



NRDC



EnviroMetro
Los Angeles' Coalition for Green, Equitable & Healthy Transportation

*EnviroMetro's Environmental Policy Priorities for
2016 LA Metro Transportation Sales Tax
AUGUST 2015*

We, the undersigned representative organizations serving the Los Angeles region, support the EnviroMetro coalition in its efforts to urge Metro to prepare a transportation sales tax measure that will reduce emissions, enhance equity, incorporate green infrastructure and integrate a network of waterway trails.

Over the next year, the Board of Directors of the LA County Metropolitan Transportation Authority (Metro) will consider bringing forth a transportation ballot measure in 2016 for a sales tax that will inform the update of the regional Long Range Transportation Plan, last updated in 2009. The specific ballot measure will include a set of proposed projects and expenditures for funds over a 30–45 year period with up to tens of billions of dollars to be collected. Approved in 2008, Measure R has improved the transportation network landscape in the region with over a hundred miles of fixed rail and bus rapid transit service serving San Fernando Valley and soon, Azusa and Santa Monica. Additionally, as a self-help region, 70% of LA's transportation funding comes from three existing sales taxes (Measures A, C and R) that support our infrastructure and services.

We encourage Metro, as the County's transportation commission, to embrace its role as the planner and administrator of the existing and growing modes of transportation, including public transit and active transportation. According to the latest data, nearly 75% of all trips in the region are done by private vehicle (shared ride and drive alone) while 17% are done walking, 5% through public transit, and 1.4% through biking.¹ A future transportation sales tax measure should have an explicit goal of increasing public transit and active transportation and lowering drive alone trips. In doing so, it should be creative and aggressive in piloting first/last mile solutions like active transportation corridors (Class I & IV bike paths) or ridesharing (bike- and carsharing). We support building a large network of public transit as an important first step in shifting the region's transportation mode use.

We also believe that transportation plays a critical role in land use, public health, and environmental outcomes in the region. Metro has an opportunity not only to transform the region's transportation system but also to help the region reduce harmful emissions from private and cargo vehicles, make streets safer to walk and bike, connect more people to jobs and recreational places, and make green infrastructure enhancements that will help address current and future climate and drought challenges. We are excited about the opportunity to work with Metro's staff and board to capitalize on the environmental, public health and placemaking benefits of transportation and transit projects.



Vision for 2016 Transportation Sales Tax

1. REDUCE EMISSIONS

Consistent with state climate policy objectives, we believe that a future transportation sales tax measure should be guided by the explicit goal of reducing greenhouse gas (GHG) emissions from the transportation sector relative to 1990 levels (1990 levels by 2020, 40% below by 2030, 80% below by 2050). Preference should be given to transportation projects that reduce GHG, are GHG neutral or enhance the region's multimodal network. Projects that increase the efficiency of our existing infrastructure such as converting freeway lanes to HOV or express lanes, bus rapid transit, dedicated bikeways, grand boulevards and complete green streets are acceptable. However, no projects that induce additional vehicle travel, such as most new freeways or additional roadway capacity projects, should be funded

Guided by AB 32, California is on its way to reduce GHG emissions to 1990 levels by 2020. Governor Brown's Executive Order (April 2015) set a target of 40 percent GHG reduction by 2030. Additionally, Governor Brown declared that California must cut its petroleum use by 50 percent by 2030 in order to meet federal air quality standards and climate goalsⁱⁱ. The Air Resources Board (ARB) includes reduction in the growth in vehicle miles traveled as a critical policy strategy as well as fuel efficiency and smart land use planning as tools to achieve the petroleum use reduction goal.

According to ARB, the transportation sector – the system for moving people and goods – is the State's largest emitter of greenhouse gases (GHG). In 2012, ARB found that transportation emits 37 percent, far outpacing the runner up (industrial sector)ⁱⁱⁱ. More recently, a UCLA report showed that transportation is LA County's second largest GHG emitter (33.5%)^{iv}. The South Coast Air Quality Management District (AQMD) provides a starker statistic showing that the transportation sector accounts for up to 85 percent of criteria and ozone precursor emissions (VOCs, NOX, CO, SOX, PM 2.5) in the South Coast Basin^v. Much of LA County is within the South Coast Basin, thus its residents are heavily impacted by these statistics and policies in response to them.

The region's largely outdated auto-centric transportation system created a culture of single occupant vehicle travel that chokes Angelenos in endless traffic congestion and air pollution. According to the LA County Asthma Coalition: "Asthma rates have gone up over the last decade for both Hispanic and non-Hispanic Black children." "Black children have the highest rates of asthma (25%) compared to Hispanic children (8%), non-Hispanic White children (7%), and Asian/Pacific Islander children (4%)." "Among adults, non-Hispanic Blacks have the highest rates of asthma (10%), followed by non-Hispanic Whites (8%), Hispanics and Asian/Pacific Islanders (5%)." ^{vi}. As the Centers for Disease Control (CDC) unequivocally states, "exposure to traffic emissions has been linked to many adverse health effects including: premature mortality, cardiac symptoms, exacerbation of asthma symptoms, diminished lung function, increased hospitalization..." ^{vii}

Not surprisingly, the CDC's recommendations to improve air quality include greater investment in public transit and strategies to boost transit ridership, encouraging transit oriented development, implementing congestion reduction initiatives, reduction of vehicle miles traveled,





Transforming Youth. Enhancing Communities.



KOREATOWN YOUTH+ COMMUNITY CENTER



expansion of multimodal transportation resources including investment in pedestrian and bike paths, dedicated bus lanes and cleaning up diesel vehicles, among several other ideas^{viii}. Elevating the importance of expanding the multimodal transportation system in LA County, a report by the University of California and the Institute for Transportation and Development Policy found that a significant shift to public transit and active transportation – coupled with a decrease in road construction, parking garages, and other ways in which car ownership is encouraged – can reduce urban passenger transportation CO2 emissions by 40 percent and save over \$100 trillion in operation costs by 2050 even as urban population growth continues.^{ix} We believe that Metro is headed in this direction and strongly encourage you to shift your efforts into high gear. We are excited about the launch of the bike share program, deployment of Zipcars on ten Metro stations^x, and your implementation of the award winning First/Last Mile strategy.

Emissions Reduction from Clean Goods Movement

Furthermore, ARB recently underscored the urgent need to transition to a zero emissions freight system^{xi}. While current regulations and clean air programs will reduce statewide NOx and PM 2.5 emissions from the freight sector by over 50 percent by 2020, those benefits will be short lived as growth in freight activity is expected to gradually overcome the benefits of current controls (Ibid, 11-12). Moreover, in the South Coast AQMD region—home of the largest port complex in the nation—meeting upcoming federal clean air standards for ozone and PM 2.5 will require significant additional emissions reductions over the next fifteen years (Ibid, 13). To achieve these goals, “California must take effective, well-coordinated actions to transition to a zero emission transportation system for both passengers and freight.”(Ibid, 1) Further, new health science indicates that “infants and children are 1.5 to three times more sensitive to the harmful effects of exposure to air toxics, like those emitted from freight equipment, than we previously understood...”(Ibid, 2). Therefore, we believe that a future transportation sales tax ought to target funds for deployment of existing zero or near zero emissions freight technology, explore local pick up/delivery at the ports, and investments to existing freight technologies such as on-dock rail and grade separations to the existing freight rail system.

Metro value – “Sustainability: We commit to reduce, re-use and recycle all internal resources and reduce greenhouse gas emissions.”^{xii}

2. ENHANCE EQUITY & PUBLIC HEALTH

Enhance Equity and Improve Health Outcomes of Region’s Transportation System, in particular for “Disadvantaged Communities” (DACs) – Target Funding, Prioritize Multi-benefit Projects, and Avoid Substantial Burdens.

- *Consistent with the state legislation (SB535) directing funding to DACs, we believe that Metro should have a specific policy to target funding to the most impacted communities in the county.*
- *Identify top disadvantaged communities (DACs) for transportation investments based on CalEnviro Screen 2.0’s calculations.*



As Metro considers the project package to be included in a future measure, it is important that communities most impacted by localized air pollution from highway and high volume roadway traffic as well as pedestrian and biking accidents not be additionally burdened by the many known health risks of such exposure.

We concur with Manuel Pastor's (et al.) definition of transportation equity – having equitable access to quality, affordable transportation options to employment, recreation, school, services, and cultural/natural destinations; sharing the benefits and burdens of transportation system and investments; and being a partner in the planning process leading to shared decision-making and equitable outcomes^{xiii}.

Ridership & Transportation Impact Demographics

Metro's rider survey shows that a majority of transit riders are people of color whose median incomes are below the county's median^{xiv}. While this is true for both modes, a higher portion of bus riders (86%) are people of color compared to rail riders (77%). Additionally, bus riders have lower incomes and lower levels of car ownership than rail riders. As Metro expands the public transportation network and seeks to attract new riders, we believe that it should also strive to improve service, including maintaining low fares and increasing operations, for its current ridership, 75 percent of whom ride buses.

In Los Angeles County, low-income communities and communities of color are exposed to the highest rates of transportation-generated pollution and consequently suffer from higher rates of asthma, COPD, obesity, and other chronic illnesses. Ozone concentrations, diesel Particulate Matter (PM) emissions, and traffic density are three of the pollution burden indicators used in CalEnviro Screen's score for a community's level of exposure to cumulative localized air pollution^{xv}. Many of the census tracts in LA County are among the top 25% of the state's "disadvantaged communities" as defined by California EPA, including regions not served well by public transit such as the San Gabriel and San Fernando valleys as well as East LA and South East LA county.

Target Spending to Decrease Localized Air Pollution, UHI vulnerability, and Increase Access

Current predictions show that LA County residents will experience more days with extreme heat, both raising the threat of urban heat island (UHI) effect and increased ground level ozone levels from transportation and other sources. Given its extensive network of bus stops in the region, Metro should prioritize multi-benefit projects such as cool pavements and coatings, increased tree canopy, and shaded transit stops which will help cool down entire neighborhoods, reduce UHI, and improve air quality. According to data from the National Weather Service, on average, heat kills more people annually than any other weather disaster.^{xvi} Thus, projects that lower the heat index have the potential to reduce the number of heat related mortalities and hospitalizations.

We believe that Metro should require that every new transportation project demonstrate how it will lower, not add to, the localized air pollution in DACs. Furthermore, future projects should mitigate against the displacement of local businesses or people of color and low-income residents (e.g. affordable housing set asides for transit-oriented development). Displacement protections have a clear GHG-reduction nexus. A recent ARB report found investing in sustainable



communities, including affordable housing near transit, yields high environmental, health, and economic co-benefits.^{xvii}

Low-income communities and communities of color disproportionately lack access to green space in the county, and transportation is a significant barrier for many residents to access existing state and national parks in the region. Metro has the opportunity to connect many underserved Angelenos to the region's incomparable natural resources such as the San Gabriel Mountains National Monument and Santa Monica Mountains, and to enhanced employment and healthy recreational opportunities by providing low cost public transit and active transportation options. We encourage Metro to work with local governments in building out a comprehensive active transportation network, including safe routes to schools plans for each school district within Metro's service area, required pedestrian safety plans for every city, and low cost/time efficient "Transit to Trails program" public transit to community, regional parks and national recreation areas. Los Angeles needs a multimodal transportation system that works on Saturday, Sunday and holidays – not just weekdays.

Metro value – "Service Excellence: We commit to provide safe, clean, reliable, on-time, courteous service for our clients and customers."

3. INTEGRATE NATURAL ASSETS INTO FIRST/LAST MILE STRATEGY

The region's urban river corridors are strategically located to serve as key non-vehicular transportation, safe routes to school corridors and first/last mile connections providing a multi-objective green infrastructure network for the benefit of millions of residents throughout the basin. Located within close proximity to all major transportation stops, they connect schools and businesses to public transportation networks and hubs and are complementary to the public transit system. Systematically developing non-vehicular transportation along urban river corridor infrastructure presents an opportunity to advance active transportation in a space that was previously underutilized, where there is essentially no competition with other modes of transportation. We call on Metro to commission a comprehensive plan for implementation of a Los Angeles basin-wide active transportation network inclusive of a waterway network of trails along the Los Angeles, San Gabriel, and Rio Hondo Rivers, Tujunga Wash, Arroyo Seco and Wide Waterway Trail Network, which we advocate completing within the first 20 years of the transportation measure funding. This trail network will be complementary to proposed metro line extensions and also serve as key access to connect urban residents to public schools, community centers, workplaces, natural lands, and local, state and national parks and forests. Urban River transit corridors are a backbone hallmark of most great metropolitan areas of world.

4. INCORPORATE GREEN INFRASTRUCTURE

Incorporate Green Infrastructure & Biological Mitigation for Metro & Local California is experiencing an historic drought, leading both Governor Brown and LA Mayor Garcetti to issue significant water conservation mandates. Should voters approve a transportation sales tax, Metro will have the opportunity to continue the largest public works construction campaign in the nation. In 2011, the Metro Board became a national industry leader when it unanimously approved its green construction policy, signaling its leadership to tackle air emissions from Measure R construction related activities^{xviii}. In at



myriad community benefits opportunities that could come from transit expansion plans. Two benefits are water quality and water supply improvements.

In LA County, stormwater runoff carries metals, bacteria, pesticides, fertilizer, grease, and trash across 3100 miles of street surfaces and 5500 miles of stormwater pipelines. The discharges plague the waters surrounding us such as the Los Angeles and San Gabriel Rivers, their many tributaries, creeks, and ultimately the Pacific Ocean daily.

In recent years, stormwater runoff has been recognized as a potential supply, particularly for outdoor irrigation. With the proper capture and filtration devices, studies show that LA County could capture a little more than 150,000 AF in dry years and up to 700,000 AF in wet years. Especially during drought years when every drop counts, it makes perfect sense to capture as much stormwater runoff as possible.

It should be noted that a stormwater element in transportation plans is not unprecedented in Southern California. The Orange County Transportation Authority incorporated stormwater funding into the renewal of transportation funding measure. In 1990, OC voters approved Measure M, a 20-year program for local transportation improvements funding by a half-cent sales tax. In 2006, OC voters approved a continuation of Measure M, extending the conclusion of this sales tax another 30 years. Two percent (2%) of gross revenues (estimated at \$327 million over 30 years) will be set aside to help OC municipalities improve water quality, including capital and operations improvements. Additionally, all new transportation projects will include water quality mitigation as part of the project scope and costs. Not only is it imperative for us to save water but also extremely important to design and build public projects that will capture and manage stormwater to recharge groundwater sources and increase the supply of water for some of our non-potable needs, making our region more drought resilient.

Therefore, we believe that Metro should amend its “Green Construction Policy” to incorporate integrated water management features such as stormwater runoff capture and management as well as permeable surfaces into the design and construction of all rail, bus rapid transit, arterial or highway improvements and other projects such as TOD, joint development projects, maintenance facilities, and parking lots. To assist Metro, the Board should cooperate with and require local municipalities to capture and infiltrate stormwater based on analysis of permeable soil per their legal duties.

While we recognize the importance of allocating funds for local government use (Local Return), we believe that Metro should establish the goals of stormwater runoff capture and management as guidelines for the expenditures of Local Return. Additional goals should include active transportation investments, first/last mile investments including bike sharing and car sharing programs, complete streets infrastructure, safe routes to school or public demand response systems. Programs like complete streets have the added benefits of incorporating stormwater retention practices and contributing to shaded passage ways which reduce the heat island effect and improve air quality.

Protecting Natural Habitats from Construction Impact

Similarly, transportation construction will impact natural habitats and Metro should be proactive in mitigating this. We recommend instituting a robust and comprehensive Regional Advance

Mitigation Program, such as those already used successfully in Riverside, San Diego, and Orange County transportation sales tax measures. In the context of the Metro Long Range Transportation Plan and related funding measures, we propose that Metro coordinate with relevant regional planning entities like the Southern California Association of Governments in the creation of a regional GIS Green Infrastructure database and plan inclusive of following county-wide data layers: Transportation Projects, County-wide Habitat Assessment, Open Space & Parks Networks, Water Resources & Stormwater Management, Air Quality, Climate Mitigation, Urban Forest and Heat Island. Subsequently every project should be reviewed, scored and prioritized for funding and implementation based on alignment with the Basin-wide Green Infrastructure Plan. The goal of this process is to facilitate alignment between key Public Agencies responsible for long term planning and implementation of infrastructure throughout the LA Basin to ensure a balance of grey and green infrastructure.

Metro value – “Sustainability: We commit to reduce, re-use and recycle all internal resources and reduce greenhouse gas emissions.”

We look forward to working with the Metro Board and Committee members to craft a transportation measure that will help meet CA's strong GHG and air quality goals, as well as our aspirations for public health, equity, and green infrastructure development, to improve the quality of life for all residents and create a more sustainable, healthy and livable Los Angeles County.

Sincerely,

Jonathan Parfrey
Executive Director, Climate Resolve

Fernando Cazares
LA Regional Coordinator, Natural Resources Defense Council (NRDC)

Claire Robinson
Managing Director, Amigos De Los Rios

Wesley Reutimann
Executive Director, Bike San Gabriel Valley

Belinda V. Faustinos
Interim Executive Director, Council for Watershed Health; San Gabriel Mountains Forever

Daniel Rossman
California Senior Regional Representative, The Wilderness Society

Tori Kjer
Los Angeles Program Director, The Trust for Public Land

D. Malcolm Carson
General Counsel and Policy Director of Environmental Health, Community Health Councils

Jessica Meaney

Managing Director, Investing in Place

Caryn Mandelbaum
Fresh Water Program Director, Environment Now

Dan Silver
Executive Director, Endangered Habitat League

Tamika Butler
Executive Director, Los Angeles County Bicycle Coalition

Laura Muraida
Research Coordinator, SCOPE

Jill Sourial
Urban Strategies Program Director, The Nature Conservancy

Alina Bokde
Executive Director, Los Angeles Neighborhood Land Trust

Maria Camacho
Director of External Affairs, LA River Revitalization Corporation

Will Wright, Hon. AIA LA
Director, Government & Public Affairs, American Institute of Architects/ Los Angeles Chapter

Viviana Franco
Executive Director, From Lot to Spot

Mike Meador
CEO, California Greenworks, Inc.

Christy Zamani
Executive Director, Day One

Luis Gutierrez
Senior Associate, Leadership for Urban Renewal Network (LURN)

Graham Hamilton
Executive Committee Chairman, Surfrider Foundation, West LA/Malibu Chapter

Will Allen
Vice President, Conservation Planning and Integrated Services, The Conservation Fund

Krista Kline
Managing Director, Los Angeles Regional Collaborative for Climate Action & Sustainability

Bert Ball
Executive Director, L.A. SHARES

Veronica Padilla
Executive Director, Pacoima Beautiful

Deborah Weinstein Bloome
Senior Director for Policy, TreePeople

Sandra McNeill
Executive Director, T.R.U.S.T. South LA

Wendy Butts
Chief Executive Officer, LA Conservation Corps

Jack Sahl
Executive Director, Friends of the Angeles

Scott Chan
Program Director, Asian and Pacific Islander Obesity Prevention Alliance (APIOPA)

Bill Sadler
Southern California Regional Policy Manager, Safe Routes to School National Partnership

Miguel Luna
Executive Director, Urban Semillas

Timothy J. O'Connor
Senior Attorney / Director, California Climate Initiative, Environmental Defense Fund

Johng Ho Song
Executive Director, Koreatown Youth and Community Center

Nancy Mahr
President, League of Women Voters of Los Angeles County

Daniel Oaxaca
Executive Director, San Gabriel Valley Conservation Corps

Robert García
Founding Director and Counsel, The City Project

Anabella Bastida
Executive Director, Consejo de Federaciones Mexicanas en Norteamérica (COFEM)

Francisco Moreno
Communities Director, Consejo de Federaciones Mexicanas en Norteamérica (COFEM)

Blair Miller
Leader, Pasadena Complete Streets Coalition

Roxana Tynan
Executive Director, Los Angeles Alliance for a New Economy (LAANE)

Sharyn Romano
CEO/Founder, Los Angeles Beautification Team

Carlos Vasquerano
Executive Director, Salvadoran American Leadership and Education Fund (SALEF)

Antonio Gonzalez
President, William C. Velasquez Institute (WCVI)

Bonnie Holmes-Gen
Senior Director, Air Quality and Climate Change, American Lung Association in California

Andy Mannle
VP Strategic Development, Promise Energy

Mark Masaoka
Policy Director, Asian Pacific Policy & Planning Council (A3PCON)

Jesse N. Marquez
Executive Director, Coalition for a Safe Environment (CFASE)

Chuck Mills
Director, Public Policy & Grants, California ReLeaf

Tim Brick
Managing Director, Arroyo Seco Foundation

Dennis Arguelles
Los Angeles Program Manager, National Parks Conservation Association

Lewis MacAdams
President, Friends of the Los Angeles River (FOLAR)

Scott Thach
Vice President of Education, Alliance to Save Energy

Jeanie Ward-Waller
Policy Director, California Bicycle Coalition

Rita Kampalath
Science and Policy Director, Heal the Bay

Fabiola P. Lao
Deputy Policy Director, Coalition for Clean Air

Michelle Kinman
Clean Energy Advocate, Environment California

Melanie Winter
Director, The River Project

Darrell Clarke and Jerard Wright
Transportation Co-Chairs, Sierra Club Angeles Chapter

Ryan Wiggins

Cap and Trade Campaign Manager, TransForm

Wendy Alfsen
Executive Director, California Walks

Laura R. Cohen
Director, Western Region, Rails-to-Trails Conservancy

Jerry Schubel
President and CEO, Aquarium of the Pacific

ⁱ Safe Routes to School. Analysis Brief – Travel in LA County. Website accessed June 12, 2015 https://saferoutescalifornia.files.wordpress.com/2012/08/travel-in-la-county_nhts2009.pdf

ⁱⁱ California Air Resources Board. California’s 2030 Climate Commitments – Cutting Petroleum Use in Half by 2030. Website accessed June 8, 2015. http://www.arb.ca.gov/newsrel/petroleum_reductions.pdf

ⁱⁱⁱ California Air Resources Board. California Greenhouse Gas Inventory. Website accessed June 7, 2015 http://www.arb.ca.gov/cc/inventory/inventory_current.htm

^{iv} Mark Gold, Stephanie Pinceti, Felicia Federico. 2015 Environmental Report Card for LA County. UCLA Institute of the Environment and Sustainability. <http://www.environment.ucla.edu/perch/resources/report-card-2015-energy.pdf>

^v South Coast AQMD. 2012 Air Quality Management Plan. Site accessed July 14, 2015. [http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-\(february-2013\)/chapter-3-final-2012.pdf](http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-(february-2013)/chapter-3-final-2012.pdf)

^{vi} Los Angeles County Asthma Coalition. Asthma Fast Facts. Website accessed June 8, 2015. <http://www.asthmacoalitionla.org/>

^{vii} U.S. Centers of Disease Control. CDC Transportation Recommendations. April 2010. Website accessed June 7, 2015. <http://www.cdc.gov/transportation/recommendation.htm>

^{viii} “Improve Air Quality” section, Page 3. Ibid.

^{ix} Michael A. Replogle & Lewis M. Fulton. A Global High Shift Scenario: Impacts And Potential For More Public Transport, Walking, And Cycling With Lower Car Use. Executive Summary (P.5). Institute for Transportation & Development Policy and UC Davis. November 2014. https://www.itdp.org/wp-content/uploads/2014/09/A-Global-High-Shift-Scenario_WEB.pdf

^x LA Metro, The Source. “More Zipcars coming to Metro stations.” <http://thesource.metro.net/2015/05/29/zipcar-adds-more-car-sharing-locations-near-metro-station/>

^{xi} California Air Resources Board. Draft CARB Sustainable Freight: Pathways to Zero and Near-Zero Emissions (April 2015)

^{xii} LA County Metropolitan Transit Authority. Who We Are: Vision, Mission & Values. Website accessed June 8, 2015 (<http://www.metro.net/about/agency/mission/>)

^{xiii} Vanessa Carter, Manuel Pastor, Madeline Wander. An Agenda for Equity: A Framework for Building a Just Transportation System in Los Angeles County. Commissioned by the California Endowment, USC Program for Environmental and Regional Equity. November 2013

^{xiv} LA Metro. Results for Metro’s biannual onboard survey. May 6, 2014 <http://thesource.metro.net/2014/05/06/results-for-metros-biannual-onboard-survey/>

^{xv} Matthew Rodriguez (CA EPA Secretary) & George V. Alexeeff (OEHHA Director) California Communities Environmental Health Screening Tool, Version 2.0. Office of Environmental Health Hazard Assessment. October 2014. <http://oehha.ca.gov/ej/pdf/CES20FinalReportUpdateOct2014.pdf>

^{xvi} Natural Weather Service - Office of Climate, Water and Weather Services. Weather Fatalities, 2004-2013. Website accessed July 14, 2015. <http://www.nws.noaa.gov/om/hazstats.shtml>

^{xvii} California Air Resources Board, Cap-and-Trade Auction Proceeds: Benefits of Investments in the Proposed Fiscal Year 2014-15 Budget (CARB, 2014).

^{xviii} Steve Hymon. Metro Board approves green construction policy. LA Metro Source. Website accessed June 10, 2015. <http://thesource.metro.net/2011/08/04/metro-board-approves-green-construction-policy/>