

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

#### 10th July, 2024

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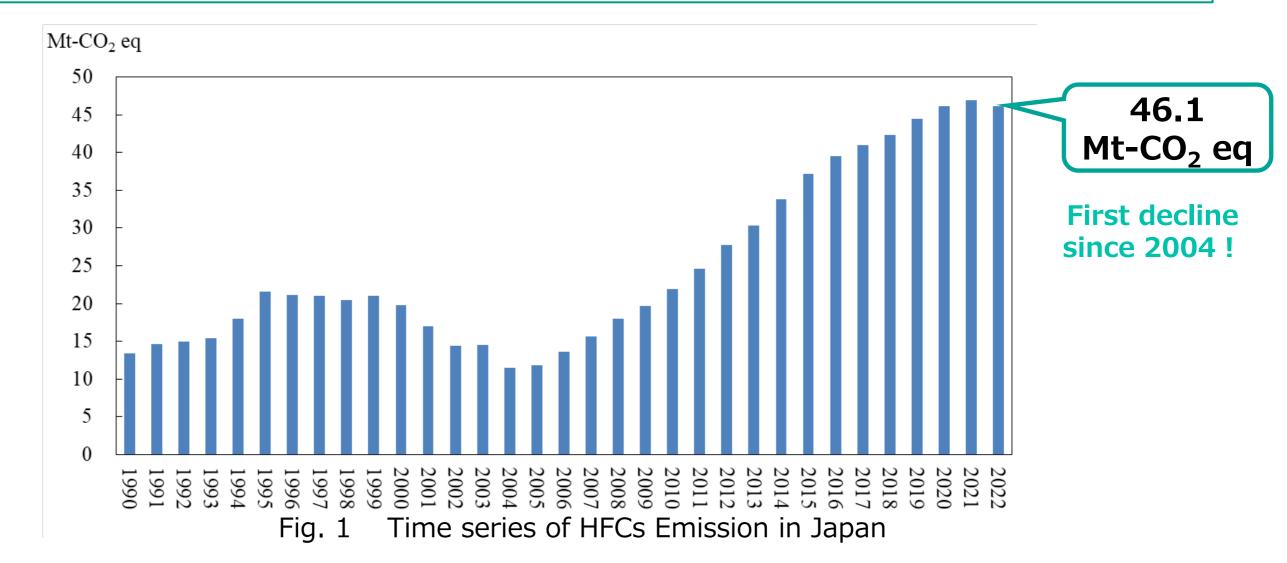


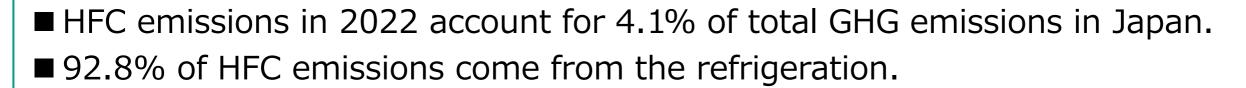


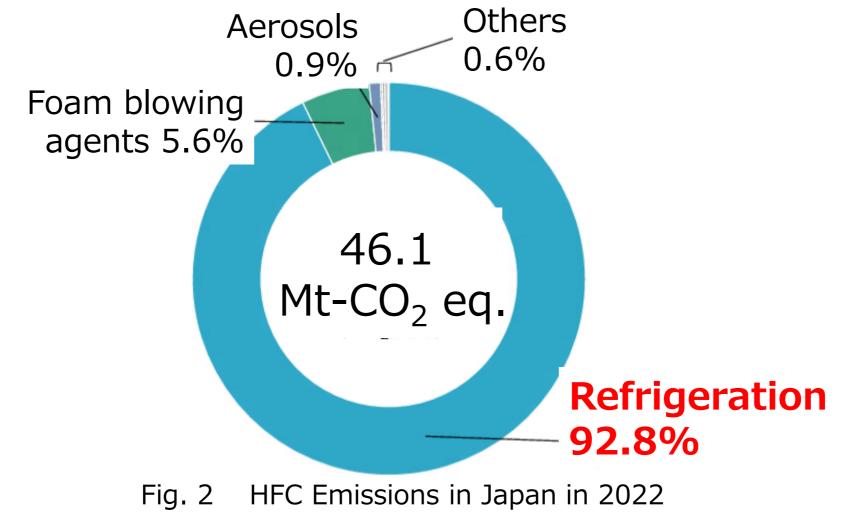
- 1. Japan's HFC emissions year-on-year decrease in 2022
- 2. Importance of preventing leakage emissions and addressing bank issues
- 3. IFL's activities

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■ In 2022, HFC emissions posted 46.1 Mt-CO<sub>2</sub> eq., 1.6% decrease compared to the emissions in 2021, after the growing trend since 2004.



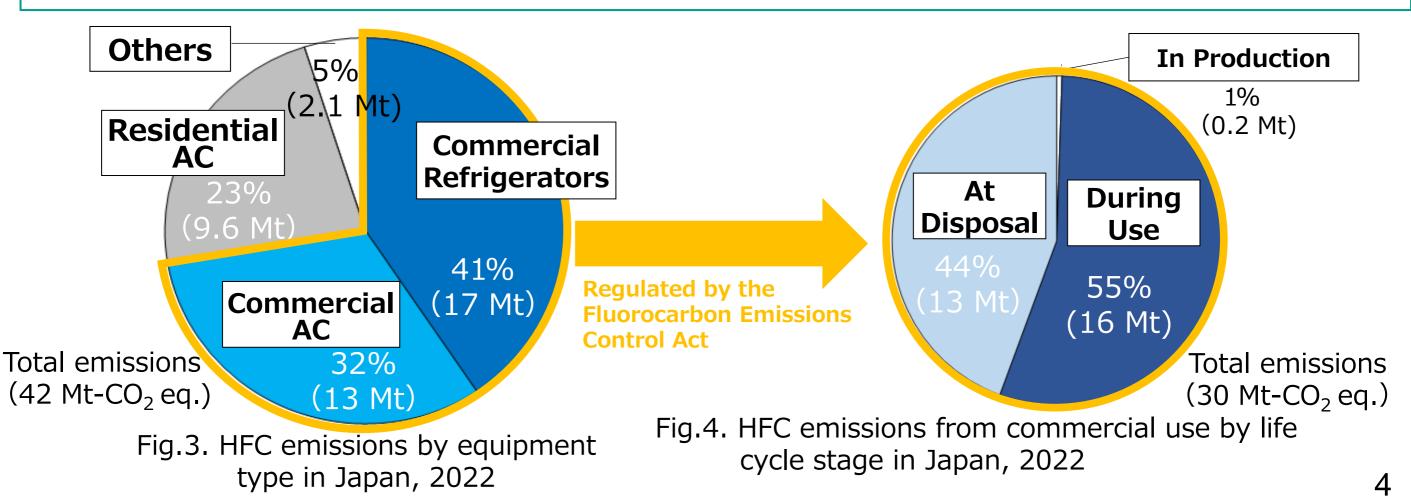




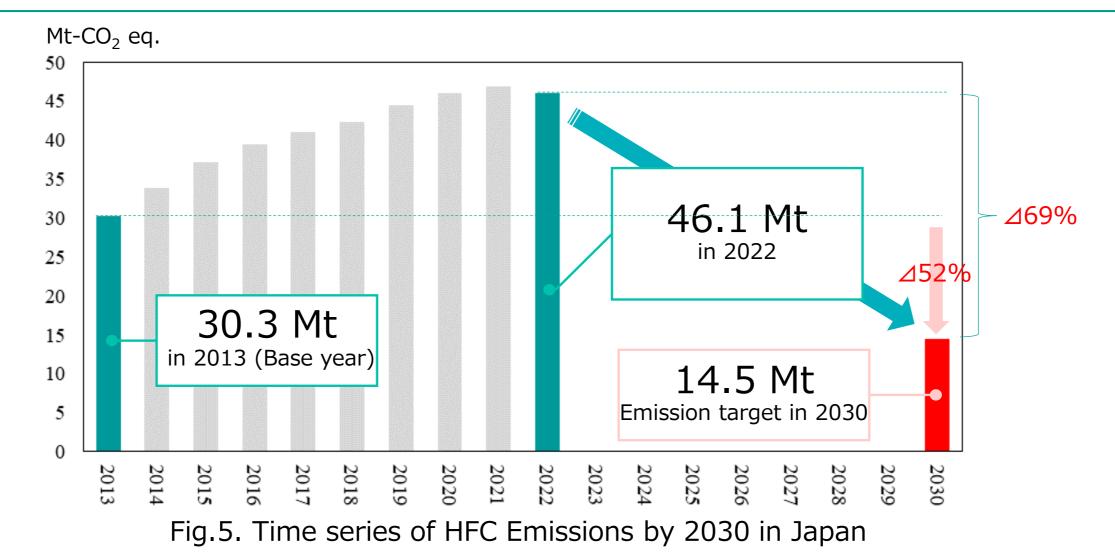
Source: National Institute for Environmental Studies, Japan, 2024

#### 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.



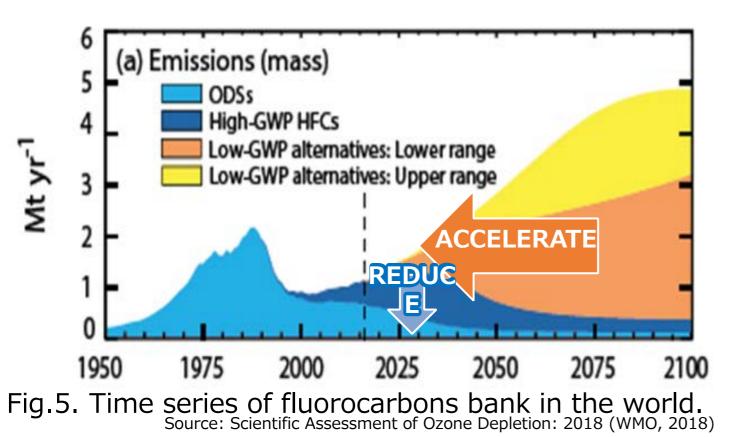
Recovery and proper management of fluorocarbons from RAC equipment.



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-CO<sub>2</sub>eq (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