

Enhanced Vapor Recovery (EVR) Implementation Update

June 26, 2008

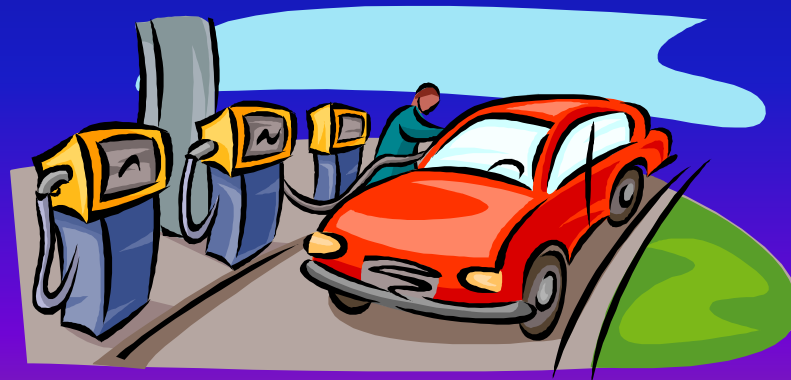
Sacramento

Monitoring and Laboratory
Division
Air Resources Board
Cal-EPA



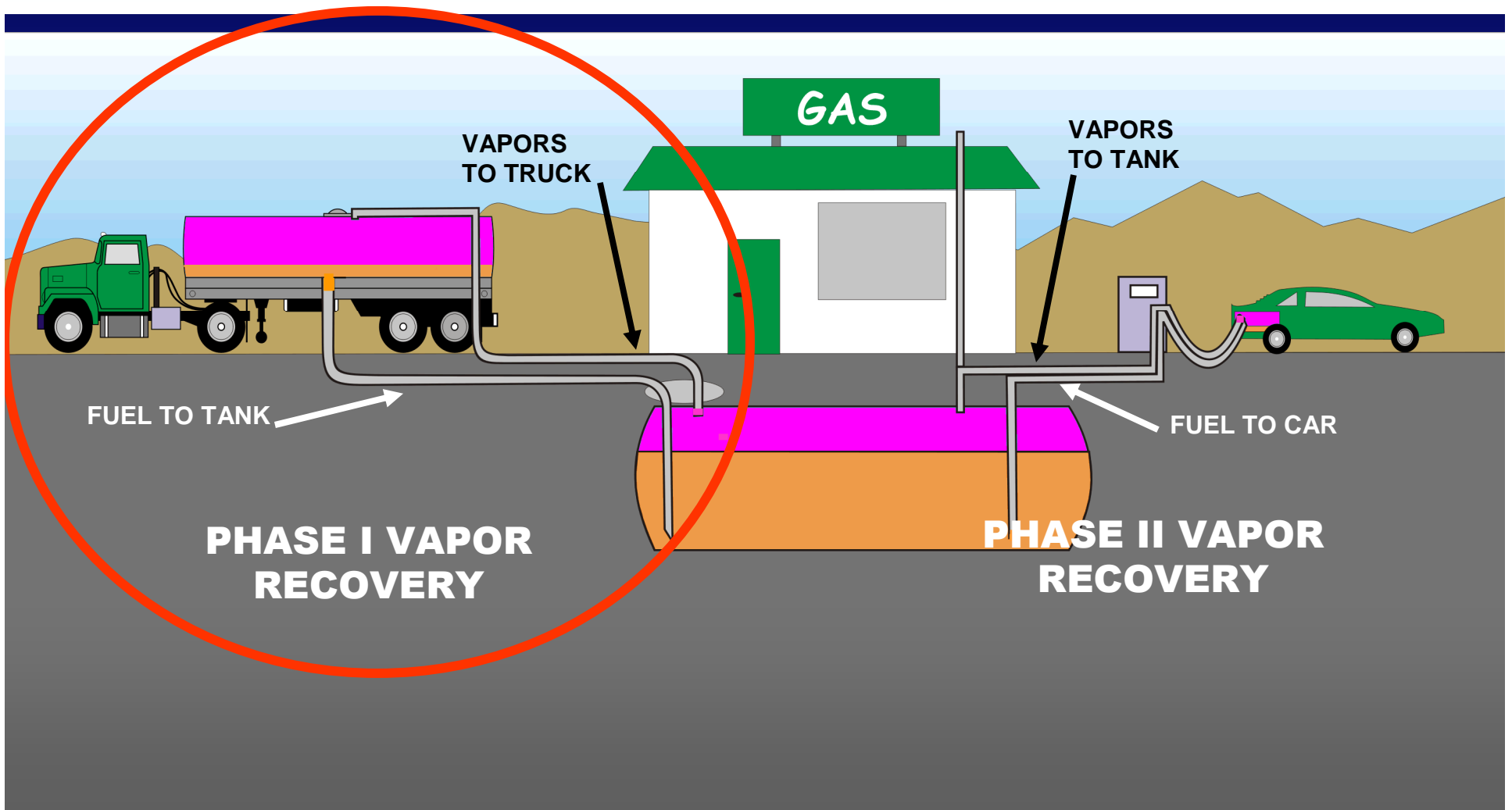
Agenda

- 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

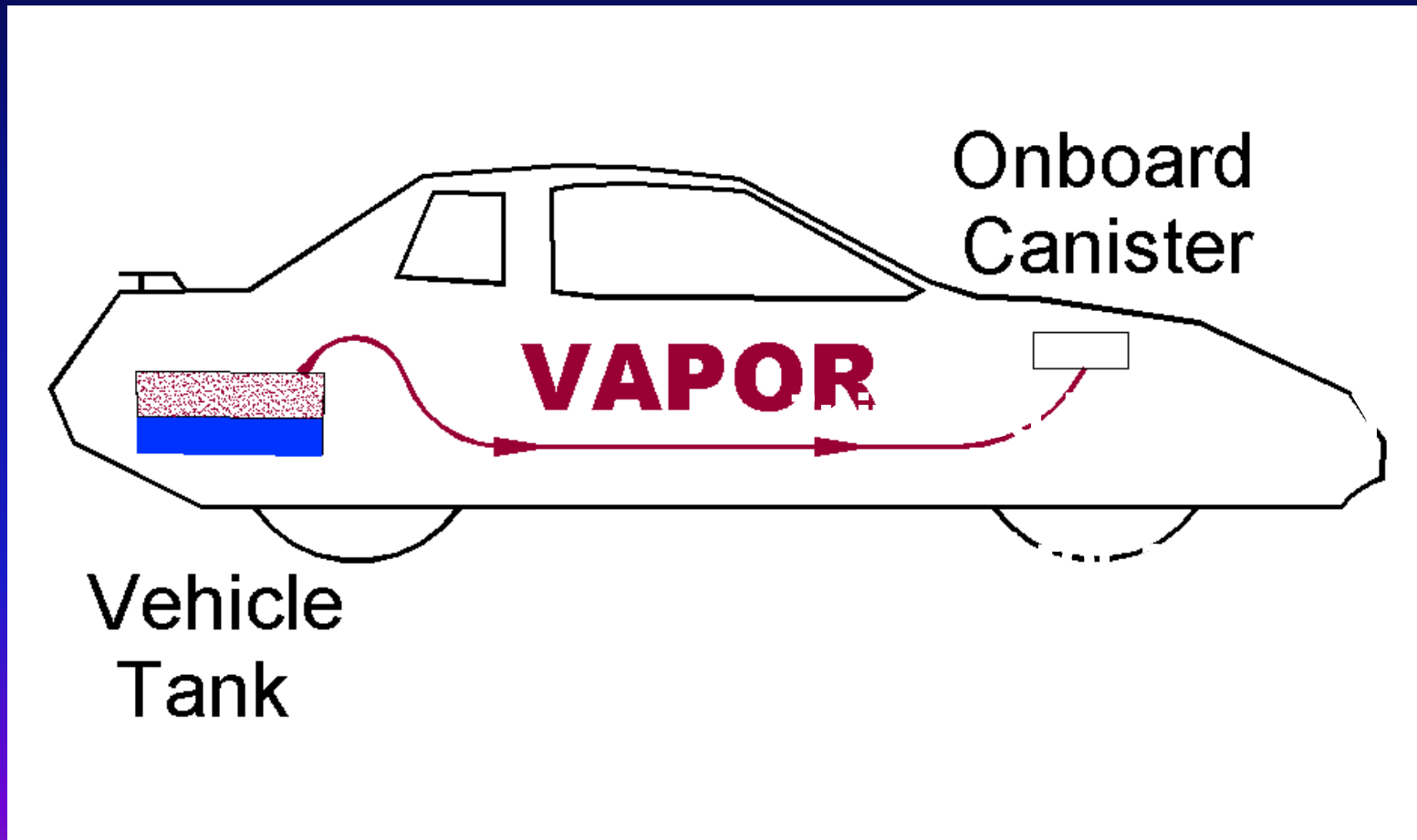
Balance

**Vapor
Pump**

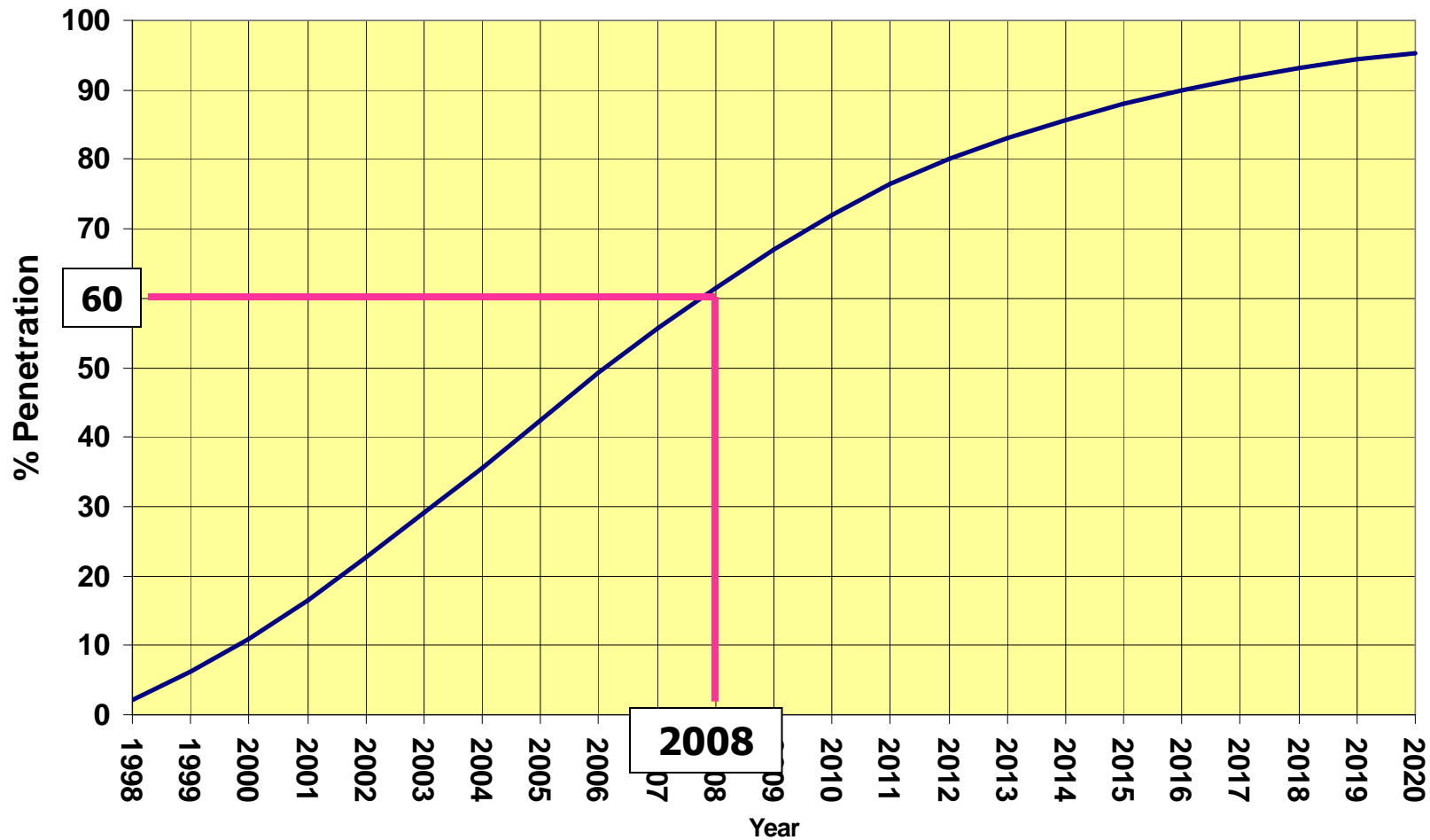


Assist

Onboard Refueling Vapor Recovery or "ORVR"



ORVR Penetration (VMT) (2008)



EVR Improvements

- 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

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 }

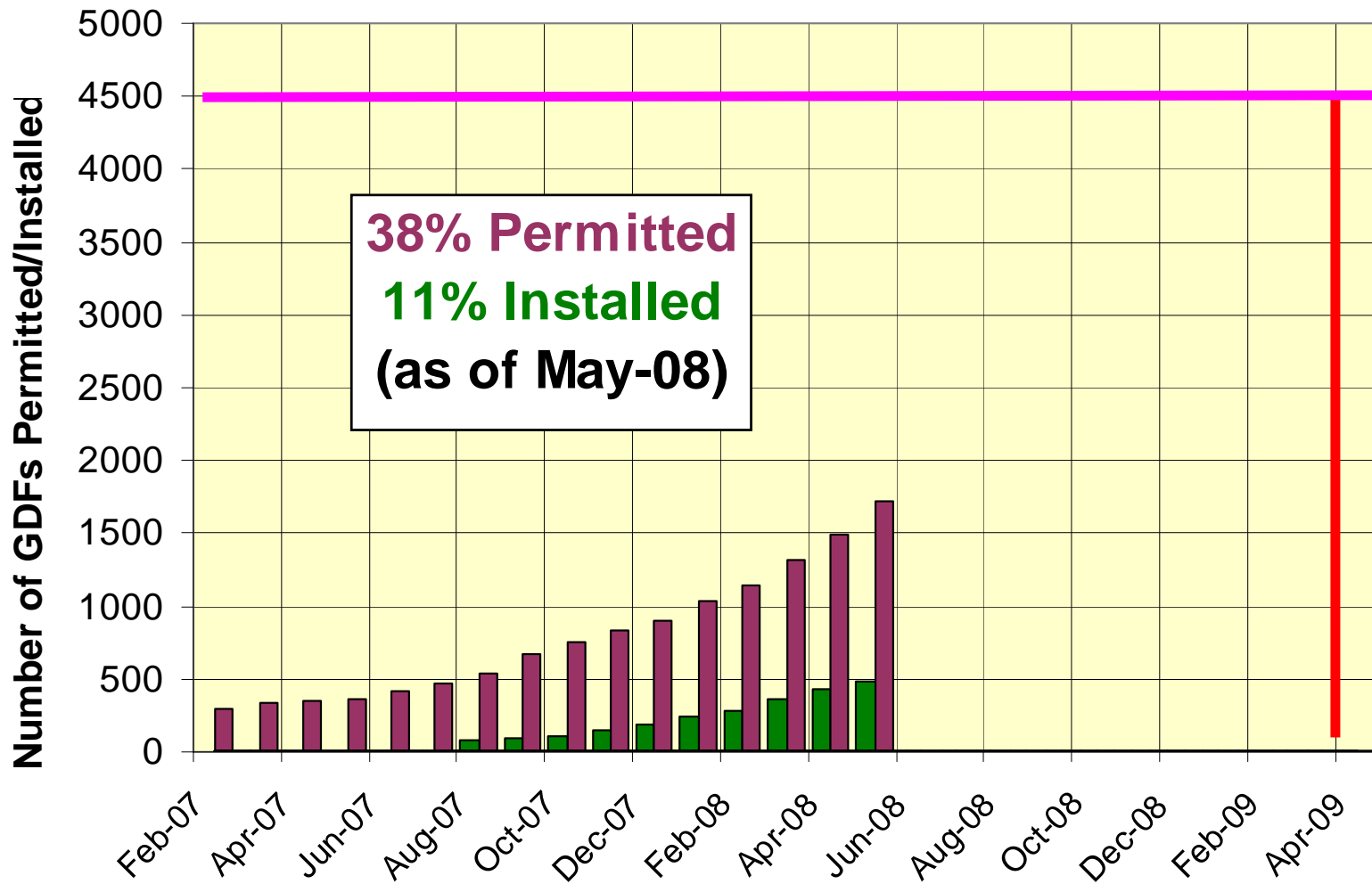
ORVR/EVR Upgrade Options

- 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%	
	11,678	100%	

EVR Phase II Implementation in SCAQMD



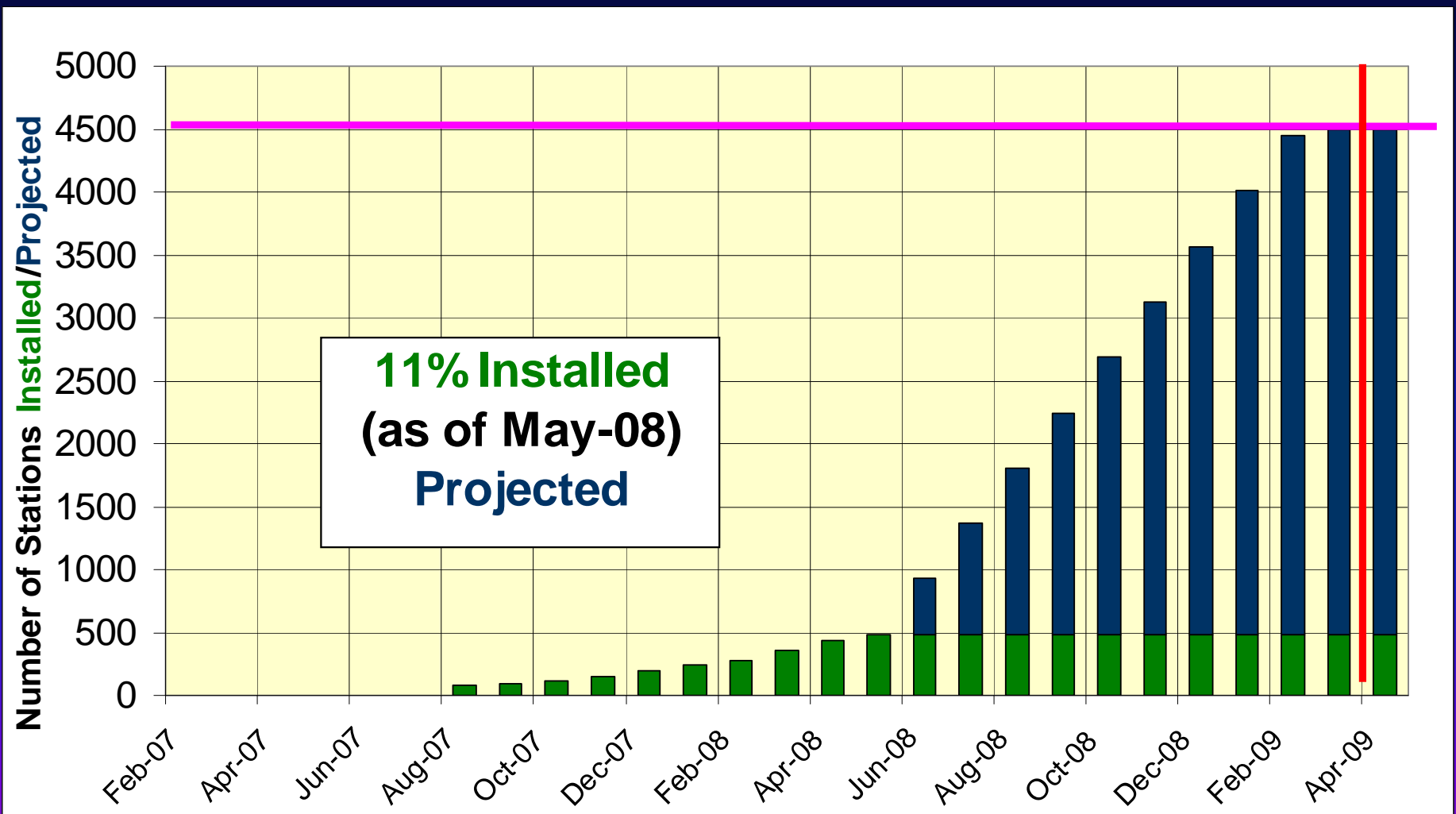
Phase II Equipment Availability

- 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

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

Projected EVR Phase II Implementation in SCAQMD



Other Factors Affecting Timely Implementation

- Waiting for additional EVR systems
 - Not until 4th 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

- 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

- 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

- 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

- 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

- 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)

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

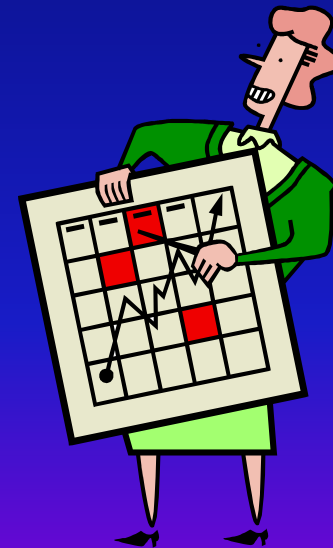
Response: Both EVR Phase II systems can be used at sites with pre-EVR balance systems

- 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

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



Summary

- 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