

CLIMATE ACTION TEAM
Land Use & Infrastructure Working Group

Near-Term Implementation Plan
Strategy # 4: SB375: Regional Transportation-Related
Greenhouse Gas Targets

Working Group Overview: The Land Use and Infrastructure Working Group provides advice to the Strategic Growth Counsel (SGC) and the Climate Action Team (CAT) on sustainable land use policies and their link to climate change adaptation and mitigation. The group also works to coordinate state efforts at the interface of land use and climate change and ensure that various planning efforts (housing and development, transportation, public health, etc.) address the linkages between mitigation measures and adaptation strategies .

Working Group Agencies: The group includes staff from state agencies with expertise in and authority over issues related to energy, transportation, housing, environmental protection, agriculture, water supplies and wildlife preservation.

Participants include Cal/EPA, the Office of Planning and Research, Air Resources Board, California Energy Commission, Department of Food and Agriculture, Natural Resources Agency, CalTrans, Business-Transportation and Housing, Department of Water Resources, Department of Housing and Community Development, Department of Public Health, Dept of Toxics Substance Control, Water Resources Control Board, Department of Conservation, Department of Fish & Game, CalFire, and the Department of General Services.

Measure/Strategy: SB375: Regional Transportation-Related Greenhouse Gas Targets

- A) Description: Statute requires ARB to set passenger vehicle GHG emission reduction targets by September 2010. Staff is currently evaluating numerous approaches to develop this target, this exercise is occurring in conjunction with MPO data gathering and scenario development efforts. Draft regional targets are scheduled to be released in June.
- B) Agencies Involved: ARB will be the only agency directly involved in target setting, but SB 375 implementation is a team effort that requires input from ARB, Caltrans, CEC, DPH, HCD, and OPR.
- C) Scoping Plan/Adaptation Plan Reference: This measure was identified as T-3 within the AB 32 Scoping Plan.
- D) Metrics: The metric of the target will be determined at the same time the targets are set.
- E) Cross-cutting Issues: To be determined upon further task input.

F) Tasks and Deliverables ;

Task 4.1 – CAS Comprehensive Strategy

1. Description: Improve state and local capacity to plan for and deal with climate change impacts and generally promote the concept and practice of sustainable communities
2. Deliverables: Sustainable Communities Planning Grant and Incentives Program, Urban Greening Grant Program (Planning and Projects), other programs as developed by the SGC.
3. Agency Roles: Strategic Growth Council will be lead, represented by key staff from NRA, HHS, EPA, OPR and BTH. Department of Conservation and NRA are lead agencies on the respective grant programs under the SGC
4. Timeline: First round of Planning and Urban Greening Grant funding determined by October 2010.
5. Crosscutting Issues: SGC by design deals exclusively with cross-cutting issues

Task 4.2 – Regional Transportation Plan Guidelines Update

1. Description: Regional Transportation Plan (RTP) Guidelines.
2. Deliverables: The RTP Guidelines provide guidance and direction for 18 Metropolitan Planning Organizations (MPOs) and 26 Regional Transportation Planning Agencies (RTPAs) allowing for RTPs that are consistent with current federal and state transportation planning requirements.
3. Agency Roles: Caltrans (as staff for the California Transportation Commission) updates and distributes the RTP Guidelines reflecting current federal and state transportation planning requirements.
4. Timeline: RTP Guidelines are updated as appropriate when changes to federal or state planning requirements occur.
5. Crosscutting Issues: Numerous stakeholders at the federal, state and local level are interested in various aspects of the RTP Guidelines as they relate to transportation planning, land use, affordable housing, jobs/housing balance, economic development, safety, security, air quality, greenhouse gas emissions, natural resources, environmental protection and conservation, social equity and smart growth. The RTP Guidelines allow these issues to be addressed as appropriate within each MPO or RTPA region within their RTP.

Task 4.3 – Local Government Operations Protocol

1. Description: Adopted by ARB in September 2008 the Protocol is designed to assist local governments in developing emissions inventories for their municipal operations.
2. Deliverables: Version 1.1 was recently released, this update made minor technical changes to the Protocol and updated the Protocol's emissions factors. Staff anticipates that moving forward the Protocols emissions factors will be update annually.
3. Agency Role: ARB manages the Protocol on its website and provides technical assistance to local governments.
4. Timeline: Version 1.1 was recently released and should be accessible on ARB's website shortly.
5. Crosscutting Issues: No cross-cutting issues are identifiable at this time.

Task 4.4 – Greenhouse Gas Protocols for the Built Environment

1. Description: This project will to review current GHG assessment activities and produce specific recommended protocols for GHG assessment procedures for built environments. This information will provide the foundation for the development of GHG assessment protocols. This high-level goal will be achieved through technical working groups addressing three high-priority built environments: single buildings, land use, and infrastructure. CTG Energetics, Inc. (CTG) will convene, organize, and facilitate the technical working groups composed of a diverse set of professionals drawn from the "front lines" of efforts to understand and quantify energy use and emissions.
2. Deliverables: Recommended protocols for assessing and quantifying greenhouse gas emissions associated with the built environment.
3. Agency Role: The Energy Commission is managing the contract agreement with CTG Energetics.
4. Timeline: This project is currently underway. A critical project review is scheduled for May 20 to determine if this project should continue to move forward.
5. Crosscutting Issues: No cross-cutting issues are identifiable at this time.

Task 4.5 – Assess New Transportation and Urban Development Patterns in a Climate-Constrained Future

1. Description: This project will identify the magnitude of impacts resulting from integrated land use and transportation strategies under both short-and long-term conditions likely to shape California growth. State-of-the-art planning tools and methods will be used to examine modal estimations for major metro California regions for the combined fuel-savings potential of land-use and transportation measures. This project will differentiate policy options that would allow state and local agencies to more effectively and expeditiously pursue land-use strategies to further reduce vehicle miles traveled and greenhouse gas emissions. This project will also analyze alternatives for integrating improved land use and modal shift components into the California Energy Commission’s transportation/fuel demand models.
2. Deliverables: The deliverables from this project include five working reports and one final report. The first two working reports are expected to be completed by 2010:
 - Transportation Energy Savings Working Paper on transportation energy savings from 1990 to present and connections to urban development processes. This working paper will identify and provide an assessment of policy options that would allow, incentivize, or otherwise induce state and local agencies to pursue land-use strategies to further reduce vehicle use, taking into account current and likely future urban development and urban transportation options.
 - Exogenous Forces and Public Policy Working Paper assessing how changes in key exogenous forces and public policy may shape or reshape opportunities to save energy in transportation, with a discussion of methods for forecasting, tracking, and evaluating performance. This working paper will identify in order of importance key trends and drivers affecting past policies that reduced vehicle energy use. The paper will identify which exogenous conditions affecting future urban development and urban transportation options may strengthen or weaken further energy savings.
3. Agency Role: The Energy Commission is managing the agreement with the UC Berkeley Global Metropolitan Center.
4. Timeline: The first two working papers are expected to be finished by Summer 2010.
5. Crosscutting Issues: No cross-cutting issues are identifiable at this time.

Task 4.6 – The California Energy Commission/San Diego Association of Governments “Energy Partnership Program”

1. Description: The California Energy Commission(CEC)/California Center for Sustainable Energy (CCSE)/San Diego Gas and Electric (SDG&E)/San Diego Association of Governments (SANDAG) “Energy Partnership Program” was created to develop and disseminate model planning and development tools and strategies as transferable materials for use by Metropolitan Planning Organizations (MPOs) and Council of Governments (COGs) that wish to incorporate land use, transportation, climate change, and energy considerations into their planning efforts.
2. Deliverables:
 - **Sustainable Region Program Action Plan and Toolkit** – The SRP Action Plan identifies key program elements that other regions can use to develop similar regional energy saving program to assist local governments. The SRP Toolkit provides specific actions, templates, and strategies regional and local governments can take in developing energy saving opportunities, implementation measures, incorporating state policy priorities, evaluating financing solutions, and resource availability.
 - **Alternative Transportation Fuels and Vehicles Program Study** - Report for local governments and regional stakeholders to increase penetration of alternative fuel vehicles and infrastructure in the San Diego region. Report includes an analysis of alternative fuels and vehicles, infrastructure issues, regional, state and national fuel supply, model infrastructure siting analysis criteria, and financing models.
 - **Regional Energy Strategy Update** – Report includes goals and actions for topics such as energy efficiency, distributed generation, transportation energy, electricity demand, land use, and zoning as well as a “How-to Guide” for a model regional energy plan. The “How-to-Guide” includes descriptions of how local or regional governance entities can approach energy plan development and the appropriate background, research areas, stakeholders, and the public input process.
 - **Regional Climate Action Strategy** – Report includes trends analysis, climate change drivers, public policy, goals and objectives, mitigation and adaptation measures for transportation and land use, electricity supply and use, community design, and other performance indicators as well as a “How-to-Guide” for model regional climate plan. The “How-to-Guide” lays out how SANDAG approached climate change mitigation in transportation and land use planning and lessons learned.
3. Agency Roles: The Energy Commission will provide links to other state agency websites (CARB) and will actively promote reports and tool kits to local and regional governments, COGs and MPOs throughout the state.
4. Timeline: Documents are complete and available on the California Energy Commission and SANDAG websites.

5. Crosscutting Issues: Provides transferable materials for use by state, regional and local governments that wish to incorporate land use, transportation, climate change, and energy considerations into their planning efforts.

Task 4.7 – Regional, Transportation-Related Greenhouse Gas (GHG) Targets

1. Description: The RHNA process is administered by HCD for use in updating the housing elements of local general plans. The RHNA and RTP are required by statute to be more closely integrated, such that the RHNA is consistent with the Sustainable Communities Strategy (SCS) of the RTPs of MPOs and that the SCS addresses the housing need of the region. The guidance will address the parameters of the RHNA relative to the SCS.
2. Deliverables: The final product will be a guidance document for councils of governments (COGs) and interested parties.
3. Agency Roles: HCD will lead and coordinate with Caltrans and ARB including with Caltrans for the noticing provisions required of MPOs regarding their RTP update schedule, and with ARB regarding the schedule for HCD final review of the RHNA plans by MPOs.
4. Timeline: All timelines subject to availability of resources. June 2011-November 2011:
 - Develop work plan, detailed timeline and potential participants for Working Group.
 - Prepare guidance on recommendations: November 2012
5. Crosscutting Issues: Where needed and appropriate HCD will ensure appropriate staff within Caltrans, CARB, OPR, the Energy Commission, Public Health, and Natural Resources will be consulted and kept apprised of the effort. HCD will also engage the MPOs in development

Task 4.8: Land Use Technical Assistance through housing element updates and implementation

1. Description: Update and expand technical assistance materials and outreach efforts for local governments to include climate change and greenhouse gas emission reduction objectives in the update of their housing elements. This will include identification of new land use strategies that address both housing supply and affordability (density, infill, energy conservation in construction, retrofits and design) and reductions in GHG emissions.
2. Deliverables: Update of existing web-based housing element technical assistance materials to facilitate compliance with state housing element law and achieve GHG emission reductions.

Preparation of new resource materials (sample or model programs and land use programs, powerpoint presentations, fact sheets, speakers bureau talking points) identifying housing strategies that also assists in reducing GHG emissions and promote sustainable development and communities.

Preparation of a clearinghouse of housing related planning and land use strategies that promote energy conservation and reduction in GHG and VMT.

Other materials as appropriate.

3. Agency Roles: HCD will lead and seek support and/or consultation from OPR, CARB, Energy Commission, Caltrans, CalEPA, California Natural Resource Agency, and Public Health
4. Timeline: All timelines subject to availability of resources.
December 2011: Update existing technical assistance materials to incorporate GHG reduction strategies and focus. Identify priorities for deliverables noted above and establish schedule to complete over the following 2 – 3 years.
5. Crosscutting Issues: Where needed and appropriate HCD will ensure appropriate staff within agencies listed above (and others as appropriate) are consulted and kept apprised of the effort.

Task 4.9: Affordable Housing Finance Incentives

1. Description: Promote GHG emission reductions and energy conservation objectives in HCD Administered funding programs. Evaluate how existing funding programs could provide competitive advantage to housing and community development projects that incorporate design and land use changes to achieve GHG emission reductions.
2. Deliverables: Identify which existing funding programs it may be appropriate to consider rewarding applicants for strategies or components that reduce GHG emissions and promote energy conservation.

Identify how to modify existing program requirements to reward GHG emission reduction and energy conservation without undermining affordable housing objectives or feasibility.

Determine which programs require regulatory or statutory changes to incorporate new standards.

Implement identified program changes, as appropriate.

3. Agency Roles: HCD will lead and seek support and/or consultation from CalHFA, CTCAC, CDLAC, CARB, Energy Commission, CalEPA, and Public Health
4. Timeline: All timelines subject to availability of resources.
 - July 2011-July 2012:
 - Convene a team of program users and applicants to provide advice on any effort to revise program requirements. Identify which programs are appropriate to consider for revision.
 - July 2012-July 2013:
 - Working with team of program users and GHG and Energy Conservation experts, identify how identified programs could be modified to further GHG and Energy objectives. Consult stakeholders and hold workshops on any proposed program revisions. Identify next steps for implementing program changes (potentially could include regulatory or legislative changes)
 - August 2013 forward:
 - Implement proposed changes. Timing on this action less critical as most of HCD housing funding programs will be depleted by the end of 2010. This effort is designed to amend programs in anticipation of additional future funding.
6. Crosscutting Issues: Where needed and appropriate HCD will ensure appropriate staff within agencies listed above (and others as appropriate) are consulted and kept apprised of the effort.

Task 4.10: Catalyst Projects for California Sustainable Strategies Pilot Program

1. Description: The Pilot Program will select 6 development projects in communities throughout California to incentivize sustainable communities and test innovative strategies to increase housing supply and affordability, improve jobs and housing relationships, enhance transportation modal choices, promote public health, reduce greenhouse gas emissions, and increase energy conservation and independence. Pilot projects will test strategies to inform MPO development of sustainable community strategies for SB 375. The pilot program has a goal to identify one project in each of the major MPO regions and the San Joaquin Valley.

Applicants for the Catalyst Program must be local governments. After selecting the Catalyst Projects, teams of state agency representatives will provide targeted technical assistance and work with the local governments to promote the sustainable objectives and on how to most effectively measure the success of the various strategies. In addition, HCD, Caltrans, Department of Conservation and CalRecycling have identified specific funding or assistance to be targeted to Catalyst Projects.

2. Deliverables: The Catalyst Project Program will provide living laboratories to test the effectiveness of various land use, transportation and housing strategies to increase housing supply and affordability, improve jobs and housing relationships,

enhance transportation modal choices, promote public health, reduce greenhouse gas emissions and increase energy conservation and independence.

At least 3 Progress and Evaluation Reports will be prepared during the award period. The Reports will evaluate the effectiveness of various strategies; identify gaps in research and resources, and propose recommendations to promote the most effective strategies.

Model strategies will be developed to promote the most effective sustainable strategies. Models will be distributed via the web and in cooperation with the MPOs.

3. Agency Roles: HCD will lead in cooperation with Caltrans and Department of Conservation and with participation of CalHFA, I-Bank; Departments of Parks and Recreation, Public Health, Forestry and Fire Protection, CARB, Energy Commission, and CalEPA.

4. Timeline: All timelines subject to availability of resources.
July 2010: Interagency review teams made up of multiple state agencies and a MPO representative will recommend the 6 Catalyst Projects.

July-September 2010: Team of Directors, led by HCD Director will make final selection of Catalyst Projects.

September – December 2010: Develop contracts and/or MOUs.

January 2011-December 2016: Program implementation and review.

At least 3 progress reports will be prepared during implementation along with a final evaluation and recommendation report. Early reports will be designed to inform MPO's about strategies appropriate for consideration in their Sustainable Communities Strategy required pursuant to SB 375.

5. Crosscutting Issues: Where needed and appropriate HCD will ensure appropriate staff within agencies listed above (and others as appropriate) are consulted and participate in the Program.

Task 4.11 – Brownfield In-Fill

1. Description: DTSC will prioritize and expedite "Brownfield" in-fill projects to mitigate urban and sub-urban sprawl and the associated transportation-related GHG emissions.
2. Deliverables:
 - Memo to DTSC staff project managers who may be involved with regulatory oversight of cleanup actions at future Brownfield sites states

- Training materials or additional training components for use by cleanup project managers.
3. Agency Roles: In discussions with Potential Responsible Parties and other stakeholders regarding cleanup of Brownfield sites, DTSC cleanup project managers will encourage consideration of in-fill projects during discussion of site reuse options and will describe the regulatory implications associated with each option (variations in the clean-up level that may be necessary to protect human health and the environment, e.g. residential, industrial; possible need for land-use covenants or other administrative controls; etc.).
 4. Timeline: To be determined.
 5. Crosscutting Issues: DTSC's regulatory authority does not extend to selection of reuse options, only on the cleanup requirements that are necessary to permit any specific type of reuse following completion of the cleanup. DTSC's role is, therefore, limited.

Task 4.12 – Brownfield Labor

1. Description: DTSC will encourage use of local labor at Brownfield development projects to reduce worker transport-related GHG emissions.
2. Deliverables:
 - Memo to DTSC staff project managers who may be involved with regulatory oversight of cleanup actions at future Brownfield sites states
 - Training materials or additional training components for use by cleanup project managers.
3. Agency Roles: In discussions with Potential Responsible Parties and other stakeholders regarding cleanup of Brownfield sites, DTSC cleanup project managers will encourage the Responsible Parties to utilize local contractors or employ local labor during all phases of cleanup work, including site characterization, construction, treatment system operation and maintenance and monitoring.
4. Timeline: To be determined.
5. Crosscutting Issues: DTSC's regulatory authority does not extend to selection of reuse options, only on the cleanup requirements that are necessary to permit any specific type of reuse following completion of the cleanup. DTSC's role is, therefore, limited.

SUMMARY TABLE

Deliverable	Agencies	Deadline
Regional Transportation Plan Guidelines	CTC & Caltrans	Currently Available on CTC Website
Local Government Operations Protocol Version 1.1 Release	ARB	Released, soon available on ARB Website
Recommended GHG Quantification protocols for the Built Environment	CEC	TBD
Transportation Energy Savings Working Paper	CEC	Summer 2010
Exogenous Forces and Public Policy Working Paper	CEC	Summer 2010
SANDAG Sustainable Region Program Action Plan and Toolkit	CEC	Currently Available on CEC Website
SANDAG Alternative Transportation Fuels and Vehicles Program Study	CEC	Currently Available on CEC Website
SANDAG Regional Energy Strategy Update	CEC	Currently Available on CEC Website
SANDAG Regional Climate Action Strategy	CEC	Currently Available on CEC Website
Update housing element technical assistance	HCD, OPR, CARB, CEC, CalTrans, CalEPA, CNRA, DPH	December 2011
Identify housing finance incentive programs for revision to include GHG reduction strategies	HCD, CalTrans, DoC	July 2011
Catalyst projects for Sustainable Strategies Pilot	HCD	ID projects - September 2010, Implementation beginning January 2011
Brownfield Infill Site Policy Memo	DTSC	TBD
Brownfield Infill Site Training Materials for Hazardous Waste Issues	DTSC	TBD