

RESEARCH PROPOSAL

**Recovery and Destruction of High-
Global Warming Potential (GWP)
Greenhouse Gases (GHGs)**

April 24, 2008

California Environmental Protection Agency



Air Resources Board

Recovery and Destruction of High-Global Warming Potential Greenhouse Gases

Objective: Provide cost data and feasibility analysis of recycling, re-using, or destroying High-GWP GHGs.

Expected Results: Data used to develop cost-effective recovery programs to reduce emissions from High-GWP GHGs.

Recommendation: ICF International
\$297,765 (24 months)

Proposal Scope

 = Proposal Covers

 = Proposal Covers Important Elements, not All

High-GWP GHG Source	End-of-Life Recovery	GHG Emission Control Strategies
Insulation Foam		
Air Conditioning		
Food Refrigeration		
Fire Suppression		

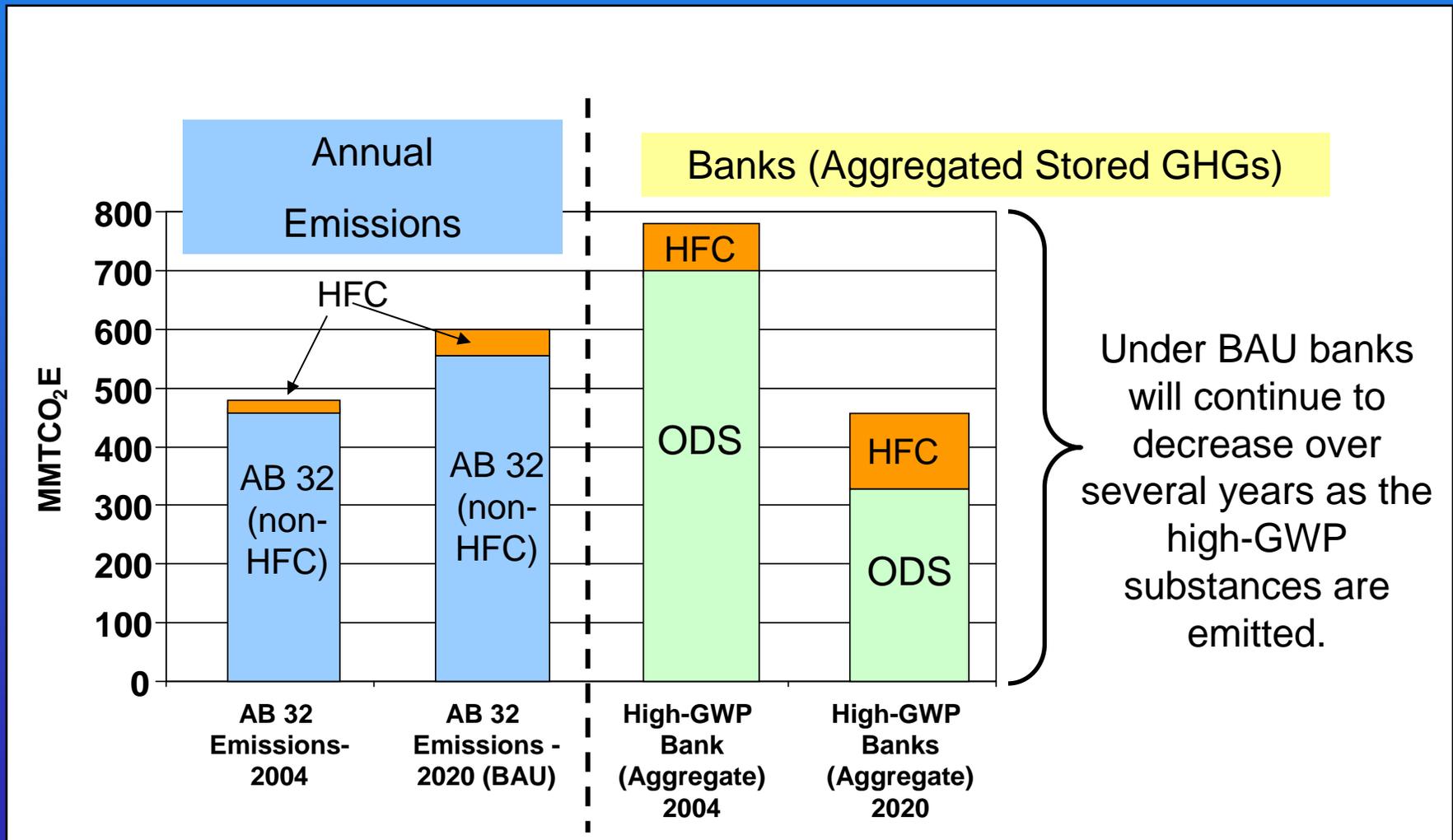
Proposal Complements and Supports Several Early Action Measures for High-GWP GHGs

- Refrigerant Management
 - Motor Vehicle Air Conditioning
 - Tracking, Reporting, Leak Repair
 - New Commercial Refrigeration Systems
- End-of-Life
 - Appliance Recycling
 - Recovery and Destruction Program
- Emissions Management of Fire Suppressants

ARB Seeks to Address an Important Gap Regarding Climate Change in Existing Regulatory Structure

	Deplete Ozone Layer?	Contribute to Climate Change?	Existing Regulatory Structure
ODS			Emissions are Not Covered Under Montreal Protocol; AB 32 Can Fill Gap
HFCs	No		AB 32 / Kyoto Protocol

High-GWP Gases - Annual Emissions and "Banks" (2004 & 2020)



~65% of High-GWP Banks are ODS in Insulation Foam in Older Buildings and Appliances



Other Significant Sources



Mobile and Stationary Air Conditioning



Commercial Refrigeration

Fire Suppression

RECOMMENDATION

**Approve Resolution
08-25**