

Japan's Life Cycle Management Approach towards 2050 Carbon Neutrality Goal

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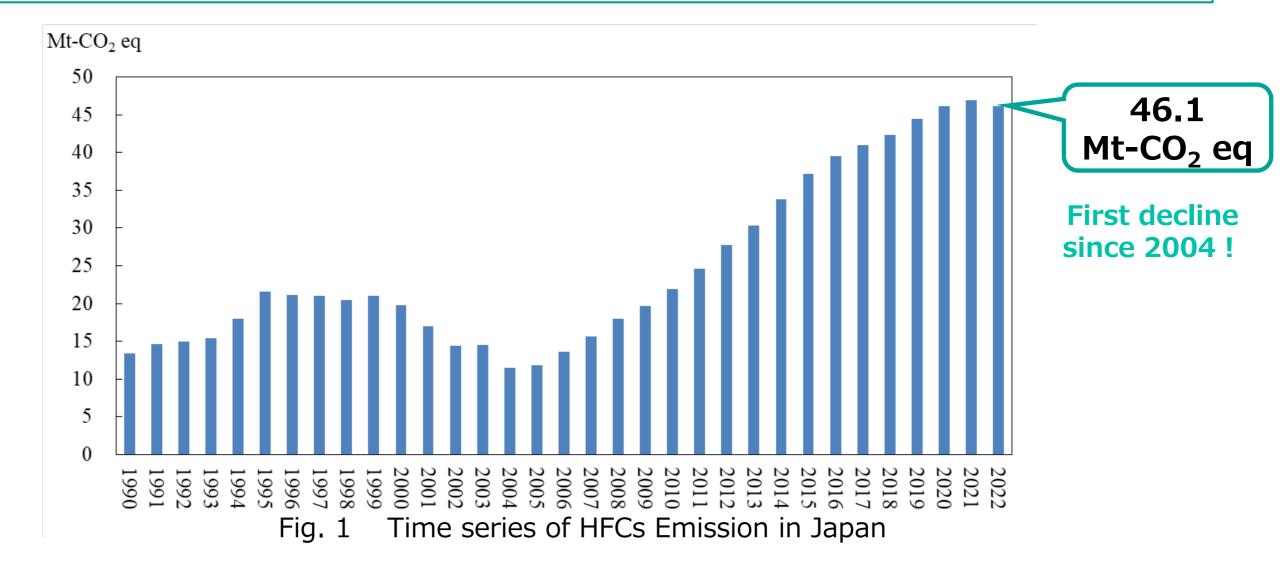


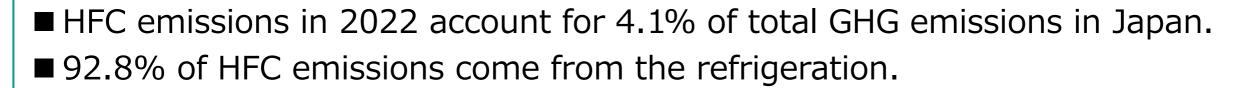


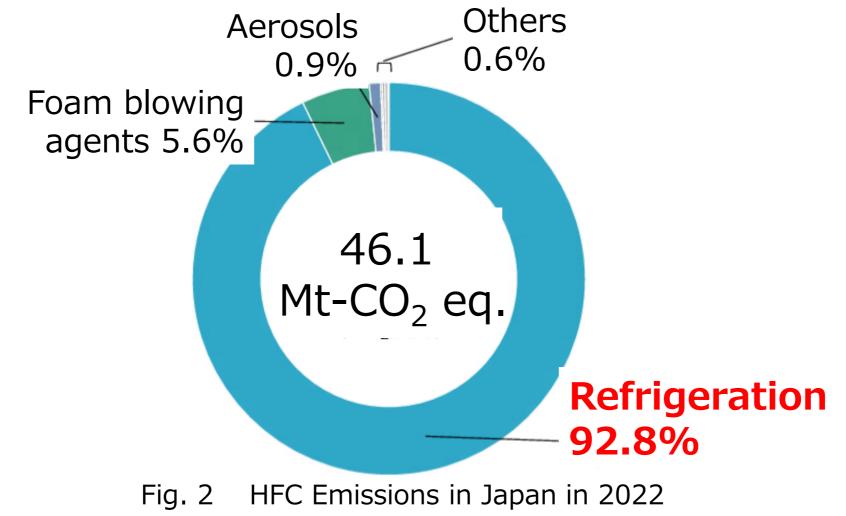
- 1. Japan's HFC emissions year-on-year decrease in 2022
- 2. Importance of preventing leakage emissions and addressing bank issues
- 3. IFL's activities

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■ In 2022, HFC emissions posted 46.1 Mt-CO₂ eq., 1.6% decrease compared to the emissions in 2021, after the growing trend since 2004.



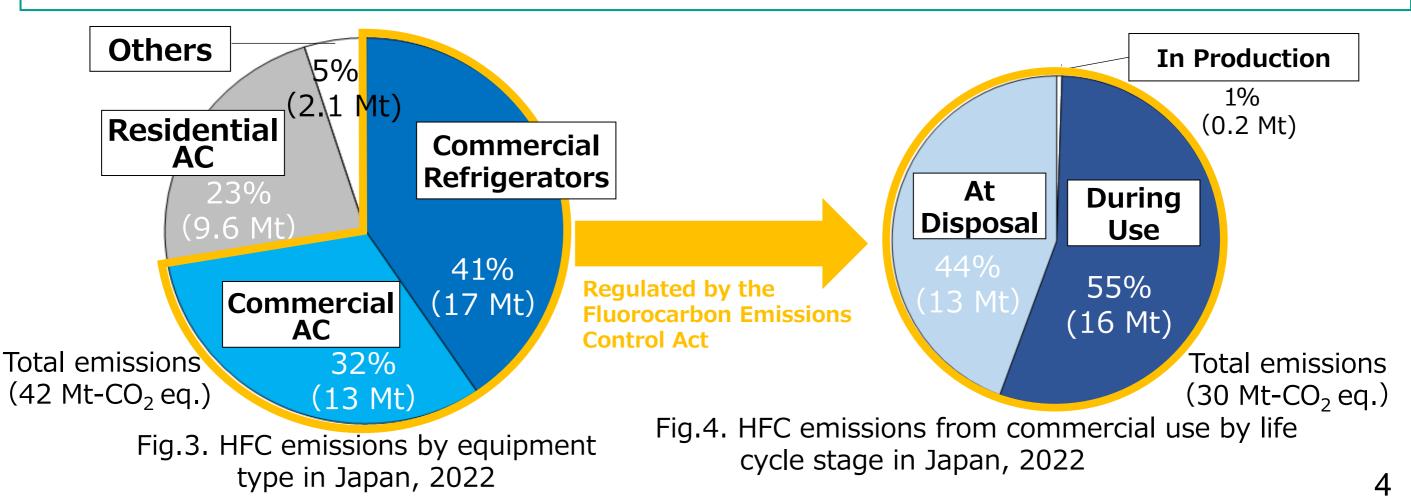




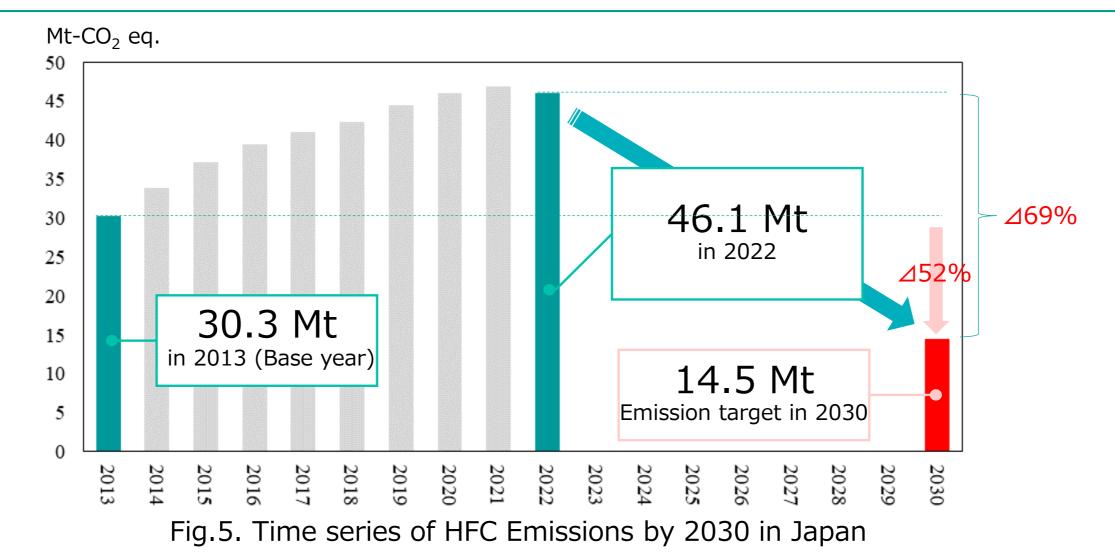
Source: National Institute for Environmental Studies, Japan, 2024

HFC emissions at life cycle stage

- More than 70% of HFC emissions come from commercial use : 41% of Commercial Refrigerators, 32% of Commercial AC.
- For the emissions from commercial use, regulated by Fluorocarbon Emissions Control Act, leakage during use was larger than emissions at disposal.



HFC emission reduction target for 2030: 52% reduction from 2013 level
To achieve the target, 69% reduction from 2022 level is required.



Carbon Neutrality by 2050 in HFCs sector in Japan

Carbon Neutrality by 2050 in HFC sector through promoting its life cycle management and its phase-down.



• Steady implementation of the Kigali Amendment to the Montreal Protocol.



• Development of low-GWP refrigerants and promotion of natural refrigerants.



• Leakage prevention of fluorocarbons in RAC equipment usage.



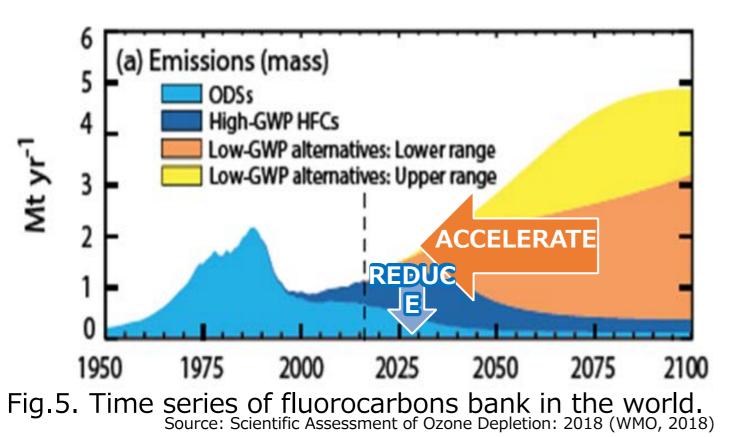
Recovery and proper management of fluorocarbons from RAC equipment.



International cooperation on fluorocarbons reduction.

■ Global cooling demand is expected to increase dramatically.

 Even with production/consumption control of HFCs under the Kigali Amendment, HFC emissions are expected to increase to about 2,000 Mt-CO₂eq (WMO/UNEP2018).
Japan-led Initiative on Fluorocarbons Life Cycle Management (IFL) is actively working to promote Refrigerant Life Cycle Management.





Pic.1. IFL launching ceremony at COP25 (2019)

Japan's Support for Capacity Development under IFL



Supporting developing countries through

Organizing seminars for knowledge sharing by policy makers and practitioners

- Disseminating good practice on mitigation policies and measures
- Consulting for elaborating National GHG inventory for HFCs





Thank you very much for your kind attention!

Visit here for more information on the Initiative!

http://www.env.go.jp/en/earth/ozone/fluorocarbon_initiative/index.html

https://www.youtube.com/channel/UCtFtrM-SzUUI6r87heLK-gA/videos