



**AD HOC SUSTAINABILITY AND CLIMATE CHANGE COMMITTEE  
MARCH 26, 2008**

**SUBJECT: SUSTAINABILITY EFFORTS**

**ACTION: RECEIVE AND FILE**

**RECOMMENDATION**

Receive and file this report to present staff's workplan to continue the Los Angeles County Metropolitan Transportation Authority's (LACMTA) sustainability efforts.

**ISSUE**

During the January 2008 Ad Hoc Sustainability and Climate Change Committee meeting, staff had presented the status of the sustainability efforts that it initiated and implemented between November and December 2007. This Receive and file report contains a work plan to aggressively continue and implement identified projects agency-wide.

The work plan outlines the four specific projects that our staff will be focusing on. The work plan includes descriptions of immediate and long-term sub-activities. These have been identified to be projects that would require dedicated and focused efforts and financial resources. Other initiatives presented to the Ad Hoc Sustainability and Climate Change Committee in January 2008 will continue to be implemented as part of our existing and on-going responsibilities.

**BACKGROUND**

Staff had previously recognized the need to develop projects to further our efforts towards sustainability. In staff's previous report to the Ad Hoc Sustainability and Climate Change Committee, staff identified various activities that have been initiated, are being implemented, or are being conceptualized.

After the January 2008 meeting, staff evaluated the nature of the initiatives. Based on our understanding of the level of commitment needed for those initiatives, four specific projects were identified as requiring resources in the form of staff and financial commitments. These projects are as follows:

- *LACMTA and Countywide Greenhouse Gas Emissions Management* which consists of developing nationwide transit industry protocols for registering carbon emissions

prior to participation in the climate registry. Protocols are likely to include offsetting vehicle miles traveled (VMT) and mode-shifting to better reflect public transit's role in reducing greenhouse gas emissions. Registration of our carbon emissions will allow us to participate in carbon cap and trade programs in the future. Deliverables will include transit industry protocol, carbon emissions quantification, registration with the California Climate Registry, and procedure for participation in the carbon cap and trade programs;

- *Energy Sustainability Initiatives* which include energy conservation initiatives; planning, feasibility study, and installation of additional solar panels at various bus and rail divisions; and exploration of other renewable resources;
- *Development of Sustainability Design Guidelines* that will be used to incorporate and implement core sustainability elements into our sustainability design and construction activities; and
- *Development and Implementation of Sustainable and Environmental Management Systems* that include the development of a Sustainability Management System pilot study for Division 10 and an Environmental Management System development and implementation through a Federal Transit Administration assistance program.

Staff has already discussed these projects with our center managers who would be responsible for providing staff to these projects.

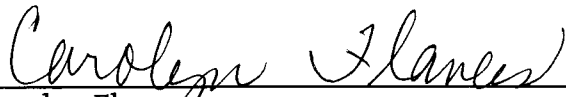
### **NEXT STEPS**

We will provide an update on the progress of these four projects in the next Ad Hoc Sustainability and Climate Change Committee meeting. Staff will continue and expand the existing programs identified in the January 2008 report that have been determined to be part of our existing responsibilities.

### **ATTACHMENT**

#### **A. Workplan for Sustainability Projects**

Prepared by: Cris B. Liban, Manager of Environmental Compliance and Services  
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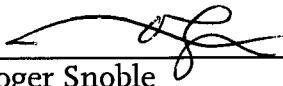
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Carolyn Flowers  
Chief Operations Officer



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Krishniah N. Murthy  
Deputy Chief Capital Management Officer



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Roger Snoble  
Chief Executive Officer

Attachment A. Workplan for Sustainability Projects that Need Dedicated Metro Resources		
Task Name	Type of Project	Sustainability Element Description
Metro & Countywide Greenhouse Gas Emissions Management	Measure & Manage Countywide Programming Greenhouse Gas Emissions Footprint	CHG Management is a growing area in government. The Climate Registry is developing a set of protocols for local agencies to measure & manage their emissions. Metro needs to coordinate with the 89 local governments, SCAG, state & federal agencies to measure & manage our operating & programming footprints.
	Carbon-Based Revenue Programming & Policy Analysis	New protocols for capturing carbon offsets/credits from the transit/transportation sector for the California Climate Registry are being developed. We are uniquely positioned to influence & take advantage of its role as operator & regional planning & programmer to maximize potential carbon based revenue opportunities.
	Sustainable Transportation Performance Indicators	New sustainable transportation programming metric/indicators are being developed at the state (including CEQA) & federal level to provide information on how planning & programming actions are enhancing the region's economic, environmental & public health objectives.
Energy Conservation Initiatives	Ops	In parallel with adopting renewable energy sources, staff should continue to pursue infrastructure upgrades and install efficient equipment.
Planning, Feasibility Study, and Installation of Additional Solar Panels	Ops: FY'09 to '10 Capital: Ongoing	Installation of solar panels of various configurations in various facilities to relieve our reliance on supplied electrical power. This will result in reduced electrical bills.
Exploring Other Renewable Resources	Ops: FY '09 to '10 Capital: FY'10 to '12	Development of Wayside Energy Storage Substation (WESS) pilot project. A WESS is an energy storage system to store energy from train braking that can be brought back to the grid and can be reused by the trains when needed. Explore peak electricity consumption reduction methods.
Sustainability Design Guidelines	Ops	Develop Sustainability Design Guidelines that will be used for implementing an agencywide Design Criteria revision. The design guidelines shall incorporate sustainability elements, such as low impact development, recycled material usage, drought tolerant landscaping, reclaimed water use, etc.
Sustainability Management System (SMS) Pilot Study	Ops: FY '09 Capital: FY'10 to '12	Develop a Sustainable Management System that incorporates the ISO 9001 (Quality), 14001 (Environment), and OHSAS 18001 (Safety) standards. This is a holistic approach towards creating a sustainable environment within the agency. Once implemented, secure ISO 9001 and 14001 and OHSAS 18001 certification.
FTA Environmental Management System (EMS) Grant Application	Ops: FY '09 to '10 Capital: FY'11 to '12	FTA will assist us in developing an Environmental Management System for at least one "Fenceline" site. There will be a series of quarterly training sessions to be held in FY 2008 to FY 2009 in Seattle, WA. Shaw Environmental will assist the FTA in implementing this program.

Task Description
Monitor & Influence State & Federal Climate Change Legislation & Best Management transportation planning & programming practices favorable to Metro. Coordinate & outreach with the 89 local jurisdictions, COCs, AQMD, SCAG, CARB, OPR, CEC other key stakeholders. Represent Metro with CARB & Climate Registry's local government & operating protocols for the development, implementation & update of a Regional Climate Change Action & Adaptation Plan.
Assist APTA, Climate Registry & CARB in developing transit/transportation industry protocols for registering carbon emissions & offsets from the transportation sector. The protocols must be adopted by the Climate Registry prior to participating in Carbon Fee or Carbon Trading programs. Represent Metro for future Protocol programs & regulations that will result in new carbon-based revenues & policies for the agency.
Assist TRB/DOT efforts to develop nationwide sustainable transportation indicators to be applied to transportation planning & programming processes. Deliverables include an adopted set of indicators for an Annual Sustainability Report to provide input for the Long Range Transportation Plan. Call for Projects & other planning & programming documents.
Staff will continue oversight of the installation of energy efficient equipment agency-wide. Coordinate and complete energy audits of all facilities. Perform baseline energy analysis.
Staff will coordinate with Bus and Rail Facilities/Operations regarding the installation of renewable energy infrastructure agency-wide. FY'09, Bus Facilities group will continue installation of Board approved capital projects. In FY'09, initiate the planning and feasibility study efforts for solar panels and energy upgrades for Rail Facilities.
Staff will oversee the implementation of a research project jointly developed through a Coalition of New California Infrastructure grant.
Staff will develop a Sustainability Design Guideline document that will be used agency-wide. Staff will incorporate Sustainability Design Guidelines into existing baseline Design and Construction guidelines as reference.
Complete Sustainable Management System implementation. Develop infrastructural needs based on process and functional changes resulting from SMS studies. Oversee the implementation of capital program.
Participate in FTA Assistance and Training Program. During the first year of this two-year program, staff will participate in training, facility audits, reporting, and program development. During the latter part of the first year of this program, staff will develop infrastructural needs based on process and functional changes resulting from the EMS audits. From thereon, staff will oversee the implementation of anticipated capital projects.