

Update of Metro Sustainability Efforts

A Report to the Ad Hoc Sustainability and Climate Change Committee

March 19, 2009



Outline

- Legislative, Planning, and Policy Efforts
- Climate Change Management
- Renewable Energy and Energy Audits
- Environmental Management Systems
- Sustainability-Related Capital Projects
- Other Related Efforts
- Questions/Discussions

Legislative, Planning, and Policy Efforts

- AB 32 Scoping Plan adopted by ARB
 - Early implementation plan activities should be in place on January 1, 2010
- Attended SB 375 SCAG Regional Workshops
 - Began collaboration with SCAG to ensure transportation projects are consistent with Sustainability Communities Strategies
 - Provided technical support to Regional Targets Advisory Committee
- Participation as a member of the LA Regional Collaborative for Climate Action and Sustainability as a Vision Team member
 - Contribute \$15,000 for initiation of regional Collaborative projects
- Began outreach process to Councils of Government regarding SB 375 sub-regional implementation
- All modal Call for Project applications have been updated to incorporate a sustainability criteria to encourage "Green" principles and strategies
- Initiated collaboration with LAUSD and the County of LA on joint energy initiatives

Climate Change Management

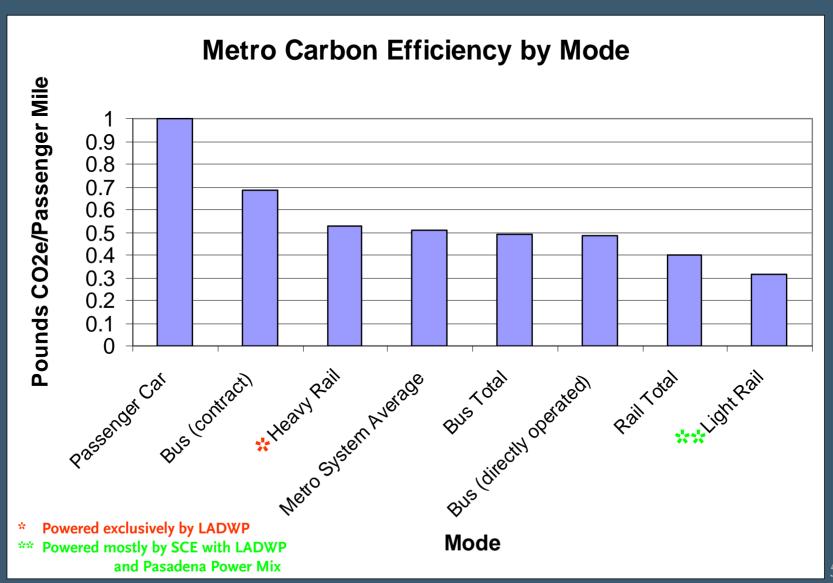
Emissions Reduction Initiatives

- Reducing bus idling time/emissions
- Upgrading Detroit Series 50 engines to Cummins 8.9 ISLG (2010 emission certified)
- Transition of Non-revenue Fleet to Hybrid powered
- Introduced six NABI hybrid 42 foot buses into service
- Upgrading non-revenue tow trucks with Emission After-Treatment Devices as part of CARB emission reduction program for government fleets

Metro Greenhouse Gas Inventory Report

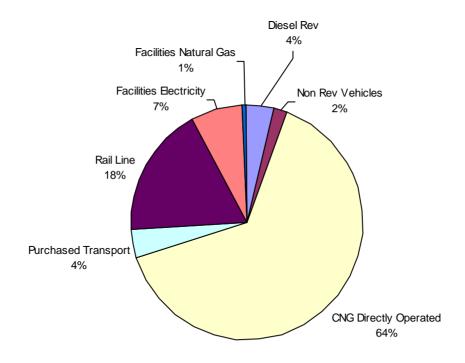
- Completed in December 2008
- Methods
 - Used 2007 as the baseline year
 - Used The Climate Registry General Protocol
 - Inventory was conducted on the basis of operational control
 - Report on carbon dioxide, methane, and nitrous oxide
 - Hydrofluorocarbons (HFCs) and Perfluorocarbons (PFCs) will be reported in the future

Greenhouse Gas Inventory



Greenhouse Gas Inventory

Metro 2007 Greenhouse Gas Emissions



Renewable Energy Update (February 2009)



MSSC Solar/Conservation Project

- •Solar Panels 100% Installed (6,720 panels)
- •Inverters and meters scheduled for late February 2009 (i.e., power is generated)
- Lighting retrofit is 85% complete
- •HVAC installation is 100% complete
- •Compressed Air System retrofit is 90% complete
- •Energy Management System is 70%
- •Forecasted completion date is July 2009 (one month ahead of schedule)

Renewable Energy Update (February 2009)







Energy Audits

- LADWP Energy Audits at Divisions 1, 8, and 15 completed
 - Upgrade of existing lighting to modern high efficiency equipment
 - Install lighting controls
 - Prevent blowers from operating during peak hours
 - Develop an energy control strategy
- Additional Energy Audits being conducted at Divisions 10 and 20

Environmental Management Systems

- Environmental Management System (EMS) Pilot at Division 10
 - Bus Wash/Surface Water Diversion Project
 - Study to improve water efficiency and effectiveness of bus cleaning process
 - Environmental Management Information System
 - Prototype being developed initially for underground storage tanks
 - Prototype completion date: April 2009

Environmental Management Systems

- FTA Assisted EMS Development at Red Line Yard
 - Fenceline study completed in November 2008
 - FTA had determined that Metro has a robust and commendable environmental program but opportunities exist
 - Staff commenced participation in Quarterly EMS sponsored workshops last January 2009
 - Representatives from bus, rail, and construction have attended
 - Final EMS assessment in end of 2009
 - Goals
 - Further improve worker environment
 - Consolidation of environmental best practices
 - ISO 14001 Certification

Sustainable Capital Projects

- Division 3 Maintenance Annex
 - Goal of LEED Silver
 - Project is 35% complete
 - Completion scheduled for May 2009





Sustainable Capital Projects

- Bauchet Street Warehouse and Facilities Maintenance Shop
 - Bids for Design/Build Contract expected March 2009
 - Start construction July 2009
 - Complete Project July 2010
 - LEED Silver Contractual requirement



Sustainable Capital Projects

- Metro Orange Line Extension
 - Implementation of sustainability principles during preliminary engineering phase
 - Explore the feasibility of renewable energy along the alignment
- Commitment in the Measure R Implementation to Incorporate Sustainability Environmental Elements

Other Related Efforts

- Green Chemicals Procurement Procedures
- Water Efficiency and Conservation Policy
- Document Summarizing Results of Sustainability Survey
 - Completed and distributed on December 2008
- Partnership with Local Educational and Other Institutions
 - Sustainability awareness training roll-out in February 2009
- Hiring of *Transportation Sustainability Energy Manager* completed
- Hiring of Transportation Sustainability Policy Manager is pending Board approval in March 2009
- Sustainability hotline: 213/922-1100 or sustainability@metro.net
- Planning for 2nd Annual Sustainability Survey
- Planning for the 2nd Annual Sustainability Summit

Questions/Discussions