

25 & 26 June - Atlanta, Georgia

California Air Resources Board Regulation of High-GWP Refrigerants

Regulations & Standards Session



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ARB Refrigerant Regulations Background

AB 32: Reduce GHGs to 1990 levels by 2020

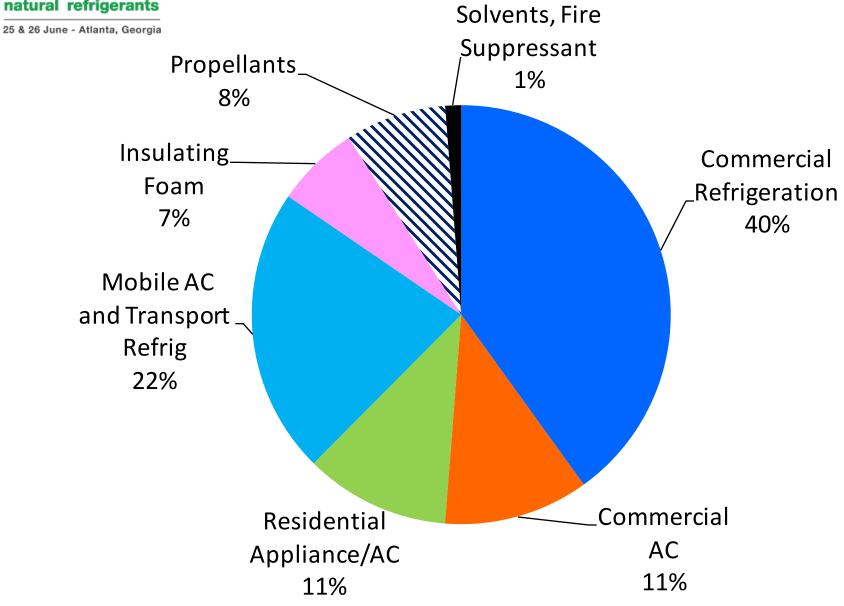
Governor's Executive Order of 2015: 1) Reduce all GHGs 40% by 2030

2) Reduce all GHGs 80% by 2050

By end of 2015, complete plan to reduce Short-lived Climate Pollutants (SLCPs): F-gases, methane, and black carbon (soot)



Sources of HFCs in California





Reduction Measures Proposed 2015 (As of June 2015, no final decision has been made)

- Stationary Refrigeration (All sectors -Commercial, Industrial, Residential) (New Equip Only): No refrigerants with GWP 150 or greater* to begin January 1, 2021 *(limited exceptions)
- Stationary AC (All sectors Commercial, Industrial, Residential) (New Equip Only): No refrigerants with GWP 750 or greater to begin January 1, 2022



Reduction Measures Proposed 2015 (cont.) (As of June 2015, no final decision has been made)

- Very-high GWP refrigerants: No sales/distribution of refrigerant with GWP 2500 or greater** to begin Jan 1, 2020 **(exception for certified recycled refrigerant)
- Spray foams (not otherwise covered by U.S. EPA): no foam expansion agent with GWP 150 or greater to begin Jan 1, 2021
- 5. Grant funding incentive program for early adopters of low-GWP retail food



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ARB Refrigerant Regulation Guidelines

- ARB is technology neutral & chemical neutral
- Refrigerant must meet low (or lower) GWP threshold, and be U.S. EPA SNAPapproved
- Aligns with EU F-Gas Regulation GWP limits, and accelerates the start dates of "Placing on the Market Prohibitions"



Other ARB F-Gas Measures to be Studied

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- Additional ARB F-gas measures considered, but not included in SLCP at this time to allow further study:
- High-GWP fee on purchase of HFCs
- HFC production-import phasedown at California level



ARB Needs Your Professional Feedback

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Please Comment on Proposed F-gas Measures

Summer 2015	Initial draft of Strategy to Public; Public workshops on draft report
Fall 2015	Release 2 nd draft proposed Strategy
Fall 2015	Present draft proposed Strategy to Air Board
Spring 2016	Present final Strategy to Board for approval

SLCP home page & to join email list-serve: http://www.arb.ca.gov/cc/shortlived/shortlived.htm

AMERICA ATMO Sphere business case

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Thank you very much

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