



Proposed Amendments to the Small Containers of Automotive Refrigerant Regulation

October 26, 2023

What is a Small Container of Automotive Refrigerant?

- Used by do-it-yourselfers to recharge motor vehicle air conditioning (MVAC) systems
- 1.5 million containers sold annually
- Hydrofluorocarbon (HFC)-134a is the predominant refrigerant

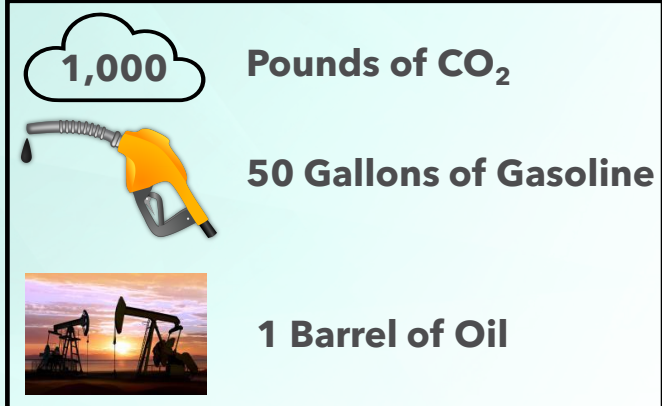


Impact of HFC-134a

- HFCs are the fastest-growing source of greenhouse gas (GHG) emissions
- Short-Lived Climate Pollutant
- Global Warming Potential (GWP) of 1,430



=

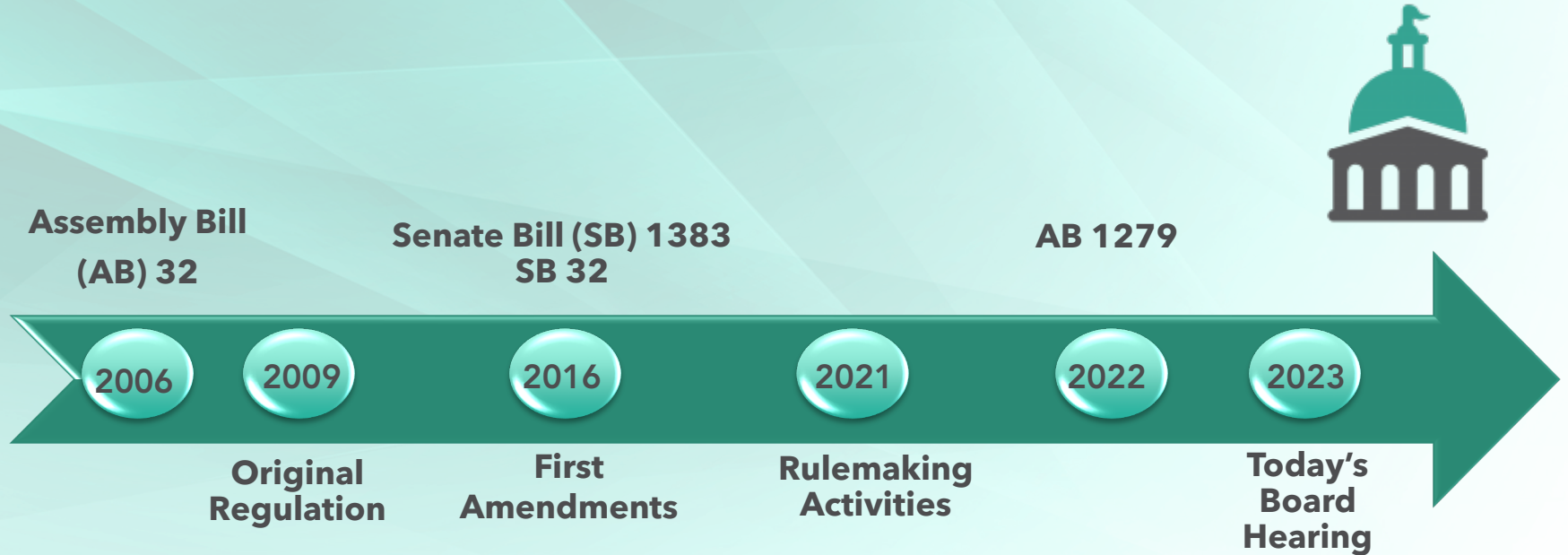


1,000 Pounds of CO₂

50 Gallons of Gasoline

1 Barrel of Oil

Background and Timeline



Overview of Regulation Requirements

Self-sealing valve

Labeling,
Reporting, and
Recordkeeping

Deposit and
Return Program

Education and
Outreach
Materials

Impact of Current Regulation

- Self-sealing valve
 - Responsible for the majority of emission reductions
 - U.S. EPA adopted a self-sealing valve requirement
- Deposit and Return Program
 - 4% refrigerant recovered (Original estimate was 22%)
 - 66% return rate (Original goal was 95%)
 - \$5.5 million per year in unclaimed deposits

Impact of Current Regulation

- Labeling, Reporting, and Recordkeeping Requirements
 - Promote consumer education on proper MVAC recharging and ensure accountability for retailers, distributors, and manufacturers
- Education and Outreach Program
 - Emphasizes best practices for vehicle recharging
 - Launched an Enhanced Education Program in 2017 to increase return rate
 - Resulted in increase in small can usage with no change in return rate
 - Ceased program in 2021

Overview of Proposed Amendments

Self-sealing valve

Labeling,
Reporting, and
Recordkeeping

Deposit and
Return Program

Education and
Outreach
Materials

Removal of Deposit and Return Program

- Starting January 1, 2025:
 - Remove consumer deposit of \$10
 - Remove container labeling referencing the Deposit and Return Program
 - Use reclaimed refrigerant when filling small containers



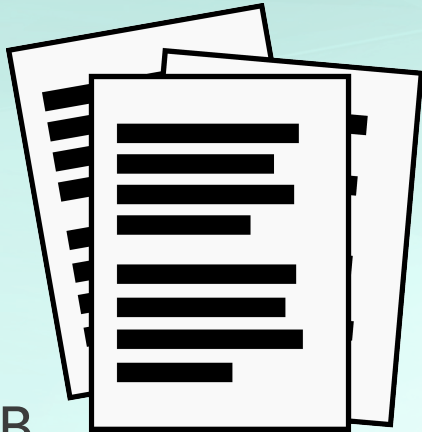
Phase-in of Reclaimed Refrigerant

| <u>Reclaimed Refrigerant Requirement</u> | <u>Starting Date</u> |
|--|------------------------|
| <u>25%</u> | <u>January 1, 2025</u> |
| <u>50%</u> | <u>January 1, 2026</u> |
| <u>100%</u> | <u>January 1, 2027</u> |

- Reclaimed refrigerant must be reclaimed from a previously operational appliance and have 0% virgin allowance when meeting U.S. EPA specifications.
- Aligns with the American Innovation and Manufacturing (AIM) Act of 2020
- Sufficient supply of reclaimed refrigerant available to meet demand in California

Reporting and Recordkeeping Requirements

- Remove reporting and recordkeeping requirements for the Deposit and Return Program
- Add reporting and recordkeeping requirements for the reclaimed refrigerant requirement

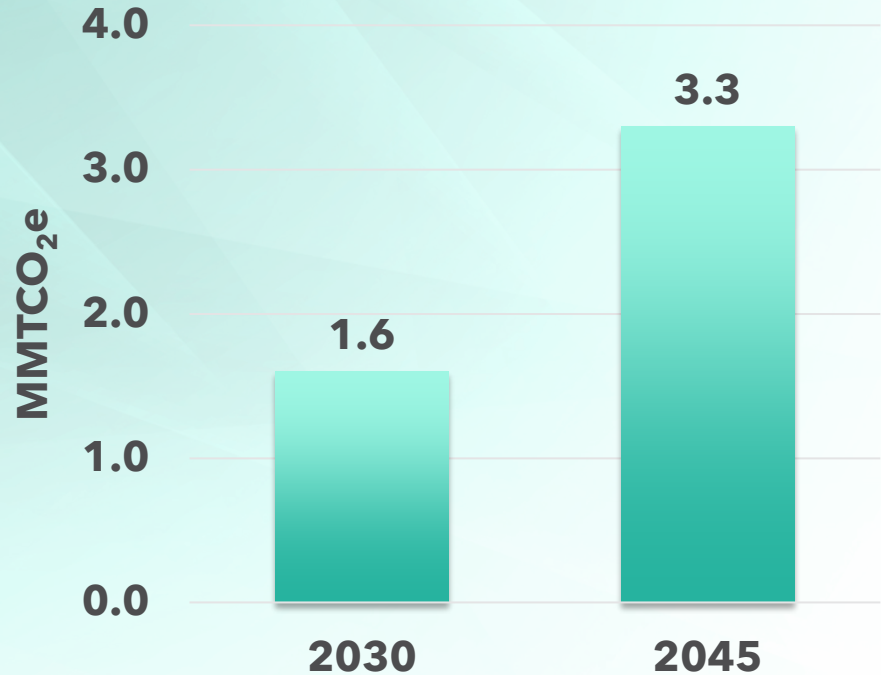


Spending Plan Changes

- Unclaimed deposit spending directed towards following two measures:
 - Motor vehicle air conditioning repair
 - Recovery and reclamation of refrigerants or foams with a GWP value greater than 150
- Outreach to affected communities
- All unclaimed deposits must be spent by 2030

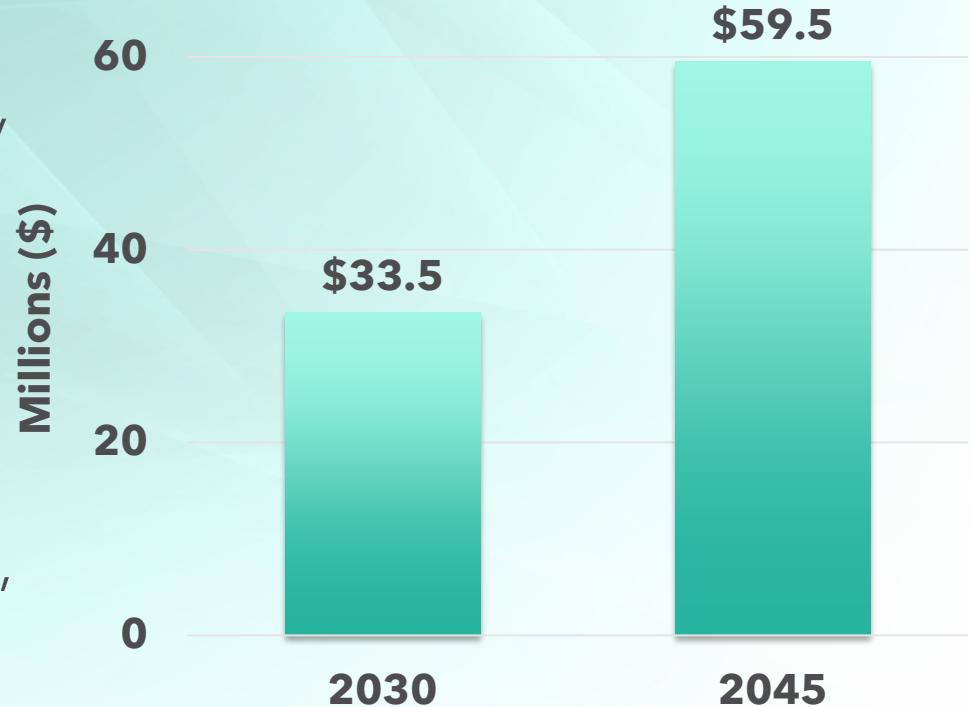
Emission Benefits

- Achieve cumulative emission reductions of 1.6 and 3.3 Million Metric Tons Carbon Dioxide Equivalent (MMT CO_2e) by 2030 and 2045, respectively



Economic Benefits

- Currently, it costs consumers approximately \$5.5 million, including \$1.8 million from Disadvantaged Communities per year
- \$33.5 million and \$59.5 million by 2030 and 2045, respectively



Recommendations

- Amendments will:
 - Achieve emission reductions while reducing the regulatory burden on consumers, retailers, and manufacturers
 - Align with the U.S. EPA small container rule and the AIM Act
 - Support California's climate goals
- Staff recommends the Board approve and adopt the Proposed Amendments to the Regulation for Small Containers of Automotive Refrigerant