



**Proposed Amendments to the Small Containers of Automotive Refrigerant Regulation**

Public Workshop: September 9, 2022

## Providing Comments or Questions

- There will be a questions and answers period at the end of the presentation. Comments and questions are welcome throughout the workshop:
  - Comments and questions may be typed in at any time and please state your name and affiliation
  - Please reference the page number of the slide or regulation text related to your question, if applicable
  - If you have any technical issues, staff are available to assist you
- For verbal comments or questions, please raise your hand to be added to the speaking queue
  - If you are on the phone, press #2 to raise your hand

## Agenda

- Introduction/Regulatory Background
- Proposed Amendments
  - Deposit and Recycling Program
  - Reclaimed Refrigerant Requirements
  - Reporting and Bookkeeping Requirements
  - Certification Procedures and Sell-through of Small Cans
  - Enhanced Education Program
- Impacts of Proposed Amendments
- Next Steps and Anticipated Timelines
- Open Discussion

## Introduction/Regulatory Background

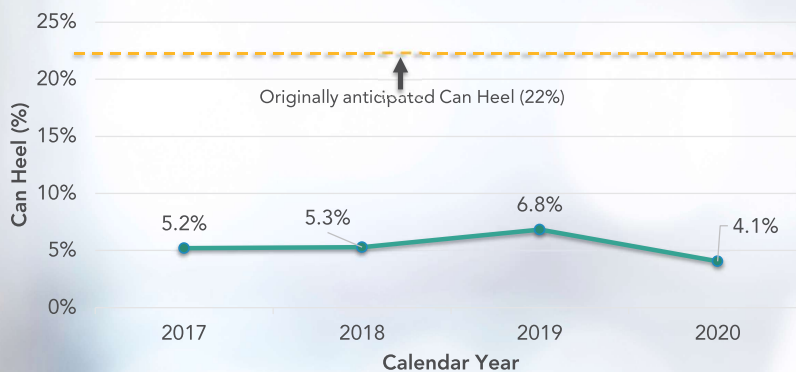
## Regulatory Background

- Effective January 2011; amended April 2016
- Applies to containers holding between two ounces and two pounds of a refrigerant with a Global Warming Potential (GWP) greater than 150
- Requirements:
  - Use of a self-sealing valve on the container
  - Deposit (\$10) and Recycling Program for the small containers
  - Can certification and labeling requirements
  - Enhanced Education Program (EEP)

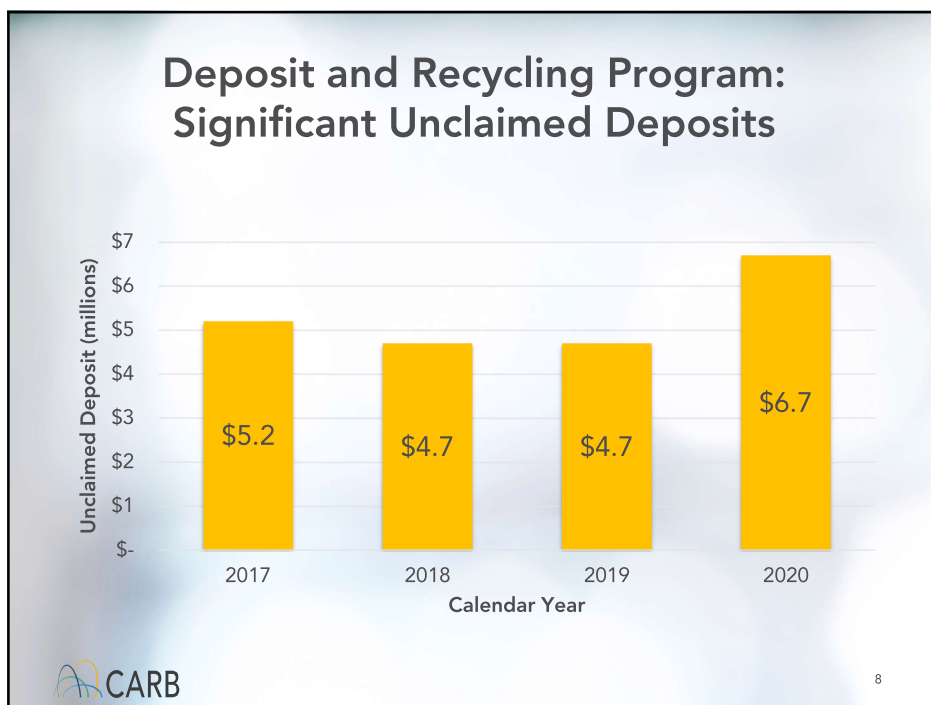
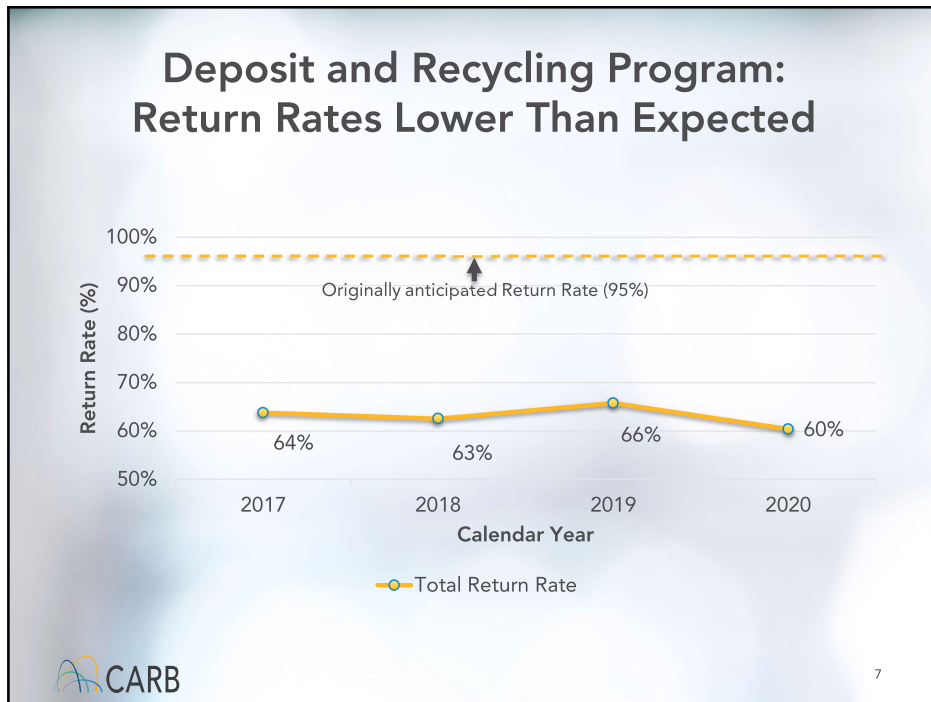


5

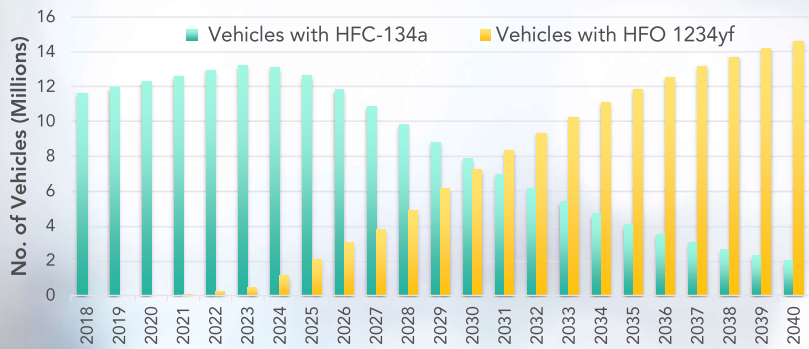
## Self Sealing Valve: Very Effective Can Heel Much Less Than Anticipated



6



## HFC-134a Usage Expected to Decrease Over Time



## Proposed Amendments

## Key Proposed Changes

Amendment Changes	Affected Entity
Removal of the deposit and recycling program and associated requirements	Manufacturers Retailers Consumers
Replacement of the deposit program with a reclaimed refrigerant requirement	Manufacturers Reclaimers
Changes to the certification procedures and sell through of old inventory	Manufacturers
New reporting and recordkeeping requirements	Manufacturers Reclaimers
Changes to how unclaimed deposits are spent	Manufacturers

Requirements begin or phase-in starting January 1, 2024



11

## Deposit and Recycling Program



12

## Deposit and Recycling Program

- Beginning January 1, 2024, retailers will no longer collect a deposit (\$10) on sales of small containers of automotive refrigerant
- As a result, the other associated requirements will phase out over time



## Reclaimed Refrigerant Requirements

## Manufacturer Responsibilities

Each manufacturer must use the following percentages of certified reclaimed refrigerant on a yearly basis:

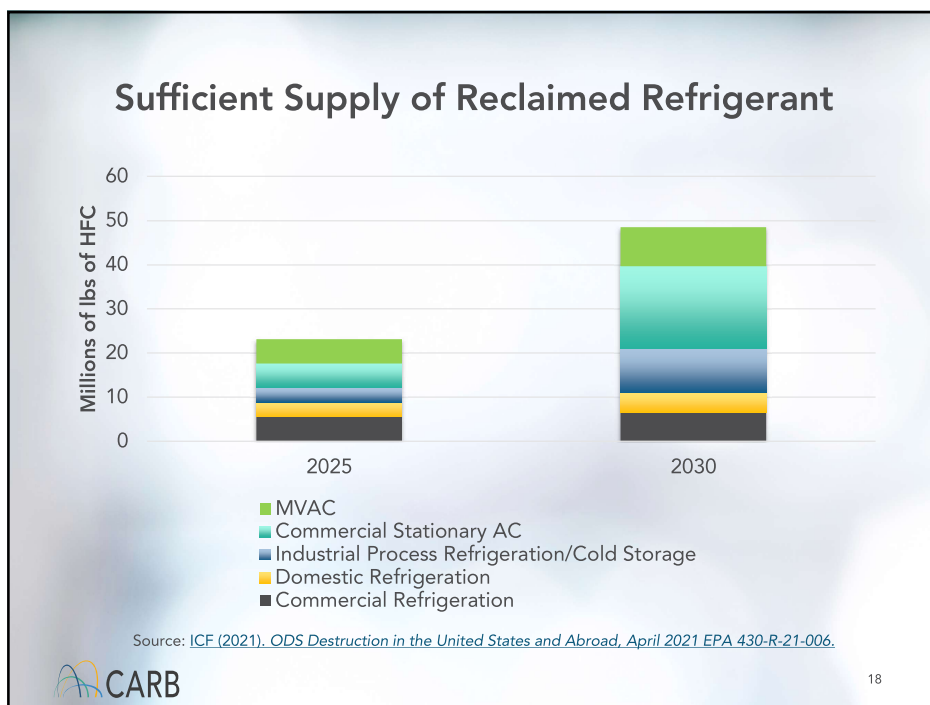
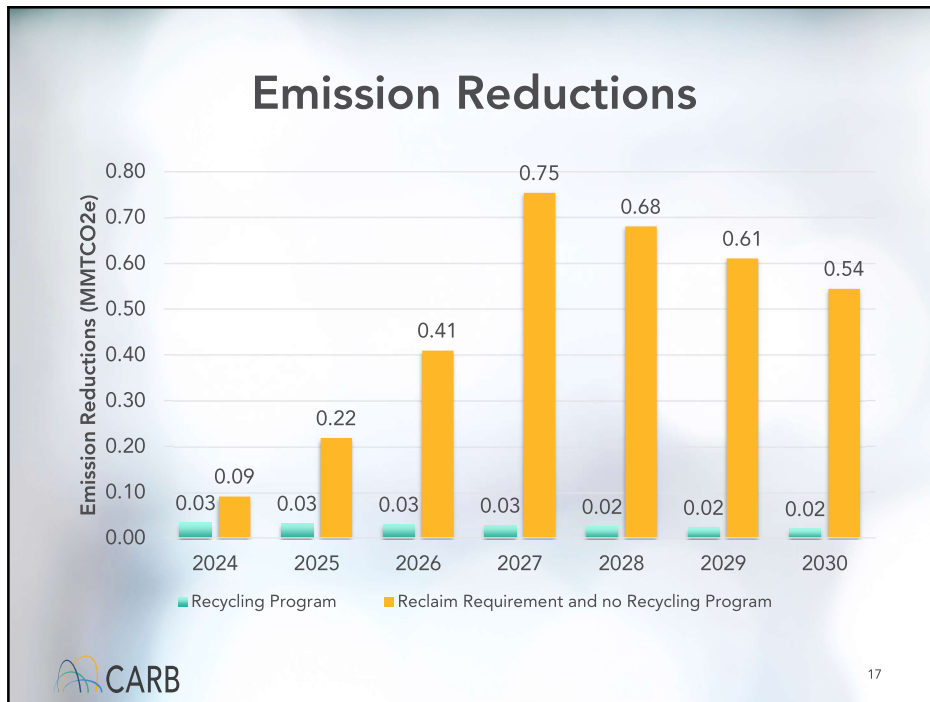
Percentage of Certified Reclaimed Refrigerant Required	Starting Date
10%	January 1, 2024
25%	January 1, 2025
50%	January 1, 2026
100%	January 1, 2027

## Reclaimer Responsibilities

- Recovered refrigerant must be reclaimed by a U.S. EPA certified refrigerant reclaimer
- Recovered refrigerant must meet all reclamation specifications defined by U.S. EPA
- Reclaimers must use certified reclaimed refrigerant when selling reclaimed refrigerant to small can manufacturers







## Reporting and Recordkeeping Requirements



19

## Reporting and Recordkeeping Requirements

### Manufacturers:

- Annually report amount of reclaimed refrigerant purchased and used in small containers of automotive refrigerant

### Reclaimers:

- Annually report amount of refrigerant reclaimed and the amount of reclaimed refrigerant sold to small can manufacturers

Recordkeeping requirements for both manufacturers and reclaimers on reclaimed refrigerant



20

## Certification Procedures and Sell-Through of Small Cans



21

## Certification Procedures and Sell Through

New Certification Procedures (Effective January 1, 2024):

- Remove deposit and recycling program requirements
- Remove labelling requirements associated with deposit and recycling program
- Permit display of product brochures through QR code

Sell Through:

- Seeking input from stakeholders
- No re-certification is required for approved products if only labeling changes are made



22

## Enhanced Education Program



23


### Enhanced Education Program: Ineffective on Return Rates

- Remove “Enhanced Education Programs” as spending option for unclaimed deposits
  - Retain Greenhouse Gas Reduction Program option
- Require all unclaimed deposits to be spent by January 1, 2028



24

## Next Steps and Anticipated Timeline



25

### Next Steps – Preliminary Timeline Small Can Regulation Amendments Rulemaking

Regulation Item	Tentative Date
Public workshop and Stakeholder meetings	Prior to February 2023
Staff Report (ISOR) 45-Day public comment opens	February 2023
Board Meeting	March 2023



26

## Questions

Van Tsan, Air Resources Engineer  
[van.tsan@arb.ca.gov](mailto:van.tsan@arb.ca.gov)

Website:  
<https://ww2.arb.ca.gov/our-work/programs/small-containers-automotive-refrigerant>

