Warehouse ISR: Bringing A Proven Pollution Reduction Solution to Colorado

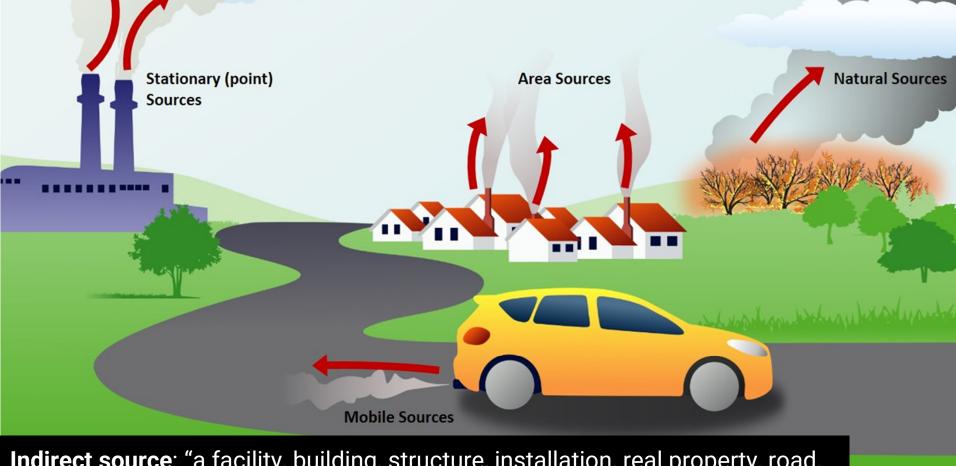
Alexandra Schluntz Jessica Zausmer August 16, 2024



Agenda

- 1. Indirect Source Rule Overview
- 2. Warehouse Impacts in Colorado
- 3. Case Study: South Coast Warehouse Rule
- 4. Actions in Other Jurisdictions
- 5. Conclusions

Indirect Source Rule Overview



Indirect source: "a facility, building, structure, installation, real property, road, or highway which attracts, or may attract, mobile sources of pollution." 42 U.S.C. 7410(a)(5)(c)









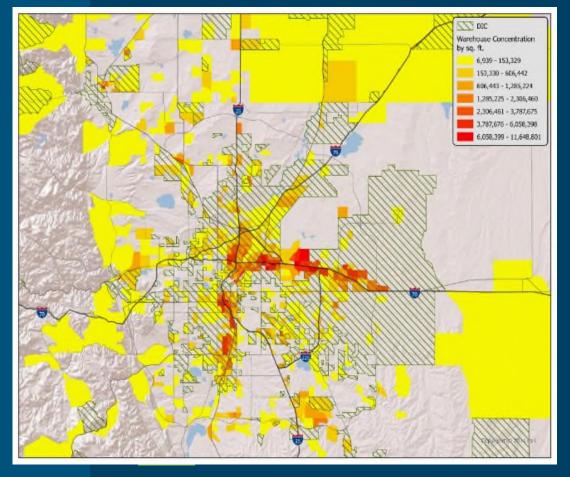


Examples of Indirect Sources

- Airports
- Marine Ports
- Railyards
- Warehouses
- New/Redevelopment

Warehouse Impacts in Colorado

Warehouse Facilities in DICs (2021)



Ava Farouche, Earthjustice.

Equity Impacts: Location of Warehouse Sq Footage

2021

- 38% in Housing Burdened
 Communities
- 47% in Communities of Color
- 34% in Low Income
 Communities

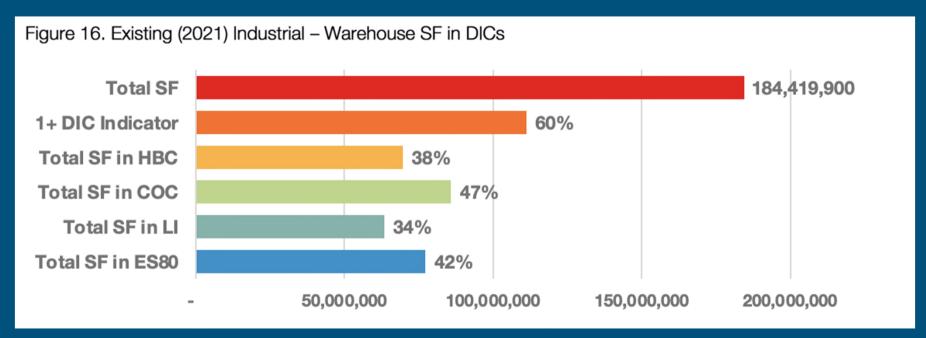


2030 Projections

- 34% in Housing Burdened Communities
- 61% in Communities of Color
- 32% in Low Income Communities

60% in a DIC

Equity Impacts: 2021 Location of Warehouse Sq. Footage



RAQC's Indirect Source Market Study: Felsburg Holt & Ullevig, Equity Analysis of Indirect Sources – Colorado Indirect Source Market Study, June 2023, Figure 16.

Equity Impacts: 2030 and 2040 Projections

Table 7. Existing (2021) & Projected Industrial – Warehousing SF in DICs

Time Period	SF	Housing Cost Burdened		Communities of Color		Low Income Communities		EnviroScreen Score 80+	
		SF	%	SF	%	SF	%	SF	%
2021	184,419,900	69,593,700	38%	85,824,600	47%	63,287,000	34%	77,182,100	42%
2030	200,863,700	68,833,200	34%	121,967,600	61%	63,770,800	32%	79,441,600	40%
2040	224,518,700	76,967,900	34%	134,238,600	60%	71,568,700	32%	89,276,100	40%
Net 2021-2040	40,098,800	7,374,200	18%	48,414,000	121%	8,281,700	21%	12,094,000	30%

TIMELINE: ISR Consideration in Colorado



December

RAQC presentation RAQC staff & APCD counsel present to

RAQC on ISR

September

RAQC ISR Work Group meeting RAQC staff present to RAQC

committee on ISR

January RAQC

presentation
RAQC staff present
to RAQC
committee on ISR

all

Declined to include in Severe SIP

"[d]ue to the resources necessary for development, [an ISR] strategy is not able to be completed by the time of this SIP submittal." Proposed Severe SIP at 7-38

2019

2021

December

South Coast presentation
South Coast AQMD

staff present on warehouse ISR to the RAQC 2023

2022

CO Indirect Source Market Study

July

Market Study completed by consultants for the RAQC (Felsburd, Holt & Ulevig)

. October

RAQC memo

RACQ staff release preliminary analysis on ISR strategies

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Case Study: South Coast Warehouse Rule

The Promise of a Warehouse ISR

- Emission reductions: a comprehensive approach to warehouse pollution
- Catalyze infrastructure
- Transition to clean trucks future
- Improve reporting
- Enforceable

Points-Based System

 Covers new & existing warehouses over 100,000 square feet

 Requires reporting of operations and truck trip data

- Menu of Compliance options, including:
 - Installing ZE infrastructure (charging stations)
 - # of ZE truck trips to and from warehouse
 - Installing solar panels
 - Installing air filters in nearby schools, homes
 - Mitigation fee
 - Custom plan

SCAQMD Data: 2021 - 2023

Successes: South Coast Warehouse Rule





1.2 ton/day

NOx Reductions



.038 ton/day

DPM Reductions

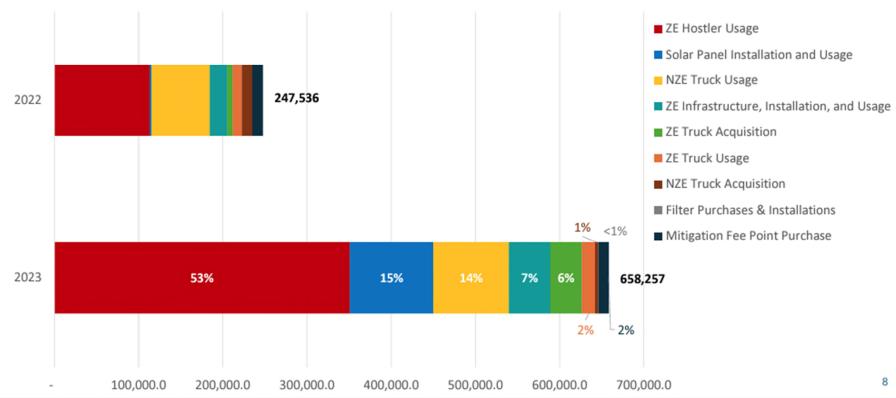


\$29.3 million

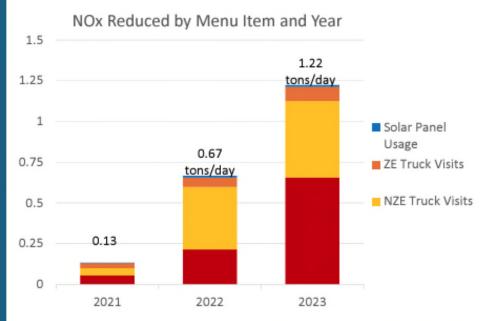
Mitigation fees reported to date (2021-July 31, 2024)

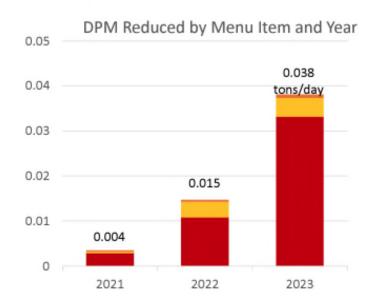


Reported Total WAIRE Points By Year



Emission Reductions From Reported Actions*





NOx and DPM emission reductions are within range of estimated benefits¹

Estimated NOx Reduction: 1.5 to 3 tons per day
Estimated DPM Reduction: 0.005 to 0.02 ton per day

¹ Based on Final Staff Report (Attachment 1)

^{*}Unaudited results shown

Benefits of South Coast Rule

- Provides flexible set of options to comply
- Reduces local and regional emissions associated with warehouses
- Collects key information about warehouses
- Contributes to the clean energy economy
- Generates revenue for further pollution reduction measures

Action in Other Jurisdictions

Action in Other Jurisdictions

Legislative Efforts

- New York Clean Deliveries Act
- New Jersey SB 3546/A4679

Regulatory Efforts

- San Diego APCD
- Bay Area Air Quality Management District
- City of New York

Conclusions

Critical Elements of Warehouse ISR

Facility by Facility Review	Applies to new and existing warehouses.
Air Emissions Reduction Plan	Based largely on SCAQMD framework.Enhanced mitigation in DICs
Permit for New Warehouses	 Will not contribute to air quality violation. Will ensure public participation requirements apply.
Transparency	Annual reporting on trucks, emissions, charging data, etc.
Enforceability	Voluntary commitments are insufficient to assure reductions & include in State Implementation Plan

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Thank You!