Comments Deadline Extended Until January 15, 2019



Sustainable Communities Strategy Program & Evaluation Guidelines

Public Workshop (December 12, 2018)

Sierra Hearing Room

CalEPA Headquarters, 2nd Floor

1001 | Street, Sacramento, CA 95814

Satellite Locations:

Fresno Council of Governments Sequoia Conference Room 2035 Tulare Street, Suite 201 Fresno, CA 93721 Southern California Association of Governments Policy Room A 900 Wilshire Boulevard, Suite 1700 Los Angeles, CA 90017

Overview

- Goals of SB 375
- Roles & Responsibilities
- CARB Board Direction
- Purpose of Draft Release
- Need for Updating Guidelines
- Proposed SCS Program and Evaluation Framework
- Other Elements of Guidelines
- Next Steps
 CARB

Goals of SB 375

- Support the State's climate goals to reduce GHG emissions
- Require MPOs to prepare an Sustainable Communities Strategies (SCS) or Alternative Planning Strategy (APS) to reduce GHG emissions through coordinated land use & transportation planning



Source: Smart Growth America



Roles & Responsibilities Under SB 375 & SB 150

CARB

- Set regional GHG reduction targets
- Review MPO's technical methodology, provide comments on whether methodology is appropriate
- Review SCS & determine whether it would, if implemented, achieve target
- Monitor progress made by each MPO in meeting GHG emission reductions

MPO

- Develop an SCS or APS
- Submit the technical methodology to demonstrate the process of estimating GHG reductions from the SCS/APS
- Provide supporting data/information for the SCS/APS evaluation

Purpose of Draft Release and Workshop

- Guidelines can be found here: <u>https://ww2.arb.ca.gov/index.php/resources/docu</u> <u>ments/scs-evaluation-resources</u>
- Solicit public input from MPOs & affected stakeholders
- Please provide comments to CARB staff by January 4, 2019 via email at <u>SustainableCommunities@arb.ca.gov</u>



Need for Updating SCS Guidelines (1/2)

- Existing evaluation guidelines developed in 2011
- In 2011 SCSs uncharted territory thus original evaluation framework focused on modeling
- Ten years into program
 - staff have evaluated >20 SCSs
 - access to on-the-ground implementation data to understand how strategies reduce GHGs and address potential risks



Need for Updating SCS Guidelines (2/2)

- Updated regional GHG targets in March all MPOs have higher targets than originally set in 2010
- CARB Board direction to shift focus to SCS strategies and associated actions
- Need for clarification & methodological guidance



Progress of SB 375 SCS Evaluation Guidelines

Dec 2017 Board Meeting on GHG Targets Jan/Feb 2018 1st Public Workshops on SCS Guidelines

March 2018 Board Meeting to consider SB 375 Targets June 2018 2nd Public Workshops on SCS Guidelines Dec 2018 Workshop on Draft SCS Guidelines





Tracking Implementation (Reporting Element):

Report on the progress regions have made towards meeting their SB 375 GHG reduction targets (i.e. SB 150 reporting)_____



Policy commitments (Determination Element): Learned Determine whether the strategies and commitments would achieve the GHG reduction targets, if implemented, and whether there are any risks to not achieving those reductions



Incremental Progress (Reporting Element): Report on whether an MPO's proposed SCS has more or improved strategies than the currently adopted SCS



Equity (Reporting Element):

Report on the efforts MPOs are taking to meet federal and state requirements related to equity

Lessons

Tracking Implementation (Reporting Element)



- Report on the progress regions have made towards meeting their SB 375 GHG reduction targets
- Key Questions: Is the region following through on its strategy commitments from the previous SCSs? Is the region meeting, or on track to meet, its targets? What barriers exist?
- Report comparison of observed data with projections provided by MPOs from the previous SCS



Tracking Implementation

HAVE GREENHOUSE GASES FROM PERSONAL VEHICLE	HOW HAS HOUSING SUPPLY CHANGED?			
TRAVEL DECLINED?	NEW HOMES BUILT BY TYPE			
GREENHOUSE GAS EMISSIONS PER CAPITA	VACANCY RATE			
PASSENGER VEHICLE MILES TRAVELED (VMT) PER CAPITA	JOBS-HOUSING BALANCE			
	HOW ARE LOCAL JURISDICTIONS PLANNING AND PERMITTING HOME CONSTRUCTION?			
HOW HAVE TRAVEL PATTERNS CHANGED?				
COMMUTE MODE SHARE	PERCENT OF JURISDICTIONS WITH A CERTIFIED			
COMMUTE TRIP TRAVEL TIME BY MODE	HOUSING ELEMENT			
TRANSIT RIDERSHIP PER CAPITA	HOUSING UNITS PERMITTED COMPARED TO HOUSING			
WHAT TRANSPORTATION CHOICES ARE AVAILABLE?	NEEDS ALLOCATION			
TRANSIT SERVICE HOURS PER CAPITA	IS GROWTH MORE COMPACT? ACRES DEVELOPED AGRICULTURAL LAND LOST			
LANE MILES BUILT				
				ARE INVESTMENTS SHIFTING TOWARD MORE SUSTAINABLE
TRANSPORTATION CHOICES?	ARE WE BUILDING NEIGHBORHOODS THAT ARE			
CHANGE IN LONG-TERM SPENDING PLANS BY MODE	ACCESSIBLE TO DAILY NEEDS?			
CHANGE IN SHORT-TERM SPENDING PLANS BY MODE	PERCENTAGE OF POPULATION LIVING NEAR A			
	GROCERY STORE			

CARB

CHANGE IN TRANSIT OPERATIONS SPENDING

Example of Tracking Implementation



Data Source: Monthly Module Adjusted Data Release, National Transit Database

Policy Commitments (Determination Element)



- Assess whether the strategies and commitments support the stated GHG reductions, and whether there are any risks to not achieving those reductions
- Key Elements: 1) Trend Analysis, 2) Elasticity Analysis, 3) Policy Analysis, 4) Investment Analysis and 5) Plan Adjustment Analysis



1. Trend Analysis

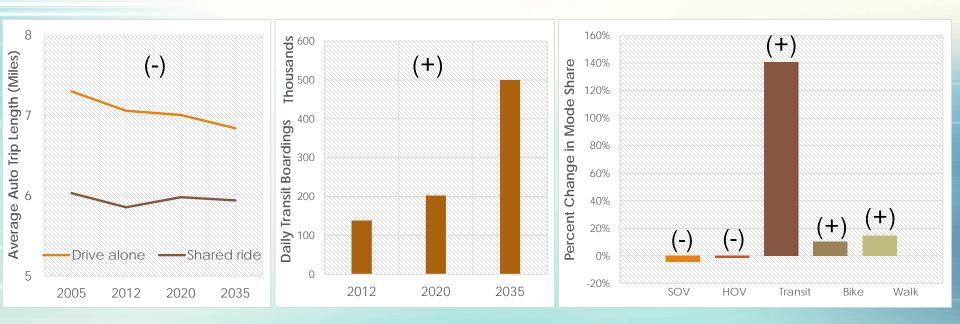
- Key Question: Do the data show that the plan is moving a direction consistent with the planned outcomes, including the planned regional GHG reductions?
- Screening Criteria: Performance indicator should track the directionality (see noted + or –)

- Performance Indicators
- Household vehicle ownership (-)
- Mode split (non-auto: +, auto: -)
- Travel time by mode (non-auto: -)
- Transit ridership (+)
- Average trip length (-)
- Seat utilization (+)
- Household VMT/capita (externalexternal [XX] trips excluded) (-)
- GHG/capita (-)



Performance Indicators

Examples of Plan Trend Analysis



Reduced Auto Trip Length

Increased Transit Ridership

Mode Shift Result in Less VMT



2. Elasticity Analysis

- Key Question: Does the scientific literature support the stated GHG emissions reductions?
- Serves as check on the MPO's reported VMT & GHG results, based on existing literature and the MPO's sensitivity test results
- Screening Criteria: analysis should account for at least for 85% of reported plan performance (including exogenous variables & strategies)



Example of Elasticity Analysis

Model Strategies	% Δ Plan Attribute from 2005-2035	Elasticity	Effect size	%	
Net Residential Density	25%	-0.05	100% regional average		
Increased Transit Frequency	40%	-0.8	15% regional coverage; 4% mode share		
Transit Capacity Expansion	15%	-0.7	30% regional coverage	-6.12%	
Bike and Pedestrian Infrastructure	30%	-0.04	40% regional coverage		
Roadway Capacity	5%	+0.6	25% new population growth		
Exogenous Variables					
Auto Operating Cost	40%	-0.15	100% regional coverage	9.1%	
Household Income	-15%	-0.11	100% regional coverage	-7.170	
Off-Model Strategies					
EV Charging Infrastrucutre				-3.50%	
Grand Total				-18.7%	
Plan Performance				-19%	
Screening Criteria: within no less than 85% of reported plan performance					
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3. Policy Analysis

- Key Question: Are there supportive key actions for the SCS strategies?
- Evaluate relationship between the stated GHG emission reductions in the SCS & relevant MPO actions
- Example: MPO incentivizing subsidizing ride-sharing, which supports SCS transportation strategy



4. Investment Analysis

- Key Question: Do the investments support the stated GHG emissions reductions?
- Evaluate whether planned expenditures support the GHG reductions
- Also, compare the region's long-range funding strategy to the region's shorter-term TIP



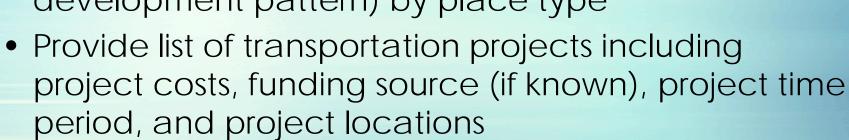
5. Plan Adjustment Analysis

- Key Question: If the region is falling behind on implementation, what measures are the MPO taking to correct course in the plan, as necessary, to meet the target?
- Based on implementation assessment, if SCS plan performance benchmarks are falling short, CARB will look for evidence that the MPO has considered this information, and if applicable, made course corrections to planning

Data for Policy Commitments Analyses

Type of data MPOs should submit:

- Land use & transportation attributes
- Land use allocations (forecasted development pattern) by place type



Strategy-based performance indicators



Increment of Progress (Reporting Element)



- Report on whether an MPO's proposed SCS has more or enhanced strategies than the currently adopted SCS (if applicable)
- Key Questions: What strategies have changed or been added since the last SCS? What is the increment of progress achieved through the strategies in this SCS as compared to the last SCS?



Example of Incremental Progress



Equity Analysis (Reporting Element)

- Report on the efforts MPOs are taking to meet federal & state requirements related to equity
- Key Questions: How have vulnerable communities been identified? What qualitative and quantitative equity analyses are conducted? How have stakeholders in vulnerable communities been engaged?



CARB's Overall Program Evaluation

- Determination based on:
 - MPO GHG quantification
 - Outcomes of five Policy
 Commitment analyses
- Separate reporting on Implementation, Incremental Progress & Equity

If any Policy Commitment analysis screening criteria are not met, CARB staff will look to the MPO to provide supporting information to explain the outcome. If there is insufficient evidence to explain or overcome a deficiency in any of the assessments, this could be grounds for CARB staff to reject an MPO's determination.



Other SCS Guideline Elements

- Off-Model Strategy Guidance
- Auto Operating Cost
- Inter-regional Travel
- EMFAC Adjustment



Off-Model Strategy Guidance



- Bicycle and Pedestrian Facility Enhancement
- Bike Share
- Car Sharing
- Electric Vehicle Charging Infrastructure



ELECTRIC

Parking Management



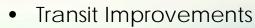
VAN

POOL

PARKING

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Telecommuting/Work-At-Home



- Transportation System
 Management (TSM)/Intelligent
 Transportation Systems (ITS)
- Vanpool
- Electric Vehicle Incentive



Next Steps

Event	Date		
Close of Comments	January 4, 2019		
Release Final SCS Program & Evaluation Guidelines	February, 2019		



Please provide comments on the draft Guidelines to CARB staff by January 4, 2019 via email at <u>SustainableCommunities@arb.ca.gov</u>.

Thank you Questions/Comments?

