



CITY AND COUNTY OF SAN FRANCISCO
COMMISSION ON THE ENVIRONMENT DIRECTOR'S REPORT
March 28, 2017

This report covers San Francisco Department of the Environment updates for the period of January 1 – February 28, 2017. Glossary of acronyms at bottom of report.

Residential Programs

- ZERO WASTE: Worked with Recology to install recycling at 418 curbside residences and composting at 1,397. Deemed 4 apartment accounts service compliant. Improved source separation at 296 apartment accounts since July 1, 2016. Removed processing charge at 1 apartment building. Participated on panel for Sunnydale recycling and composting services RFP. Installed textile collection at 2 locations, including working with Pest-Tec to provide textile and food collection to customers to reduce clutter and pests. Consulted Hennepin County, Minnesota on their multi-family composting collection program.
- ENERGY: Staff has organized, as a part of the BayREN Codes & Standards team, a Household Electrification as a Pathway to On-Site ZNE Forum. The intent of this event (to be held in March) is to help local governments address misconceptions and questions about 2016 Title 24, Part 6 (Energy Code) implications for designing new, or applying deep energy retrofits for, all-electric low-rise residential buildings, which are expected to increase as local governments work to integrate state goals to achieve zero net energy (ZNE) buildings.
- ENERGY: The BayREN multifamily program has a goal of renovating 1,216 units in 2017. In just two months, the BayREN team has successfully enrolled 612 units (half of annual goal). This early success ensures ENERGY has time to not only exceed contractual goals, but also allows time and budget to work on 2018 enrollment and Zero Net Energy projects, like the one in process for Chinatown Community Development Center (CCDC).
- TOXICS REDUCTION: Residential Team staff made routine site visits to nine retail "Take-Back" partners and trained two new partners at Cole Hardware in North Beach and Cole Hardware in SOMA.
- TOXICS REDUCTION: Launched a month long on-line used oil outreach campaign to encourage residents to bring their used motor oil and filters to one of the 25 Certified Collection Centers in San Francisco.
- TOXICS REDUCTION: Completed major revision of 2011 Operations Plan and Permit Documents for San Francisco Household Hazardous Waste Collection Facility and submitted to SF Department of Public Health, Hazardous Materials Unified Program Agency.
- TOXICS REDUCTION: Presented Healthy Homes Tenant Workshops on Integrated Pest Management and Safer Cleaning Practices at two community housing developments at 350 Ellis & 1251 Turk.
- TOXICS REDUCTION: Hosted the Northern California Household Hazardous Waste Information Exchange meeting to network, discuss, and present on topics surrounding proper

management of hazardous waste in homes. The meeting gathered nearly 100 working professionals from non-profit groups, businesses, government organizations, and NGOs.

- TOXICS REDUCTION: The industry-funded medicine take-back program is operational. There are currently 23 medicine drop-off locations in the program, including many of the pharmacies that were participating in the medicine disposal Pilot Program and all SF police stations. We expect more drop-off locations to come on board in the coming months. There are also 32 mail-back distribution locations, where the public can go and pick up a free, prepaid mail-back envelope to fill up at home and send through the mail for proper disposal. All SF library branches serve as mail-back distribution locations, as well as a handful of other locations such as the San Francisco Society for the Prevention of Cruelty to Animals (SPCA).
- ENVIRONMENTAL JUSTICE: Worked in partnership with TOXICS REDUCTION to provide Integrated Pest Management (IPM) workshop for tenants at Tenderloin low-income housing site, in Chinese language. Also worked with John Stewart, Mayor's Office and Pestec to address bed bug infestation problems prior to tenant relocation to new housing units at Hunters View.
- ENVIRONMENTAL JUSTICE: Worked with TOXICS REDUCTION to conduct model unit inspections at various low-income housing sites. These sites were recently transferred from SF Housing Authority to private developers under the Rental Assistance Development (RAD) program and these inspections are to ensure pest-proofing measures are adopted during rehab.
- SCHOOL EDUCATION: Gave 48 Assemblies, Trainings, and Presentations at 34 schools. Reached 4,046 students and 30 adults.
- OUTREACH: The Energy and Outreach team launched an Electric Vehicle advertising campaign with social media and digital display advertisements. The campaign plays off of current events with a tagline of "Alternative vehicles, not #altfacts" and directs to an [EV incentives page](#) detailing the "facts" about buying an EV. Early results indicate success and positive feedback - high level of engagement on social posts and high click-through rate. Since launching the EV incentives page has been the number one viewed page on sfenvironment.org (higher than the homepage and jobs page). Sample social postings here: [Facebook](#), [Instagram](#) and [Twitter](#).
- OUTREACH: Launched a 6-week pilot campaign to raise awareness of and encourage homeowners to utilize residential PACE financing to access energy-saving, water-saving and renewable-energy home upgrades. Demographic and building infrastructure data was used to identify approximately 18,000 households with a high propensity to participate; these households received communications on multiple channels, including letters, social media and digital display advertisements.
- OUTREACH: staff and volunteers participated and tabled at:
 - o Sacred Heart Employee Health and Wellness Fair (200 adults)
 - o Sisterhood Gardens tree planting (60 people)
 - o Jewish Community Center's Saturday Unplugged Event (100 people)
 - o Community Clean Team in the Sunset (30 people)
 - o Tenderloin-focused cigarette butt cleanup event (30 people)
 - o Mount Sutro stewardship event

- o Science Saturdays at Heron's Head (20 people)
- o Neighborhood Empowerment Network's annual award ceremony (300 people)
- o Spring Internship & Service Learning Fair at SF State
- o Martin Luther King Day event at Yerba Buena Gardens,

Commercial Programs

- ZERO WASTE: Worked with Stonestown Galleria, Westfield Centre, Potrero Center, Trader Joe's, 50 California and 1455 Market to improve source separation. Provided recommendations to Mayor's office to improve source separation at all Macy's locations. Worked with 54 other commercial accounts to improve separation. Got CA poultry industry to agree to switch to compliant packaged meat trays by July 1, 2018, by issuing a 1-year waiver for meat/poultry/fish trays packaged outside SF. Revised FAQ on new Food Service and Packaging Waste Reduction Ordinance to address industry concerns. Updated vendor lists of recyclable or compostable packaging and foodware. Met with Victoria, B.C., Public Works Director to discuss food service & packaging and bag reduction ordinances, and future collaboration and support. Processed 10 demolition debris recovery plans from six Districts (2, 3, 6, 8, 9 and 10) resulting in 5,771 tons of material recovered at an average rate of 87%. Conducted site visit at Potrero Hills Landfill and sent emails to obtain disposal information from Waste Connections. Provided DPH evidence of SF Recovery not complying with state law and our debris recovery ordinance.
- ENERGY/CLIMATE: Staff collaborated with the Association of Bay Area Governments to submit the BayREN Commercial Business Plan for California Public Utilities Commission review and approval. Staff from both teams worked closely together on the development of the Plan over the past year. Staff also coordinated reply comments to PG&E's response to BayREN's business plan.
- ENERGY: The San Francisco Energy Watch program held a contractor training (13 unique firms) event on February 7 at the PG&E Pacific Energy Center.
- ENERGY AND OUTREACH: SFEW and OUTREACH are providing support to the U.S. Environmental Protection Agency's Worship Facilities program.
- ENERGY: SFEW participated in the Hotel Council's Green Glove Tour to learn about AT&T's energy efficiency goals and projects and promote SFEW to Hotel Council's members.
- ENERGY: SFEW conducted presentations to multiple stakeholders including but not limited to BOMA (Energy & Environment Commission Meeting) and the Clement Street Merchant Association.
- ENERGY: ABAG filed the BayREN Business Plan for 2018 - 2025. It includes a new commercial chapter (written by Staff) which expands BayREN programs and services. It targets small and medium businesses with three new service offerings: Pay for Performance, meter-based savings for incentives, micro-loan scale up to the entire Bay Area and an Energy Advisor program that provides technical assistance to this sector. The CPUC is currently reviewing Business Plan and will advise at the end of March.
- ENERGY and CLIMATE: Staff presented updates to San Francisco's Green Building Code to Leddy Maytum Stacey Architects. Approximately 20 industry professionals were in attendance.

- TOXICS REDUCTION/GREEN BUSINESS PROGRAM: There are currently 247 Recognized Green Businesses and 97 businesses in process. This is the greatest number of businesses certified in the program so far. The Green Business program continues to work closely with San Francisco International Airport (SFO) airport to recruit retail and restaurants at SFO to the program.
- TOXICS REDUCTION/GREEN BUSINESS PROGRAM: The Green Business Awards were held on February 9th, 2017 at Autodesk with more than 300 attendees registered for the event. 71 businesses were recognized that night. State Senator Scott Weiner, and SFE Director Raphael were keynote speakers for the evening. Jacquelyn Omotalade, President of the Environmental Commission attended as a special guest.
- TOXICS REDUCTION/GREEN BUSINESS PROGRAM: The Green Business Program and SFE Director Raphael approved 6 new businesses and 11 renewal applications for the Clean Technology Payroll Expense Tax Exemption.
- TOXICS REDUCTION: There are now 39 recognized Healthy Nail Salons in San Francisco and 15 in process, out of a total of approximately 300 nail salons in San Francisco. We have a goal of 50 recognized Healthy Nail Salons by the end of June 2017. To date, approximately 450 nail salon technicians have been trained in San Francisco.
- TOXICS REDUCTION: 46 furniture retailers in San Francisco have now pledged to sell furniture that is free of chemical flame retardants, out of approximately 170 furniture retailers in the City. We are working toward a goal of 50 pledged retailers. There are total of 180 furniture retailers in California who have pledged to sell furniture that is free of chemical flame retardants.
- TOXICS REDUCTION: Ongoing outreach to small and medium businesses throughout San Francisco about hazardous waste disposal and Very Small Quantity Generator Program. So far, Environment Now has interacted with 27 business owners in the last two months.

City Department Programs

- ZERO WASTE: Conducted site visits at 25 Van Ness and Upper Noe, Mission, St. Mary's, Betty Ang Ong, Moscone, Richmond and Bernal Heights recreation centers, made recommendations for improvement, rolled-out new recycling and composting bins, smaller trash bins and better signage. Met with Treasure Island Development Authority to plan for rolling out smaller trash bins and more extensive access to composting bins for residents. Presented to 156 employees from DPH, Department of Emergency Management, SFE and Zero Waste Coordinators on zero waste. Presented to 60 contractors and city representatives on construction and demolition debris recovery requirements.
- TOXICS REDUCTION: Green Purchasing Program finalized environmental requirements for the citywide electrical materials contract. The new requirements prohibit inefficient lighting fixtures for City purchase.
- TOXICS REDUCTION: Green Purchasing Program is finalizing environmental specifications for carpet and furniture, which prohibit fluorinated compounds, antimicrobials, and flame retardants in City purchases. The program is also beginning work on a new lighting contract.

- TOXICS REDUCTION: Integrated Pest Management program has obtained state approval for using a novel rodent control approach that will reduce the need for toxic baits.
- ENVIRONMENTAL JUSTICE: Staff worked with Department of Telecommunications and Information Services to have surveillance camera installed, and coordinating with SF Department of Public Health, Public Works and community groups, to address illegal dumping “hot spots” in Bayview, including a site at end of Van Dyke Avenue, near Yosemite Slough and Candlestick Point State Recreation Area.
- CLIMATE: Staff relaunched Municipal Climate Action Planning Program which has been providing City departments up-to-date information on municipal emissions, vehicle fuel and building energy use, and environmental policies and practices related to waste, transportation and purchasing since 2008. Working together, City departments have realized a reduction in municipal emissions from 4% in 2010 to 2% in 2015. Building on this success, Staff is now focusing on supporting departments using their influence to reduce community-wide emissions and on strengthening inter-departmental partnerships to advance city-wide sustainability goals.
- GREEN BUILDING: San Francisco Public Safety Building (308,000 square feet) is now LEED Building Design and Construction 2009 Gold certified. 51 SF municipal buildings are LEED certified totaling 7.2 million square feet.
- GREEN BUILDING: Municipal LEED projects certified during FY17 diverted 93.17 % of Construction and Demolition Debris (6506 tons) from landfill
- GREEN BUILDING: 51 LEED certified municipal construction projects average 27% energy savings over the minimum building code requirements.
- GREEN BUILDING: SF Municipal Green Building Task Force recommended 2 waiver requests for approval: Asian Art Museum, and Moccasin Building 76; both granted by Director Raphael.
- GREEN BUILDING: Supporting SF Public Works introduction of the SITES Rating System, a sustainability-focused framework for landscapes that protect ecosystems and enhance the benefits they provide, such as climate regulation, carbon storage and flood mitigation.

New/Revised Legislation and/or City Hall activity

- ZERO WASTE: Facilitated adoption of Bottle and Package-Free Water Ordinance, expanding previous Bottled Water Ordinance by prohibiting all packaged (not just plastic bottled) water from being sold or distributed on city property and transitioning waiver process to SFE. Convened working group with key city agencies to determine how to most effectively implement ordinance. Reviewed Recology draft refuse rate application, and recommended completeness determination to SFPW and \$8.5 M in reductions. Received and started reviewing final application and attended second technical workshop. Met with City of San Rafael to advise on refuse rate setting and other zero waste issues.
- ENERGY: Electric Vehicle Readiness Ordinance was introduced February 28, 2017 by sponsors Mayor Lee and Supervisor Katy Tang. The Ordinance will require new construction and major renovations to be wired to support Electric Vehicle charging at up to 100% of parking spaces.

- GREEN BUILDING: SF ENV Code Chapter 7 was amended unanimously by BOS on March 7 to require LEED v4 Gold certification for all municipal construction projects of 10,000 square feet and larger.

Press and Media Highlights

- ZERO WASTE: Interviewed on San Francisco zero waste for French and German TV Channel "Arte".
- DIRECTOR: Debbie was quoted and featured prominently in an article entitled "*Trump, Congress Could Halt State Action on Climate*" released by Climate Central. The story was picked up and redistributed by a number of media outlets including KQED, Scientific American, Grist.org, and Salon. <http://www.climatecentral.org/news/trump-congress-state-action-climate-21037>
- DIRECTOR: Debbie wrote a Letter to the Editor of the San Francisco Chronicle in response to coverage of the Trump administration's treatment of EPA employees and the removal of climate data from federal websites. The letter was published on January 28, 2017. <http://www.sfchronicle.com/opinion/letterstoeditor/article/Letters-to-the-Editor-Jan-28-10890150.php>
- ENERGY: Mayor Lee and Supervisor Katy Tang announced the introduction of the EV Ready Ordinance at a press event held on Tuesday, February 28, 2017 that the Department helped organize. The ordinance will require all new buildings in San Francisco to install EV charging capacity. The story got picked up by a few outlets, including Chinese press.
 - o [Proposed Law would require more EV charging in new development \(SF Examiner\)](#)
 - o [Mayor, Tang push for increased electric vehicle facilities in new construction \(KTVU\)](#)
 - o [舊金山新建商住物業 或必須安裝電力車充電系統 \(視頻 \) \(KTSF26\)](#)

Staff Changes

- CLIMATE: Wendy Goodfriend joined the Climate Team as a 5644 Climate Program Manager and is managing the Climate and Green Building teams.

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

- ZERO WASTE/DEVELOPMENT: Issued a request for proposal for Zero Waste projects and school education field trips, with applications due March 24, 2017. The RFP was forwarded to more than 500 organizations and promoted by other grantmaking organizations. Representatives from 38 community-based organizations attend the pre- application conference.

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

- ZERO WASTE: Presented on our zero waste policies and programs at International Forum on Municipal Waste Management in Girona, Spain. Presented at CalRecycle Short Lived Climate Pollutants Reduction Strategy workshop on implementing regulations to reduce landfilled organics by 75% by 2025. Presented on why San Francisco does not count incineration as zero waste at a Zero Waste Summit at UC Davis on whether UC should allow incineration in their zero waste policy.
- DEVELOPMENT: Represented San Francisco in the Climate Risk Assessment Network at the C-40 climate conference in Dubai and presented on our community engagement efforts.
- DEVELOPMENT: Represented the Department at the Annual Boys and Girls Club fundraiser.

- DEVELOPMENT: Represented the Department at annual SFUSD/UCSF conference to introduce high school students to careers in Science, Technology, Engineering and Math.
- DEPARTMENT: Various staff represented the Department at the annual Celebration of Black American History
- ENERGY: Staff coordinated with Siemens to present at "Humble Secret Weapons for Climate Mitigation," a forum on January 18, 2017 hosted by SPUR. The Forum intent was to review the Siemens' analysis of how San Francisco can achieve an 80% reduction in GHG emissions by 2050, and the policies and programs San Francisco is deploying to meet that goal. The report found that building efficiency, renewable electricity, and electric transport are essential to the city's goals, and heat pumps are the measure with the greatest potential. Approximately 25 people were in attendance.
- ENERGY: Staff participated in the US Department of Energy "Energy Transformation in Cities" workshop January 5-6, 2017. The intent of the workshop was to identify how the national laboratories and USDOE can collaborate to plan for and achieve transformational reductions in energy consumption.
- ENERGY: Staff presented Zero Energy Performance Index and Outcome Based Energy Code to San Mateo County planners and energy efficiency program staff on January 24, 2017.
- ENERGY: Staff hosted a delegation from the County of Akershus in Norway (adjacent to Oslo) on February 15. The delegates were on a tour of California to learn about the State's Zero Emission Vehicle goals, and specifically meet with stakeholders working on / researching hydrogen fuel cell electric vehicles and their supporting refueling infrastructure. Staff presented to the delegates on the City's climate goals and Energy program, including details on grants from both the California Energy Commission and USDOE.
- ENERGY: Staff participated in the Bay Area Coordinating Council Meeting held February 22, 2017. The Department sits on the Council which discussed the Bay Area Air Quality Management District's new EV charging grant program, PG&E's new EV charging incentive program, and the State of California's new accessibility requirements for EV charging in existing buildings.
- ENERGY: Staff participated in a California Public Utilities Commission workshop on the Energy Impacts of Cannabis Cultivation on February 28. Staff implementing the San Francisco Energy Watch program is seeking to be proactive in providing comprehensive energy efficiency services to this emerging sector, who in states like Colorado represented 2% of overall electrical load growth in 2016.
- ENERGY: On January 26, 2017 staff facilitated an Electric Vehicle Financing workshop and webinar, in conjunction with Center for Sustainable Energy's Clean Energy Financing Advisory Council (<https://energycenter.org/cefac>). Over 70 registered for the webinar and 30 attended in person.
- TOXICS REDUCTION: Staff provided public comment at the CA Dept of Toxic Substances Control public meeting regarding fluorinated chemicals in furniture.

- TOXICS REDUCTION: Staff delivered a presentation to industry, academia, NGOs and other government officials at the Green Science Policy Institute's roundtable on fluorinated chemicals in food service ware.
- TOXICS REDUCTION: Four members of the Toxics Reduction team attended the Green Science Policy Institute's annual symposium on flame retardants and staff presented on SFE's work to reduce flame retardants and fluorinated compounds in City purchases of furniture and carpet.
- TOXICS REDUCTION: Staff delivered a presentation of chemical research on nail salon products at a public meeting of the CA Dept of Toxic Substances Control.
- TOXICS REDUCTION: Staff presented to California Weed Science Society on urban weed IPM.
- SCHOOL EDUCATION: Two 9922 members of the School Education team attended the Zero Waste USA Workshop and will ultimately receive certification through the series.
- OUTREACH: Delegation Visits to the Department:
 - o 16 UC Davis Humphries fellows for a presentation on Zero Waste and Climate
 - o 20 French Energy professionals
 - o 30 French affordable housing developers
 - o 22 Yale Forestry students for a presentation on environmental careers
 - o 20 Korean graduate students for a presentation on Climate and Green Infrastructure
- CLIMATE: Staff attended the winter Green Cities California workshop in Oceanside, CA where topics including thermal decarbonization, community choice energy, and crowd-sourced financing for sustainability projects were discussed.
- CLIMATE: Staff attended a USDN-sponsored peer-to-peer knowledge exchange on methodology, messaging and strategies for advancing Consumption-based Inventories. Also in attendance at the knowledge exchange were the Cities of Oakland, Eugene and Portland and the Oregon Department of Environmental Quality.
- CLIMATE: Staff attended a workshop on Carbon Dioxide Removal /Negative Emissions Technologies sponsored by the Center for Science, Technology, Medicine and Society at the University of California, Berkeley.
- CLIMATE: Staff attended and presented at the second annual PACE Nation Summit in Denver CO, highlighting SF Bay Area initiatives to improve commercial and residential PACE programs.

Other Noteworthy items (e.g., awards, milestones, grants awarded to Dept, proposals submitted, etc)

- ZERO WASTE: Worked with stakeholders (nonprofits, retailers, recyclers and public agencies) to submit letter to CalRecycle criticizing failings of the carpet industry in complying with and implementing AB 2398 (carpet stewardship). The carpet industry was deemed not compliant and required to resubmit their implementation plan.
- ENERGY: Staff convened internal and external stakeholders, including cities of Oakland and San Jose, to develop and submit a proposal seeking "Green City" designation by Volkswagen. The designation is part of the \$800 million settlement reached with Volkswagen by the

California Air Resources Board and requires Volkswagen to invest in California over the next decade in 4, 30-month periods. The designated Green City will not receive direct funding but will be the recipient of a geographic concentration of investment by Volkswagen throughout the first 30-month investment period (e.g. \$200M).

- ENERGY/DEVELOPMENT: The Department led the development and submission of a proposal to the California Energy Commission for funding to enable San Francisco and Oakland to pilot medium duty electric vehicle delivery vehicles in partnership with private sector stakeholders. The project prioritizes working with medium duty delivery fleets operating in disadvantaged communities, assesses charging infrastructure, provides vehicle procurement support to stakeholders, and provides education and training to fleet managers.
- ENERGY: On February 17, the CEC awarded grants for three hydrogen fueling stations in San Francisco (551 Third Street, 1201 Harrison Street, 3550 Mission Street). Stations generally take 18-24 months from award to retail service. The private sector grant awardee will work with the Department to streamline the permitting and inspection process.
- OUTREACH - The SF Department of Environment was honored with a Data and Innovation Award in recognition of the Department's recently launched multilingual language websites (SFEnvironment.org/es, SFEnvironment.org/fil, SFEnvironment.org/zh). Sponsored by the Mayor's Office of Civic Innovation and Data SF, the Award recognizes innovative practices in San Francisco municipal government. This year's selection process was highly competitive, with nearly 60 entries for six different award categories. The Department's language websites won for the 'User's First' category, which recognizes projects aimed at improving user experience and public access to government information. ([Data Shakers and Innovators](#))
- ENVIRONMENTAL JUSTICE: Coordinating with 20 other San Francisco municipal agencies to participate in racial equity training, provided by the Local and Regional Government Alliance on Race & Equity ([GARE](#)). More than 200 municipal staff are participating in GARE's 2017 Northern California training cohort. In addition to the training, which will be integrated throughout the Department, participation provides an opportunity for SFE participants to build relationships with a range of city departments.
- OUTREACH/ENVIRONMENTAL JUSTICE: The Department partnered in the annual Martin Luther King Day Festival and March for the 10th year. Staff tabled, coordinated volunteers for various components of the event, and participated in the MLK Labor Breakfast honoring Dolores Huerta.
- CLIMATE: Staff recently completed the City's 2015 community-wide GHG inventory. In 2015, community-wide greenhouse gas (GHG) totaled 4.5 million mtCO₂e. From 1990 to 2015 the community of San Francisco successfully reduced its total carbon footprint from 6.2 million to 4.5 million mtCO₂e, which is a reduction of 27.6% below 1990 levels, which surpasses our 2017 reduction target of 25% below 1990 levels. The implementation of energy efficiency programs, solid waste reduction policy, progressive green building codes and standards, and a cleaner grid, among others, are helping drive down emissions. Furthermore, usage of natural gas has decreased precipitously since 2012 (the previous inventory year) primarily influenced by warmer weather. This helped drive down emissions significantly particularly in the Residential and Commercial/Industrial sector. It will remain a challenge to maintain these reduction levels especially since weather plays a significant role affecting natural gas use to heat houses and businesses.

- CLIMATE: Staff is working with a City Performance Team to develop a new, easy to use community-wide emissions inventory dashboard that will allow easy access to the city's emissions data and on the fly data visualization.
- GREEN BUILDING: City-wide, 451 buildings are LEED certified totaling 101.5 million square feet.
- GREEN BUILDING: Mark Palmer, Senior Green Building Coordinator, appointed to Market Leadership Advisory Board of the US Green Building Council Northern California Community.

GLOSSARY

ABAG: Association of Bay Area Governments

ACCO: Association of Climate Change Officers

AOA: Apartment Owners Association

BAAQMD: Bay Area Air Quality Management District

BOMA: Building Owners and Managers Association

BayREN: Bay Area Regional Energy Network

BC3: Business Council on Climate Change

C40: C40 Cities Climate Leadership Group

CAEECC: California Energy Efficiency Coordinating Committee

CAISO: California Independent Systems Operator

CalGreen: California State Green Building Code

CARB: California Air Resources Board

CEC: California Energy Commission

CNCA: Carbon Neutral Cities Alliance

CPUC: California Public Utilities Commission

DBI: SF Department of Building Inspection

DER: Distributed Energy Resources

DOE: U.S. Department of Energy

DPH: SF Public Health

FAA: Federal Aviation Administration

FCEV: Fuel Cell Electric Vehicles

HOPE SF: Housing Opportunities for People Everywhere, San Francisco

ILG: Institute for Local Governments

IOU: Investor Owned Utility

IPM: Integrated Pest Management

HERO: Home Energy Renovation Opportunity

LEED: Leadership in Energy and Environmental Design Green Building Rating System

LGC: Local Government Commission

LGSEC: Local Government Sustainable Energy Coalition

NCRA: Northern California Recycling Association

PACE: Property Assessed Clean Energy

PEV: Plug-in Electric Vehicle

PV: Photovoltaic

RAD: Rental Assistance Demonstration

SFECC: SF Energy Efficiency Coordinating Committee

SFEW: SF Energy Watch

SFO: SF International Airport

SFMTA: SF Municipal Transportation Agency

SFPUC: SF Public Utilities Commission

SFPW: SF Public Works

Title-24 2016: California Energy Code 2016 version

UCSF: University of California, San Francisco

UFC: Urban Forestry Council

USDN: Urban Sustainability Directors Network

USDOE: United States Department of Energy

USDOT: United States Department of Transportation

U.S. EPA: US Environmental Protection Agency

USF: University of San Francisco

USGBC: United States Green Building Council