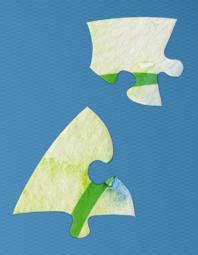
Sustainable Refrigeration Summit

Connecting the Pieces for Supermarket Refrigeration Solutions













Aanchal Kohli, D. Env.
F-gas Reduction Strategy Section
California Air Resources Board (CARB)



FRIP 2019-2020 Funding

CARB received \$1 Million in 2019-2020

3 15 funded projects

9 located in a census tract identified as disadvantaged or low-income

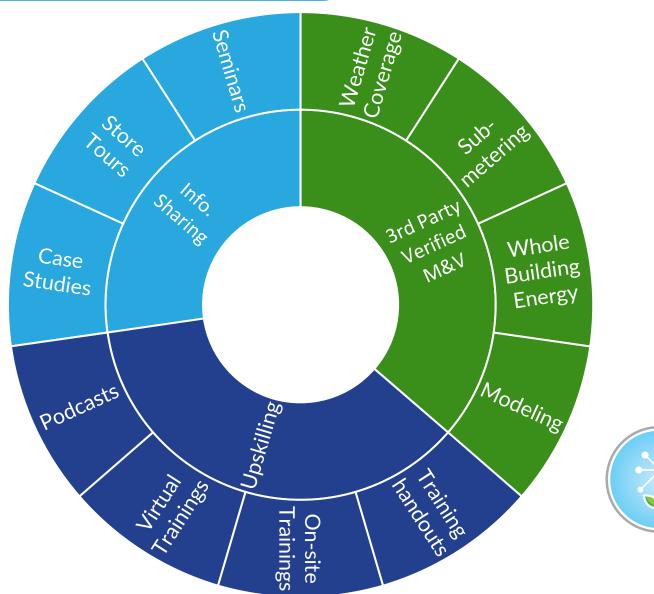
13 ultra-low-GWP technologies





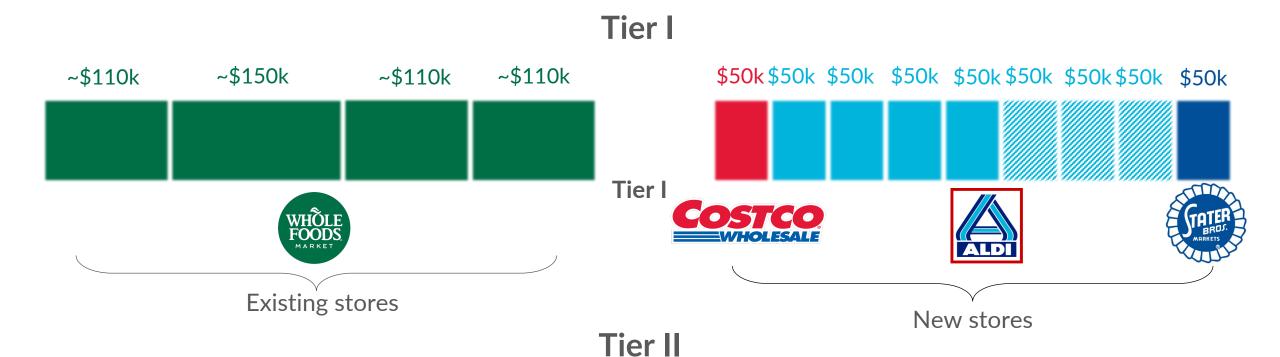


Addressing Market Barriers





2019-2020 Projects



GHG reductions: ~37,000 MTCO₂e Cost-effectiveness: 27\$/MTCO₂e





Stories from 2019-20 FRIP



Stater Bros. Markets opened the company's first CO₂ refrigeration system across fleet of 171 stores





Whole Foods Markets converted four existing high-GWP HFC systems to hybrid lower-GWP HFC and CO₂ systems in while keeping the stores operational











Costco opened a store in Murietta with the largest transcritical CO₂ system







2019-20 FRIP Timeline

2019 CARB receives \$1M

2021 CARB awards 15 grants & projects begin 2023

All systems installed, stores open, and M&V completed mid- to late-2023











2020

FRIP grant solicitation and award selection

2022

11 of 15 projects completed and stores operational



\$65 Million in 2022-24

The CA legislature allocated significant funding to CARB to reduce HFCs

- \$45 million 2022-23
- \$20 million 2023-24



CARB will facilitate a public stakeholder process to spend new allocation

- Expand existing FRIP
- Include other HFC refrigerant sources



California's future ()







California passes SB 1206 (2022):

- Prohibits the sale of newly produced HFCs/HFC blends that exceed a GWP threshold; reclaimed allowed
- CARB to develop assessment to transition to ultra-low and no-GWP technologies by 2035

Reducing HFC emissions is important to achieve Carbon Neutrality in CA

https://ww2.arb.ca.gov/resources/documents/202 -scoping-plan-documents







Contact Info

- Aanchal.Kohli@arb.ca.gov
- FRIP@arb.ca.gov
- Subscribe to CARB listserv for announcements (Select "HFC-Reduction" topic)
 - https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id= hfc-measures

