Shared Vision for the way forward

Shared Vision "Refrigerant Circular Economy"

A Refrigerant Circular Economy plays a key role in reducing both HFC consumption and emissions.

- **Maximize refrigerant transition** to natural and low-GWP alternatives wherever feasible
- **Prevent leakage and ensure recovery** from existing equipment
- **Reclaim and reuse recovered refrigerants** where appropriate, and ensure proper destruction otherwise

We need to build an **enabling system** through regulation, traceability, infrastructure, skilled technicians, appropriate cost-sharing and viable markets, while mobilizing **public-private partnerships** to develop scalable, economically sustainable LRM systems.

Transition to Low GDP refrigerants

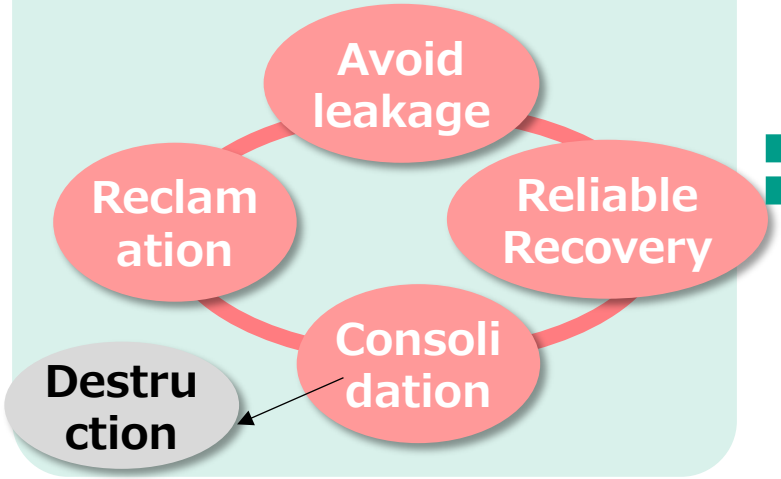
Conversion to Natural Refrigerant

Avoid emission sources

Suppressing future HFC emissions from the outset

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Reduction of leakage Recovery and reclamation



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Three Objectives

① **Reduce HFC emissions** toward achieving **climate targets**

② Fulfil HFC **consumption phase-down** obligations under the **Montreal Protocol**

③ **Secure access to refrigerants** needed for existing equipment and essential cooling, with **less dependence on imports**

"Refrigerant Circular Economy" is an approach that maximizes **the transition to low-GWP and natural refrigerants**, **while preventing leakage from existing equipment and ensuring refrigerant recovery at end of life**. Where immediate refrigerant transition remains difficult, **recovered refrigerants are reclaimed** and reused where appropriate, while refrigerants unsuitable for reuse are environmentally soundly destroyed. This approach simultaneously **reduces the climate impact of fluorocarbons and** helps secure the refrigerant supply needed for industry and daily life.

From Pilot Projects to Sustainable Systems: Five Building Blocks

- **Turning pilot projects into sustainable systems** requires five mutually reinforcing foundations: strong government leadership, a collaborative business ecosystem, fair cost-sharing, reliable data and traceability, and global cooperation and investment.
- Together, they create the conditions needed to scale effective lifecycle refrigerant management.

Strong Government Leadership	● Establish and enforce **clear legal, policy and institutional frameworks** for LRM, with defined **responsibilities for all relevant actors**.
Collaborative Business Ecosystem	● Build **implementation capacity** through skilled technicians, recovery networks, quality assurance and viable markets ● **Strengthen collaboration** among equipment owners, service providers and refrigerant management operators.
Cost-sharing Mechanisms	● Establish **fair and predictable cost-sharing arrangements**, combining owner responsibility, producer responsibility and public support, while using **incentives such as deposit-refund schemes and carbon finance**.
Data and Traceability	● Build **reliable inventories**, **reporting and traceability** systems to support policymaking, implementation, enforcement and performance monitoring, while progressively **improving data coverage, accuracy and transparency**.
Global Cooperation and Investment	● Accelerate **knowledge-sharing, capacity-building, technology cooperation**, and **public and private investment** to scale up effective LRM solutions.