



Green Cooling Initiative

GIZ Proklima

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für Internationale
Zusammenarbeit (GIZ) GmbH



Take a guess:
What percentage of global emissions is the refrigeration and air conditioning sector responsible for?



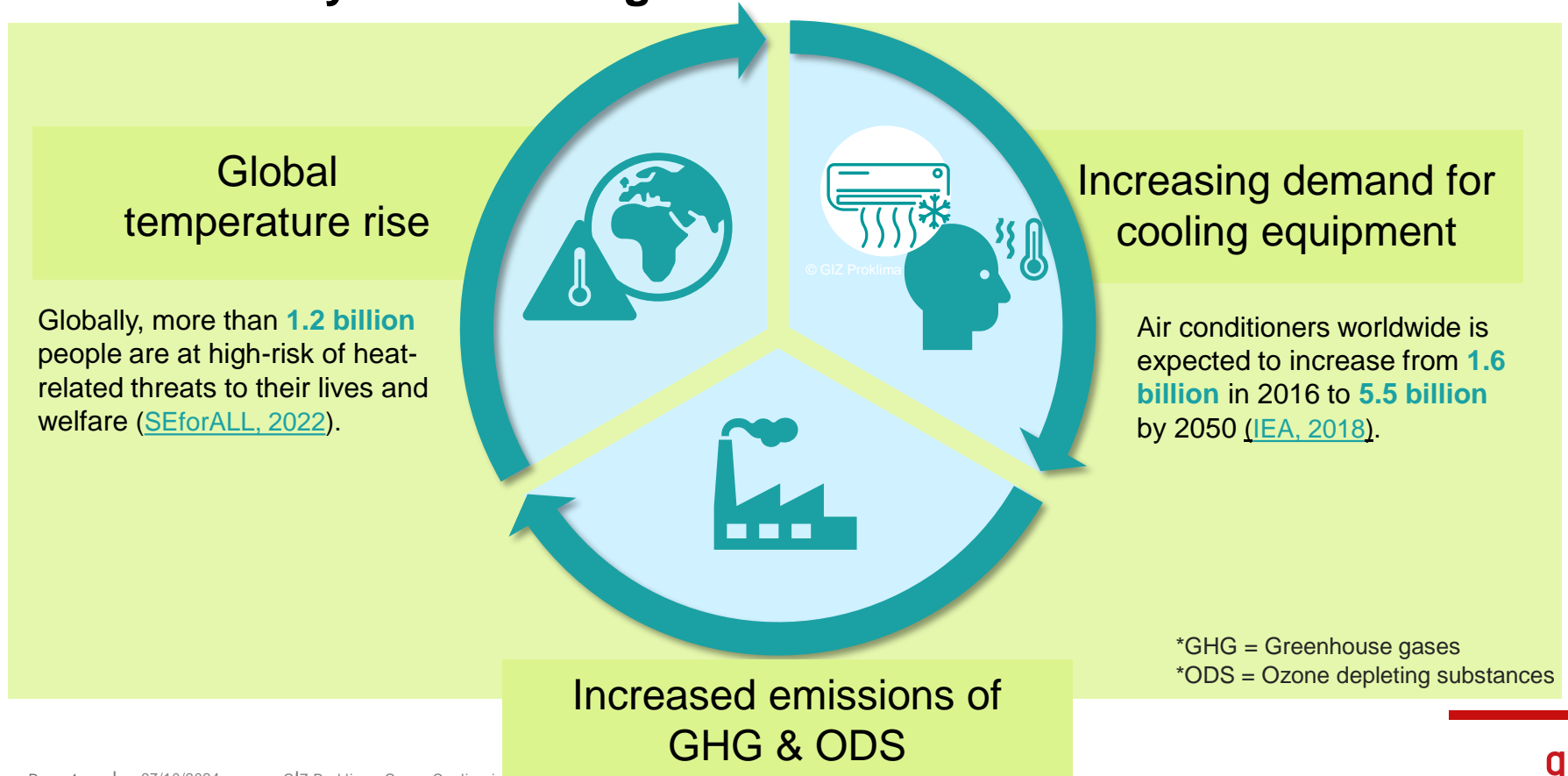
2/3
energy consumption

1/3
released refrigerant

The **refrigeration and air conditioning sector** is responsible for about **10%** of all global greenhouse gas emissions!

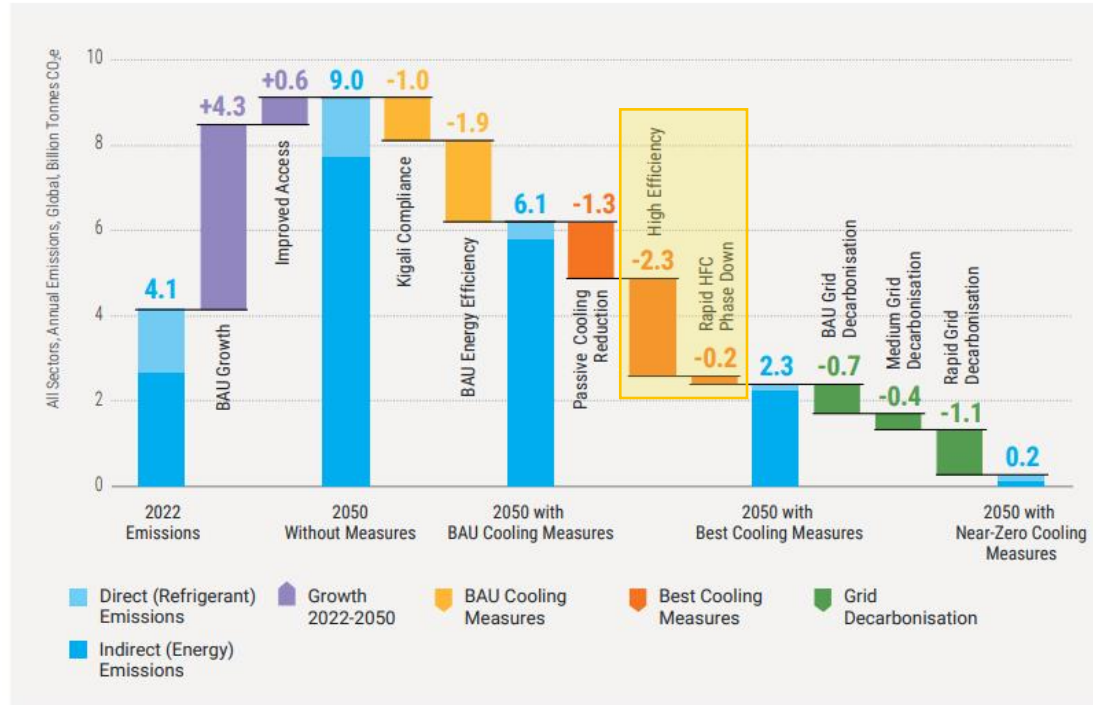


The vicious cycle of cooling



What can be done?

Figure ES-1: Global pathway and key steps to achieve near-zero GHG emissions from cooling, 2022-2050



Note: Blue bars show emissions in 2022 and 2050. Purple bars indicate growth. Yellow bars indicate BAU Cooling Measure emission reductions. Orange bars indicate Best Cooling Measure emission reductions. Green bars indicate emission reduction due to electricity grid decarbonisation.

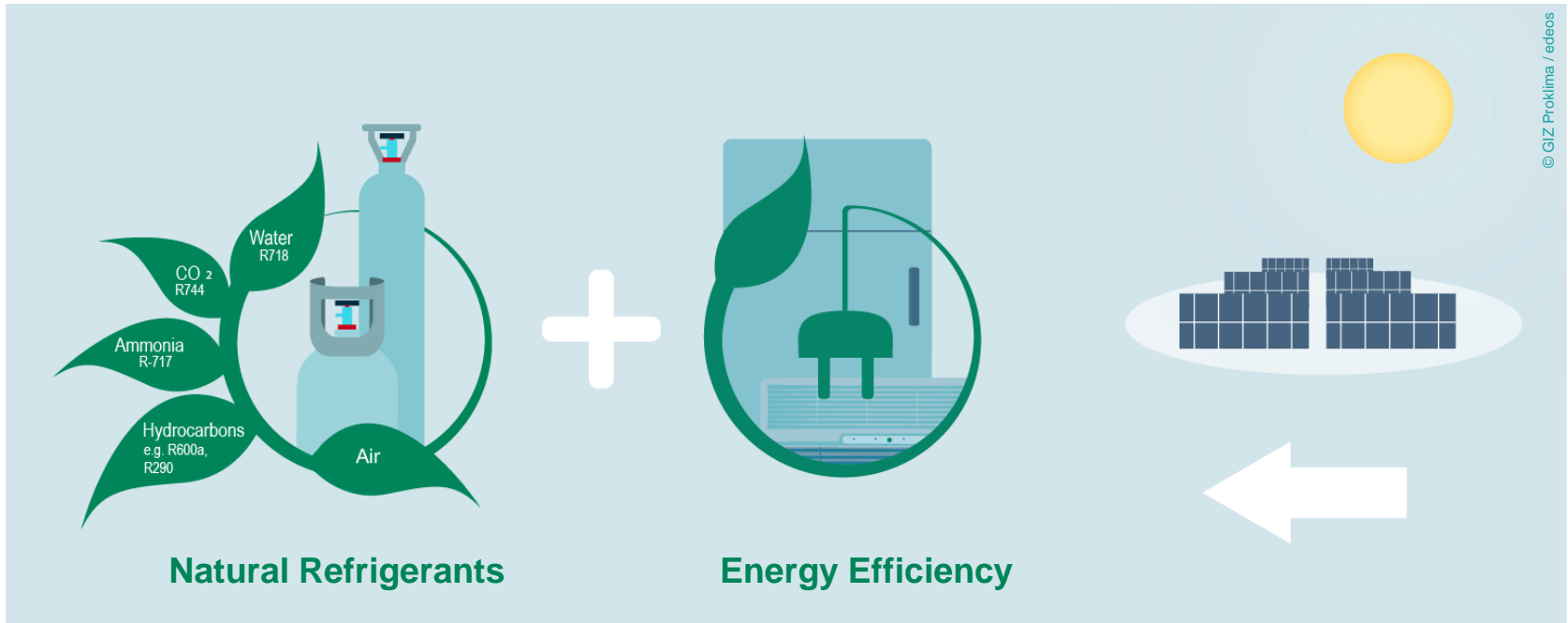


What is Proklima doing?

Avoiding emissions by "leapfrogging" to Green Cooling



What is Green Cooling?



Ideally combined with natural forms of cooling (e.g. shading, good insulation, white roofs, plants and trees).



Policy Advice

- **NDC RAC-targets**
- **Standards & Labels**
- **Montreal Protocol & Kigali Amendment**
- ...



Technology Transfer

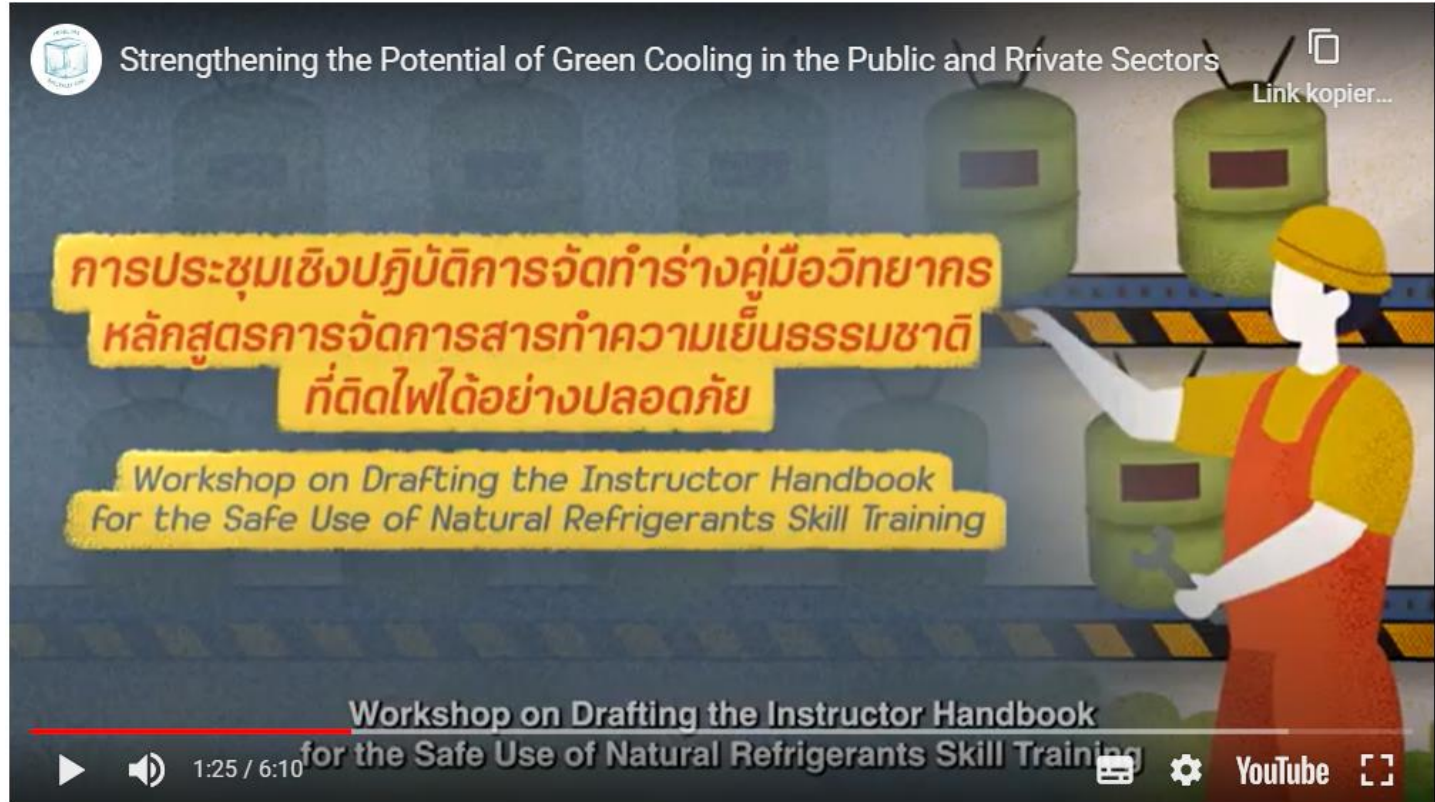
- **Sustainable Cold Chains**
- **Market introduction & Technology demos**
- **Replacement programs**
- ...



Capacity Building

- **RAC Trainings**
Technicians, Training of Trainers & Curriculum development, Certifications
- **Information campaigns**
- ...

Capacity building: RAC Technician Trainings in Thailand through the Green Cooling Initiative III



Green Job: Refrigeration Technician



Safely install RAC equipment with natural refrigerants



Prevent leakage through skilled installation and maintenance



Know future trends and phase-outs to consult clients

Well trained technicians are essential for a climate-friendly refrigeration and cooling (RAC) sector.

Green Job: Refrigeration Technician

Trained Technicians can **safely** install green, energy-efficient equipment using **natural refrigerants**



Lower direct emissions:

- Lower Global Warming Potential of refrigerant
- Lower leakage rates
- Proper end-of-life procedures

Lower indirect emissions:

- By using more energy efficient equipment
- Through regular maintenance





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