INTERNATIONAL INSTITUTE OF REFRIGERATION

Servicing Industry in Africa and in other developing countries

SIDE EVENT

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CHALLENGES AND ACTIONS IN AFRICA AND SOUTH ASIA

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www.iifiir.org
The IIR

✓ Intergovernmental Organisation
✓ Dissemination of knowledge on all refrigeration technologies and uses: food, health, air conditioning, heat pumps, cryogenics...
✓ 59 member countries, including 17 African countries
✓ Network of 400 experts
✓ 500 corporate and individual members
✓ Partnerships with United Nations bodies
Key Figures

Roughly 5 billion refrigeration, air-conditioning and heat pump systems in operation across the globe

More than 15 million people employed in the refrigeration sector worldwide

Global annual sales amount to approximately 500 billion USD

Refrigeration consumes about 20% of the overall electricity used worldwide

7.8% of global greenhouse gases (GHG) emissions are attributed to the refrigeration sector, where 63% are indirect emissions and 37% are direct emissions

Source: 38th IIR Informatory Note: The Role of Refrigeration in the Global Economy (June 2019)
35th IIR Informatory Note: The impact of the refrigeration sector on climate change, November 2017
Challenges

✓ increasing population:
   - 2019 → 7,7 billion
   - Doubling in Sub-Saharan Africa
   - 2050 → 9,7 billion
   - 2100 → 10,9 billion

✓ urban population:
   - 2018 → 55 %
   - 90% of the increase is in Asia and Africa
   - 2050 → 68 %

✓ 820 millions people undernourished, 2 billion food looses « food insecurity, high or moderate »

✓ air conditioning use is skyrocketting
   - climate change and hot waves will increase its use
   - IEA : global energy needs for space cooling will triple by 2050

✓ health issues (vaccines...)
Refrigerants issues and energy issues are linked

For instance, impact of refrigerant losses

We need to simultaneously face both issues
IIR Actions in Africa and South Asia

✓ seminar in Benin with UNEP (2014)
✓ seminar in Tunisia (2016)
✓ seminars with FAO (2017), UNIDO (2018)
✓ seminar in Burkina-Faso (2019)
✓ workshops in India (2017, 2018, 2019)
✓ seminar with the World Bank (2019)
✓ ...
✓ the working group « Cold Chain in hot countries » headed by the IIR Tunisian delegate
New projects

✓ proposals in Senegal, Burkina-Faso, Ivory Coast...

✓ relations with AFD
  Objective: State of the art, action plans (cf G7 and UN declarations in September 2019)

✓ draft IIR Informatory Notes on the cold chain and its environmental impacts; work with UN Environment and GFCCC

✓ education and training directory
THANK YOU
QUESTIONS?

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