

November 19, 2009
SCAQMD
Diamond Bar, California

### Agenda Item #2 - Proposed Residential/Commercial Thresholds — Screening Values (Tier III)

- Staff GHG ST recommendation two options
- Lead agencies would select 1 of the 2 options:
  - ✓ GHG ST Option #1: By land use type
    - Residential: 3500 tpy CO2e
    - Commercial: 1400 tpy CO2e
    - Mixed use: 3000 tpy CO2e
  - ✓ GHG ST Option #2: Combined approach (all 3 land use types)
    - > 3000 tpy CO2e for all land use projects

### Agenda Item #2 — Proposed Residential/Commercial Thresholds — Screening Values (Tier III) (Concluded)

- OPR 2007-2008 database of 711 projects survey results:
  - ✓ GHG STs based on 90% emission capture rate
  - Project capture rate Option 1
    - Residential = 34 %
    - Commercial = 39%
    - Mixed use = 34%
  - ✓ Project capture rate Option 2 = 34%
- 17% (120 projects) more EIRs prepared (assumes no additional GHG mitigation measures)

## Agenda Item #3 — Proposed Performance Standards (Tier IV)

- Tier IV Compliance Option #1: Reduction Target (%)
  - ✓ Max % reduction (land use sector reduction-23.9%, Scoping Plan overall reduction-28%)
  - ✓ Target updated as AB32 Scoping Plan revised
  - Residual emissions not to exceed 25,000 mty CO2e
  - ✓ Base case scenario to be defined

#### BAAQMD Table 3 – 2020 Land Use Sector GHG Emission Reductions from State Regulations and AB 32 Measures

Affected Emissions Source	California Legislation	% Reduction from 2020 GHG inventory	End Use Sector (% of Bay Area LU Inventory)	Scaled % Emissions Reduction (credit)
Mobile	AB 1493 (Pavley)	19.7%	On road passenger/light truck transportation (45%)	8.9%
	LCFS	7.2%	On road passenger/light truck transportation (45%)	3.2%
	LCFS	7.2%	On road Heavy/Medium Duty Transportation (5%)	0.4%
	Heavy/Medium Duty Efficiency	2.9%	On road Heavy/Medium Duty Transportation (5%)	0.2%
	Passenger Vehicle Efficiency	2.8%	On road passenger/light truck transportation (45%)	1.3%
Area	Energy-Efficiency Measures	9.5%	Natural gas (Residential, 10%)	1.0%
	Energy-Efficiency Measures	9.5%	Natural gas (Residential, 10%)	1.0%
Indirect	Renewable Portfolio Standard	21.0%	Electricity (excluding cogen) (17%)	3.5%
	Energy-Efficiency Measures	15.7%	Electricity (26%)	4.0%
	Solar Roofs	1.5%	Electricity (excluding cogen) (17%)	0.2%
Total credits given to land use	23.9%			

Notes: AB = Assembly Bill; LCFS = Low Carbon Fuel Standard; SB = Senate Bill; RPS = Renewable Portfolio Standard

# Agenda Item #3 – Proposed Performance Standards (Tier IV) (Continued)

- Tier IV Compliance Option #2: Efficiency Target
  - √4.6 mt CO2e per SP\* for project level threshold (land use emissions only) & total residual emissions not to exceed 25,000 mty CO2e
  - √6.6 mt CO2e per SP for plan level threshold (all sectors)
- Sample calculations

\*sp (service population)= population+employment

### BAAQMD Table 7 – California 2020 GHG Emissions, Population Projections and GHG Efficiency Thresholds - All Inventory Sectors

All Inventory Sectors Greenhouse Gas Emissions Target	426,500,000
Population	44,135,923
Employment	20,194,661
California Service Population (Population + Employment)	64,330,584
AB 32 Goal GHG emissions (metric tons CO <sub>2</sub> e)/SP <sup>1</sup>	6.6

Notes: AB = Assembly Bill;  $CO_2e = carbon dioxide equivalent$ ; GHG = greenhouse gas; SP = service population.

<sup>&</sup>lt;sup>1</sup> Greenhouse gas efficiency levels were calculated using only the "land use-related" sectors of ARB's emissions inventory.

### Agenda Item #4 — Base Case Scenario

- Pre-defined to avoid gaming the system
  - √ Final project type
  - ✓ Final project location
  - Same projected future year inventory methodology and assumptions as the most recent AB32 Scoping Plan for estimating project emissions
  - ✓ Vehicle trips, trip lengths, and density
- Base case derived using land use emission calculation models with default emission rates (pre-AB32 Scoping Plan)

### Comparison Between SCAQMD & BAAQMD Proposed GHG STs (MTCO2e/yr)

	BAAQMD
30-yr amortization applied to operational ST	None recommended at this time
10,000	10,000
R = 3,500; C = 1,400; M = 3,000	
Or RCM = 3,000	RCM = 1,100
28%	None
4.6/SP/yr	4.6/SP/yr
6.6/SP/yr	6.6/SP/yr
25,000	None
	operational ST  10,000  R = 3,500; C = 1,400; M = 3,000  Or RCM = 3,000  28%  4.6/SP/yr 6.6/SP/yr

R = Residential; C = Commercial; M = Mixed Use; SP = Service Population (jobs + residents)

### Agenda Items #5, #6, & #7

- Other topics?
- Closing remarks
- Other business
- Next working group meeting scheduled for 12/17/09, 10:00 a.m.