

# California-Mexico MOU

*Climate Change & Environment, Climate Change Work Group*

The table below describes details of the action plan developed by the responsible parties of the MOU. The action plan goals will be approached through workshops, information sharing, and policy analysis.

## Climate Change Work Group

Overarching Goals	Action Plan Goals	Deliverables
Work towards development of rigorous MRV to support carbon pricing or regulatory mechanisms, including potential linkage of carbon markets.	Share lessons learned on construction and design (as reporting tools) and data management tools (technical cooperation).	1. Possibility to align Mexico's registry system with California's Annual GHG Reporting System. 2. Information sharing.
	Consider standardization of algorithms of quantification methodologies in order to calculate emissions.	1. Information sharing.
	Pursue standardization of verification parameters for emission reports.	
	Cooperate to share training for Verifying Entities, or for process verification and/or validation.	

Overarching Goals	Action Plan Goals	Deliverables
<p>Share knowledge, development, and technology experience that enable economic growth while addressing climate change, including reductions in short-lived climate pollutants.</p>	<p>Develop specific recommendations for the design of effective tools for pricing carbon in Mexico and California.</p>	<p>Results and recommendations of analysis due within reasonable time frame.</p>
	<p>Determine cap threshold and an emissions permit distribution system.</p>	<ol style="list-style-type: none"> <li>1. Share information on how California has developed its cap in every sector.</li> <li>2. Discuss external training.</li> <li>3. Potential future workshops.</li> </ol>
	<p>Exchange technical assistance and experiences for the construction of a Carbon Market.</p>	
	<p>Improve capacity of staff of the ministry, through the exchange of information and experiences on vulnerability assessments to climate change in different sectors, as well as the design, implementation and monitoring of measures to adapt to climate change.</p>	<ol style="list-style-type: none"> <li>1. Possible transfer and development of technology.</li> <li>2. Share experiences of successful projects to adapt to climate change in the region, monitoring and evaluation tools, development of climate change scenarios, early warning systems, preventive care approach to disaster management and conservation of ecosystems to new climate conditions.</li> </ol>
<p>Look to create opportunities for biomass energy and biomass energy plants to replace fossil fuels.</p>	<ol style="list-style-type: none"> <li>1. Share with bioenergy working group the opportunity of eventual support from this cooperation.</li> </ol>	

Overarching Goals	Action Plan Goals	Deliverables
<p>Share information and experience on interaction between forestry and the climate, including the potential for sector-based offset credits from reduced deforestation.</p>	<p>Discuss methodologies with the potential of producing offsets for both regions.</p>	<ol style="list-style-type: none"> <li>1. Exploration of methodologies from California.</li> <li>2. To analyze methodologies in order to include them into an eventual Mexican accreditation system.</li> </ol>
	<p>Explore the inclusion of offsets from Mexico in the California market.</p>	
	<p>Collaboration of programs on forest management and reducing emissions from deforestation and forest degradation, with a view to incentivizing forest carbon approaches.</p>	<ol style="list-style-type: none"> <li>1. Establish Core Team.</li> <li>2. Review existing Governors' Climate and Forests Task Force documentation.</li> <li>3. Technical meetings.</li> <li>4. Determine whether CA could help develop interest in subnational/regional linking within Mexico (i.e., Chiapas, Yucatan, Quintana Roo, and Jalisco efforts) to include sectoral offsets in CA market.</li> <li>5. Encourage exchanges between Mexican and CA universities.</li> </ol> <p>Examine possibility of linkage between national and subnational policies.</p>

# California-Mexico MOU

Climate Change & Environment, Air Quality Work Group

The table below describes details of the action plan developed by the responsible parties of the MOU.

## Air Quality Work Group

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Coordinate Mexico-California air quality planning efforts for air sheds along the Mexico-California border.	Coordinate development and implementation of Baja California ProAire and California air quality planning efforts.	Information sharing and coordination.	SEMARNAT, CARB
Share technical knowledge and information needed to support development of robust air quality planning and mitigation efforts.	Implement emissions reporting system for Baja California.	Information sharing.	SEMARNAT, CARB
	Strengthen Baja California air toxics regulations.	Information sharing.	SEMARNAT, CARB
Improve the comparability of data collected in Mexico and California.	Strengthen the air quality monitoring network in Baja California.	Provide training and information sharing on various technical aspects of air quality monitoring including field operations, quality control activities, and data management and reporting.	SEMARNAT, INECC, CARB
	Capacity building and improved understanding of cross-border air quality and emissions sources.	Enhance air monitoring stations in Mexicali with continuous PM2.5 monitors and a PM2.5 speciation sampler. These monitors will be used in a two-year PM2.5 study of the Mexicali/Imperial County region.	SEMARNAT, CARB
	Improve auditing of the Baja California air quality monitoring network.	Provide training on how to conduct performance audits of air monitoring instruments and samplers.	INECC, CARB

# California-Mexico MOU

*Climate Change & Environment, Clean Vehicles Work Group*

The table below describes details of the action plan developed by the responsible parties of the MOU.

## Clean Vehicles Work Group

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Update and design the Mexican vehicle emission standards for GHG and smog pollution based on California's standards.	Improve the Mexican regulatory requirements for vehicular criteria pollutant emissions: Develop the standards for light vehicle emissions in 2015 and beginning of 2016 and the standards for heavy duty vehicles in 2016 and 2017 (for new and in use vehicles including motorcycles).	1. Mexican Official Norms drafts and Regulatory Impact Study.	CARB, SEMARNAT, DGFAUT
Advance Mexico's efforts on compliance and enforcement of environmental standards for vehicles.		2. Publication of an "Emission Standards Equivalence Guide" [DGFAUT].	

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
<p>Contribute to Mexico’s progress on the use of new technologies and strategies for the reduction of vehicular emissions (e.g. strategy for freight transportation, emissions inventories for mobile sources, vehicular emissions diagnosis and maintenance, OBD for vehicle inspections, clean and low-carbon fuels and strategy for the import of used vehicles into México).</p>	<p>Develop an integrated strategy on freight transportation for improving SEMARNAT’s Clean Transportation Program: Learn from California’s experience about the implementation of measures to prevent and control the emission in this sector.</p>	<p>Collaboration with SEMARNAT staff who will visit California to discuss the freight trucks program and exchange experiences.</p>	<p>CARB, SEMARNAT, DGFAUT</p>
	<p>Training and experience exchange on the elaboration of an emissions inventory for vehicular and off road mobile sources.</p>	<p>Development of a methodology for the emissions inventory estimation for vehicular and off road sources for Mexico.</p>	<p>CARB, SEMARNAT, DGFAUT</p>
	<p>Training and experience exchange on methods to ensure compliance with mobile source standards.</p>	<p>Collaboration between California and Mexican technical personnel [DGFAUT].</p>	<p>CARB, SEMARNAT, DGFAUT</p>
	<p>Establish a workgroup to define the environmental criteria for the import of used vehicles into Mexico.</p>	<ol style="list-style-type: none"> <li>1. Environmental Criteria for the definitive import of used vehicles into Mexico.</li> <li>2. Collaboration between California and Mexican personnel on options for strategy development for imported vehicles and mitigation of their environmental impact in Mexico.</li> </ol>	<p>CARB, SEMARNAT, DGFAUT</p>
	<p>Training on the OBD Systems: Training and experience exchange for the application of OBD as part of Vehicle Emissions Verification Programs.</p>	<p>Criteria and technical specifications for the reliable use of OBD systems during the process of Vehicular Emissions Verification.</p>	<p>CARB, SEMARNAT, DGFAUT</p>
	<p>Experience Exchange related to strategies for introducing and promoting the use of alternative fuel and vehicular technologies.</p>	<p>Work Document that includes California’s experience to promote the production and use of alternative vehicular fuel and technologies.</p>	<p>CARB, SEMARNAT, DGFAUT</p>

# California-Mexico MOU

Climate Change & Environment, Wildfires Work Group

The table below describes details of the action plan developed by the responsible parties of the MOU.

## Wildfires Work Group

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Wildfire Suppression in the Baja California-California Border Region.	To exchange human resources and materials to collaborate on wildfire suppression within the Baja CA -California border region.	<ol style="list-style-type: none"><li>1. Train several Mexican wildfire firefighters on the National Wildfire Coordination Group (NWCG) standards for the suppression of wildfires.</li><li>2. During the training exchange program in CA, ensure the Mexican firefighters are trained on CA's standards (NWCG).</li></ol>	CONAFOR, Cal OES, Cal Fire
Capacity Development			
Equipment	Provide ICS training to Mexican technical personnel in California.	<ol style="list-style-type: none"><li>1. Train several Mexican trainers (train-the-trainer) on ICS and provide the opportunity to observe the incident management teams on ICS during real time.</li><li>2. Training and working alongside to establish a history of successfully working together in an effort to establish future joint activities.</li></ol>	CONAFOR, Cal OES, Cal Fire

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Equipment (continued)	Participation of technical personnel on fuel management methods (mechanical, prescribed burns and others): Mexican trainers to participate on prescribed burning to expand their technical knowledge and enhance their experience in fuel management.	<p>For mexican leader’s program (Just one time):</p> <ol style="list-style-type: none"> <li>1. Sharing experiences/lessons learned to establish a prescribed burning program.</li> <li>2. Strategy of social communication.</li> <li>3. Cost analysis of a prescribed burning program/fuel management program.</li> <li>4. Requirements to establish an equipment and technical training program.</li> <li>5. Other fuel management methods to reduce fuel loads on forest.</li> </ol> <p>For Mexican trainers (each year):</p> <ol style="list-style-type: none"> <li>1. Review plans for natural resource management and fire management plans.</li> <li>2. Review / Formulation burning plans and objectives.</li> <li>3. Participation of Mexican technicians with prescribed fire brigades of CA.</li> <li>4. Participation of Mexican technician with fuel management brigades of CA.</li> </ol>	CONAFOR, Cal OES, Cal Fire
	Provide training for utilization and operation of water pump truck engines.		CONAFOR, Cal OES, Cal Fire

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Equipment (continued)	Exchange lessons learned between CALFIRE technicians and Mexican Leader Program.	<ol style="list-style-type: none"> <li>1. Process to establish a fire engine program for fighting fires and prescribed burn.</li> <li>2. Policies and procedures in short, medium and long term to run a fire engine program. (including decision-maker's actions before, during and after fire season).</li> <li>3. Developing capacities strategy in México under the concepts used by CALFIRE.</li> <li>4. What the decision makers must do before, during and after fire season?</li> </ol>	CONAFOR, Cal OES, Cal Fire
		<p>For trainers:</p> <ol style="list-style-type: none"> <li>1. Allow Mexican trainers to participate in fire engine use courses in CA.</li> <li>2. Train several Mexican trainers on fire engine use in real time.</li> <li>3. Process to establish preventive and corrective fire engine maintenance program (including what crew engines must do before, during and after fire season).</li> </ol>	CONAFOR, Cal OES, Cal Fire
	Exchange technical information about Emergency Operations Centers, dispatching protocols and mobilization, statistics management, inter-institutional coordination, among others.	<p>Exchange lessons learned between CALFIRE technicians and Mexican leader's program:</p> <ol style="list-style-type: none"> <li>1. Providing technical information and exchange on emergency operation centers, dispatching protocols and mobilization.</li> <li>2. Statistics management, hardware and software, communications protocols, interagency coordination.</li> <li>3. Visit CA emergency operation centers to share lessons learned.</li> </ol>	CONAFOR, Cal OES, Cal Fire

Overarching Goals	Action Plan Goals	Action Plan Deliverables	Responsible Agencies
Equipment (continued)	Conduct joint training regarding Wildland Urban Interface issues	<p>For Mexican Leader Program</p> <ol style="list-style-type: none"> <li>1. Development of the Urban Interface Strategy, implementation, policies and procedures</li> <li>2. Provide training for Mexican trainers on how to develop educational actions on wild land urban interface issues.</li> <li>3. Process to develop fire severity zone maps.</li> <li>4. Share lessons learned on interagency coordination for law enforcement, wildfire prevention engineering, owner’s participation, and wild land hazards/building codes.</li> </ol> <p>For trainers</p> <ol style="list-style-type: none"> <li>1. Train several Mexican trainers on:               <ol style="list-style-type: none"> <li>i. Procedures for fighting fires on wildland urban interface zones.</li> <li>ii. Safety issues for fighters, owners and public.</li> </ol> </li> </ol>	CONAFOR, Cal OES, Cal Fire
	Equipment and tools donations:	Support Mexican Fire Program with equipment, hand tools and Personnel Protective Equipment through CA surplus donations.	CONAFOR, Cal OES, Cal Fire