

# METRO F GAS EXIT Program 2030

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# Climate Strategy 2040



- Our target: climate neutral until 2040
  - (1) Energy-Efficiency Investments (ESP) & Behavior Change (EAP)
  - (2) F-Gas Exit Program – FEP**
  - (3) Renewable Energy Production-  
Project Smaragd (photovoltaics)
  - (4) Heat Exit Program - HEP
  - (5) GREENSTORE + ZEUS INITIATIVE (ZERO Emission Store)
  - (6) Green logistic + green car fleet

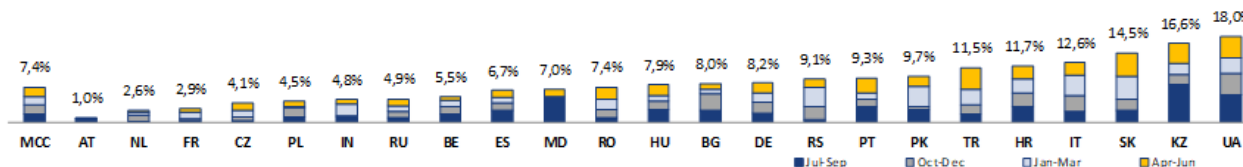


# Focus FEP program:

- New Store Openings + all refurbishments: **only natural refrigerants!**
  - acc. life cycle of existing cooling equipment (**Transcritical-CO<sub>2</sub>**, propene, ammonia).
  - full focus to TC- technology with ejector + heat recovery (BG, DE, HR, PL)
  - smart repair solutions – smaller exchanges, e.g. plug'in (NL)
- 2030 we like to reduce the carbon impact vs. 2011 by >90%
- full contribution to the refrigeration resolution 10/2016 from CGF

**MCC - LEAKAGE RATE F-GASES: STATUS JULY 2022 (12 MONTH)**  
 (TARGET: 8,4%) (FOR ACCIDENTS + CREEPING)

Leakage rate last 12 months



# FEP: progress



- **Status per 8/22:**

- 37 Ejector TC / 133 TC (AT, BG, CZ, DE, ES, FR, HR, IT, NL, PL, PT, RO, RU, SK)
- 74 SC+others (Ammonia DE/RU, Propene (NL/UA))
- 53 Retrofits; 37% ready for 2030
- Connection with HEP – heat recovery + heat pump
- Increasing and accelerating project pipeline

- **Outlook:**

- **Acceleration** of exchanges planned for 2023
- White spots- door is open for METRO MD, RS, TR, UA – CAL23
- Closing of cooling shelves
- Focus to standardization + harmonization „ICEMAN“
- Premium service package + quality issue

# FEP: method



- **Basic principle:**
  - exchange only for facilities at /close to end of lifecycle /no write-offs of book values
  - countries with (short-term) legal obligations in focus (EU)
  
- **General scoring methodology:**
  - Age of facility
  - Average refill volume in last two years
  - Price of conventional refrigerant - HFC
  - ROI payback period
  - “Super Priorities”
  - Accordance with refurbishment
  
- **Challenges:**
  - Installation companies, Operation and M&R, KPIs.



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