

# WAIRE Program

Rule 2305 –  
Warehouse Actions and Investments to  
Reduce Emissions (WAIRE) Program

*Cleaning The Air That We Breathe...*



## Technology Assessment Public Consultation Meeting

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September 22, 2026  
1:00 p.m.

Zoom Meeting Link:  
[aqmd.zoomgov.com/j/1609207706](https://aqmd.zoomgov.com/j/1609207706)

Dial In: +1 (669) 254-5252

Meeting ID: 160 920 7706

# Agenda



Introduction



WAIRE Program Overview



Scope of Technology Assessment



Looking Ahead



Open Discussion



# Introduction

**WAIRE Program Technology Assessment**



# South Coast AQMD

- Local air pollution control agency
  - Largest of the 35 local air agencies in CA and in the U.S.
  - 10,743 square miles
  - 17 million residents
- Responsibilities
  - Permit and inspect about 28,400 affected businesses
  - Develop and implement plans to meet national air quality standards
  - Administer over \$100 million of incentive funding annually





# Purpose of Meeting



Provide background on WAIRE Program Technology Assessment



Gather public input



Outline the timeline and next steps



# WAIRE Program Overview

**WAIRE Program Technology Assessment**



# WAIRE Program Introduction

## Purpose

- Reduce nitrogen oxides (NOx) and diesel particulate matter (PM) from mobile sources associated with warehouses
  - Regional and local benefits
  - First-in-the-nation landmark rule adopted in May 2021

## Applicability

- Applies to owners and operators of warehouses greater than or equal to 100,000 square feet
  - Limited exemptions





# WAIRE Program Requirements

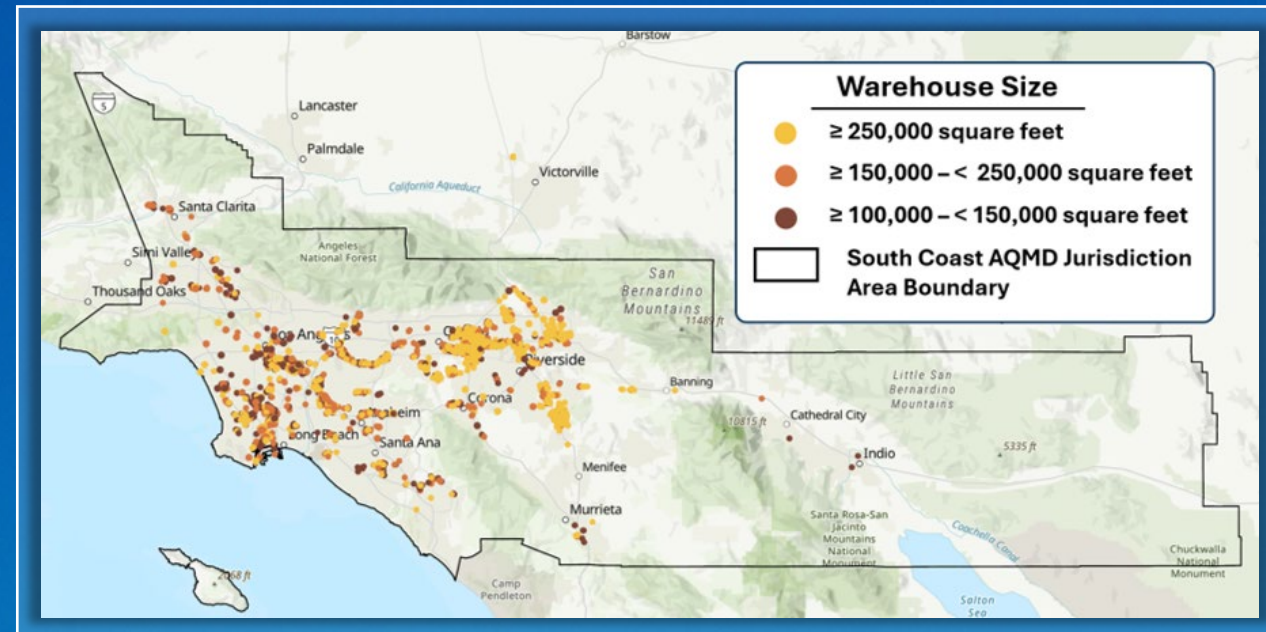
## Reporting

- Warehouse Operations Notification (WON)
- Initial Site Information Report (ISIR)
- Annual WAIRE Report (AWR)

## Earn WAIRE Points Annually to Satisfy Compliance Obligation

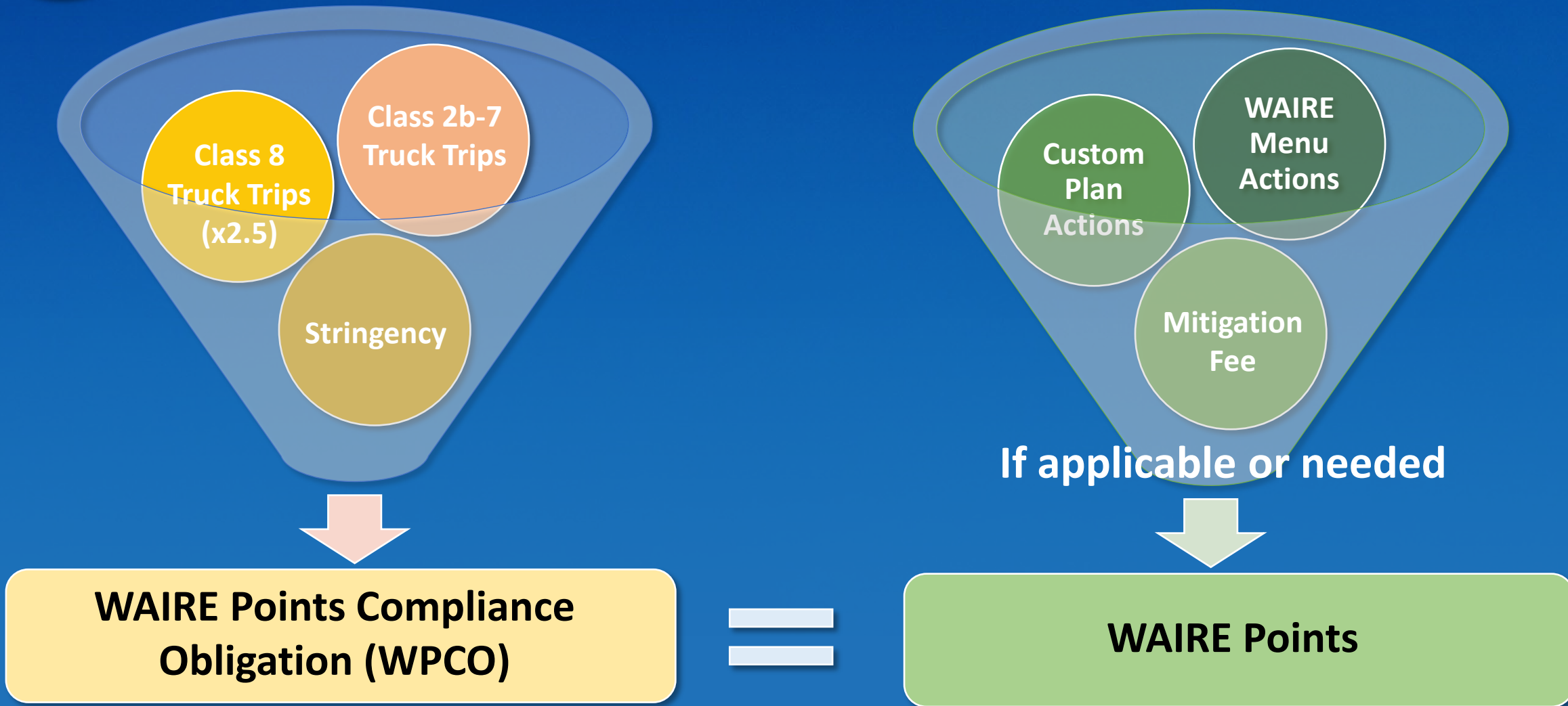
- WAIRE Menu (32 options)
- Mitigation Fee Option
- Custom WAIRE Plan
- Limited transfer/banking with early or over-compliance

Over 4,000 applicable warehouses





# Obligations and Required Actions





# How WAIRE Points Work: Example

## 1 WPCO\* = 20

In 2025, the following were recorded for a 300,000-square-foot warehouse:

|                                                                                   |       |                        |
|-----------------------------------------------------------------------------------|-------|------------------------|
|  | 3,000 | Class 2b-7 Truck Trips |
|  | 2,000 | Class 8 Truck Trips    |

## 2 WAIRE Points Earned\*\* = 20

Operator must earn 20 WAIRE Points to meet their obligations, such as:

|                                                                                      |        |                                          |    |              |
|--------------------------------------------------------------------------------------|--------|------------------------------------------|----|--------------|
|   | 122    | Zero-Emission (ZE) Class 2b Truck Visits | 3  | WAIRE Points |
|   | 1      | ZE Class 2b Truck Acquisition            | 14 | WAIRE Points |
|  | 11,785 | kWh of Use at Onsite Charging Station    | 3  | WAIRE Points |

Technologies in WAIRE Menu

\* WAIRE Points Compliance Obligation (WPCO) is calculated based on a formula in Rule 2305, with truck trips as a key parameter

\*\* WAIRE Points per action are included in the WAIRE Menu in Rule 2305



# Existing WAIRE Menu Already Includes Many Options



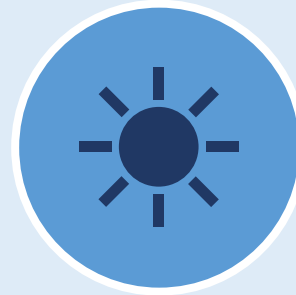
## Vehicles

- ZE / Near-Zero Emissions Trucks
- ZE Yard Trucks



## Infrastructure

- Electric Charging
- Hydrogen Fueling



## Energy

- Solar Panels



## Exposure Reduction

- Air Filtration



# Technology Selection Criteria for the WAIRE Menu

## Technology Evaluation during Rule Development for WAIRE Menu Items (Years 2018 to 2021):

- Commercially available currently or in the near future
- Broadly applicable to many warehouses
- Provides or supports quantifiable NOx or diesel PM emissions reductions
- Goes beyond other regulatory requirements



## Custom WAIRE Plan Option

### Custom WAIRE Plans under Rule 2305:

- Allows facilities to earn WAIRE Points for clean technologies or actions not included in the WAIRE Menu
- Application must meet certain criteria and undergo a 30-day public review
- Four facilities currently have approved Custom WAIRE Plans\*



\* <https://www.aqmd.gov/home/rules-compliance/compliance/waire-program/custom-waire-plans>



# Scope of Technology Assessment

**WAIRE Program Technology Assessment**



# Technology Assessments

When Rule 2305 was adopted in 2021, the South Coast AQMD Governing Board directed staff to:

- Evaluate the status of applicable technologies every five years
- Recommend updates to the WAIRE Menu, as appropriate
- Report findings to the Mobile Source Committee





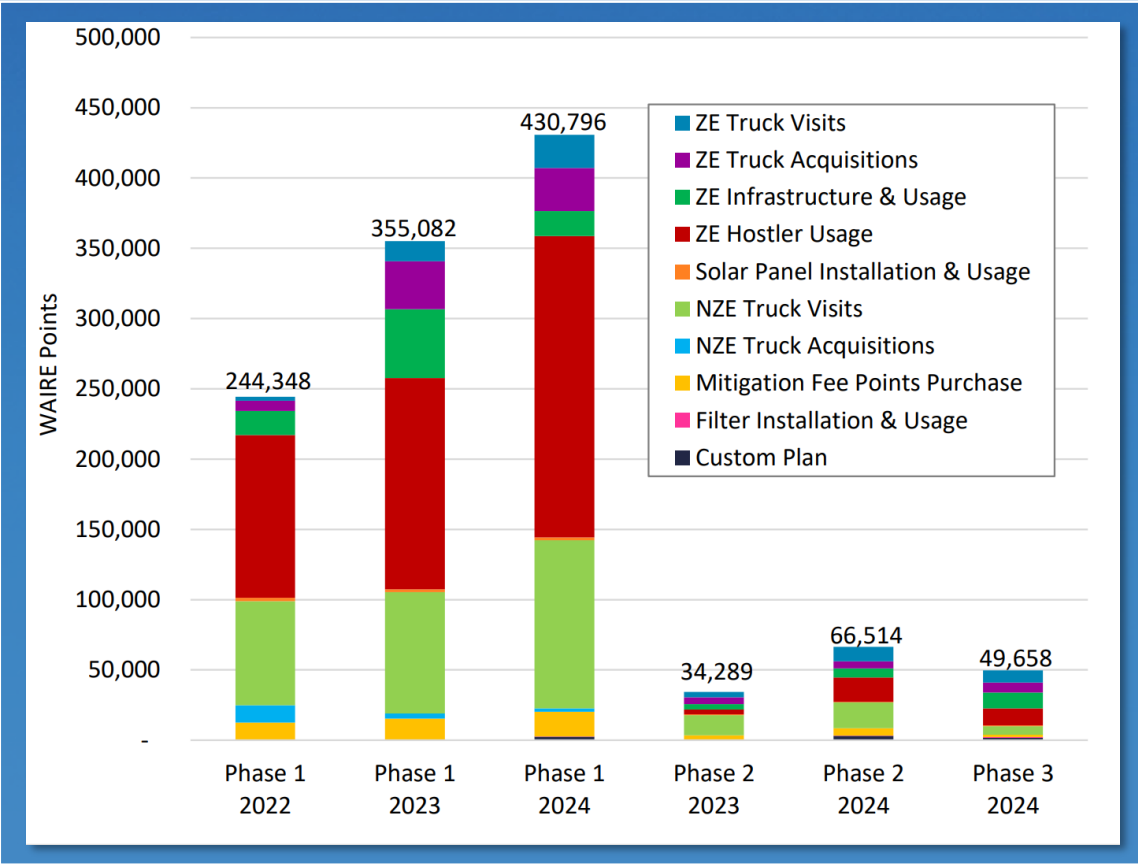
## Key Questions

- 1 How have warehouse operators used existing WAIRE Menu options?
- 2 What is the status of commercial, or soon-to-be commercial technologies not currently on the WAIRE Menu that may fit within the WAIRE Program?
- 3 How could any newer technologies be incorporated into the WAIRE Program?

# 1

## Existing Technologies on the WAIRE Menu

- Staff prepares an Annual Report every year to provide status of rule implementation
  - Based on data submitted by warehouse operators
  - Includes an analysis of technologies deployed from the WAIRE Menu
    - Most recent analysis included in the 3<sup>rd</sup> Annual Report (January 2026)
    - 4<sup>th</sup> Annual Report anticipated October 2026
- Technology Assessment will provide background info on usage of WAIRE Menu options based on data in Annual Report



# 2

## Sources of Information for Technologies Not on the WAIRE Menu

### Literature Review

- Published research since 2021



### Grant Projects

- South Coast AQMD-funded technology demonstration projects



### Stakeholder Input

- Technology vendors
- Warehouse operators
- Public agencies



# 2

## Technologies Currently Under Consideration

### Mobile

- Electric Transport Refrigeration Units (eTRUs)
- On-Road Trucks:
  - H2 internal combustion
  - Natural gas not included in the WAIRE Menu
  - Hybrid
  - Etc.

### Infrastructure

- On-site energy generation/storage
- Megawatt Charging System
- Off-site solutions
- Portable charging equipment

# 3

## Options to Incorporate New Technologies

### Rule 2305 Amendment

- Significant staff effort
- Long process

### Custom WAIRE Plan Template

- Moderate staff effort
- Faster process than rule amendment (following Technology Assessment)

### Individual Custom WAIRE Plans

- Facilities lead the effort
- Appropriate for tech not likely to be widely adopted in near future

### No Further Action At This Time

- Some tech may require further commercialization to determine how to include in WAIRE Program



# Looking Ahead

**WAIRE Program Technology Assessment**



# Seeking Stakeholder Feedback

**Seeking info** on new and **commercially available** (or soon-to-be) technology **equivalent or cleaner** than options currently on WAIRE Menu:

- I. Description of technology and its commercial readiness (Technology Readiness Level >8);
- II. Any relevant case studies, performance data, or manufacturer information;
- III. Proof of commercial availability and identification of facilities with long-term deployment;
- IV. Warehouse applicability and implementation feasibility
- V. Quantified emissions reductions compared with conventional technologies, if applicable (see WAIRE Implementation Guidelines Appendix A for example calculations methods); and
- VI. Total cost and incremental cost relative to baseline tech.

- Must include these five sections.
- Incomplete submittals may not be evaluated.
- Business confidential / trade secret information should be clearly marked.



# How to Provide Information and Feedback

We appreciate your feedback and information

Please provide any feedback  
or information by:

**Tuesday, October 6, 2026**

**WAIRE Program Staff**



**[waire-program@aqmd.gov](mailto:waire-program@aqmd.gov)**

**Subject Line: Tech Assessment Feedback**



## Next Steps





# WAIRE Program Information

Point your smartphone camera here to be directed to the website



## WAIRE Program Website



[www.aqmd.gov/waire](http://www.aqmd.gov/waire)

## WAIRE Program Newsletter Updates



Sign up at <http://www.aqmd.gov/sign-up>  
Select "WAIRE Program Compliance"

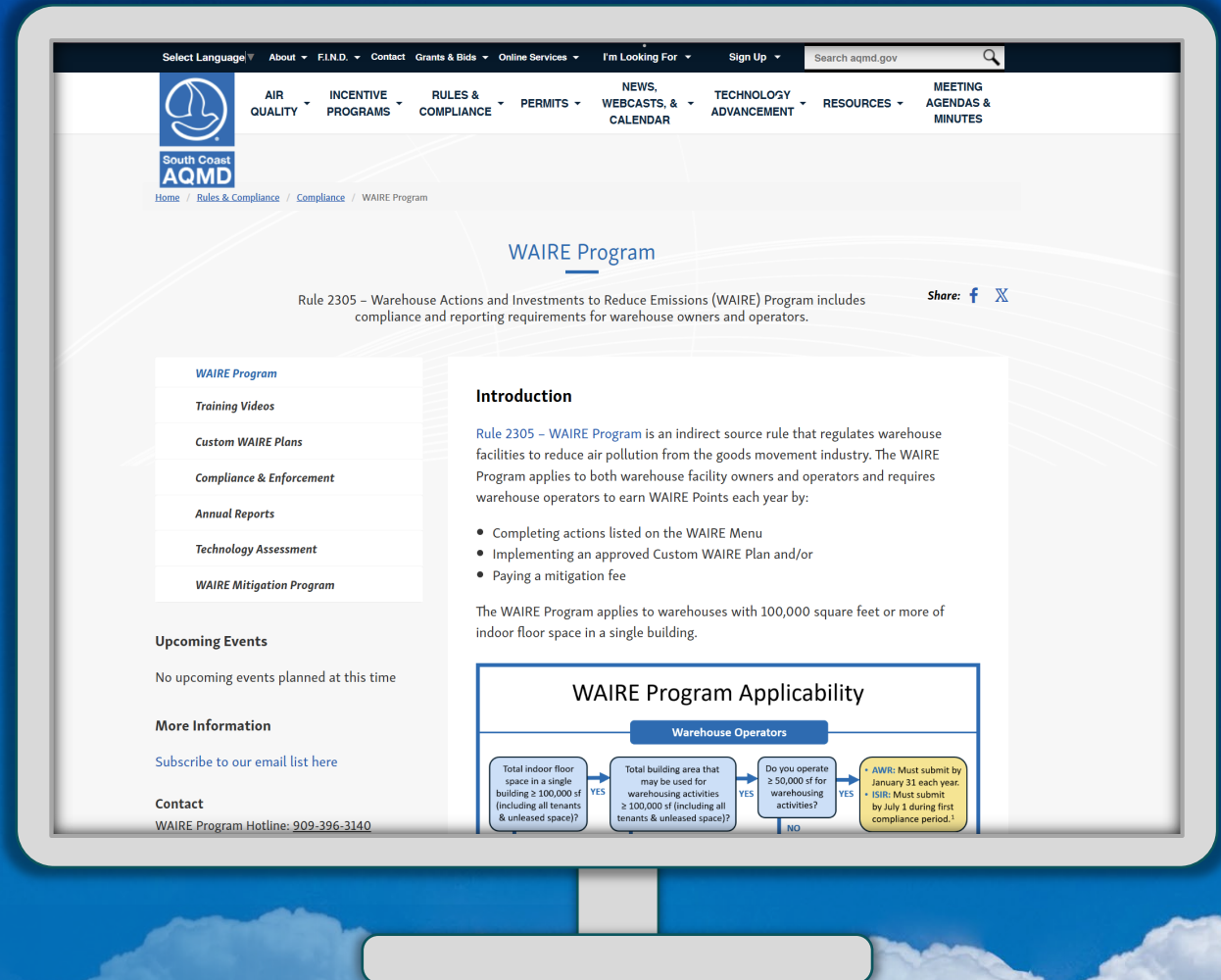
## WAIRE Program Staff



[waire-program@aqmd.gov](mailto:waire-program@aqmd.gov)



(909) 396-3140





# Open Discussion

- Please use the “raise hand” feature to request to speak:
  -  Click on the  button
  -  Dial \*9
- When it is your turn to speak, your name will be announced
  - If you are a panelist, use the “unmute” feature to speak:
    -  Click on the  button
    -  Dial \*6
  - If you are not a panelist, the meeting host will unmute you