



**SF Environment**



CITY AND COUNTY OF SAN FRANCISCO  
**COMMISSION ON THE ENVIRONMENT DIRECTOR'S REPORT**  
March 22, 2016

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***This report covers San Francisco Department of the Environment updates  
for the months of January 2016 through March 2016***

**Outreach to residents**

- **OUTREACH/TRANSPORTATION:** The Department partnered with the Stanford Design School to receive training from two students on the human-centered design (HCD) process. The seven week training concluded last week and taught staff how to develop an outreach strategy to educate new San Francisco residents about their transportation options. HCD engages the people who will be using your service or product early in the development process, and ends with solutions that are tailor made to suit their needs. The next step is to finalize the outreach approach for new residents and launch the program which is co-managed by SFE and SFMTA.
- **ENVIRONMENTAL JUSTICE:** Providing assistance to Mayor's Office of Housing and Community Development (MOHCD) and SF Housing Authority by conducting IPM services at Alice Griffith housing development site in Bayview-Hunters Point. Senior residents will soon relocate to a newly-constructed building at Alice Griffith. This is one of four HOPE SF sites where SFHA's distressed housing are being replaced with new housing developments.
- **SCHOOL EDUCATION:** Gave 97 assemblies/presentations to 7,375 students at 58 schools in Districts 1-11. Tabled at the Black College Expo in Oakland and the Summer Resources Fair at Pier 70.
- **OUTREACH/URBAN FOREST:** The Green Christmas campaign wrapped up in mid-December. By all accounts the promotion of the program was a great success. However, participation goals were barely met. We are reviewing the program with our partner, Friends of the Urban Forest, and plan to adjust and improve for next year
- **ZERO WASTE:** Conducted 18 processing charge assessments (1791 units), 3 regular assessments (417 units), composting and recycling outreach at 4 buildings (87 units) and sent processing charge warning letters to 23.
- **ENERGY:** the Solar+Energy Storage project has contacted Library, RecPark, and the School District that each have facilities that have been selected by the Supervisors in the various districts

- CLIMATE: Climate liaisons in each of 60 departments invited to meeting at City Hall last week for a briefing that included a Zero Waste presentation with a focus of keeping departments engaged on climate action. 33 liaisons attended. Liaison reports are due to SFE 4/9/16.
- TOXICS REDUCTION: Environment Now staff visited approx. 50 pharmacies in San Francisco to provide replacement outreach tear-off pads on medicine drop-off locations under the Safe Medicine Disposal Pilot Program. They also distributed a flyer outlining what all SF pharmacies can expect under the future permanent program which will be funded and operated by the pharmaceutical industry.
- BIODIVERSITY: At Arbor Day on March 19, co-convened the first Green Connection Bioblitz, a volunteer-based effort to record flora and fauna in the city.

### **Outreach to businesses**

- TOXICS REDUCTION: Ongoing Green Business outreach throughout the City (Districts 2, 4, 5, 9 and others). Currently 224 total businesses currently recognized and 116 are in process.
- TOXICS REDUCTION: Ongoing outreach to nail salons throughout SF. Currently 36 nail salons are recognized by the program.
- TOXICS REDUCTION: Ongoing outreach furniture retail stores about chemical flame retardants. Currently 34 retail stores have pledged to sell flame retardant free furniture.
- TOXICS REDUCTION: Ongoing outreach to small and medium businesses throughout SF about hazardous waste disposal and Very Small Quantity Generator Program. EN spoke with 47 business owners.
- OUTREACH/TRANSPORTATION: Completed full enforcement cycle for the San Francisco Commuter Benefits Ordinance (warning letter and three rounds of citations). Started with a list of over 2,000 businesses and have just over 200 remaining to determine compliance status.
- GREEN BUILDING: Staff and outreach organized and delivered successful Residential PACE outreach event for contractors, in partnership with PACE administrators (Renew Financial and Renovate America) on February 9, with approximately 35 in attendance, to educate them on availability of PACE financing and similarities and differences between programs.
- GREEN BUILDING: Staff co-convened first San Francisco 2030 District Working Group Meeting of the year with Stan Lew/RMW Architects. Topics included: new members; membership/outreach. updates; data/metrics; fundraising committee; grants – CEC grant award (ZNE at 150 Eddy/CCDC property); 2030 Districts Network – Sustainable Purchasing Alliance, ULI Greenprint partnership.

- OUTREACH: Environment Now has engaged with 435 businesses since the launch of this year's Zero Waste participation campaign (small-to-medium sized businesses). Environment Now has trained 885 owners, managers, and employees throughout all 11 Districts; 172 conversations were facilitated in Cantonese, 140 in Spanish, 20 in Russian, and 6 in Mandarin. As a result, 29 businesses have increased their recycling service level for a total of 2,506 gallons/week of added service. Additionally, 32 businesses have increased their compost collection for a total of 4,830 gallons/week of increased service. Lastly, Environment Now's efforts have allowed 33 businesses to reduce their landfill service levels for a total of 6,400 gallons/week. Environment Now is currently engaged with more than 150 businesses, working to improve their participation in the City's Zero Waste program and will be initiating engagement with an additional 150 as of next week.
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- ENERGY/OUTREACH: Conducted extensive outreach to residential building contractors in and nearby San Francisco to drive interest in the Residential Property Assessed Clean Energy Financing Program (PACE). Outreach was conducted to over 500 contractors resulting in attendance of 37 at a breakfast hosted by SF Environment in February that promoted PACE
- ENERGY/OUTREACH: San Francisco has exceeded the 2016 campaign goal of enrolling 600 businesses to participate in the Step Up and Power Down campaign 10 months early, while driving over 30 leads into our Energy Watch program by way of an audit – conducted on-site at every location. Over 20% of all businesses participating in this campaign are doing so in a language other than English owing to our multilingual expertise led by Environment Now outreach associates. We are launching a second phase of outreach to create deeper relationships with participating businesses that is slated to begin in April.
- ENERGY: SFEW outreach included: meeting with Renew Financing regarding outreach to contractors; staff attendance at the 10th Annual Green Business Awards; tabling at the San Francisco Hotel Council's Green Forum; tabling at the San Francisco Apartment Association Trade Expo; held contractor training to cover program's incentive levels, procedures, and worksheets during the 2016 cycle at PG&Es Pacific Energy Center; tabling at the San Francisco Chamber of Commerce's Business Summit in Supervisorial District
- ENERGY: Organized and held Solar Working Group meeting to discuss changes to SFPUCs workforce development requirements under GoSolarSF.
- ZERO WASTE: Diverted 14,034 tons at 5 demolitions. Registered Independent Recycling Services in San Leandro as a new debris facility. Improved participation at 137 commercial accounts. Conducted zero waste training at 2 commercial locations. Got 12 commercial accounts composting service compliant. Met with Real Estate

deputy director and developers at Treasure Island to discuss recovery requirements.  
Attended Hotel Council Sustainability Forum at the Hilton

### **Outreach to City Departments**

- ENVIRONMENTAL JUSTICE/TOXICS REDUCTION: conducted IPM training workshop in partnership with City's IPM contractor, Pestec, for Phase II of the City's Rental Assistance Demonstration (RAD) program. Under RAD, SF Housing Authority (SFHA) sites are being renovated and transferred to affordable housing developers. EJ and TR coordinate and support Pestec's IPM inspections of more than 3,000 homes (100% public housing units).
- GREEN BUILDING: Held weekly Green Building and LEED v4 study sessions supporting LEED professional accreditation for city design and construction staff.
- GREEN BUILDING: Held monthly Green Building educational presentations on Zero Waste, Solar plus Storage, Comfy Temperature Control, and LEED project case studies for 12 City Department members of the Municipal Green Building Task Force and the public.
- GREEN BUILDING: Presented Municipal Green Building Updates to DBI Green Building Subcommittee of Code Advisory Committee: Municipal Construction and Demolition Debris Diversion Rates, SF Municipal LEED certified portfolio, new Public Safety Building, and LEED Platinum City Hall.
- TOXICS REDUCTION: The Green Purchasing Program completed a report on purchasing preferences for rechargeable batteries. This will be posted soon on the website.
- TOXICS REDUCTION/IPM: Presented webinar (Feb. 23) through US EPA on pest prevention in schools to an audience of 339 school facility managers nationwide. Satisfaction rating from attendees was 98%.
- ZERO WASTE: Trained 172 Asian Art Museum, Department of Public Health and Departmental Zero Waste Coordinators on zero waste. Met with Recology and Treasure Island Development Authority to discuss refuse collection services, rates and associated contract for Island residents and businesses. Met with SFPW to discuss redesigning public refuse receptacles. Met with Staples (the City's current office supply vendor) to discuss their new environmentally preferable product offerings. Met with the Port and Recology on proposed relocation of latter's construction and demolition debris recovery facility from Tunnel Road to Pier 96 area, and CEQA review options. Met with Department of Technology deputy director to discuss moving towards paperless offices. Presented debris recovery requirements to City representatives and 2 more contractors working on 2 SFO projects. Completed evaluations of zero waste plan proposals for SFO.

- ENERGY: Alt fuel/EV submitted the *2015 Transportation Technology Deployment Report: San Francisco Clean Cities Coalition* on March 15, 2016 to U.S. DOE. Each year the Clean Cities Coalition submits an annual report documenting activities and accomplishments for the previous calendar year. Content includes information on sales of alternative fuels, deployment of alternative fuel and hybrid vehicles, and programs to reduce vehicle miles traveled (such as SF Commute Smart). Energy Team staff coordinated with internal departmental staff to obtain data and analyze. In 2015, CCSF displaced 21 million gallons of gasoline with alternative fuels (22.4M in 2013; 20.7 in 2014). This translates to a reduction of 160.7k tons of GHGs (143.8k in 2013; 122.9k in 2014).
- ENERGY: Alt fuel/EV CCSF has had a pilot grant program with Charge Across Town and Envision Solar to demonstrate the EV ARC solar powered EV charging unit at various locations throughout the City. Each EV ARC will generate enough solar powered electricity to power up to 100 miles of electric driving every day. The program is ending and the units will be donated to the City departments that hosted the units (MTA, Port, Rec/Park). SFMTA passed on taking ownership of its unit and therefore can offer the unit to DBI to help with the shortage of charging stations for the DBI's 10 EVs. Final recipients of donations include DBI, Port and Parks and Rec. Energy Team staff led on a BOS resolution to accept the donations of all units on behalf of the receiving departments and is coordinating next step efforts.
- ENERGY: Alt fuel/EV held 1st CEC Alternative Fuel Vehicle Readiness Planning Technical Advisory Committee meeting on 02.17.16 with internal and external stakeholders. Grant funded by the CEC with engagement from MTA, CWP, and ADM.
- ENERGY: SFEW presentation/training to the new Environment Now staff on how to qualify leads for SFEW.
- ENERGY: Provided support to BC3 who expressed interest in administering the regional SunShares solar group buy program, previously managed by Vote Solar. Assisted with justification to be presented to BC3 Board for approval.

#### **New/Revised Legislation and/or City Hall activity**

- ENERGY: Sup. Weiner introduced the Better Roofs ordinance, requiring solar only at present, but likely to ultimately allow living roofs as a compliance option. Current solar only ordinance requires new residential and commercial buildings up to 75 feet in height install solar electric and/or solar water heating systems on a minimum portion of the roof area (250 sq ft for single family homes and 15% of roof area for all other buildings). The Building Inspection Commission will consider the ordinance for recommendation to the Board of Supervisors at the BIC's 3/16/16 meeting. The Better Roofs requirements are defined in the Green Building Code administered by the Department of Building Inspection, and, for municipal buildings only, in the Environment Code administered by Department of the Environment.
- GREEN BUILDING: Municipal Green Building Task Force (12 City Departments) is reviewing DRAFT and providing input for amending Env Code Chapter 7 to adopt LEED v4 for city construction projects.

- GREEN BUILDING: Mark is heading SFE's participation in the Port's Waterfront Land Use Plan Update.
- ZERO WASTE: Secured Civil Service Commission approval for \$3 million, 6-year RFP for zero waste consulting services. Attended Supervisor Breed's proposed styrofoam ban expansion legislation 1st stakeholder meeting.
- ENERGY: Presented at the first meeting of the City's Energy Efficiency Coordinating Committee. Provided an overview of energy efficiency programs in San Francisco, past and present.
- TOXICS REDUCTION: Provided input on draft legislation by Congresswoman Slaughter (D-NY) regarding national pharmaceutical take-back and provided language for proposed state legislation that would encourage pharmacist participation in safe and secure drug take-back programs by limiting their liability.

### **Press and Media Highlights**

- ENVIRONMENTAL JUSTICE: Unveiled a new mural, "Don't Dump Oil" in Bayview-Hunters Point, at Mendell Plaza located on Third Street near Oakdale Avenue. Mural was funded by CalRecycle grant, and mural project was developed with assistance from Bayview Opera House and muralist, Cameron Moberg.
- ZERO WASTE: Interviewed by the New York Times, French TV Ch2, and a freelance reporter from Paris on zero waste, bag ordinances and processing facilities. Met with Mayor of Genoa, Italy, the Italian and Canadian consulate generals on zero waste program and facilities. Spoke with Metroland Media reporter from Ontario, Canada on our zero waste textile initiatives.

### **Staff Changes**

- TOXICS REDUCTION: Eileen Leung has been promoted from Residential Toxics Reduction Associate to Safe Medicine Disposal Project Coordinator, a temporary exempt Environmental Assistant (5638) position, and will be working full time on implementing San Francisco's Safe Drug Disposal Stewardship Ordinance passed in 2015. We will be recruiting for a new Residential Toxics Reduction Associate, a permanent exempt (9922) position.
- TOXICS REDUCTION: Anna Frankel has resigned as Green Business Coordinator and Megan Kalsman has been hired as Commercial Toxics Reduction Associate and will start March 28.
- ENVIRONMENT NOW: Roy Matawaran, Yenja Jimenez, Dean Chuong, and Marc Morales began in February as Environment Now Outreach Associates.
- ZERO WASTE: Mary Williams went out on medical leave. Julie Bryant was appointed to the California Council on Carpet Recycling and attended the first meeting in Sacramento to discuss how to best plan for improving carpet recycling over the next five years.

- CLIMATE: New intern through Intrax program. Byeongil Park from South Korea.

### **RFP's posted/Grants and Contracts Awarded (who/amount/ summary)**

- GREEN BUILDING: New professional service city blanket contracts in place for Green Building Technical Assistance - Atelier 10/Urban Fabrick JV and Environmental Building Strategies. Total capacity \$5M over 5 years. Now adding subconsultant for living roof design.
- TOXICS REDUCTION: Posted RFP for continuation of Safe Medicine Disposal Pilot Program Service during gap period until permanent industry-funded program is in place (estimated to be end of 2016/first quarter of 2017). The maximum amount of the contract is expected to be \$100,000.
- TOXICS REDUCTION: Posted RFP for Household Hazardous Waste Regulatory Compliance Consulting for annual third party audit of San Francisco's Household Hazardous Waste Collection Facility. The maximum amount of the three year contract is expected to be \$28,500.
- ZERO WASTE: Released Zero Waste consulting RFP and held pre-proposal conference.
- BIODIVERSITY: Working with RPD, Mayor's Office, SFUSD, YMCA and Presidio Trust on the Cities Connecting Children to Nature initiative as part of the national cohort.

### **Proposals Submitted (who/amount/grant summary)**

- ENVIRONMENTAL JUSTICE: Submitted a proposal to CalRecycle seeking \$42,608 grant funds, to prevent illegal dumping in Bayview Hunters Point community.
- ENVIRONMENTAL JUSTICE: Submitted a funding request to USDN, seeking \$6,000 to support a peer learning exchange with Portland and Seattle to promote equity, ZW in multifamily buildings and community engagement.
- ENERGY: In partnership with multiple external stakeholders including NRG and Arup, Energy team led development of CEC Advanced Energy Communities grant. Proposal focus is on Central SOMA and if awarded will identify and remove barriers to district energy system development in project area as well as a suite of Distributed Energy Resource solutions. \$1.3M
- ENERGY: Received approval from U.S. Department of Energy to submit a full proposal (concept paper submitted January 15<sup>th</sup> per previous director's report) in response to Hydrogen and Fuel Cell Technologies Research, Development, and Demonstrations Funding Opportunity on January 15<sup>th</sup>. Worked on full proposal development which if awarded would enable the Energy Team to conduct regional education, outreach and training as a Climate Action Champion City on the emergence of hydrogen refueling infrastructure in the Bay Area and commercial availability of vehicles. Efforts will target permitting, code and safety officials as well as the general public to reduce soft costs and drive market transformation – faster. \$250,000

- ENERGY: In partnership with the Association of Bay Area Governments, submitted full proposal to the U.S. Department of Energy in response to a Funding Opportunity focused on applying and enhancing existing open source tools to perform large-scale building energy modeling analysis on small and medium commercial buildings (SMB) throughout its territory of nine San Francisco Bay Area counties to reduce the cost of energy efficiency targeting, design, and project development. Responded to reviewer questions.
- ENERGY: Submitted concept paper to U.S. DOE in response to Transportation Funding Opportunity Announcement (FOA). FOA had 11 areas of interest and staff submitted under area 2, Grid Modernization for EVs. Concept proposed to utilize SFPUC fleet vehicles and a specific municipal facility where energy storage would be installed. Staff would work with stakeholders to understand demand charge savings achieved by shifting EV charging load via energy storage unit and model for varying use case scenarios how those savings might be incentivized in the private sector under CleanPowerSF. Staff received approval from U.S. DOE to submit full application.  
\$500,000

### **Grants Received (who/amount)**

- ENERGY: SFEW contract (MSA) with PG&E finalized. Contract Work Authorization approved. SFEs proposed reduced goals approved based on data and justification submitted for PG&E consideration. SFEW also retained the Lodging sector which is no longer available to other Energy Watch programs per negotiation as well as received approval for more flexible definition for hard to reach in the multi-family sector.
- ENERGY: BayREN contract finalized.
- ENERGY: Recipient of Solar Powering America by Recognizing Communities (SPARC) status from U.S. DOE. SPARC status will provide San Francisco with recognition and up to \$100,000 in technical assistance from NREL. The SPARC designation, coupled with robust and agile technical assistance, will spur communities across the country to earn recognition for achievements that distinguish them from their peers as they become more solar-friendly, and in doing so, ignite local solar markets while establishing consistency in solar practices across the country.

### **Public Events/Conferences (e.g., conferences attended, speaking engagements, travel for work, etc)**

- TOXICS REDUCTION: Held Green Business Annual Award Ceremony on Wednesday February 10<sup>th</sup> – 71 Businesses were honored at the event.
- TOXICS REDUCTION: Hosted collaborative strategy meeting with state/federal government and non-profits. Goal was to get a better understanding where commercial toxics can partner with organizations on emerging issues.
- GREEN BUILDING: Rich attended and presented (session on “Consumer Protections in Residential PACE”) at first ever PACE Nation Summit in Denver CO, March 1-2.



Attended by nearly 400 PACE lenders, contractors, program administrators, and local, state, and federal government representatives from around the country, the Summit featured panel discussions and deep-dive sessions on topics including: residential growth in California and Florida; commercial project development; PACE accounting treatment; mortgage lender consent process; PACE and solar PPAs; PACE for nonprofits/affordable housing; and regulatory updates from FHA, FHFA, HUD, and the White House.

- GREEN BUILDING: Mark attended Adventures in Engineering: Bio-facades, Optimizing the Built Environment Using Data, and Design for the Digital Age.
- ENERGY: meeting of the Empowered Communities Project with 8 neighborhoods represented, staff presented on Solar+Energy Storage.
- ENERGY: attended conference "California's Distributed Energy Future".
- CLIMATE: Climate Leadership forum in Seattle, presented on implementation strategies.
- ENERGY: Attended Commonwealth Club conversation with U.S. DOE Energy Secretary Moniz and clean tech leaders.
- ENERGY: Attended Effective Communication Training.

#### **Other Noteworthy items (e.g., awards, milestones, open RFPs, outgoing grants, etc)**

- ENVIRONMENTAL JUSTICE: received a new work order from MOHCD for \$75,000, for FY 2016-17. This supports Sraddha Mehta's work with MOHCD to reduce pests and pesticides at RAD sites.
- ENVIRONMENTAL JUSTICE: EJ's technical contractor, AECOM, performing a health risk screening/risk assessment for 900 Innes Avenue, property owned by SF Recreation and Parks Department for expansion of the India Basin Shoreline Park in Bayview. EJ is also performing a site assessment of an upland area of Yosemite Slough, near Van Dyke Avenue in Bayview, as part of the Department's brownfield site assessments funded by EPA, in support of development of the Blue Greenway.
- GREEN BUILDING: Residential PACE program continues to gain momentum. Current project volume: 51 projects have been funded worth \$1,391,344 (~\$400K more than last quarter). Marketing plan implementation now underway.
- GREEN BUILDING: Recent Municipal LEED certification: SFFD Fire Station #36 has achieved LEED IDC Gold certification. Palega Recreation Center has achieved LEED BDC Gold certification. This brings the total Municipal LEED certifications to 5.8 million square feet.
- GREEN BUILDING: Mark participated on a selection panel for SFO Zero Waste Plan consultant.
- BIODIVERSITY: Front page Chronicle article about the SF Plant Finder.

- OUTREACH: After much preparation and work we are ready to launch our unique, free standing, translated web portals. SFE's most pertinent and popular content has been translated into Chinese, Spanish, and Filipino, and is now living within a culturally competent and dedicated section. The experience is far superior to that of the many others in the city using Google Translate. Our Language Access representatives are quite excited, as are we. And we want to specially thank Lisa Abboud and her team from InterEthnica, as well as the team from CivicActions who helped make this possible.
- OUTREACH/ZERO WASTE: completed the first significant ZW research in the last 10 years. We surveyed the city at large, in three languages, and found that we have 80+% awareness of our zero waste programing. However, there are a significant number of people who understand the system and yet admit they don't always use it correctly; future research will be directed at understanding those motivations (or lack thereof). Until then we have identified a few target audiences who show a potential benefit from enhanced communications. We are moving forward with creating a campaign to launch before the end of the Fiscal Year.
- ZERO WASTE: Toured Goodwill's electronics sorting facility, Recompute, in Redwood City and Bio-Link Depot, a lab equipment reuse nonprofit. Last ton of material went to Altamont and first ton went to Hay Road Landfill. Served on interview panel for City of Oakland Senior Recycling Specialist. Met with Rec and Park and Biobag, a compostable bag company, to discuss a dog feces composting pilot. Toured Hay Road Landfill (to see some of the first SF tons arriving), Jepson Prairie and Blossom Valley North composting facilities, and a wood mulching and dying operation with Recology. Got Recology to agree to recycle school lunch plastic trays (30,000/day) with students shaking out food into composting bins.
- CLIMATE: Completed the FY 2015 Municipal inventory and provided to each department Climate Liaison.
- CLIMATE: Completed collecting and compiling data on municipal boilers as a first step in developing a plan for de-carbonizing heating in City's buildings.
- CLIMATE: Joined a local government letter to Commissioner McAllister at the CA Energy Commission about changing title 24 energy code to better allow new construction projects to use electric technologies rather than natural gas, a potent source of our carbon emissions.
- ENERGY: Broomhead accepted as a member of the California Energy Efficiency Coordinating Committee and attending meetings in San Diego and San Francisco. Jessie Denver is proxy.

- BIODIVERSITY: Convened ecological stakeholder meeting to provide input to implement the Yerba Buena Island Habitat Management Plan. Also met with Life Learning Academy and Treasure Island Homeless Development Initiative to cultivate community stewardship partnerships.