Food processing & preservation
 - Packaging material temperature indicators
 - Cool boxes,





Thank you!



For more information, please contact:

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