

CLIMATE ACTION TEAM
Land Use & Infrastructure Working Group

Near-Term Implementation Plan

Strategy #1: Develop and Disseminate Information and Guidance

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, and the Department of General Services.

Measure / Strategy

- A) Description: Develop and disseminate information and guidance for local agencies to use to assess land use, housing, and transportation activities and policies that could impact/influence community sustainability, public health, GHG emissions and community resilience for climate change. Community sustainability, as defined by the SGC, includes actions/policies that strengthen the economy, protect the environment and promote equity and healthy, safe communities.
- B) Agencies Involved: All working group members have a role in one or more of the Tasks included under this strategy.
- C) Scoping Plan/Adaptation Plan Reference: <See Tasks below>
- D) Metrics: <See Focus Areas below>
- E) Cross-cutting Issues: <see Tasks below>

F) Tasks and Deliverables:

The data, information and policy guidance generated by the following programs and activities will be disseminated to local governments and planning agencies using a method to be developed by the end of 2010. It is anticipated that this will entail a document, or policy guide, available on-line that would pull together all the various products outlined below, with links to original source materials. In addition to policy guidance the site may also serve as a clearinghouse for existing resources and data.

NOTE: Task numbering not sequential. Numbers refer to initial organizational document not included here.

Focus Area 1: Monitoring and Data Gathering and Development

Task 1.6 - Policies & Practices Compilation

1. Description: ARB staff is currently compiling information on policies that can reduce greenhouse gas emissions from passenger vehicle travel. This information will be disseminated to local and regional governments in order to assist them with SB 375 implementation. In conjunction with this compilation ARB has a contract with UC Irvine to conduct literature reviews on various emission reduction strategies in order to quantify the impacts of the strategies that will be available in the compilation.
2. Deliverables: UC Irvine is currently conducting literature reviews on transportation and land use policies (e.g. effects of residential densities, pricing policies, and distance to transit). These literature reviews and their associated reports will be completed by the fall of 2010 in order to assist regional and local governments in developing Sustainable Communities Strategies associated with their SB 375 greenhouse gas emission reduction targets.
3. Agency Roles: ARB is currently developing the policies and practices compilation and providing oversight to UC Irvine for the literature reviews.
4. Timeline: Work will be completed in fall of 2010 in order to facilitate the SB 375 regional green house gas emission reduction targets, which will be finalized at the same time.
5. Crosscutting Issues: Many issues raised in these reviews will not only relate to greenhouse gas emissions but also to transportation and housing policy. To this end, ARB will make sure that appropriate staff within the California Transportation Commission, Caltrans, and the Department of Housing and Community Development will be kept apprised of the compilation's progress and have access via ARB's website to review materials.
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.19 - Monitor Health Status and Impacts of Land Use Planning and Implementation

1. **Description:** Develop a core set of indicators for measuring elements of the CDPH Healthy Community Framework, and to develop an implementation strategy to make the relevant data available to cities, counties, and regional partners for incorporating health into land use plans. Both climate mitigation and adaptation efforts focus on fostering the development of sustainable communities. A sustainable community must be a safe, livable healthy community
2. **Deliverables:** A. Develop a website that coordinates dissemination of the core group of indicators and background evidence to support these indicators, as well as policy applications and example utility. B. Develop first version of a State of the State Chronic Disease Report, incorporating the Healthy Communities Framework and indicators as additional metrics for measuring chronic disease burden.
3. **Agency Roles:** CDPH is actively engaged in many of the key policy domains (through Strategic Growth Council) along with the other SGC member agencies. CDPH is receiving support and assistance from SGC and member agencies to finalize a core group of indicators. State Chief Information Office assistance may be necessary to facilitate technical challenges that may arise as well as for collaboration on infrastructure needs for CDPH.
4. **Timeline:** CDPH Healthy Communities grant, which includes as a deliverable, the development of community indicators is in year 2 of a 5 year time frame under federal funding from Centers for Disease Control and Prevention. If state funds through SGC become available, this could accelerate completion of an initial set of indicators by as early as June 30, 2011.
5. **Crosscutting Issues:** Many of the proposed deliverables deal with factors outside of public health realm and authority but clearly impact public health, such land use and infrastructure involving transportation, air quality, energy, water quality, waste management, housing, and regional planning. Additionally, the indicators will be developed to contribute to the definition, assessment and monitoring of communities in fulfilling sustainable community goals and strategies. CDPH will need to coordinate this project through both CAT and SGC committee structures.
6. **Scoping Plan/Adaptation Plan Reference:** CAS Strategy - Public Health #4.

SUMMARY TABLE (Focus Area 1):

Task	Deliverable	Agencies	Deadline
1.6	Literature Review	ARB	Fall 2010
1.19	Community Indicators	CDPH	June 2011
1.19 A	Website	CDPH	Early 2012
1.19 B	Chronic Disease Report	CDPH	Mid 2011

Focus Area 2: Disseminating Data and Technical Information

No Task Identified this as the Primary Focus Area. Tasks with this as a secondary focus are listed below:

Task 1.9 - Center for Resource and Energy Efficient Communities (See full write-up in Focus Area 3 below).

Task 1.11 - Ranking and Prioritizing the Deployment of Community-Scale Energy Technologies Based on Their Indirect Effects in California Climate Zones (See full write-up in Focus Area 4 below).

Task 1.14 - Heritage Lands Valuation Model. (See full write-up in Focus Area 3 below) This Task will also utilize and inform the development of data under the auspices of the SGC Data Work Group.

Task 1.19 - Monitor Health Status and Impacts of Land Use Planning and Implementation. (See full write-up in Focus Area 1 above)

Focus Area 3: Developing Models and Tools

Task 1.5 - Model/Tool Review

1. Description: ARB & Caltrans are reviewing various tools/models that can help state, regional, and local governments improve transportation or land use planning. These tools range in sophistication from simple top-down emissions modeling tools to planning sketch tools to transportation model post processors.
2. Deliverables: Deliverables are determined on a case-by-case basis but usually entail a verbal briefing of ARB and Caltrans' reviews of the model/tool to Strategic Growth Council staff.
3. Agency Roles: Caltrans and ARB both review material and forward their findings to appropriate staff.
4. Timeline: Reviews occur sporadically when ARB, Caltrans, or Strategic Growth Council staff are made aware of new models and tools that may be utilized to inform land use or transportation related decisions.
5. Crosscutting Issues: Many of the models/tools that are reviewed also evaluate factors outside of the transportation/land use realm but are closely related, such as energy and water consumption, waste issues, and public health. For these

reasons ARB and Caltrans brief Strategic Growth Council staff, which are in the best position to disseminate information to the appropriate agencies.

6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.7 - EMFAC Tool

1. Description: ARB Staff developed a post processing tool that MPOs will use in conjunction with EMFAC as they develop their Sustainable Communities Strategies, as required by SB 375. Specifically, the tool ensures emissions from AB 1493 (Pavley) regulations and the Low Carbon Fuel Standard are taken into account.
2. Deliverables: The post processor is currently on ARB's website (<http://www.arb.ca.gov/cc/sb375/tools/postprocessor.htm>).
3. Agency Roles: ARB developed the post processing tool.
4. Timeline: The tool in its final form is currently available, as new regulations are adopted ARB staff will update the tool to integrate new factors that will affect vehicle travel emissions.
5. Crosscutting Issues: No cross-cutting issues are identifiable at this time, but we invite CAT members to review the tool and provide any comments to ARB staff (Contact: Douglas Ito, dito@arb.ca.gov).
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.8 - Energy Module for I-PLACE3S Tool

1. Description: This project improved the California Energy Commission's Internet-based land use modeling tool, Planning for Community Energy, Economic, and Environmental Sustainability (I-PLACE3S), by adding the capability to calculate the energy use of different development scenarios. Designed for use by local and regional government planners, the energy module aims to promote land use decisions that decrease energy consumption and carbon dioxide emissions. The tool helps clarify which development choices will allow the state to better meet greenhouse gas emission targets.
2. Deliverables: The new energy module for I-PLACE3S estimates the overall energy consumption of various building types and land uses, allows analysis of distributed generation technologies and selected building energy efficiency measures, and allows planners to compare the relative energy use and related emissions of different development scenarios.
3. Agency Role: The Energy Commission provided funding and managed the development of this modeling tool. SACOG is currently using this tool for their regional planning efforts.

4. Timeline: This tool is currently available.
5. Crosscutting Issues: In addition to land use and transportation scenarios, this tool evaluates energy and air quality impacts.
6. Scoping Plan/Adaptation Plan Reference: Scoping Plan Measure T-3

Task 1.11 - Ranking and Prioritizing the Deployment of Community-Scale Energy Technologies Based on Their Indirect Effects in California Climate Zones

1. Description: The Energy Commission is estimating and evaluating the reduction in outdoor ambient temperature that results from the deployment of heat island mitigation measures such as high albedo paving, structural shading, increased vegetation cover, and passive solar design. These community design alternatives provide indirect energy and GHG benefits by lowering the outdoor ambient temperatures which in turn reduces the energy demand of buildings.
2. Deliverables: The deliverables include a report and ranking system tool to help developers and urban planners determine which heat island mitigation measures, or combination of measures, will provide the greatest energy and environmental benefits for that community's climate zone.
3. Agency Roles:
4. Timeline: This project is currently underway. Deliverables will be available in 2012.
5. Crosscutting Issues: The issues addressed in this project also relate to energy consumption.
6. Scoping Plan/Adaptation Plan Reference: Scoping Plan Measure GB-1; CAS Strategy - Public Health 1(e)

Task 1.14 - Heritage Lands Valuation Model

1. Description: An Open Source Modeling tool for landscape/county/regional land use planning.
2. Deliverables: User definable open source modeling tool allows relative valuation for working lands. Assess mineral/natural resources, wildlife, open space, environmental hazard, and agriculture in order to avoid inappropriate development of highest value parcels. Can be used for planning and creating incentive programs for targeted land preservation.

3. Agency Roles: Department of Conservation, Division of Land Resource Protection has initial contract with UC Davis ICE. Future expansion may be considered through the data working group.
4. Timeline: Yolo County data are working within the current product. Additional utility will require assembly and assignment of data for each region/county.
5. Crosscutting Issues: The Heritage Lands Valuation Model is an open source modeling tool which uses geographic information to analyze and represent relationships between land-based resources and human activities, chiefly urbanization and transportation. The intent of the Heritage Lands Valuation Model is to support informed decisions about impacts to finite natural resources, proximity to natural hazards, and community infrastructure development. Tool is scalable for regional, local, or parcel analysis.
6. Scoping Plan/Adaptation Plan Reference: N/A

SUMMARY TABLE (Focus Area 3):

Task	Deliverable	Agencies	Deadline
1.5	Verbal Briefings	ARB, CalTrans	On-going
1.7	Post Processing Tool	ARB	Completed
1.8	Energy Module for I-Places	CEC	Completed
1.11	Report & Ranking System	CEC	2012
1.14	Modeling Tool	DoC	Yolo Co. - complete

Focus Area 4: Developing Policy Guidance

Task 1.1 - Vulnerability Assessment and Guidance for Local Health Agencies

1. Description: CDPH will disseminate a health impact assessment guide for used by local health departments and other health agencies. The guide will provide an introduction to process and steps involved in conducting HIAs and plan to post on department website, disseminate to LHDs, and provide training to LHDs.
2. Deliverables: Completed Guide will be distributed to all local health departments, posted on CDPH’s website, and incorporated into publicly accessible health assessment tool libraries/clearinghouses, such as University of California-Los Angeles’ HIA clearinghouse.
3. Agency Roles: CDPH is the lead agency in consultation with CARB in completing the development of the HIA Guide. CDPH is the lead for distribution of the Guide and any technical assistance provided to local health departments in using the HIA to assess climate change strategies.

4. Timeline: Currently, public comment is being solicited on the draft guide. Distribution of a final guide will be available in fall 2010. Distribution of the final guide and posting of the guide on websites will be completed by December 2010.

5. Crosscutting Issues: The draft Guide is being utilized by CDPH and CARB in an HIA of the Cap and Trade Program now underway. This strategy and task are linked to Public Health Workgroup's Strategy 1. Evaluation of Mitigation and Adaptation Strategies with Public Health Co-Benefits. The Guide may be incorporated, if appropriate, in the tools and guidance provided to regions, counties and cities through the Smart Growth Implementation Assistance Project (US EPA Technical Assistance Grant awarded to Governor's Office of Planning and Research), which will be completed later this year.

Task 1.4 - Land Use Practices to Reduce Wildfire Fire Danger

Subtask 1: Incorporate fire risk reduction land use planning goals into the State Fire Plan

1. Description: CAL FIRE and Board of Forestry are incorporating goals related to land use planning into the State Fire Plan that reduce risk of wildfire ignitions and impacts on forests, structures and public safety. These will contribute to adaptation goals by reducing vulnerability and increasing resilience of forest habitats and communities to increasing wildfire risks.
2. Deliverables: Board of Forestry and Fire Protection's Final Strategic Fire Plan.
3. Agency Roles: The Board of Forestry and Fire Protection and CAL FIRE are developing the plan, which explicitly recognizes climate change. CAL FIRE will develop work plans to achieve these goals. Depending on staff and funding, CAL FIRE's Fire and Resource Assessment Program and State Fire Marshal will continue to evaluate risks and vulnerabilities; local Fire Protection and Resource Management staffs will work with communities, federal and local agencies, citizens and groups such as Firesafe Councils to identify and mitigate risks through General Plan policies, fuel reduction, fire prevention, fire safe and other activities.
4. Timeline: The draft Strategic Fire Plan was released in February. The Board is expected to adopt a final plan in July 2010.
5. Crosscutting Issues: Improved land use planning, fire prevention, and hazard and risk reduction requires actions by landowners and governmental agencies. CAL FIRE also works with federal agencies, such as the US Forest Service, Natural Resource Conservation Service to reduce risks of catastrophic fire in wildland interface areas.
6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Forestry #3

Subtask 2: Minimize impacts of development on forestlands.

1. Description: Work with local agencies and citizens to reduce the impacts of timberland and forestland conversions to maintain forest resources and values in the face of changing climate pressures (climate adaptation) and to avoid emissions associated with land conversion (climate mitigation). This includes reviewing CEQA documents and General Plan amendments, particularly in the conservation elements.
2. Deliverables: Recommendations for improving timberland conversion rules, tools such as a forestland GHG calculators to assist developers in evaluating and mitigating conversion impacts.
3. Agency Roles: CAL FIRE Resource Management Program has established the Regional and Unit Environmental Coordinators who review all documents that go through the Units and also consult with developers on forest conservation and forest health issues related to development. CAL FIRE recommended changes to CEQA checklist to increase consideration and protection of forest lands from development. The Board and CAL FIRE are working with researchers and academia to develop GHG calculation tools that can be used by project developers. Board of Forestry and Fire Protection is considering CAL FIRE staff recommendations and stakeholder concerns about the need for regulatory changes to existing timberland conversion rules.
4. Timeline: End of 2010
5. Cross-cutting Issues: Assess incentives and disincentives to conversion (economic, social, etc.); assess benefits and impacts of different land use patterns on forest mitigation and adaptation goals; Work with DFG and others to develop conservation and mitigation measures that are consistent with biodiversity goals for climate adaptation; work with ARB, WCI and others to ensure that cap and trade market allows forestland conservation offsets; work with Strategic Growth Council to integrate land conservation and urban greening efforts; work with other entities to consider governmental policies that make it economic to keep lands in forest cover and timber production.
6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Forestry #3

Task 1.9 – Center for Resource Efficient Communities

1. Description: The center's initial focus is on evaluating the resource efficiency of urban designs and streetscapes, particularly their relationship to human comfort and decision-making regarding walking and bicycling as a substitute for car use. The center is also interested in strategies to moderate urban climate and heat island effects, and the economic, financial and legal implications of resource efficient communities.
2. Deliverables: The center intends to develop forums and information exchanges by which professionals can assess current research activities in the field, and share experiences of best professional practice. The center also intends to translate research findings into proposed

standards and guidelines for the consideration of state and local policy makers. These standards may be used by those implementing state laws and regulations related to climate change and resource efficiency, as well as traditional local planning functions. Specific deliverables include:

- Performance Measurement Protocol for thermal comfort – a qualitative rating system for the performance of existing and proposed development in achieving appropriate microclimates for outdoor thermal comfort.
 - An updated and validated thermal comfort model – a software program that simulates human thermal sensation and thermal comfort in any existing or proposed outdoor environment.
 - A preliminary rating system for pedestrian environments – a qualitative rating system that incorporates a wide range of street design factors that influence pedestrian behavior and expresses a given street’s overall performance in a simple grading system (e.g. Class A, Class B, etc.)
 - A “cool roof” informational website with revised and expanded information about cool roof products, installers, codes, programs, rebates, and experiences
 - Updated cool roof and cool pavement instructional materials for professional audiences in the design and building trades, reflecting changes in product availability, codes, programs, rebates, and scientific findings
 - A spreadsheet-based decision support tool that enables evaluation of potential cool surface and/or urban vegetation investments by developers, public officials and others
 - A “toolbox” of policies and technologies that can be applied to advance new communities toward net-zero-energy status
 - A typology of “cool communities” financing mechanisms for use by developers and public officials.
 - A flow diagram of sequential strategic decisions that facilitates assessment of the costs and benefits of cool communities investments
 - Model ordinances for resource efficient street designs (if feasible)
 - Model structures for agency coordination in the creation of resource efficient street designs (if feasible)
 - A set of visual scenarios exemplifying resource efficient community design for use in communication with and by public officials, developers, professionals, and the wider public
3. Agency Role: The Energy Commission is currently developing a contract that will provide funding for the Center for the next three years. Staff from Caltrans, ARB, and OPR serve on the center’s advisory board.
4. Timeline: The contract for the new center is expected to be finalized in the fall of 2010. The timeline for deliverables has not been finalized yet.
5. Crosscutting Issues: The center will also look at how community design impacts energy consumption and public health.
6. Scoping Plan/Adaptation Plan Reference: Scoping Plan Measures T-3 and GB-1; CAS Strategy – Public Health #1, 3, 7, and 8.

Task 1.10 - Guidelines for Reducing Emissions at the Local Level

1. Description: The Energy Commission, in conjunction with UC Davis, is conducting in-depth case studies of the greenhouse gas emission reduction opportunities in five California cities. The focus will be on the transportation and buildings sectors. The case study cities have voluntarily joined ICLEI's Cities for Climate Protection and/or the California Climate Action Registry. The in-depth case studies will include extensive contextual background, an analysis of the political drivers of and barriers to local action to reduce greenhouse gas emissions, standardized inventories of the greenhouse gas emissions from light-duty vehicles and building energy use, and a critique of the current climate action plan.
2. Deliverables: Deliverables from this task will include a "lessons learned" paper, highlighting the opportunities and challenges that are common to all the cities; and guidelines for reducing emissions at the local government level.
3. Agency Role: The Energy Commission is managing this project. The five California cities included in the study are Los Angeles, Santa Monica, San Francisco, Berkeley, and Arcata.
4. Timeline: This project began in 2009. The report and guidelines will be available in March 2012.
5. Crosscutting Issues: The issue being addressed in this project also relate to building energy use.
6. Scoping Plan/Adaptation Plan Reference: Scoping Plan Measures T-3 and GB-1.

Task 1.17 - Incorporate Health Considerations in Land Use Planning and Decisions

Subtask 1: Building Community Health Measures into Regional Modeling

1. Description: CDPH is developing joint regional trainings for local health departments and Metropolitan Planning Organizations (MPO) to help expand consideration of public health impacts by that are incorporated into modeling data, assumptions, and outcomes produced for regional planning. These trainings support the Strategic Growth Council's Proposition 84-funded Modeling Incentive Awards to MPOs to make improvements in modeling to address SB 375 and sustainable community strategies. CDPH, supported by funding from The California Endowment, is working with Lawrence Frank, PhD, Urban Design 4 Health, Inc. and his staff, to develop background materials and tools, and design and conduct these trainings.
2. Deliverables: A. Joint training sessions are schedule for three regions.
B. Additionally, depending on the interests and needs identified during the first round of training, there will be additional teleconferences including public health and MPO staff to facilitate further development of data, tools, processes and collaboration to support assessment of health impacts through modeling for regional plans.

3. Agency Roles: SGC, in approving the awards for modeling improvements to address SB 375, placed a priority on MPO attendance in trainings to increase consideration of public health impacts. Additionally, SGC created a Health in All Policies Task Force to implement Governor's Executive Order S-04-10 to help incorporate health considerations into major state policies and processes. CDPH has taken primary responsibility for developing and conducting the trainings. Staff from Caltrans, Governor's Office of Planning and Research, California Air Resources Board will be advising on the content and materials for the trainings. Caltrans is providing assistance with outreach to MPO staff, as well as speakers/materials for an overview of MPO roles and mandates and other planning background information for local health departments.
4. Timeline: A. Joint training sessions will be conducted in June 2010. B. Follow up teleconference meetings will be conducted July-September 2010.
5. Crosscutting Issues: By focusing on the regional modeling and forecasting processes, the trainings could result in improved understanding and ability to promote healthy communities as sustainable community strategies, which could help regions meet and possibly exceed greenhouse gas emission targets. There are significant health co-benefits to be realized by focusing MPOs in the implementation of SB 375 on opportunities to improve community health and meet greenhouse gas emission targets.
6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Public Health 1 and 3.

Task 1.20 - Amend the *General Plan Guidelines* to include climate change related issues and impacts.

1. Description: Amend the ***General Plan Guidelines*** to include climate change related issues and impacts.
2. Deliverables: At minimum, the deliverable will be a document: General Plan Guidelines Climate Change Addendum. The deliverable to could be expanded to include back up materials, a web page etc.
3. Agency Roles: In the past, OPR has taken the lead. If the CCLU-IN participated, it could serve as the multi-agency advisory committee that OPR would usually convene to advise and review the document. In addition an outside advisory committee will be convened to review the document/ Members would include representatives from: environmental organizations, public health organizations, city and county representatives, academics, expert consultants, and legislature staff.
4. Timeline: The timeline has yet to be determined.
5. Crosscutting Issues: The ***General Plan Guidelines*** provide information as to how local governments can incorporate a wide range of state objectives into planning at the local

level. The seven required general plan elements include Land Use, Housing, Conservation, Open Space, Circulation, Safety, and Noise. Cities and counties can include optional elements based on a community's priorities. Some of the optional elements that communities have included are: health, economic development, sustainability, energy, and air quality. The General Plan must be internally consistent so it provides the ideal vehicle for integrating the full range of CAT objectives across a variety of issue areas. It also provides the opportunity to more closely align mitigation and adaptation activities.

6. Scoping Plan/Adaptation Plan Reference: N/A

SUMMARY TABLE (Focus Area 4):

Task	Deliverable	Agencies	Deadline
1.1	Health Impact Assessment Guide	CDPH	Fall 2010
1.4 #1	Strategic Fire Plan	Board of Forestry, CalFire	July 2010
1.4 #2	Timberland Conversion Rule Recommendations	CalFire	End of 2010
1.9	Various	CEC	TBD
1.10	"Lessons Learned" Report	CEC	March 2012
1.17 A	Training Sessions	CDPH	June 2010
1.17 B	Follow-up Teleconferences	CDPH	Sept. 2010
1.20	General Plan Addendum	OPR	TBD

Focus Area 5: Disseminating Policy Guidance

Task 1.3 - Agricultural Policies

1. Description: CDFA, in collaboration with the Strategic Growth Council and other agencies, should provide guidance for cities and counties to help develop and adopt sustainable agriculture policies, particularly in conjunction with smart growth planning initiatives. (Includes several substrategies; Adaptable Farmlands, Community Land use)
2. Deliverables:
 - Deed restrictions in perpetuity should be closely scrutinized because of future climatic impacts. For instance, the micro climate may change such that new pests are introduced or management of resources no longer becomes feasible. In the alternative, consideration should be given to incentive based alternative compensation programs such as conservation/ agricultural easements, development rights transfers, and tax credits for implementation or maintenance of desirable land uses.
 - Counties should be encouraged to adopt agricultural elements into their general plans and implement Right-To-Farm Ordinances to help ensure the productive capability of

- agricultural uses are not significantly compromised, displaced, or impaired and they have maximum flexibility to adapt to climate changes.
- Local planning should promote orderly and logical contiguous patterns of urban growth. To help prevent urban sprawl and conserve the agricultural resource, responsible local agencies should discourage urban development on agricultural lands unless it has been demonstrated that there has been an efficient use of existing incorporated areas.
3. Agency Roles: CDFA in cooperation with the Department of Housing and Community Development, Department of Conservation, and BT&H. A potential supporting working group would be with local governments.
 4. Timeline: Timeline is uncertain as CDFA does not have statutory authority to implement the deliverables. We would need to work with other agencies and local government to accomplish these goals.
 5. Crosscutting Issues: The Strategic Growth Council may be an appropriate place to have the discussion on how we implement the deliverables as well as local government input.

Task 1.2 Flood Risk Management Policy Guidance

1. Description: Provide state support to help Local Governments implement land use policies that decrease flood risk.
2. Deliverables: DWR is developing a guide titled “**Implementing California Flood Legislation into Local Land Use Planning: A Handbook for Local Communities**” in support of the DWR FloodSAFE California initiative. The Handbook describes how the 2007 flood risk management legislation affects city and county responsibilities related to local planning requirements including general plans, development agreements, zoning ordinances, tentative maps and other actions.
3. Agency Roles: DWR will develop and distribute the Handbook once completed.
4. Timeline: A public review draft of the handbook is anticipated to be completed in early summer 2010, with a final document available by late summer 2010.
5. Crosscutting Issues: No crosscutting issues were identified at this time.
6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Water 4(f)

Task 1.12 - Energy Aware Planning Guide

1. Description: The *Energy Aware Planning Guide*, originally produced in 1993, was designed to be used by local governments to assist in preparing comprehensive Energy Elements and overall integration of energy conserving policies into all General Plan

elements. The updated *Guide*, more fully addresses the linkages between local government action, energy consumption and greenhouse gas and emission reduction options. It also has new sections describing the role of regional transportation analysis and planning in local government energy efficient land use.

2. Deliverables: The Energy Aware Planning *Guide* is available as hard copy and is also available online on the California Energy Commission's web site (<http://www.energy.ca.gov/2009publications/CEC-600-2009-013/CEC-600-2009-013-D.PDF>).
3. Agency Roles: The key role of the Energy Commission's Local Energy and Land Use Assistance Unit is to provide energy-related technical information on land use to support local agency and state agency efforts to reduce vehicle miles traveled, energy use of buildings and facilities and GHG emissions. The Energy Commission will market the Energy Commissions Energy Aware Planning Guide to local and regional entities and other state agencies.
4. Timeline: The Energy Aware Planning Guide has been completed.
5. Crosscutting Issues: The Energy Aware Planning Guide is targeted to regional and local governments that need tools and resources to develop transportation plans, general plans and other policy documents that support the goals of AB 32, SB 375, the Strategic Growth Council, and the Climate Action Team working groups to incorporate energy conservation, VMT reduction measures, and GHG emission reduction targets into coordinated state planning efforts.
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.13 - Energy Aware Facility Siting and Permitting Guide

1. Description: As California responds to climate change science and regulation, new methods of generating electricity are being considered. Infrastructure is being considered in locations where no infrastructure previously existed and can vary in size from quite small to extremely large. The *Energy Aware Facility Siting and Permitting Guide*, currently being updated from its original 1996 edition, will incorporate new information on state energy policy priorities and initiatives, the designation of transmission corridors, and the planning and permitting processes of energy infrastructure. The Guide is a comprehensive resource for local governments seeking to be more engaged in how electricity infrastructure is developed within their own communities and within the state at large.
2. Deliverables: The Energy Aware Facility Siting and Permitting *Guide* will be published as a report and will be available online on the California Energy Commission's web site

3. Agency Roles: This Guide is intended to help local governments plan for and permit electricity generation facilities and transmission lines that will be needed in the upcoming years. The Energy Aware Facility Siting and Permitting Guide will provide a framework to inform planners, decision makers and the public about what, how, and why electricity infrastructure may be developed.
4. Timeline: The Energy Aware Facility Siting and Permitting *Guide* is scheduled for completion in late summer 2010, and will be available on the California Energy Commission web site shortly thereafter for public use.
5. Crosscutting Issues: This *Guide* is intended primarily for local and regional land use agencies to educate them about and assist them in participating in electricity generation and transmission planning and the permitting processes in California.
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.15 - Sea Level Rise Advisory Re: Hazardous Materials and Contaminated Sites

1. Description: DTSC will develop and distribute a Sea Level Rise Advisory for the CAT or the Ocean and Coastal CAT to provide to local governments re: planning for sea level rise at coastal hazardous waste treatment, storage, and disposal facilities and contaminated sites.
2. Deliverables: Deliverable is a single document.
3. Agency Roles: DTSC will take the lead on the deliverable, and Cal/EPA, and the California Ocean Protection Council, and the Ocean and Coastal CAT should provide a review function to ensure that the Advisory works in parallel with the paper prepared by the Pacific Institute entitled, "The Impacts of Sea Level Rise on the California Coast".
4. Timeline: DTSC draft will be completed by September 2010. Cal/EPA, the California Ocean Protection Council, and the Ocean and Coastal CAT should complete their review by fall 2010.
5. Crosscutting Issues: The Public Health Working Group should be involved in the preparation of this advisory, since sea level rise, if not addressed at a contaminated site, could contribute to the migration of contaminants off-site to surface waters or groundwater, which would then have the potential for impacting public health.
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.16: Local Assistance on GHG Reduction Strategies

1. Description: Provide education and technical assistance to housing developers, housing advocacy organizations, business and industry groups, environmental advocates, local

government housing and planning departments about the relationship between planning well for housing and achieving climate change objectives.

2. Deliverables: Written materials on the Department's website (for download and distribution) including powerpoint presentations, white papers, one-pager briefing papers. Workshop presentations; Speakers Bureau resources---materials that can be incorporated into speeches and presentations by others; Other materials as appropriate.
3. Agency Roles: HCD will Lead and seek support and/or consultation from OPR, Energy Commission, Caltrans, CalEPA, and Public Health
4. Timeline: All timelines subject to availability of resources.
December 2010: 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: Many housing issues will also relate to land use, transportation, energy and natural resources issues. Where needed and appropriate HCD will ensure appropriate staff within Caltrans, CARB, OPR, the Energy Commission, Public Health, Natural Resources will be kept apprised of the effort and consulted.
6. Scoping Plan/Adaptation Plan Reference: N/A

Task 1.18 - Policies and Practices and Programs to Support Healthy Behaviors and Environments

Sub-Task 1: Improve Equity in Safe Routes to School (SRTS) Funding

1. Description: Governor Schwarzenegger directed Caltrans in February 2010, in concert with its new Technical Assistance Resource Center (TARC) led by the California Department of Public Health (CDPH) and the University of California at San Francisco (UCSF), to improve access to SRTS funding for low-income schools and communities. The goal is to enable these low-resource communities to more fully participate in improving school environments and neighborhoods in order to support walking/bicycling to school. SRTS provides funding and other assistance to schools and communities to adopt critical countermeasures and changes ranging from infrastructure, such as adding sidewalks or crosswalks, to educational and enforcement programs. (Assembly Bill (AB) 2147 (Perez) sponsored by Policy Link and the California Rural Legal Assistance League, has also been introduced to advance this policy.)
2. Deliverables: A. Caltrans will adopt rating/scoring factors that provide priority or preference for proposals for disadvantaged schools. Caltrans will now consider benefits to a disadvantaged school in the rating factors used to select proposals for funding under the Safe Routes to School (SRTS) program. B. TARC will increase outreach and support to increase participation in SRTS by low-income, disadvantaged schools.

TARC is currently reviewing funding best practices within other state agencies as well as other states and will recommend strategies to reach out to low-income schools. For example, it may be that there will be weighted or bonus points assigned based on the percentage of students eligible for free/reduced price meals (FRPMs) as well as the percentage of students living within two miles of the school.

3. Agency Roles: Caltrans will take the lead, supported by CDPH since this action also reflects CDPH’s goals to address the obesity epidemic, to improve equity in all strategies, and promote safer, healthier communities. Data available from the California Department of Education (CDE) is a critical element in determining “low-income” levels (FRPMs). CDE could also promote SRTS at the Superintendent and District levels, encourage the designation of district travel coordinators to map/educate school personnel and families about safer routes, and incorporate the benefits of walking and bicycling into school curricula. In terms of other stakeholder groups, the attendees at the Governor’s recent Obesity Prevention Summit would definitely support this effort.

4. Timeline:

Underway	TARC conducts environmental scan, with input from workgroup, crafts recommendations for Caltrans.
2010	Caltrans management determines strategies that will guide future funding cycles to ensure equity.
2010	Requests for Proposals (RFPs) incorporate rating equity factors
2010 - 2012	TARC provides technical assistance and training to build and support capacity among potential applicants as well as grantees.

5. Crosscutting Issues: SRTS has a strong focus on safety – reducing hazards so pedestrians and bicyclists will suffer injuries in traffic-related crashes – as well as to encourage more youth to walk or ride rather than be driven to school. Successful SRTS projects will address physical inactivity, obesity, traffic congestion, and vehicle miles traveled. They are also pivotal in creating social norm shift to increase reliance on active transportation among school aged youth, which could result in a lifetime of increased reliance on active transportation. SRTS success relies on school sites must remaining in or planned for location within/proximate to residential neighborhoods.

6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Public Health #1 and #3.

Sub-Task 2: Promote Joint Use Agreements to Increase Safe and Equitable Access to School Facilities for Physical Activity and Recreation during Non-School Hours

1. Description: As part of the Obesity Prevention Initiative, Governor Schwarzenegger committed to expanding eligibility opportunities and flexibility for communities to enter into joint use agreements. The goal is to enable communities that lack safe, well-maintained, and accessible

places for physical activity to have better options. This is particularly true in low income communities of color, where access to public spaces for physical activity and recreation (e.g. sports areas, parks, bike lanes/trails, and public pools) is limited and there are high rates of obesity. Assembly Bill (AB) 2705 (Hall) has been introduced to advance this policy. CDPH, in late 2009, obtained a federal American Reinvestment and Recovery Act (ARRA) grant to expand recreational and physical activity opportunities through joint use agreements.

2. Deliverables: A. Adoption of increased flexibility policies for joint use (AB 2705 enactment). B. CDPH, under the ARRA grant, will adopt and implement a policy to reduce at least one major barrier to community after-hours recreational use of school facilities, as well as to work with at least ten (10) schools in low-resourced communities to establish joint use policies and practices.
3. Agency Roles: CDPH has the lead role; this action reflects CDPH’s goals to address the obesity epidemic, as well as its strong commitment to enhancing equity in all strategies promoting safer, healthier communities. The California Department of Education (CDE) also has an important role as it administers the State Allocation Fund for joint use projects across the state. Other stakeholders include the Governor’s recent Obesity Prevention Summit participating agencies and coalitions.
4. Timeline:

Under way	Establish Advisory Group comprised of key stakeholder groups working on joint use efforts.
2010	Synthesize needed state use policy changes.
2010-2011	Work with partners and advocates to educate decision-makers about needed state joint use policy changes.
2010	Conduct Request for Proposals (RFPs) process to select at least ten (10) schools in low-resource communities to establish joint use agreements and practices.
2010 - 2011	Provide training, technical assistance, and resources/tools (i.e., model joint use agreements, case studies) to local decision-makers.
5. Crosscutting Issues: Joint use can positively influence the social and economic vitality of a neighborhood and community, increase opportunities for safe, physical activity for youth, and improve neighborhood/community and school connections. Decisions about school siting, closures, and consolidation have significant affect the number and success of joint use agreements.
6. Scoping Plan/Adaptation Plan Reference: CAS Strategy – Public Health #1 and #3.

Sub-Task 3 : Biennial Childhood Obesity Conference

1. Description: CDPH is the organizing partner for the biennial Childhood Obesity Conference, a nationally recognized leadership event. The 2011 conference theme of “Health in All Policies” will expand its presentation of evidence-based policies and practices to reduce childhood obesity to include two new focused tracks; Agriculture and Food Systems and the Built Environment, Land Use and Transportation.

2. Deliverables: Four workshops for each track will be developed, speakers secured and content developed incorporating identified priority issues including national and state speakers and programs, with a focus on environmental and policy change.
3. Agency Roles: For CDPH, California Project LEAN leads the overall planning for the conference. The development of the Built Environment, Land Use and Transportation track is led by the California Department of Public Health (CDPH) Center for Physical Activity and UC Berkeley Center for Weight and Health. Additional support is needed from other partners including Caltrans, Active Living Research, and the Central California Regional Obesity Prevention Program (CCROPP).

The development of the Agriculture and Food Systems track is led by UC Cooperative Extension and California Department of Education. Additional support is needed from the California Department of Food and Agriculture, Caltrans, CCROPP, Prevention Institute and the San Diego County Childhood Obesity Initiative.

4. Timeline: Workshop content will be finalized and speakers confirmed by December 2010. Workshops will be presented and evaluated at the 6th Biennial Childhood Obesity Conference in San Diego, CA, June 28-July 1, 2011.
5. Crosscutting Issues: The conference will be sharing the latest research and best practices from eight tracks, highlighting the intersections of school, community, food systems, goods movement, and the built environment in reducing childhood obesity.

Subtask 4: Implement *Strategic Plan for Asthma in California* Goals to Reduce Asthma Impacts of Outdoor Environments

1. Description: CDPH /California Breathing will implement specific objectives in Goal 5: Outdoor Environments of the *Strategic Plan for Asthma in California* through funding community based organizations to address asthma disparities in outdoor environments using the Strategic Plan Implementation Grants Program (SPIG) and through promoting the use of Health Impact Assessments (HIA) to asthma stakeholders as they provide input and feedback for proposed land use and built environment policies and projects.
2. Deliverables: Two-three community based organizations will be funded for a two year period (9/1/10-8/31/12) and an asthma-focused HIA webinar and accompanying resource document will be developed and disseminated.
3. Agency Roles: CDPH/California Breathing will have the lead on these deliverables. Participation from California Air Resources Board, Caltrans, and other agency staff working on land use planning, in the review of SPIG applications and/or in providing guidance to the funded grantees would add value to these grants.
4. Timeline:

- A. Outdoor Environments SPIG: Applications will be reviewed and award in June 2010.
 - B. Quarterly conference calls for technical assistance and training—Ongoing
 - C. Grantee training--mid-2011
 - D. Technical Assistance for grantees-Ongoing
 - E. HIA Webinar and Resource Document—released mid-2010
5. Crosscutting Issues: These grants, by targeting land use, transportation, and other planning processes and decisions, will be supporting local efforts to promote improved air quality by promoting measures that also reduce greenhouse gas emissions, for example, increased use of active transportation.

SUMMARY TABLE (Focus Area 5):

Task	Deliverable	Agencies	Deadline
1.2	Flood Risk Guide	DWR	Summer 2010
1.12	Energy Aware Planning Guide	CEC	Completed
1.13	Facility Siting Guide	CEC	Summer 2010
1.15	Sea Level - Haz. Mat Site Guide	DTSC	Fall 2010
1.16	Workshop & Training Materials	HCD	Dec 2010
1.18 #1	T.A.R.C. Outreach & Resources	CalTrans	2012
1.18 #2	Amend Joint-Use Agreements	CDPH	2011
1.18 #3	4 Workshops	CDPH	Summer 2011
1.18 #4	Asthma Awareness Training	CDPH	2010 - 2011