

# Enhanced Vapor Recovery (EVR) Implementation Update

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June 26, 2008

Sacramento

Monitoring and Laboratory  
Division  
Air Resources Board  
Cal-EPA



# Agenda

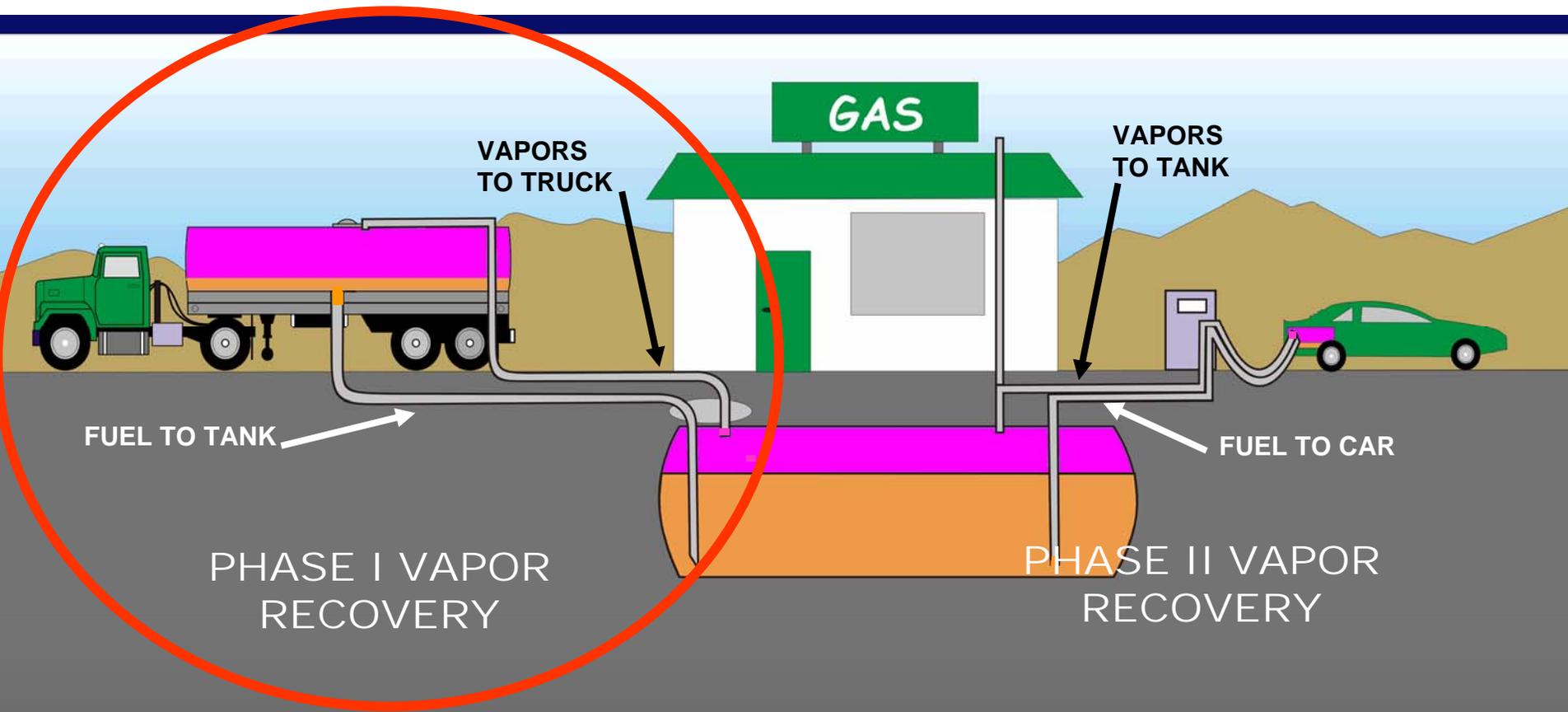
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- Vapor Recovery Program Background
- Progress Towards Meeting April 2009 EVR Phase II Deadline
- Actions to Facilitate EVR Implementation



# VAPOR RECOVERY PROGRAM

## PHASE I AND PHASE II VAPOR RECOVERY SYSTEMS



# Two Phase II System Types

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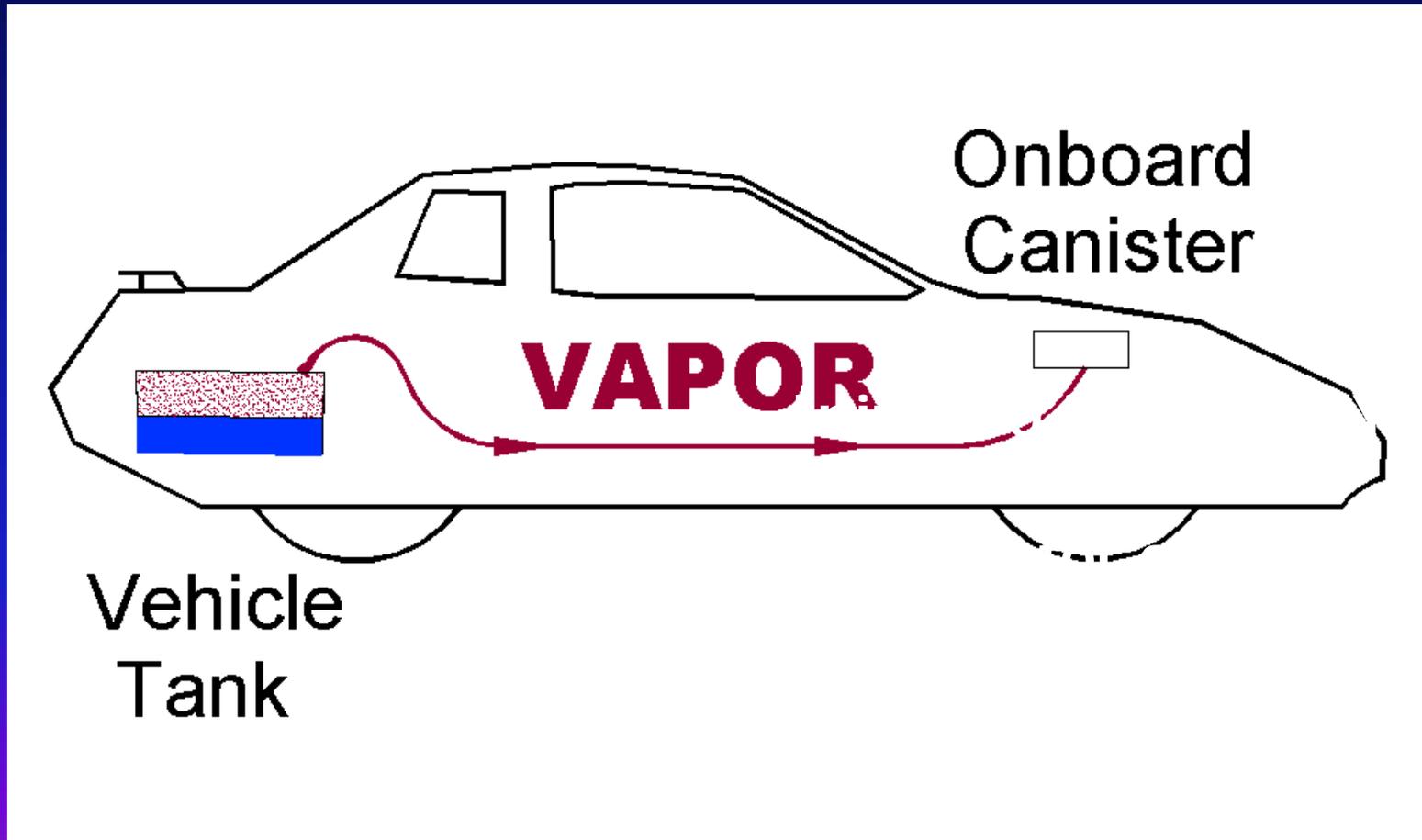
Balance

Vapor  
Pump

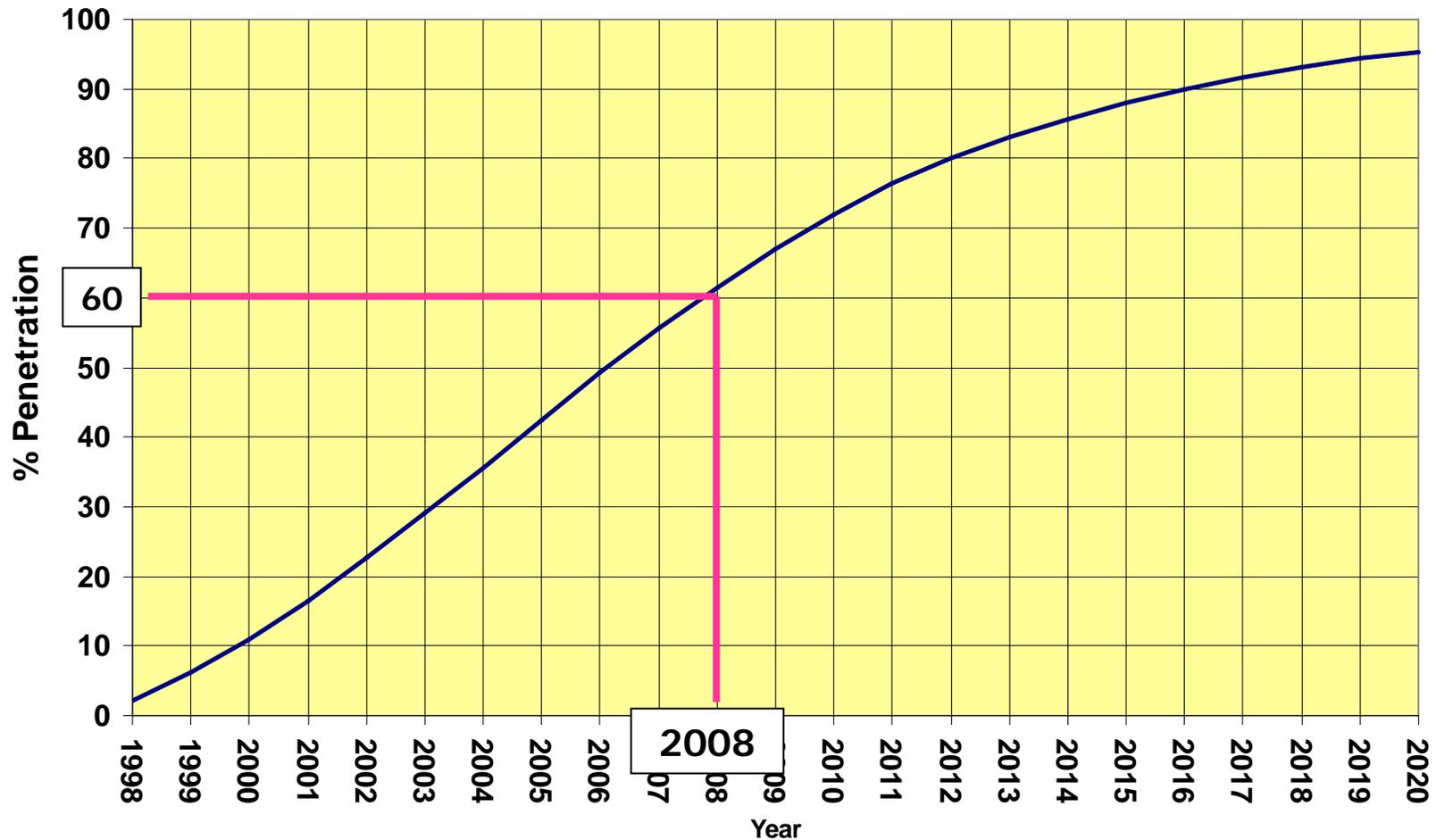


Assist

# Onboard Refueling Vapor Recovery or "ORVR"



# ORVR Penetration (VMT) (2008)



# EVR Improvements

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- More stringent certification requirements
- “Dripless” nozzles – less spillage
- Control of fugitive emissions
- Compatible with vapor recovery systems on newer vehicles (ORVR)
- Vapor recovery system monitor (In-station diagnostics or “ISD”)

# Vapor Recovery Emission Reductions

	Vapor Recovery Controls	2010 ROG Em Red (tons/day)
1970s - 2000	Pre-EVR Systems and ORVR vehicles	347
2000	EVR Amendments*	25
2001-2010	EVR Phase I and Phase II and ISD	
Post 2010	EVR Systems and ORVR Vehicles	372

\* Required as Part of the 1999 Settlement of a SIP Lawsuit 8

# History of EVR Upgrades

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## COMPLETED

March 2000 – EVR Program Approved

April 2005 – Phase I Deadline

March 2006 – ORVR Compatibility Deadline

## PENDING

April 2009 – EVR Phase II Deadline

Sept 2009 } In-Station Diagnostics Deadlines  
Sept 2010 }

# ORVR/EVR Upgrade Options

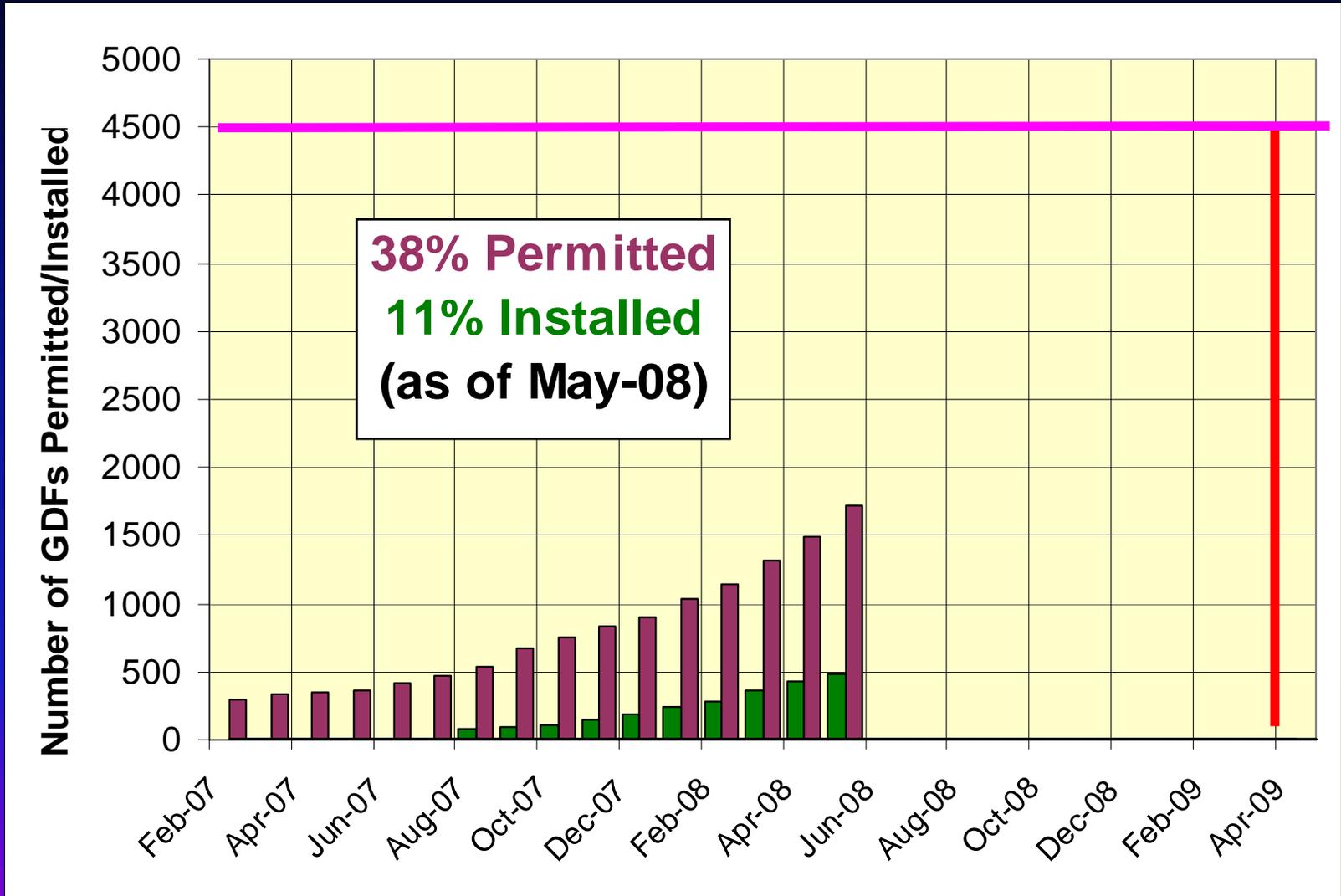
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- ORVR Compatibility deadline was extended to allow service stations to upgrade once to EVR Phase II system
- Most sites with non-ORVR compatible assist systems chose to go balance
- Approximately 90% of stations were pre-EVR balance after the ORVR compatibility upgrade

# Number of Stations Subject to Phase II EVR Upgrade by April 2009

Air District	Number of Stations	Percent	
South Coast	4500	39%	80%
Bay Area	2078	18%	
San Joaquin	1828	16%	
San Diego	843	7%	
8 districts	100 to 400	15%	20%
18 districts	< 100	5%	
	<b>11,678</b>	<b>100%</b>	

# EVR Phase II Implementation in SCAQMD



# Phase II Equipment Availability

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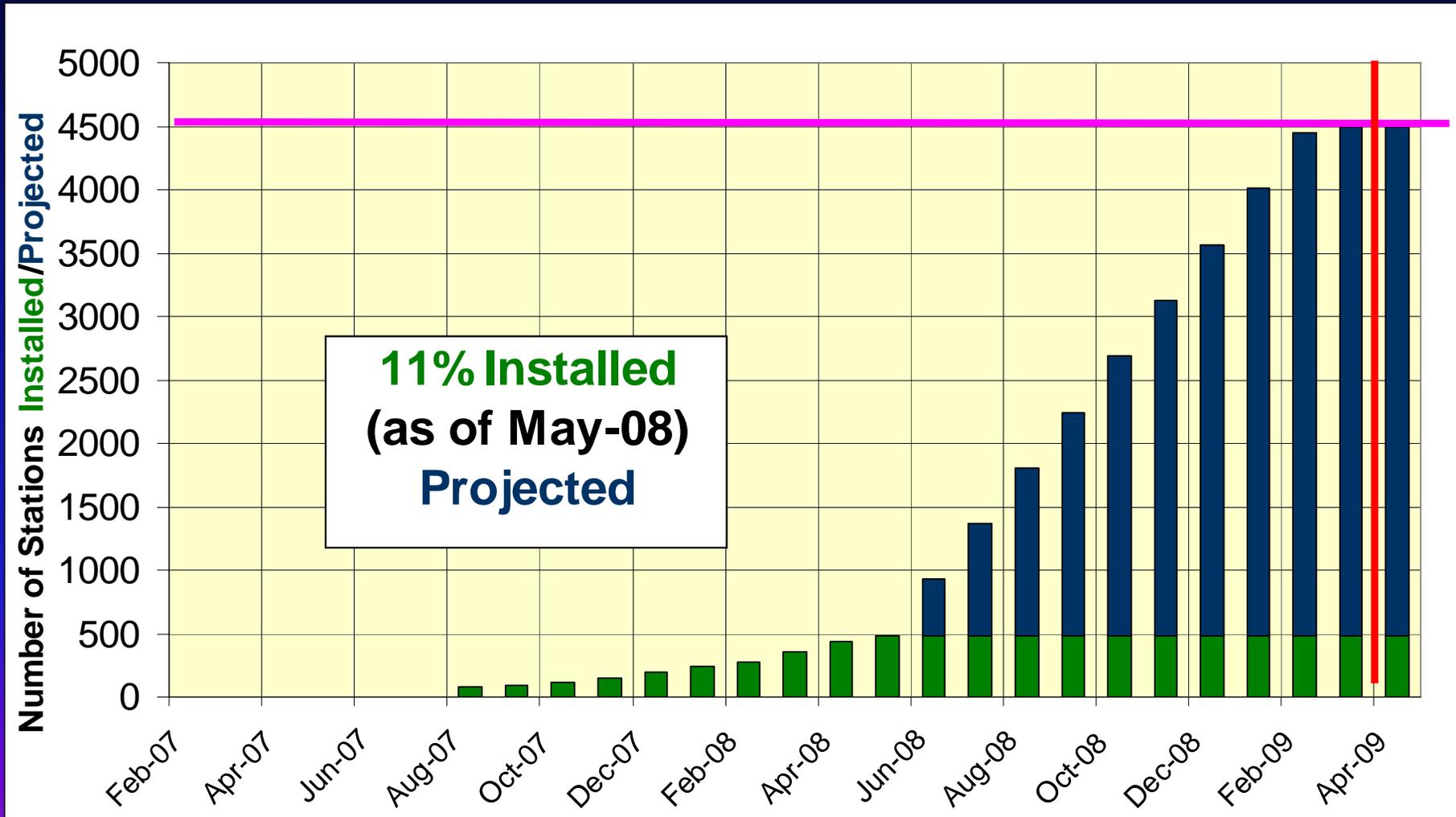
- Over 2000 systems in stock at manufacturers or local distributors
- Equipment now shipped by manufacturers within one week of order
- Current inventory and production rates will provide sufficient equipment over the next 9 months

# Contractor Availability

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	<b>Franklin/Healy</b> (Phase II – assist)	<b>VST</b> (Phase II - balance)
<b>Number of Certified Contractors</b> (individuals)	<b>1371</b>	<b>143</b>

# Projected EVR Phase II Implementation in SCAQMD



# Other Factors Affecting Timely Implementation

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- Waiting for additional EVR systems
  - Not until 4<sup>th</sup> quarter 2008 – at earliest
- Thinking there is still plenty of time
  - Permitting takes longer than expected
- Thinking the deadline will be extended
  - Equipment and contractors are available

# Early Permit Requirements

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- Sacramento Metro AQMD
  - waived fee if applied by April 1 2008 and installed EVR Phase II by Oct 1 2008
- San Diego APCD
  - Permit applications due October 1, 2008
- South Coast AQMD
  - Compliance plan due October 1, 2008

# Permitting

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- Local permit agencies include:
  - Air pollution control district
  - Fire
  - Environmental Health (CUPA)
  - Building
  - Planning
- Most of these agencies not involved in Phase I or ORVR compatibility upgrades

# EVR Outreach

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- Workshops and informational meetings hosted by ARB staff, air districts, CUPAs and equipment distributors
- EVR advisories and email listserve
- EVR color brochure
- Focus on outreach to planning agencies
- “evrhome” webpage

# Staff Report: Actions Planned Regarding EVR Implementation

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- Expand outreach to local planning agencies
- Continue monitoring EVR implementation progress
- Share EVR implementation status with stakeholders
- EVR status report to Board in October

# Comments from May 14th Meeting and ARB Response

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- Cost is financial hardship – stations will close  
Response: Outreach will include information on leasing and financing options, including RUST grant and loan program
- Not likely that all stations can complete upgrade in time  
Response: Resources available now. If necessary, districts have mechanisms to allow operation after deadline with penalties if good cause

# Comments from May 14th Meeting and ARB Response (cont)

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- EVR Phase II balance system with ISD certified only one year before deadline

Response: Both EVR Phase II systems can be used at sites with pre-EVR balance systems

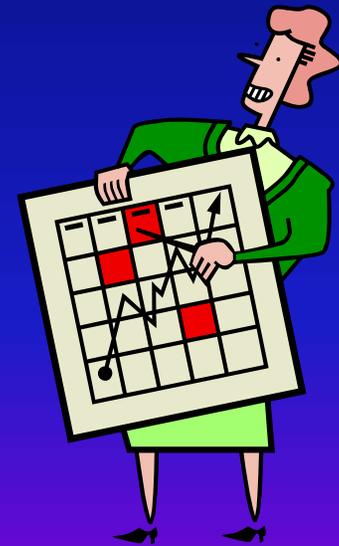
- Staff report ignores issues associated with EVR Phase II and ISD roll-out

Response: Staff developing ways to identify roll-out issues and resolve them

# Future Status Reports

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Second staff report  
document on EVR  
progress to Board in  
October 2008



# Summary

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- EVR program approved in 2000
- EVR Phase II systems available since 2005
- Over 1000 certified contractors available to conduct installations
- Equipment is in stock
- Enough time remains to meet deadline