

ECSD PROGRAM AND INITIATIVE STATUS UPDATE (Since September 2016 Response to Board Motion 57)

| Reference # | In Development | Completed | Continuous Improvement | Board Motion 57 Related Items | Year Initiated | Current Status | Completion Date | Comments | SC(1) | Motion 57 Reference (2)(3)(4)(5)(6)(7)(8) | Reference Back to FY19 Initiatives |
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| | | | | | | | | | | | |
| CLIMATE CHANGE & RESILIENCY | | | | | | | | | | | |
| | ISO 14001:2015 Certification and Implementation | | | | | | 2017 | Basis for the implementation of Metro Environmental Policy and other environmental and sustainability efforts for continual improvement. | * | E | |
| 1 | Design and Implement an Enterprise-Wide EMS solution for all facilities | | | | 2009 | | 2018 | EMS successfully implemented on 19 operating Divisions and three major capital projects. Evaluating the addition of three new support facilities over the next three years. | * | E | |
| 2 | Develop guiding document and integrate Climate Change into EMS | | | | 2017 | | 2019 | Climate change has been added to the Context of the Organization; guidance document for integrating climate change efforts into the EMS is not complete. | * | E | |
| 3 | Integrate EMS into construction activities | | | | 2016 | | 2018 | The Crenshaw LAX project was certified to ISO standards in 2017. Began implementation of EMS on PLE1 and Regional Connector late 2017. Ongoing evaluation of candidate construction projects to add to the EMS. | * | E | |
| 4 | Incorporate EMS into Risk Assessment/Management | | | | 2017 | | 2019 | Had been in discussions with Project Management Risk Management staff and QA staff on incorporating the ISO 14001 Environmental Management System principles as a risk reduction strategy. | | E | |
| Resiliency Framework | | | | | | | | | | | |
| 5 | Resiliency Indicator Framework Report | | | | 2014 | | 2018 | Being updated per Cris' request. Due by end of 2018. | | A4 | Resiliency |
| 6 | Develop a Water Conservation Program | | | | 2015 | | 2019 | Program is being managed with specific projects aimed at conserving water at Divisions and in ROWs | * | B4 | |
| 7 | Develop a NOx Emissions Reduction Program | | | | 2008 | | 2017 | 89% reduction in NOx emissions from bus fleet | * | A1 | Climate Action Plan Update |
| 8 | Develop a CO2e Emissions Reduction Program | | | | | | 2017 | 25% reduction in CO2e emissions | | A3 | Climate Action Plan Update |
| 9 | Complete an updated study on flooding, rising seas levels, and high heat | | | | 2017 | | 2019 | Update to initial flood, sea level and high heat maps initiated as part of CAAP update. | * | A4 | Climate Action Plan Update, Resiliency |
| 10 | Review Asset Management Framework/Tool | | | | 2017 | | 2019 | Being conducted as part of CAAP update. | | A4 | Climate Action Plan Update |
| Climate Action & Adaptation Plan (CAAP) | | | | | | | | | | | |
| 11 | Create a CAAP working group | | | | 2017 | | 2019 | Working group updating CAAP | * | A2 | Climate Action Plan Update |
| 12 | Develop an Energy and Sustainability Policy | | | | 2007 | | Jun-07 | Board approved on June 28, 2007 | * | A4 | |
| 13 | Develop a CAAP | | | | 2017 | | 2019 | Initial CAAP was completed in 2012. The update will be completed in 2019 | * | A2 | Climate Action Plan Update |
| 14 | Develop Greenhouse Gas Emissions Cost Effectiveness Study | | | | | | 2012 | While completed, study is underway to include new cost and environmental benefits monetization framework. This effort is separate from the CAAP. | * | A2 | |
| 15 | Develop a Biomethane Implementation Study | | | | 2012 | | Jun-13 | Board approved in June 2013. Metro executed first biomethane supply contract in August 2017. This effort is separate from the CAAP. | * | A1 | |
| 16 | Develop a LCFS Market Analysis and Revenue Optimization Plan | | | | 2014 | | May-14 | Board approved in May 2014. This effort is separate from the CAAP. | * | A1 | |
| 17 | Implement Environmental Liability Assessment and Reporting | | | | | | | METRO Policy Gen 49 covers this and is an ongoing annual activity. This is separate from the CAAP update. | | A3 | Climate Action Plan Update |
| Metro Board Motion (2016-0157) | | | | | | | | | | | |
| 18 | Increase agency infrastructure resiliency | | | | 2017 | | 2019 | Assessment of agency-wide resiliency plans are in development. Framework will be presented to the Board in late Fall 2018/Winter 2019. | | A3, E | Resiliency |
| Metro's Urban Greening Implementation Action Plan | | | | | | | | | | | |
| 19 | Project-specific Sustainability Coordinator | | | | 2016 | | 2028 | Each capital project is assigned a sustainability coordinator. Efforts are being made to include ECSD in the planning process to ensure that sustainability is integrated into the project scope, schedule and budget | * | B3 | |
| 20 | Increase the number of Urban Greening projects | | | | 2016 | | 2019 | Assessments and white paper being created to determine breadth and scope of urban greening opportunities; Initial rough order magnitude to implement completed | * | B4 | |
| Regional Advance Mitigation Planning (RAMP) Document | | | | | | | | | | | |
| 21 | Metro Regional Advance Mitigation Needs and Feasibility Assessment | | | | 2017 | | 2018 | Assessment document provided to the Metro Board in July 2018. | * | E | |
| 22 | Develop White Paper: Integrating Mitigation, Carbon Sequestration and Ecosystem Services at Community Relevant Scales | | | | 2017 | | 2018 | Being updated to reflect urban greening opportunities. | | E | |

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| 23 | Develop opportunities for zero/near zero emission technologies | 2016 | | 2025 | Investigating and implementing clean fuel technologies. Working with the Vehicle Engineering & Acquisition group to review technologies, negotiate rates and assess power infrastructure requirements. | * | D3 | |
| | Green Procurement Policy, Framework and Implementation | 2018 | | 2019 | Developing draft framework and policy. To be completed by Spring 2019 | * | B2 | |
| 24 | Sustainable Purchasing Guidelines for Gateway | 2018 | | 2019 | Task order in process and initial stages of this project in beginning phases of research | | B2 | Green Procurement |
| | Metro Sustainability Implementation Plan (MCIP) | 2018 | | 2019 | Draft MSIP outline discuss with Cris on 8/15/2018. As discussed, the MSIP update will proceed in conjunction with the development of the CAAP. | | A, C | |
| 25 | Revise and update plan from 2008 | 2018 | | 2019 | Draft MSIP outline discuss with Cris on 8/15/2018. As discussed, the MSIP update will proceed in conjunction with the development of the CAAP. | | A, C | Climate Action Plan Update |
| | LACMTA Green Construction Policy specification | | | | | | | |
| 26 | Revise the LACMTA Green Construction Policy specification | 2016 | | 2019 | Coordinating efforts with V/CM and Project Management | | B, D | Green Procurement |
| 27 | Decarbonization/Reduce onsite fuel use by 25% | 2017 | | 2020 | Ongoing requirements to reduce onsite fuel during construction | | B, D | Green Procurement |
| | Metro Climate Vulnerability and Risk Assessment | 2016 | | | | * | A | |
| 28 | Update document to meet current standards | 2017 | | 2019 | In development. Covered in the 2012 CAAP and being updated for ~2019 CAAP | * | A | Climate Action Plan Update, Green Procurement, Resiliency |
| | Update and Rebaseline the Metro Rail Design Criteria (MRDC) | 2017 | | 2018 | Project was completed in 2017. To be rebaselined in 2018 | | A, B, C, D | Climate Action Plan Update, Green Procurement, Resiliency |
| 29 | Update baseline to cover new requirements, regulations and standards | 2016 | | 2018 | Reviewing/incorporating new requirements, e.g., ASCE PS 556: Owners' Commitment to Sustainability, into MRDC. | | A, B, C, D | Climate Action Plan Update, Green Procurement, Resiliency |
| | Update and Rebaseline the Bus Rapid Transit (BRT) | 2017 | | 2018 | BRT MRDC has been updated and is being reviewed by Metro Planning | | A, B, C, D | Climate Action Plan Update, Green Procurement, Resiliency |
| 30 | Update baseline to cover new requirements, regulations and standards | 2017 | | 2018 | Futher revision might be required after Metro Planning review | | A, B, C, D | Climate Action Plan Update, Green Procurement, Resiliency |
| | Create relationships with external stakeholders regarding climate change | | | | | | | |
| 31 | Engage external stakeholder regarding industry standard best practices | 2016 | | 2020 | Through the Sustainability Council, technology partners, consultants, vendors and the development of the CAAP, engaging with external engagement has been a focus for sustainability at ECSD | * | E | |
| | Establish a program for compiling new technologies and engineering solutions | 2016 | | 2020 | Ongoing evaluation of technologies for integration into the metro system. We have not developed a system for cataloging and evaluating. In partnership with other Metro departments and organizations including outside organizations like LA Cleantech Incubator, currently ad hoc. | | D1 | |
| 32 | Develop a process for to catalog and evaluate new technologies | 2016 | | 2019 | Currently ad hoc through a number of lists in various departments including ECSD, OEL, and across Metro. | | D1 | |
| | Develop an Annual Sustainability Report (Energy and Resources Report) | | | | | | | |
| 33 | Compile a report that illustrates all the data pertaining to Metro's sustainability achievements | 2016 | | 2018 | Published 2018 Energy & Resource Report in July 2018 | * | A, B, C, D | Climate Action Plan Update, Green Procurement, Resiliency |
| | Maintain Metro's Environmental Training Institute (ETI) | 2013 | | | In place as part of Metro Environmental Management System | * | D1 | |
| 34 | On-going program management and support will be provided for the ETI | 2016 | | 2018 | Continually updating modules and working on new modules for internal awareness and training of regulatory issues; trained more than 700 and certified more than 400 Metro employees and stakeholders since 2017. | * | D1 | |
| | Incorporate Sustainability plans into metro's Project Development Plans | | | | | | | |

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| 35 | Sustainability Plans will be incorporated into project development for ALL construction projects | 2016 | Green | 2018 | ECSD is continually working with Project Management and Construction staff to enforce the development and implementation of sustainability plan. | * | B, C | | | | | | | | | |
| Strengthen and Expand Metro's Green Construction Policy (GCP) | | | | | | | | | | | | | | | | |
| 36 | Review GCP to identify opportunities to expand and strengthen Specifications Section 01 35 66 | 2016 | Purple | | Continually being improved and updated. | * | B, C | Climate Action Plan Update, Green Procurement, Resiliency | | | | | | | | |
| Update and Implement Metro's Sustainability Program and Project Plan | | 2016 | Purple | | | | | | | | | | | | | |
| 37 | Ongoing management and support for the sustainability program and projects | 2016 | Purple | | ECSD management and staff are dedicated to supports Metro's sustainability programs and projects, both on Capital projects and O&M | * | B, C, E | | | | | | | | | |
| References: (1) Presented to the Sustainability Council either as a stand alone item or part of an overall related report. (2) Refer to Board Motion Item #57 by Garcetti, Kuehl, Ridley-Thomas, Solis, and Bonin Dated February 18, 2016. (3) Each of the codes below refer to the items in Motion Item #57. (4) Item "A" refers to climate change and resiliency (5) Item "B" refers to sustainable infrastructure strategies (6) Item "C" refers to transit connectivity activities (7) Item "D" refers to green technology and partnerships (8) Item "E" refers to Metro Environmental Compliance and Sustainability activities | | | | | | | | | | | | | | | | |

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| ENERGY | | | | | | | | | | | | | | | | |
| 38 | Energy Management Action Plan (EMAP) | 2016 | | | Working through this process within the EMS. Completing an Energy Resiliency White Paper to feed into a Metro Resiliency Policy. | | D | | | | | | | | | |
| Metro Board Motion (2016-0157) | | | | | | | | | | | | | | | | |
| 39 | Reduce facility energy use/cost by 2020 | 2017 | | 2020 | Developing baseline for energy-use intensity to account for facility growth | * | D | | | | | | | | | |
| 40 | Increase fuel efficiency | 2015 | | 2020 | ZEV transitions will increase fuel efficiency | * | A4, D | Resiliency | | | | | | | | |
| 41 | Increase energy efficient lighting | 2010 | | 2020 | Various lighting upgrades in progress | * | A4, D | Resiliency | | | | | | | | |
| 42 | Increase Propulsion and Auxiliary Systems | 2013 | | | Developed a Sustainable Rail Plan in 2013 that identifies opportunities for address these issues. Several pilots have been completed at the Red/Purple Line and Gold Lines with others underway. | | A4, D | Resiliency | | | | | | | | |
| 43 | Implement alternative energy generation technology | 2014 | | | Developing PPA project and supporting other Metro renewable energy installation projects | * | A4, D | Resiliency | | | | | | | | |
| Electric Vehicle (EV) Charging Program | | | | | | | | | | | | | | | | |
| 44 | Conduct feasibility study focusing on conversion of non-revenue vehicles to EV | 2016 | | Dec-16 | Project was completed | * | A3, A4, A5, D | Climate Action Plan Update | | | | | | | | |
| 45 | Conduct feasibility study of zero emission vehicles to grid (V2G) | 2018 | | Sep-18 | Metro consultant is finalizing report. December 2018. | | A3, A4, A5, D | Climate Action Plan Update | | | | | | | | |
| 46 | Develop EV Charger Implementation Plan | 2018 | | Oct-18 | Metro consultant is continuing to conduct interviews and develop report | | A3, A4, A5, C, D | | | | | | | | | |
| Bus Electrification Program | | | | | | | | | | | | | | | | |
| 47 | Provide ongoing and as-needed support | 2017 | | 2020 | Participating in regular coordination meetings with Vehicle Technology and Acquisition | * | A1, A2, A3 | | | | | | | | | |
| 48 | Develop Rate analysis and structure - Resiliency | 2015 | | | Participating in regular coordination meetings with utility partners to identify opportunities. | | A4, D, E | Resiliency | | | | | | | | |
| 49 | Develop Bus Division Energy Resiliency Site Analysis and Planning | 2016 | | 2017 | White Paper completed by Metro consultants. Initiating next phase for implementation | | A4, D, E | Resiliency | | | | | | | | |
| Gateway LED Lighting and advanced lighting controls | | | | | | | | | | | | | | | | |
| 50 | Retrofit Building LED Lighting and advanced lighting controls | 2013 | | 2019 | Completed audits in 2016. Developed specifications in 2017. A building survey to develop As Built drawings was conducted in July/August 2018; final As Built drawing to be completed by September 2018. RFP package is being finalized. | | A4, D, E | | | | | | | | | |
| 51 | Retrofit Garage LED Lighting Retrofit | 2017 | | 2018 | Project is underway to be completed by December 2018 | | A4, D, E | | | | | | | | | |
| 52 | Parking Structure Lighting Upgrades | 2017 | | 2018 | Project is over 50% complete (four parking structures - not gateway) | | A4, D, E | | | | | | | | | |
| 53 | Central Maintenance Facility Building 5 Air Scrubber | 2016 | | 2018 | Finalizing solicitation package. Pre-Bid Conference and Job Walk scheduled for August 29, 2018. | | A4, D, E | | | | | | | | | |
| Comprehensive Energy Efficiency Project Portfolio (BUS) | | | | | | | | | | | | | | | | |
| 54 | Energy Conservation measures at Bus Div. 3,7,9 and 15 | 2015 | | 2019 | Lighting measures have been completed at Division 7 Maintenance Bay and Division 9 Fuel Island. Additional measures being considered. | | A4, D, E | | | | | | | | | |
| 55 | Perform Energy Audits to plan ECMs | 2015 | | 2020 | Energy audits were completed in 2015. Measures identified included \$1.4M in lighting and mechanical measures, annual kWh savings of 1,986MW. | | A4, D, E | | | | | | | | | |
| Division 18 Energy Retrofit Project Portfolio | | | | | | | | | | | | | | | | |
| 56 | Conduct energy audit to develop ECMs | 2017 | | 2020 | Audits identified measures that would reduce overall energy cost by 13.5%. Measures are currently being discussed with facility stakeholders. | | A4, D, E | | | | | | | | | |
| 103rd Watts Outdoor Area Lighting | | | | | | | | | | | | | | | | |
| 57 | Design and Install energy efficient Outdoor Area Lighting (OAL) service | 2016 | | | Pilot project was completed on February 11, 2018. Ten-year cost savings = \$41,118. | | A4, D, E | | | | | | | | | |
| Gateway Parking Garage Variable Frequency Drive (VDRs) | | | | | | | | | | | | | | | | |
| 58 | Install VDRs on exhaust fans and supply fans | 2016 | | | Project was identified in April 2016 Gateway Building Energy Audit but was not immediately pursued. General Services is considering this project | | A4, D, E | | | | | | | | | |
| Division 30 Energy Efficiency Project Package Portfolio | | | | | | | | | | | | | | | | |
| 59 | Install a portfolio of ECMs at the Central Maintenance Facility (CMF) | 2015 | | | Energy audits were conducted which identified \$2.5M in lighting and mechanical measures. Projects have not been developed or funded. | | A4, D, E | | | | | | | | | |
| Comprehensive Energy Efficiency Project Portfolio (RAIL) | | | | | | | | | | | | | | | | |
| 60 | Install a portfolio of ECMs at Divisions 11 & 22 | 2014 | | 2016 | Lighting retrofits and controls were completed at Division 11 and 22. Division 22 project verified 976,070 kWh and \$59,450 in annual savings. | | A4, D, E | | | | | | | | | |
| Community Solar and Clean Powers Authority | | | | | | | | | | | | | | | | |

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| | | | | | | | | | | | |
| 61 | Work with US Department of Energy and the LA County Clean Power Authority (CPA) in increasing renewable energy mix for propulsion and facilities, specifically within the Southern California Edison (SCE) territory | 2015 | | 2019 | In negotiations with community solar provider, received US DOE grant to develop comprehensive community solar program. Transition all electric meters within SCE territory to CPA for increased renewable mix and discounted energy rates. | * | A4, D, E | Resiliency | | | |
| Conjunctive Billing and Direct Access | | | | | | | | | | | |
| 62 | Work with utility partners to achieve favorable structures for power | 2015 | | 2019 | Participating in regular coordination meetings with utility partners to identify opportunities. | | A4, D, E | Resiliency | | | |
| Power Purchase Agreement (PPA) 1 | | | | | | | | | | | |
| 63 | PPA to install PV/Roof Repairs at Division 9, 11, 14 and 22 | 2016 | | 2019 | Roof replacement IFB to be released shortly; targeting Notice to Proceed by the end of 2018. Electrical surveys conducted at Divisions 9, 11, 14, and 22 to identify spare conduit for connecting PV systems to the electrical service and determine capacity of the electrical systems. PV PPA SOW under going revision based on information collected during the electrical surveys. Meeting with ATU representative to be scheduled once the SOW is updated. PPA contract documents being finalized. | * | A4, D, E | Resiliency | | | |
| Bus Yard Canopy Conceptual Design | | | | | | | | | | | |
| 64 | Design concepts for solar canopies at three bus divisions | 2016 | | 2018 | Design concepts were completed. Results being considered for additional projects. | * | A4, D, E | Resiliency | | | |
| Biomethane Procurement | | | | | | | | | | | |
| 65 | Manage and procure biomethane fuel | 2015 | | | Board approved in June 2013. Metro executed first biomethane supply contract in August 2017. Bench solicitation being developed for RFP release in Fall 2018. | * | A4, D, E | | | | |
| Photovoltaic Preventative Maintenance | | | | | | | | | | | |
| 66 | Implement a PV Preventative Maintenance system | 2017 | | 2018 | Program was first implemented in 2015 and has been successful. 2018 Q1 system performance improved 18.8% over Q1 2017 and 40.5% over Q1 2016 | * | A4, D, E | | | | |
| Measurement and verification (M&V) of Wayside Energy Storage System (WESS) | | | | | | | | | | | |
| 67 | M&V data on the effectiveness of the flywheel storage system in storing energy | | | | Data is currently generated | | D, E | | | | |
| Pathways to Zero Net Energy (PZNE) | | | | | | | | | | | |
| 68 | PZNE seeks to eliminate energy-related greenhouse gas emissions | 2017 | | Jul-17 | Draft report was completed and then project was shelved due to intellectual property conflicts. | | D, E | | | | |
| Sustainability Plan - Energy Security Operations Center (ESOC) | | | | | | | | | | | |
| 69 | Provide ongoing and as-needed support | 2017 | | | Supporting project on an as needed basis | | B, C, E | | | | |
| LOC64 Sustainability Plan | | | | | | | | | | | |
| 70 | Provide ongoing and as-needed support | 2017 | | | Supporting project on an as needed basis | | B, C, E | | | | |
| Sustainability Plan - Westside Purple Line Extension (PLE) Section 1 | | | | | | | | | | | |
| 71 | Provide ongoing and as-needed support | 2017 | | | Coordinating with the contractor for the May and June submittals. | | B, C, E | | | | |
| Sustainability Plan - Westside Purple Line Extension (PLE) Section 2 | | | | | | | | | | | |
| 72 | Provide ongoing and as-needed support | 2017 | | | Reviewing contractor's response to the January submittal; reviewing April and May submittals. | | B, C, E | | | | |
| Sustainability Plan - Rail 2 River | | | | | | | | | | | |
| 73 | Provide ongoing and as-needed support | 2017 | | | Energy team gave technical advice on possibility of using DWP OAL program | * | B, C, E | | | | |
| Westwood Greenway | | | | | | | | | | | |
| 74 | Provided ongoing support and first mile, last mile strategies | 2015 | | | Development sustainability strategies for helping communities connect to transit | | B1, B4, C3 | | | | |
| Environmental Attribute (Carbon Credit) Reporting and Sales | | | | | | | | | | | |
| 75 | Manage the Low Carbon Fuel Standard and Renewable Fuel Standard program | 2016 | | 2028 | Metro sales are 9.5% above market average. In 2018 Metro sold 150,000 credits generating \$25M. | | E | | | | |
| LEED-EBOM for Gateway | | | | | | | | | | | |
| 76 | Pursue a LEED-EBOM Re-Certification based on new lighting and other measures | 2015 | | 2019 | LEED recertification is pending completion of ongoing energy measures at gateway including building lighting and controls and garage. | | A, B, C, D, E | | | | |
| Division 13 LEED Audit | | | | | | | | | | | |
| 77 | Conduct a LEED Audit at Division 13 to identify and address ongoing operational activities | 2017 | | | Report is being finalized. Findings have resulted in additional retro-Cx activities at Division 13 | | A, B, C, D, E | | | | |

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| Develop Enhanced Process for Commissioning and Retro-Commissioning of Facilities | | | | | | | | | | | | | | | | |
| 78 | Implement process to reduce energy consumption through proper O&M of equipment/systems | 2017 | Green | 2018 | Project is in development | | A, B, C, D, E | | | | | | | | | |
| Evaluate an Energy Management System (EMS/BMS) for Building to Reduce Energy Consumption | | | | | | | | | | | | | | | | |
| 79 | Evaluate existing BMS systems to determine requirements for a enterprise-wide EMS system | 2017 | Green | 2018 | Project is in development | | A4, D1, D2, E | | | | | | | | | |
| Conduct a Microgrid Study to determine the resiliency requirements for the Metro Power System | | | | | | | | | | | | | | | | |
| 80 | Evaluate the system to determine if microgrids could keep critical infrastructure functioning | 2016 | Green | 2018 | Project is in development. Working with city of Santa Monica on Bergamot Station Pilot | | A4, D Resiliency | | | | | | | | | |
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| SOLID WASTE & RECYCLING | | | | | | | | | | | | | | | | |
| Metro Board Motion (2016-0157) | | | | | | | | | | | | | | | | |
| 81 | Reduce environmental liabilities related to hazardous waste | 2016 | Green | 2020 | A review of 15 of Metro's waste related construction policies was completed in 2016 and recommendations for policy updates were identified. Recommendations to be implemented. On-going improvement related to the management of hazardous waste are being implemented quarterly. | | A4, E | | | | | | | | | |
| Minimize Amount of Paper Waste and Related Consumables | | | | | | | | | | | | | | | | |
| 82 | Evaluate paper saving initiatives | 2016 | Green | 2018 | Paper saving initiatives have been identified through Division waste characterization studies, facility walk-throughs, and staff interviews. Opportunities need to be reviewed and prioritized for implementation. | * | E | | | | | | | | | |
| Reduce Stretch Wrap and Related Operations Waste | | | | | | | | | | | | | | | | |
| 83 | Assess alternates to stretch wraps | 2016 | Green | 2018 | A tech memo on the alternatives to stretch and sustainable shipping methods is in development and expected to be delivered in September 2018. | | E | | | | | | | | | |
| Revise Metro's Environmentally Preferred Purchasing Policy | | | | | | | | | | | | | | | | |
| 84 | Develop a "Green Team" to review product and develop consensus | 2016 | Green | 2018 | This task is being removed from the solid waste program and addressed as part of the green purchasing program | | D2, E | | | | | | | | | |
| 85 | Develop a Metro-wide environmentally Preferred Purchasing Program | 2016 | Green | 2018 | Being integrated into the Green Procurement program | | D2, E | | | | | | | | | |
| Increase Material Refurbishing and Re-Use | | | | | | | | | | | | | | | | |
| 86 | A re-use program to include coffee cups, cleaning supplies, durable goods, electronics, etc. | 2016 | Green | 2018 | Existing material reuse programs were identified through the Metro solid waste baseline assessment process. New programs for implementation are being proposed as part of the Waste Characterization Study for Gateway | | E | | | | | | | | | |
| Evaluate Processes and Methods to Maximize Waste Diversion | | | | | | | | | | | | | | | | |
| 87 | Evaluate Metro's Waste service levels to determine if service can be reduced | 2016 | Green | 2019 | Service level evaluation is being conducted as part of the new solicitation for waste collecting and disposal | | B2, E | | | | | | | | | |
| Identify Key Recyclable Items in Waste Stream | | | | | | | | | | | | | | | | |
| 88 | Develop a enterprise-wide recycling system | 2016 | Green | 2020 | Waste characterization studies have been completed at Gateway, Division 7, and Division 11. Recyclable items to capture through program improvements have been identified. A recycling program is being implemented in fall 2018 at Gateway as a test case for the rest of the agency. | | B2, E | | | | | | | | | |
| Improve Recycling Rates Through Operational Awareness and Signage | | | | | | | | | | | | | | | | |
| 89 | Develop a enterprise-wide recycling system | 2016 | Green | 2020 | Metro Communications was engaged in August 2018 to design new waste and recycling signage for the agency. Signage will be rolled out at Gateway first as part of the new recycling program. | | B2, E | | | | | | | | | |
| Reduce Paint Waste and Recycle Usable Paint | | | | | | | | | | | | | | | | |
| 90 | Evaluate improvements to the paint use and recycling process | 2016 | Green | 2020 | Being reviewed as part of the waste management process | | B2, E | | | | | | | | | |
| Prevent Contamination of Recyclable Through Training and Education | | | | | | | | | | | | | | | | |
| 91 | Develop and provide training sessions to Metro Staff | 2016 | Green | 2019 | A custodial and general staff training program will be developed in fall 2018 to support the roll out of the Gateway recycling program. | | D1, E | | | | | | | | | |
| Develop and Implement an Organic Waste Management System | | | | | | | | | | | | | | | | |
| 92 | Conduct a pilot program for Organic Waste Collection | 2016 | Green | 2019 | Organic recycling requirements were integrated into the new tree trimming contract in spring 2018. Similar requirements need to be added to the landscaping contract. An organics collection program will be developed with the Metro cafeteria in fall 2018. | | B4, E | | | | | | | | | |
| Ensure Waste Management Policy is Compliant at State/Federal and Local Levels | | | | | | | | | | | | | | | | |
| 93 | Evaluate and confirm Metro's Policies | 2016 | Green | 2019 | Recycling SOP and Gateway Waste Management Guidelines need to be updated to reflect BMPs and state statutory requirements. Work to be completed in FY19, as budget allows. | | B, E | | | | | | | | | |
| Establish Metrics and Revise Policies for Demo/Construction/Renovation Projects for Compliance | | | | | | | | | | | | | | | | |
| 94 | Expand requirements to ensure compliance during construction activities | 2016 | Blue | 2028 | ECSD incorporated as a pilot the Crenshaw Project into the Environmental Management System to capture best practices and gaps in environmental construction compliance. Director Solis, during the August 2018 Board meeting requested documentation and report back in a future meeting (no timing provided). | | B, D, E | | | | | | | | | |

ECSD PROGRAM AND INITIATIVE STATUS UPDATE (Since September 2016 Response to Board Motion 57)

| <table border="1"> <tr><td>In Development</td><td>Green</td></tr> <tr><td>Completed</td><td>Yellow</td></tr> <tr><td>Continuous Improvement</td><td>Purple</td></tr> <tr><td>Board Motion 57 Related Items</td><td>Orange</td></tr> </table> | | In Development | Green | Completed | Yellow | Continuous Improvement | Purple | Board Motion 57 Related Items | Orange | Year Initiated | Current Status | Completion Date | Comments | SC(1) | Motion 57 Reference (2)(3)(4)(5)(6)(7)(8) | Reference Back to FY19 Initiatives |
|--|---|----------------|--------|-----------|--|------------------------|-----------|-------------------------------|--------|----------------|----------------|-----------------|----------|-------|---|------------------------------------|
| In Development | Green | | | | | | | | | | | | | | | |
| Completed | Yellow | | | | | | | | | | | | | | | |
| Continuous Improvement | Purple | | | | | | | | | | | | | | | |
| Board Motion 57 Related Items | Orange | | | | | | | | | | | | | | | |
| Establish Baseline Metrics for Each Facility/Operation | | | | | | | | | | | | | | | | |
| 95 | Collect and set baseline metrics for all facilities and existing programs | 2016 | Yellow | 2018 | An agency wide solid waste baseline was finalized in Summer 2018 using the 2016 calendar year. The baseline will be updated in Fall 2018 to reflect additional information gathered through the Division waste characterization studies. | * | E | | | | | | | | | |
| Develop a Comprehensive Solid Waste Performance Metrics System | | | | | | | | | | | | | | | | |
| 96 | Develop a performance metrics system that ensure compliance with state/Federal and Local laws | 2016 | Yellow | 2018 | Metrics tied to state and local laws were developed as part of the Metro baseline development process. | * | E | | | | | | | | | |
| Standardize Solid Waste/Recycling Reporting Protocols into EMS | | | | | | | | | | | | | | | | |
| 97 | Update EMS to include evaluation and monitoring protocols | 2016 | Purple | 2019 | Taking on the ongoing EMS efforts, ECSD staff is exploring opportunities of incorporation into the existing management system | | B, D, E | | | | | | | | | |
| Create Project Evaluation Tool to Rank/Prioritize Waste Management Initiatives | | | | | | | | | | | | | | | | |
| 98 | Develop a policy, tool, and SOP | 2016 | Yellow | 2020 | An Excel based tool was created to assist with ranking and prioritizing solid waste initiatives for implementation. The tool is being evaluated for implementation into projects. | | B, D, E | | | | | | | | | |
| Integrate Water and Energy Sectors to Find Program Collaboration Opportunities | | | | | | | | | | | | | | | | |
| 99 | Collaborate within the Energy and Water Sector to identify outreach and education efforts | 2016 | Green | | Working directly with LADWP and SCE to identify collaboration opportunities for energy development, integration and rate structures. | | B, D, E | | | | | | | | | |
| Develop and Integrated Waste Management Hierarchy for Highest/best Use of Materials | | | | | | | | | | | | | | | | |
| 100 | Develop and adopt an integrated waste management hierarchy (IWMH) | 2016 | Green | 2019 | A proposed IWMH has been developed and presented to Metro. Metro to determine how the IWMH policy will be formally adopted. | | E | | | | | | | | | |
| Maximize Disposal Reduction using the IWMH | | | | | | | | | | | | | | | | |
| 101 | Expand the IWMH with a focus on Material Recovery Facility (MRF) | 2016 | Green | 2019 | Disposal reduction and diversion opportunities following the IWMH were identified through the waste characterization studies. Recommendations need to be prioritized for implementation based on the remaining program budget. | | E | | | | | | | | | |
| Report Annually on Waste Sector Initiatives and Successes | | | | | | | | | | | | | | | | |
| 102 | Report the success of the program in the E&R Report | 2016 | Yellow | 7/1/2018 | Reporting for the 2017 year is complete. This is an annual initiative and requires ongoing data monitoring and validation throughout the year. | * | B3, D1, E | | | | | | | | | |
| References: (1) Presented to the Sustainability Council either as a stand alone item or part of an overall related report. (2) Refer to Board Motion Item #57 by Garcetti, Kuehl, Ridley-Thomas, Solis, and Bonin Dated February 18, 2016. (3) Each of the codes below refer to the items in Motion Item #57. (4) Item "A" refers to climate change and resiliency (5) Item "B" refers to sustainable infrastructure strategies (6) Item "C" refers to transit connectivity activities (7) Item "D" refers to green technology and partnerships (8) Item "E" refers to Metro Environmental Compliance and Sustainability activities | | | | | | | | | | | | | | | | |

ECSD PROGRAM AND INITIATIVE STATUS UPDATE (Since September 2016 Response to Board Motion 57)

| <table border="1"> <tr> <td>In Development</td> <td style="background-color: #008000;"></td> </tr> <tr> <td>Completed</td> <td style="background-color: #ffff00;"></td> </tr> <tr> <td>Continuous Improvement</td> <td style="background-color: #ffcc00;"></td> </tr> <tr> <td>Board Motion 57 Related Items</td> <td style="background-color: #ff9900;"></td> </tr> </table> | | In Development | | Completed | | Continuous Improvement | | Board Motion 57 Related Items | | Year Initiated | Current Status | Completion Date | Comments | SC(1) | Motion 57 Reference (2)(3)(4)(5)(6)(7)(8) | Reference Back to FY19 Initiatives |
|---|---|----------------|--|-----------|---|------------------------|---------|-------------------------------|--|----------------|----------------|-----------------|----------|-------|---|------------------------------------|
| In Development | | | | | | | | | | | | | | | | |
| Completed | | | | | | | | | | | | | | | | |
| Continuous Improvement | | | | | | | | | | | | | | | | |
| Board Motion 57 Related Items | | | | | | | | | | | | | | | | |
| WATER | | | | | | | | | | | | | | | | |
| Metro Board Motion (2016-0157) | | | | | | | | | | | | | | | | |
| 103 | Conserve and reduce water usage | 2016 | | | Surveys and pilots to identify and test water conservation measures are underway. | * | B1, E | | | | | | | | | |
| 104 | Future construction projects to use methods to capture and treat stormwater/reclaimed water | 2012 | | | Incorporated into Metro Design Criteria and Technical Requirements | * | B, E | | | | | | | | | |
| 105 | Construction project (>\$5M) shall use sustainable building material | 2012 | | | Incorporated into Metro Design Criteria and Technical Requirements | * | B, E | | | | | | | | | |
| Draft 2015 Urban Water Management Plan | | | | | | | | | | | | | | | | |
| 106 | By 2017 reduce per capita potable water use by 20% (2025 - 2035) | 2015 | | | 20% reduction in water use (from 2015 levels) was achieved in 2016, but consumption increased in 2017. | * | B, E | | | | | | | | | |
| Apply Diamond Seal System (DSS) to ALL Bus to Reduce Bus Washing | | | | | | | | | | | | | | | | |
| 107 | Apply DSS to reduce dirt and residue build-up | 2015 | | 2017 | Program implemented in 2016. Results showed no significant change in water use. Pilot discontinued | | E | | | | | | | | | |
| Retrofit BUS/CAR Wash Nozzles with Higher Efficiency Options | | | | | | | | | | | | | | | | |
| 108 | Modify existing nozzles to reduce the amount of water needed to complete vehicle cleaning | 2015 | | | A pilot project is currently underway at Division 15 to test the water savings and cleanliness of buses using low-flow nozzle alternatives. 2.0 GPM is the baseline. A combination of 1.0 GPM and 0.5 GPM nozzles will be tested. | | E | | | | | | | | | |
| Adjust Sensors in Car Wash Areas to Limit Water Usage | | | | | | | | | | | | | | | | |
| 109 | Modify the cycles to limit the amount of water used Before, During and After the Wash | 2015 | | | Timing adjustment pilots are being conducted at Division 7 and Division 9. Adjustments were made the week of 8/13/18. | | E | | | | | | | | | |
| Re-evaluate and Implement All 15 Water Conservation Strategies Outline in 2010 Action Plan | | | | | | | | | | | | | | | | |
| 110 | Update all strategies to identify additional water conservation opportunities | 2015 | | 6/25/2018 | A tech memo assessing the 2010 Water Action Plan strategies and recommending updates based on current opportunities was submitted to Metro on 6.25.18. Strategies are being prioritized for implementation. | * | D, E | | | | | | | | | |
| Restrict Irrigation with Potable Water | | | | | | | | | | | | | | | | |
| 111 | Research/evaluate options to reduce potable water use for irrigation | 2015 | | | Irrigation study conducted in 2015. Initial review and study completed. A tech memo on an evaluation of irrigation along the Orange Line was submitted to Metro on 1.29.18. The next step is to develop a SOW for irrigation controller replacement and determine a funding mechanism for the annual network subscription. An irrigation plan for Division 15 has also been developed. Field work requires capital funding. | * | D, E | | | | | | | | | |
| Adjust BUS/CAR Wash Blowers to Capture and Recover Wash Water | | | | | | | | | | | | | | | | |
| 112 | Pilot studies to evaluate effectiveness of modifying blowers to conserve water | | | | Project still under development. | | D, E | | | | | | | | | |
| Reduce Water Consumption | | | | | | | | | | | | | | | | |
| 113 | Remove Ornamental Turf and Install Drought Tolerant Plants | 2015 | | 2018 | A tech memo on the results of a Division survey and turf removal opportunities was submitted to Metro on 6/4/18. A work plan is being developed for implementing a turf removal project at Division 15. Implementation of drought tolerant and native landscaping for <i>new</i> construction has been in place since 2003. | * | B2 | | | | | | | | | |
| 114 | Conduct a survey with a focus on upcoming renovations | 2016 | | 2017 | Survey Completed. | | B2 | | | | | | | | | |
| Retrofit Cooling Towers | | | | | | | | | | | | | | | | |
| 115 | Complete study to improve water recycling and reduce cost of operations | 2017 | | 8/15/2018 | Cooling towers, boilers, and chillers at Gateway are already being replaced by General Services. This project is no longer necessary. | | D, E | | | | | | | | | |
| Replace Sanitary and Kitchen Fixtures | | | | | | | | | | | | | | | | |
| 116 | Identify existing fixtures to be replaced with high efficiency plumbing fixtures | 2017 | | 2019 | Sanitary and kitchen fixtures have been audited at the Divisions. A SOW is being developed for a pilot at Division 15 identifying the recommended make/model of the fixtures and project cost. | | D, E | | | | | | | | | |
| Track Water Consumption for Individual Operations | | | | | | | | | | | | | | | | |
| 117 | Prioritize water conservation efforts based on survey of Metro facilities | 2015 | | Ongoing | Water use is currently being tracked for all facilities, but data validation and improvements to the tracking system are ongoing efforts. Sub-meters have been installed on the Division 7, 9, 15, and 24 bus washes to improve water tracking capabilities. | | B, D, E | | | | | | | | | |
| Identify Opportunities for Graywater Use | | | | | | | | | | | | | | | | |

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| In Development | Completed | | | | | | | |
| Continuous Improvement | Board Motion 57 Related Items | | | | | | | |
| 118 | Conduct study to determine if graywater retrofits are suitable for Metro Facilities | 2017 | | 3/30/2018 | A tech memo on opportunities for Metro to retrofit existing properties for graywater was submitted to Metro on 3/30/18. Exploring how to fund implementation. | | B2, B4, E | |
| Increase Capture of Storm Water Runoff for Use in Landscaped Areas | | | | | | | | |
| 119 | Increase bio-retention tech., permeable pavement, vegetated swales and infiltration trenches | 2017 | | | A tech memo evaluating strategies to capture and store stormwater was submitted to Metro on 5/3/18. Recommendations to be reviewed by ECSD and prioritized for implementation. | | B1, B2, E | |
| Require Existing Facilities to use Technologies to Capture, Reuse and Treat Storm Water Onsite | | | | | | | | |
| 120 | Implement best management practices regarding storm water recapture and reclamation | 2016 | | 2019 | Has been a best practice since 2003 in major capital projects. Current state and local requirements are being implemented on projects within Metro rights of way but has been in discussion with City and County of LA in other jurisdictions. LA Metro is inclined to install but not maintain these Low Impact Development strategies at locations other than Metro rights-of-way. | * | B1, B2, E | |
| Educate Public on Water Conservation and Water Database | | | | | | | | |
| 121 | Information shall be shared with the public via website and other outlets | 2017 | | | Metro ECSD website has information including annual reports that serve as information. We also have an opportunity to increase awareness through Green Workforce training and on-site program information panels at stations and projects like Division 4 permeable pavement. | * | D1, E | |
| Educate Staff on Water Usage and Conservation Through Training | | | | | | | | |
| 122 | Develop and integrate content for training staff on water usage and conservation strategies | 2017 | | | We also have an opportunity to increase awareness through Green Workforce training and quarterly Metro ENV SP and G-Pro certified Metro staff. | | D1, E | |
| Identify Funding Opportunities and Collaborate With Local and State Agencies Water Projects | | | | | | | | |
| 123 | Identify external funding sources for water-related projects | 2017 | | | In current conversation with P3, city, and other entities on possible funding opportunities for these types of projects. | | E | |
| Maximize Use of Recycled Water | | | | | | | | |
| 124 | Develop a Recycled Water Plan | 2015 | | 2019 | A work plan for the cross connection test at Division 3 has been prepared and submitted for review. Metro to determine who will complete this test. Opportunity to connect Orange Line irrigation at Chandler and Colfax has been identified and is being scoped out. | | B2, B3, D1, E | |
| 125 | Evaluate the feasibility and cost effectiveness of using recycled water (Purple Pipe) | 2015 | | | Purple pipe installed in capital projects such as Metro Orange Line MOL and MOL Extension. Metro has participated in the LADWP Integrated Water Resource Planning Process, City-wide One Water LA initiative, and the LA Sanitations Bluebelt research projects to develop opportunities for recycled water in multiple LA Metro facilities. Infrastructure has been built in MOL and MOL extension, but recycled water in limited use due to limited supply. Opportunities have been identified and need to be followed-up. | | B2, B3, D1, E | |
| Upgrade Metro Resiliency in Terms of Water Supplies for Catastrophic Events | | | | | | | | |
| 126 | Increase emergency water supply at Divisions and Locations | 2018 | | | Working with Emergency Management Department on a path forward. | | A4, B, D1, E | |
| Implement Green Construction Policies Governing New/Future Metro Divisions | | | | | | | | |
| 127 | Leverage existing policies, ordinance, and regulations requiring the technologies that capture, treat and infiltrate storm water | 2017 | | | Expand implementation into existing facilities. Currently a requirement in new facilities. | | A4, B, D1, E | |
| Increase Existing underground Storage Capacity for Storm Water | | | | | | | | |
| 128 | Assess the usage of storm water capture cisterns to reduce the use of potable water | 2017 | | 2019 | Implemented in several facilities. A tech memo evaluating underground storage of stormwater system-wide was submitted to Metro on 5/3/18. Recommendations currently being reviewed by ECSD staff | | A4, B, D1, E | |

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