

Standards and Codes on HPMP in Japan

**Regional Technical Meeting on Codes
and Standards**

**In relation to the Montreal Protocol
in Dubai, UAE**

(27th–28th Oct. 2015)

Tetsuji OKADA

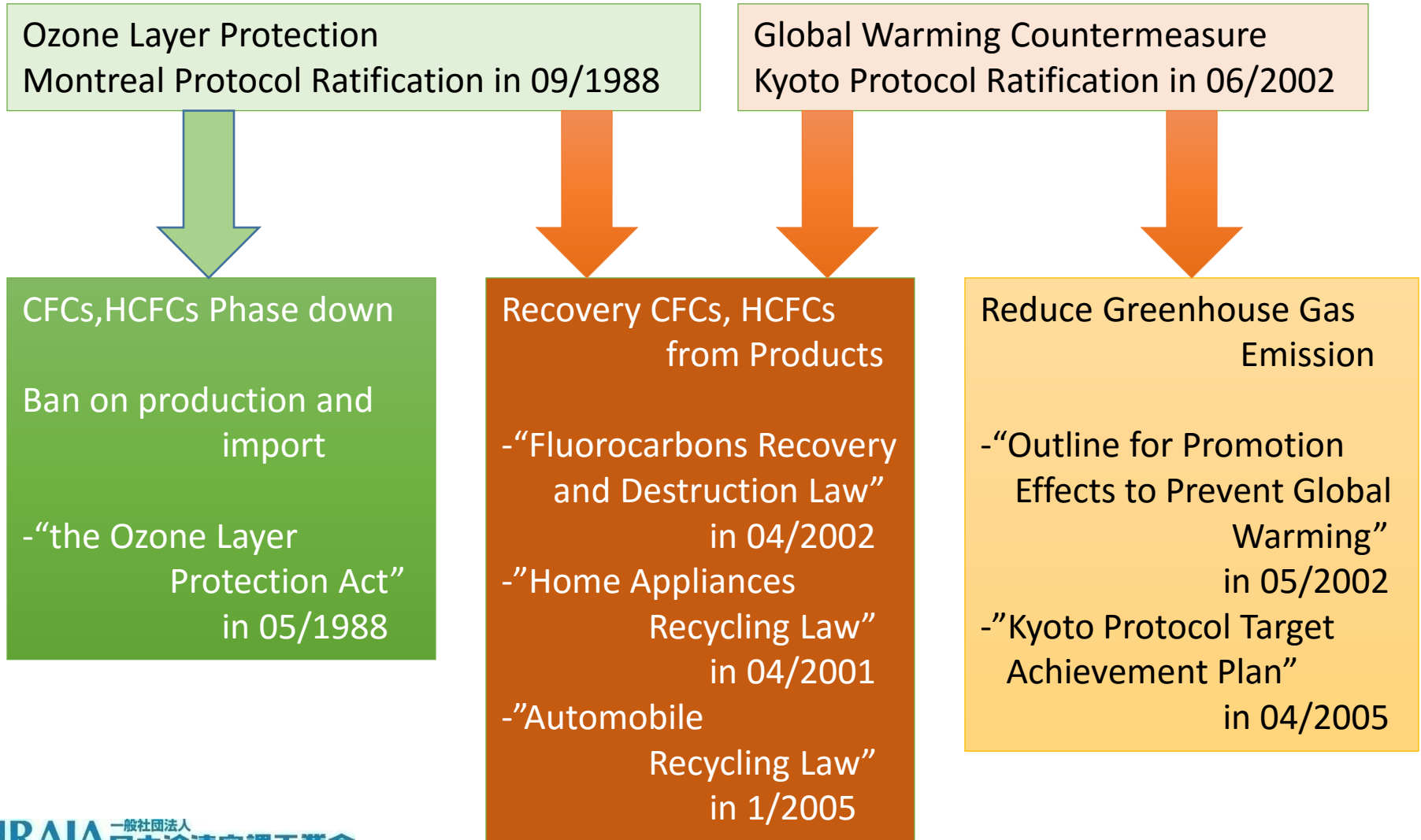
**The Japan Refrigeration and Air
Conditioning Industry Association
(JRAIA)**

Who is JRAIA?

<The Japan Refrigeration and Air conditioning Industry Association>

- Established in 1949.
- 159 members companies (as of 1st of Oct. 2015) including the associate members.
- The business fields of the member companies:
 - Air conditioning (domestic, commercial, automotive)
 - Refrigeration(commercial, industrial)
 - Ventilation -Chiller
 - Heat pump system(HP water heaters)
 - Refrigerants
 - Parts

Ozone Layer Protection and Global Warming Issue in Japan



Timeline of Legislations in Japan

1988 2001 2002 2015

Ozone Layer Protection Law

- Regulation of Producing CFCs, HCFCs (No exception)

Home Appliances Recycling Law

- Recovery of Refrigerants of Domestic Refrigerators and Air Conditioners
- Recovery of Freon in Insulation of Domestic Refrigerators(2003-)

PRTR Act

- Amount of Chemical Substance to be notified
CFCs and HCFCs are included in Target

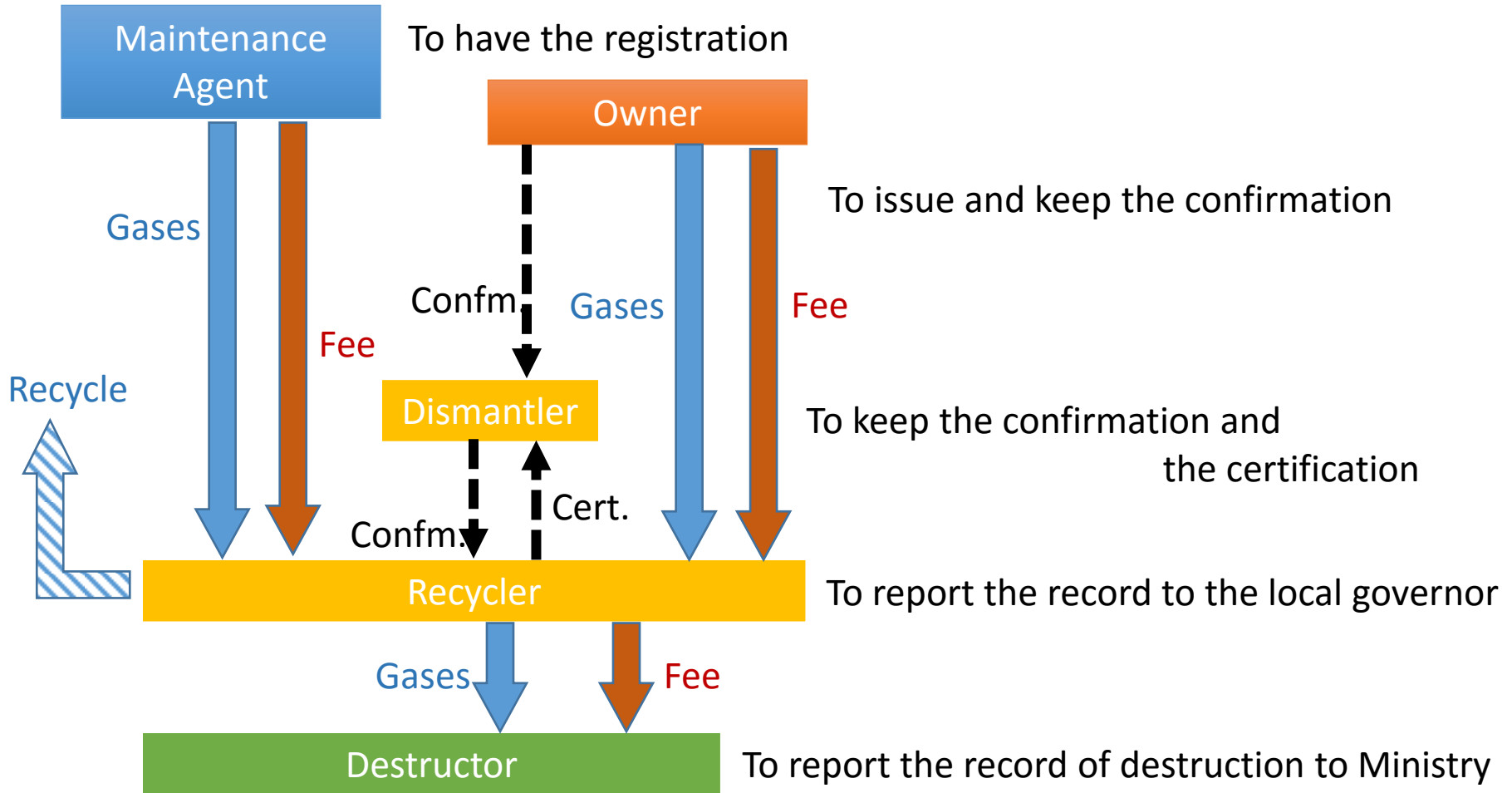
Fluorocarbons Recovery and Destruction Law Recovery of Refrigerants in

- Commercial Refrigerators and Air Conditioners
- Mobile Air Conditioners

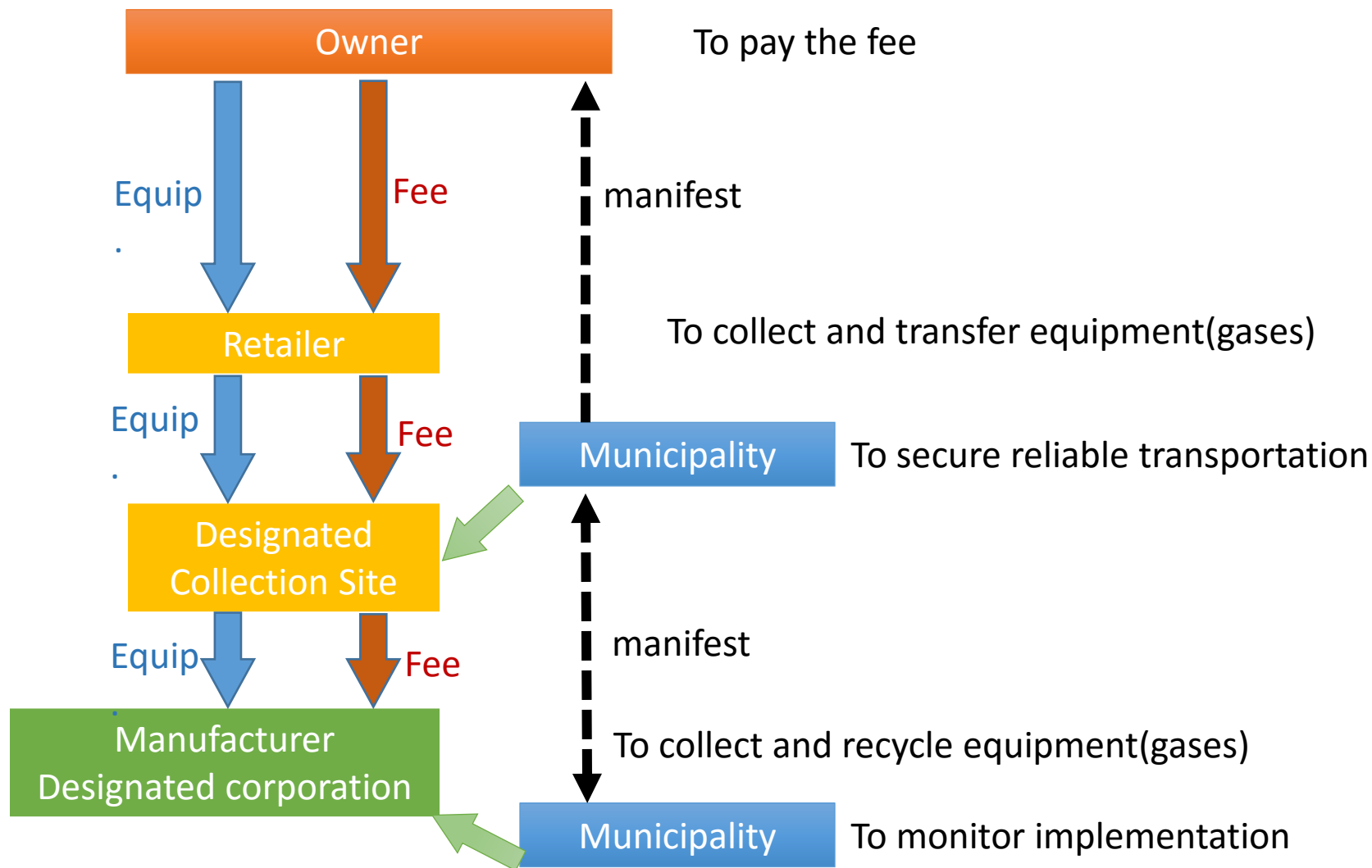
Act on Rational Use & Proper Management of Fluorocarbons

Revised 04/2015

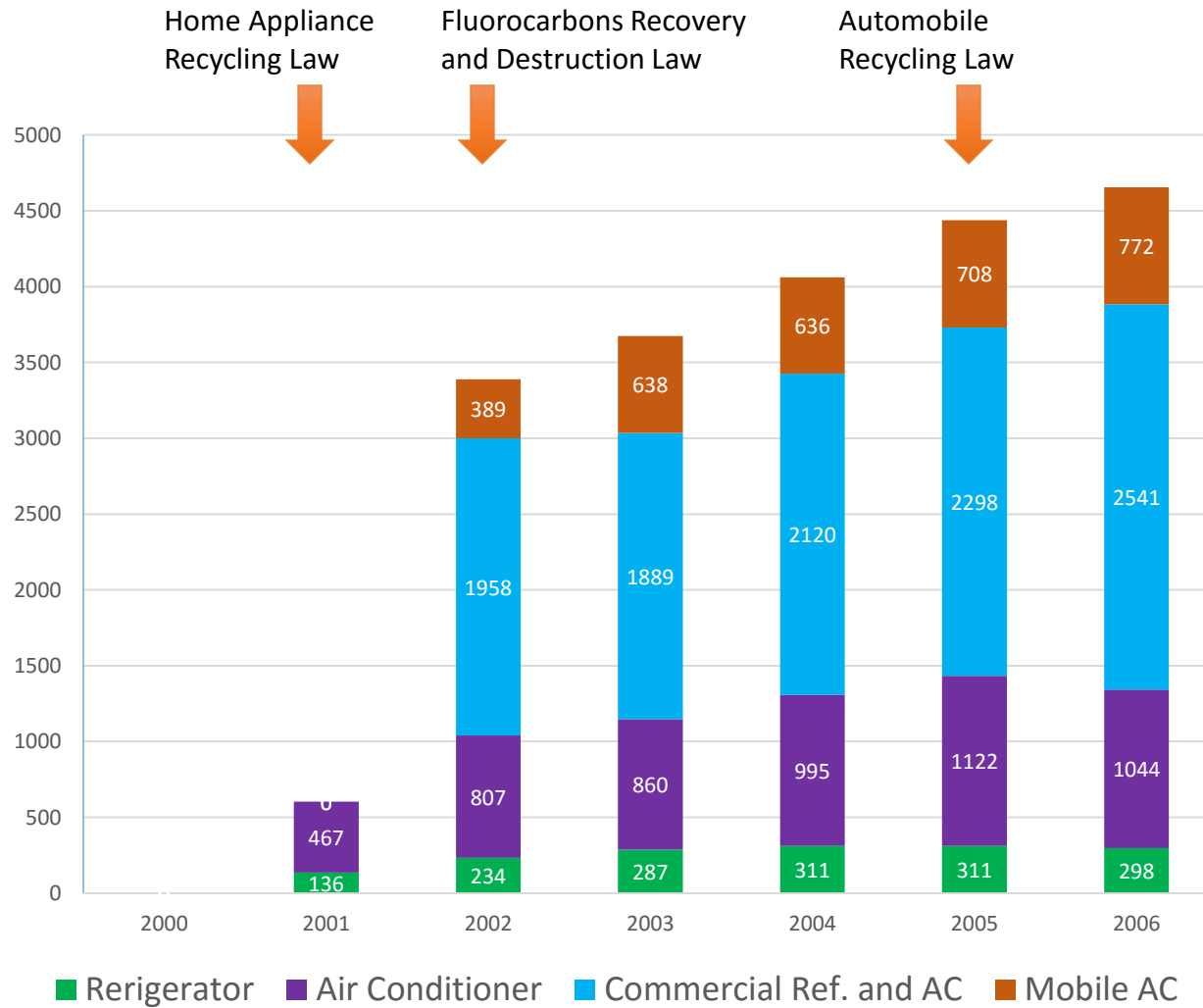
Scheme(abstract) of the Fluorocarbons Recovery and Destruction Law



Scheme(abstract) of the Home appliance Recycling Law

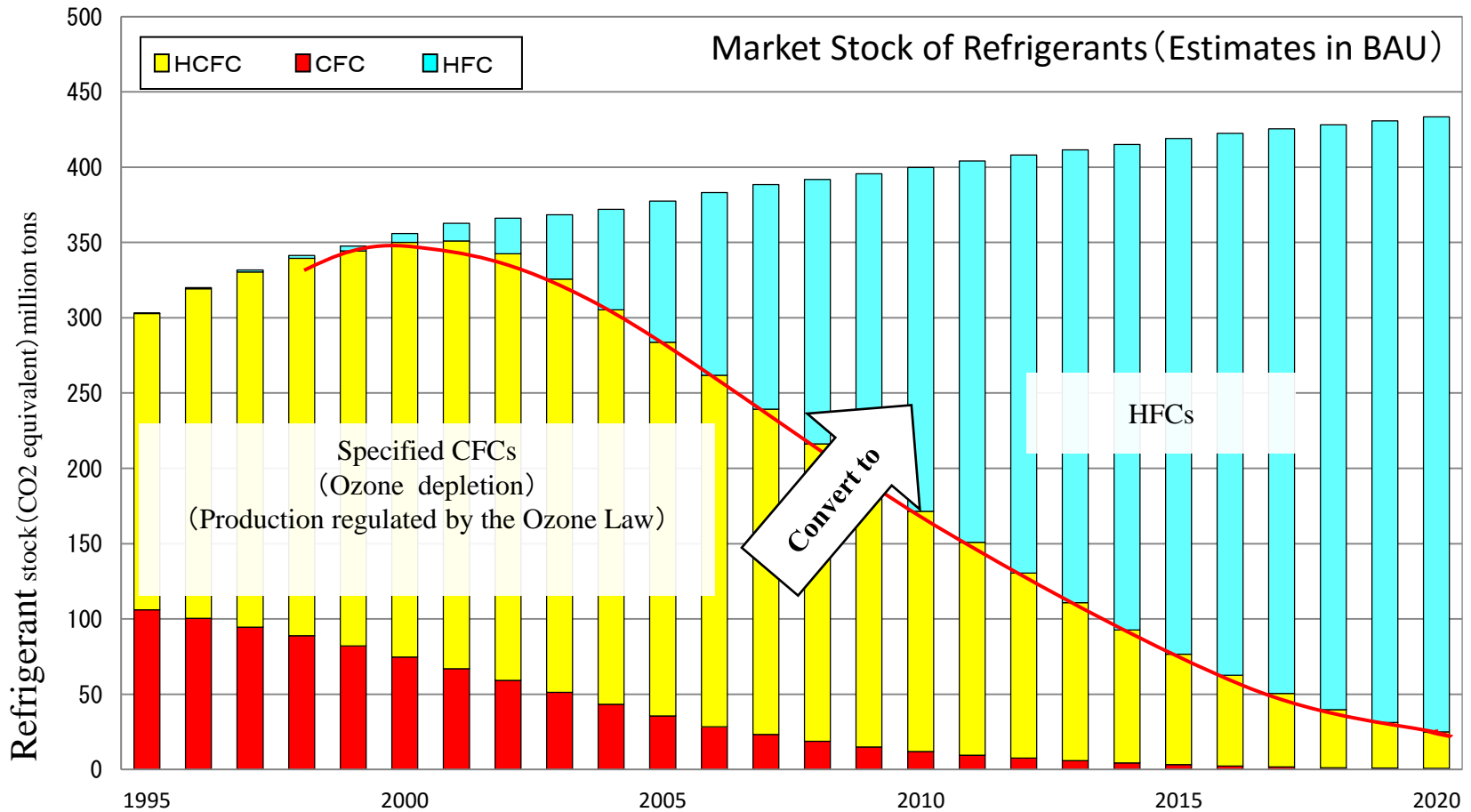


Amount of Recovery in each Sector



Refrigerant stock in Japan

- Future Possibility of HFCs Emissions (increasing rapidly)

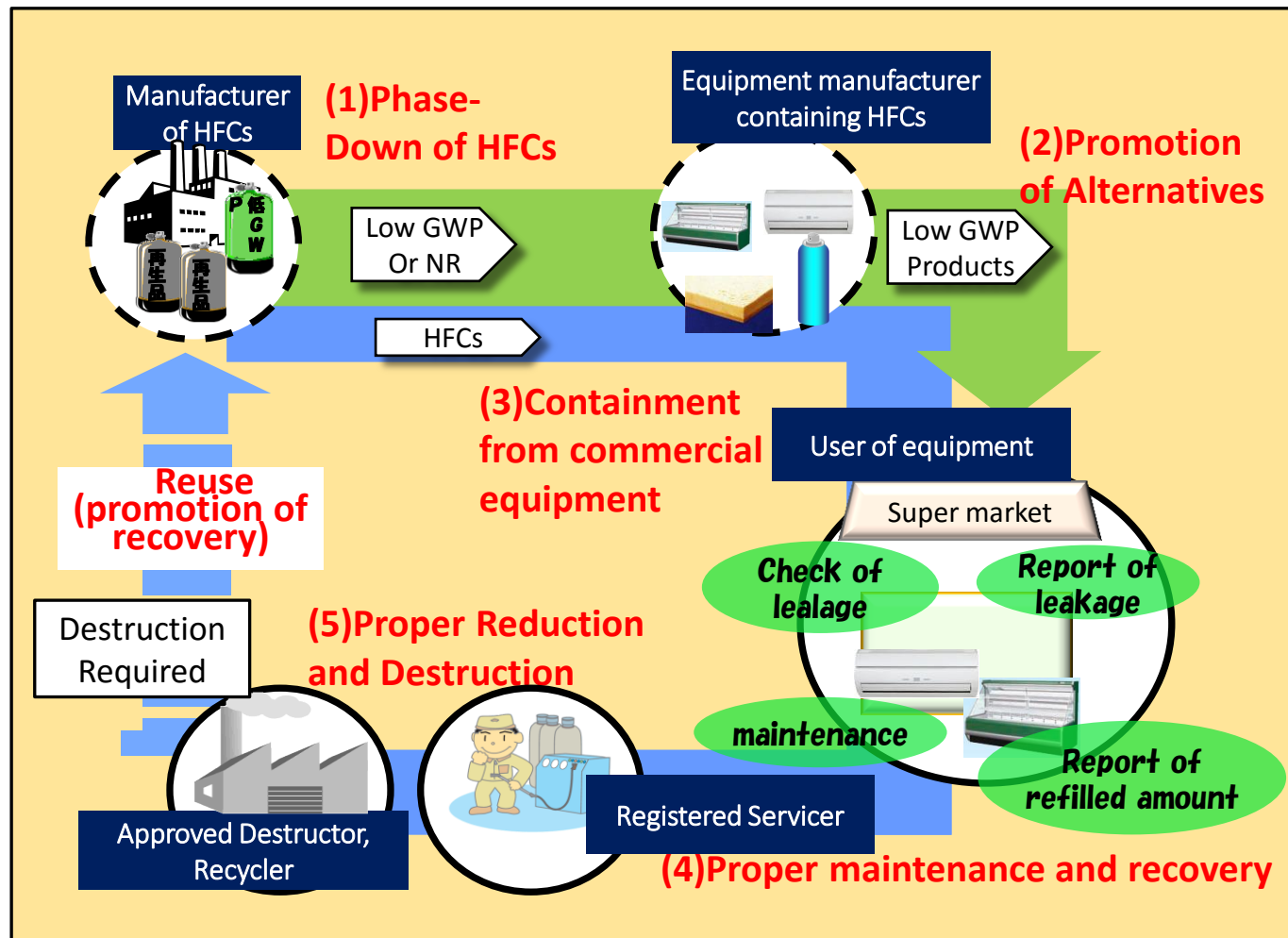


Source: METI

BAU: Business As Usual

Scope of “Act on Rational Use & Proper Management of Fluorocarbons”

- To address issues throughout the lifecycle of fluorocarbons
- Act was entered into force on 1st of April 2015.



Scope of “Act on Rational Use & Proper Management of Fluorocarbons”

Who	What to do
Refrigerant Manufacturer, Importer	To report the results To make a reduction plan
Equipment Manufacturer, Importer	To develop the products to fit the target index of GWP till the target year
User	To inspect his own equipment and to keep the data of the inspection
Installer, maintenance person	To get the certification, to report the record of the amount of the leakage of refrigerant
Destructor, recycler	To get the approval

Thank you for your kind attention.