

Shelia Young, **WMA President**
Oro Loma Sanitary District, WMA

Dianne Martinez, **WMA 1st Vice President**
City of Emeryville, WMA, EC

Bob Carling, **WMA 2nd Vice President**
City of Livermore, WMA, EC

Dan Kalb, **EC President**
City of Oakland, WMA, EC

Jack Balch, **EC 1st Vice President**
City of Pleasanton, WMA, EC

Preston Jordan, **EC 2nd Vice President**
City of Albany, WMA, EC

David Haubert, County of Alameda, WMA, EC

Trish Herrera Spencer, City of Alameda, WMA, EC

Susan Wengraf, City of Berkeley, WMA, EC

Dave Sadoff, Castro Valley Sanitary District, WMA

Melissa Hernandez, City of Dublin, WMA, EC

Jenny Kassan, City of Fremont, WMA, EC

Francisco Zermeno, City of Hayward, WMA, EC

Michael Hannon, City of Newark, WMA, EC

Jen Cavanaugh, City of Piedmont, WMA, EC

Deborah Cox, City of San Leandro, WMA, EC

Jaime Patiño, City of Union City, WMA, EC

Timothy Burroughs, Executive Director

**MEETING OF THE
ALAMEDA COUNTY WASTE MANAGEMENT AUTHORITY
(WMA) BOARD
AND
THE ENERGY COUNCIL (EC)**

Wednesday, September 22, 2021

3:00 P.M.

TELECONFERENCE MEETING

Teleconference/Public Participation Information to Mitigate the Spread of COVID-19

This meeting will be held entirely by teleconference. All Board members, staff, and the public will only participate via the Zoom platform using the process described below. The meeting is being conducted in compliance with the Governor's Executive Order N-29-20 suspending certain teleconference rules required by the Ralph M. Brown Act. The purpose of this order was to provide the safest environment for the public, elected officials, and staff while allowing for continued operation of the government and public participation during the COVID-19 pandemic.

Board members will receive a separate unique email invite. Staff and members of the public may attend and participate in the meeting by:

1. Calling US: +1 669 900 6833 and using the Webinar ID 815 2551 6590
2. Using the [Zoom](#) website or App and entering meeting code 815 2551 6590

During the meeting the chair will explain the process for members of the public to be recognized to offer public comment. The process will be described on the StopWaste website at <http://www.stopwaste.org/virtual-meetings> no later than noon Wednesday, September 22, 2021. The public may also comment during the meeting by sending an e-mail to publiccomment@stopwaste.org prior to the close of public comment on the item being addressed. Each e-mail will be read into the record for up to three minutes.

In accordance with the Americans with Disabilities Act and the Governor's Executive Order, if you need assistance to participate in this meeting due to a disability, please contact the Clerk of the Board at (510) 891-6517. Notification 24 hours prior to the meeting will enable the agency to make reasonable arrangements to ensure accessibility to this meeting.

AGENDA

I. CALL TO ORDER

II. ROLL CALL OF ATTENDANCE

III. ANNOUNCEMENTS BY PRESIDENTS - *(Members are asked to please advise the board or the council if you might need to leave before action items are completed)*

IV. OPEN PUBLIC DISCUSSION FROM THE FLOOR

An opportunity is provided for any member of the public wishing to speak on any matter within the jurisdiction of the board or council, but not listed on the agenda. Total time limit of 30 minutes with each speaker limited to three minutes unless a shorter period of time is set by the President.

Page V. CONSENT CALENDAR

1 1. Approval of the Draft WMA & EC Minutes of July 28, 2021 (Timothy Burroughs)

VI. REGULAR CALENDAR

5 1. SB 1383 Outreach Support for Member Agencies (Michelle Fay)

This item is for information only.

2. Interim appointment(s) to the Recycling Board for WMA appointee unable to attend future Board Meeting(s) (Arliss Dunn)

(Planning Committee and Recycling Board meeting, Thursday, October 14, 2021 at 4:00 p.m.
Meeting location TBD)

7 3. Bay Area Multifamily Building Enhancements – Sonoma Clean Power Partnership (Candis Mary-Dauphin & Ben Cooper) (EC only)

Adopt the attached Resolution authorizing the Executive Director to enter into a contract through December 2022 of up to \$300,000 for implementation of the Sonoma Clean Power contract and other related actions.

VII. MEMBER COMMENTS AND COMMUNICATIONS FROM THE EXECUTIVE DIRECTOR

VIII. ADJOURNMENT

DRAFT

**MINUTES OF THE MEETING OF THE
ALAMEDA COUNTY WASTE MANAGEMENT AUTHORITY (WMA) BOARD
AND
ENERGY COUNCIL (EC)**

Wednesday, July 28, 2021

3:00 P.M.

TELECONFERENCE MEETING

I. CALL TO ORDER

President Young called the meeting to order at 3:00 p.m. Timothy Burroughs explained the process that would be utilized during the meeting. A link to the process is available here: [Virtual-Meetings- Instructions](#)

II. ROLL CALL OF ATTENDANCE

WMA & EC

City of Alameda	Trish Herrera Spencer, WMA, EC
City of Albany	Preston Jordan, WMA, EC
City of Berkeley	Susan Wengraf, WMA, EC
Castro Valley Sanitary District	Dave Sadoff, WMA
City of Dublin	Melissa Hernandez, WMA, EC
City of Fremont	Jenny Kassan, WMA, EC
City of Emeryville	Dianne Martinez, WMA, EC
City of Hayward	Sara Lamnin, WMA, EC (alternate)
City of Livermore	Bob Carling, WMA, EC
City of Newark	Mike Hannon, WMA, EC
City of Oakland	Dan Kalb, WMA, EC (President)
Oro Loma Sanitary District	Shelia Young, WMA (President)
City of Piedmont	Jen Cavanaugh, WMA, EC
City of Pleasanton	Valerie Arkin, WMA, EC (alternate)
City of San Leandro	Deborah Cox, WMA, EC
City of Union City	Jaime Patiño, WMA, EC

Absent:

County of Alameda	David Haubert, WMA, EC
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Staff Participating

Timothy Burroughs, Executive Director
Pat Cabrera, Administrative Services Director
Justin Lehrer, Operations Manager
Rachel Balsley, Senior Program Manager
Karen Kho, Principal Program Manager
Meri Soll, Senior Program Manager
Emily Alvarez, Program Manager
Arliss Dunn, Clerk of the Board
Adrienne Ramirez, Assistant Clerk of the Board
Richard Taylor, WMA Legal Counsel

III. ANNOUNCEMENTS BY PRESIDENTS

President Young stated that this was her first meeting as President of the WMA Board and thanked the Board for electing her to serve.

IV. OPEN PUBLIC DISCUSSION FROM THE FLOOR

There was none.

V. CONSENT CALENDAR

1. **Approval of the Draft WMA & EC Minutes of June 23, 2021 (Timothy Burroughs)**
2. **Adoption of Ordinance 2021-02: Organics Reduction and Recycling Ordinance (Timothy Burroughs & Rachel Balsley)**
That the WMA Board (1) adopt the attached Organics Reduction and Recycling Ordinance and repeal the existing Mandatory Recycling Ordinance effective January 1, 2022 and (2) authorize the Executive Director to enter agreements with member agencies accepting their designation of the WMA as an Enforcement Agency for ORRO within their jurisdictions.

Clerk Arliss Dunn read into the record a public comment received via the public comment email portal. Brian Sano, member of the public and advocate and employee of Compology, submitted a comment urging the Agency to consider applying for a grant program offered by Compology to test the recent advancements in waste metering technology. A copy of the email is attached. There were no other public comments.

Board member Sadoff made the motion to approve the Consent Calendar. Board member Kalb seconded, and the motion carried 18-0: The Clerk called the roll:
(Ayes: Arkin, Carling, Cavanaugh, Cox, Hannon, Hernandez, Jordan, Kalb, Kassan, Lamnin, Martinez, Patiño, Sadoff, Spencer, Wengraf, Young. Nays: None. Abstained: None. Absent: Haubert)

VI. REGULAR CALENDAR

1. **Update on Recycling Market Development Zone Countywide Expansion (Timothy Burroughs, Emily Alvarez & Meri Soll)**
This item is for information only.

Timothy Burroughs and Meri Soll provided an overview of the staff report and presented a PowerPoint presentation. A link to the report and the presentation is available here: [RMDZ-Memo.pdf](#)

Additional time was provided for board members to ask clarifying questions. A link to the discussion is available here: [RMDZ-Discussion](#). There were no public comments on this item.

Mr. Burroughs informed the board that staff will come back in the fourth quarter of the calendar year for the Board to consider approval of an application to CalRecycle to formally expand the Recycling Market Development Zone countywide. President Young thanked staff for the presentation.

2. **Interim appointment(s) to the Recycling Board for WMA appointee unable to attend future Board Meeting(s) (Arliss Dunn) (WMA only)**
(Planning Committee and Recycling Board meeting, Thursday, August 12 at 4:00 p.m. and September 9, 2021 at 7:00 p.m. The meetings will be held via teleconference)
Board member Sadoff requested an interim appointment for the August 12 meeting. President Young

volunteered to attend as the interim appointment. Board member Hannon made the motion to approve the interim appointment and Board member Lamnin seconded. The motion carried 18-0. The Clerk called the roll:

(Ayes: Arkin, Carling, Cavanaugh, Cox, Hannon, Hernandez, Jordan, Kalb, Kassan, Lamnin, Martinez, Patiño, Sadoff, Spencer, Wengraf, Young. Nays: None. Abstained: None. Absent: Haubert)

3. BayREN 2020-22 Contract Amendment #3 for Heat Pump Water Heater Program and Other Services (Karen Kho) (EC only)

Adopt the attached Resolution authorizing the Executive Director to enter into a contract amendment for Bay Area Regional Energy Network (BayREN) services and other related actions.

EC President Kalb chaired the item. Karen Kho provided an overview of the staff report. A link to the report is available here: [BayREN-Amendment-2020-22.pdf](#)

Additional time was provided for board members to ask clarifying questions. A link to the discussion is available here: [BayREN-Discussion](#). There were no public comments on this item.

Board member Jordan made the motion to approve the staff recommendation and Board member Cox seconded. The motion carried 18-0. The Clerk called the roll:

(Ayes: Arkin, Carling, Cavanaugh, Cox, Hannon, Hernandez, Jordan, Kalb, Kassan, Lamnin, Martinez, Patiño, Spencer, Wengraf. Nays: None. Abstained: None. Absent: Haubert)

VII. MEMBER COMMENTS AND COMMUNICATIONS FROM THE EXECUTIVE DIRECTOR

President Young recognized Sara Lamnin, alternate for the City of Hayward, and Valerie Arkin, alternate for the City of Pleasanton. Board member Cavanaugh provided a report on a circular economy course that she attended at UC Berkeley Extension. Board member Cavanaugh thanked the Agency for allocating funding for board members to attend trainings and conferences and encouraged board members to avail themselves of these opportunities.

Timothy Burroughs reminded the Board that the Agency provides funding in the budget to reimburse board members for workshops and trainings.

VIII. ADJOURNMENT

The meeting was adjourned at 4:13 p.m.

Arliss Dunn

From: sanobrian <sanobrian@gmail.com>
Sent: Wednesday, July 28, 2021 11:10 AM
To: publiccomment
Subject: Member of the Public

Dear StopWaste Board and Committee Members,

I believe StopWaste should look into the **recent advancements** of Compology's waste metering technology to address SB1383 and the environmental impact they have on diversion.

Recently, Carol Browner, the former EPA Administrator under President Clinton and assistant to President Obama as the Director of White House Office of Energy and Climate Change policy joined Compology as an advisor.

She said, "As we work to address climate change and build more sustainable companies, proper measurement of waste products and ensuring efficient collection is important." She went on to say, "I'm impressed by the market-leading technology and processes Compology developed for commercial use, and I'm eager to help them make it the standard in the United States."

Compology is a certified B Corp company and was recently recognized by Berg Insight Group as the world's leading smart waste sensor company.

They have a grant program to improve our "city's recycling and diversion, reduce its carbon footprint and save 30% on hauling costs." <https://compology.com/city-grant/>. I urge you to consider applying for this free grant to test the recent advancements in waste metering technology.

Thank you,
Brian Sano
Member of the Public
Advocate and employee of Compology

Sent from my Galaxy

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

DATE: September 22, 2021

TO: Waste Management Authority Board

FROM: Michelle Fay, Program Manager

SUBJECT: SB 1383 Outreach Support for Member Agencies

SUMMARY

SB 1383 regulations require that by February 1, 2022 and annually thereafter, jurisdictions educate organic waste generators of the law, how to properly separate materials, edible food donation requirements, as well as the environmental and public health and safety issues related to organics sent to landfill. To assist member agencies, and in an effort to create consistent messaging across jurisdictions, StopWaste is taking a lead role in the development and initial dissemination of education and outreach materials. At the September 22 meeting, staff will provide an overview of the outreach plan and share samples of materials developed to date.

DISCUSSION

SB 1383 Outreach Plan Overview & Timeline

StopWaste has developed the following four-part outreach plan to support member agencies with the initial education and outreach required by SB 1383.

Outreach Phase	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Phase I: Templates for jurisdictions to provide general notification of upcoming requirements	X						
Phase II: New website landing page and template commercial bill insert			X				
Phase III: Residential bill insert template, overview flyers, translated materials, and a hauler customer service representative training				X	X		
Phase IV: StopWaste's direct outreach begins including a mailing to all commercial and multifamily accounts to comply with the initial outreach requirement for these two sectors					X	X	X

The first phase was implemented in June of this year to provide template content for jurisdictions looking to get an early start on communications with organic waste generators. In August, a new website landing page, www.StopWaste.org/Rules, was launched as a central location for users to view general information about the new law. Additionally, StopWaste developed a bill insert

template for jurisdictions to share with their haulers for dissemination in commercial and multifamily bills.

Phase three is currently underway and will include a residential bill insert template, general information flyers, outreach materials for city/hauler use, and general information about the law translated in multiple languages. StopWaste will also host a training to help bring hauler customer service representatives up to speed on the new rules and their role to help accounts comply with the law. A contract template for surplus edible food generator donations will also be made available.

Beginning in October, StopWaste will implement phase four focused on direct outreach to organic waste generators, including a direct mail letter to all commercial and multifamily accounts in the county to officially notify them of the new law and resources to help with compliance. This StopWaste-mailed letter will meet the initial SB 1383 notification requirements for commercial and multifamily organic waste generators. Member agencies will need to disseminate the required initial notification to single-family residents, which can be done via the template residential bill insert and/or template letter provided by StopWaste.

StopWaste will work with outreach partners such as chambers and business associations to help spread the word in the business community, and the Agency's email distribution platform will be used to communicate in an on-going basis with generators. Template countywide outdoor bin decals with standard terminology and images will be provided for optional use by jurisdictions, and the StopWaste sign maker tool will be updated to comply with SB 1383 regulations.

Recommendation

This item is for information only.



DATE: September 22, 2021

TO: Energy Council

FROM: Candis Mary-Dauphin, Program Manager
Ben Cooper, Program Manager

SUBJECT: Bay Area Multifamily Building Enhancements – Sonoma Clean Power Partnership

SUMMARY

Staff is requesting Energy Council approval to enter into a contract to provide supplemental incentive funding for BayREN Multifamily program participants to overcome barriers to building electrification. Although these incentives would only be available to projects within the Sonoma Clean Power territory, the project is a proof-of-concept for working with other Community Choice Aggregators to offer funding for electric panel and related upgrades more broadly in the future.

DISCUSSION

In order to accelerate adoption of building electrification, the BayREN Multifamily program began offering a Clean Heating Pathway in 2020. This program provides higher levels of incentives and technical assistance for projects interested in pursuing scopes of work that contain at least one major gas-to-electric upgrade, and no gas-to-gas upgrades. Electrifying appliances and equipment are expensive and can be cost prohibitive when substantial electrical system work such as panel upgrades or branch circuit wiring are also needed. The BayREN Multifamily program's primary source of funding – California Public Utility Commission energy ratepayer funds – does not allow the use of incentives for electrical system upgrades, even though these upgrades can exceed the cost of purchasing and installing electric appliances themselves. The proposed contract would make available \$270,000 for direct incentives for electrical upgrades, with \$30,000 allocated to the Energy Council for associated administrative costs.

This project supports the BayREN multifamily program's goal of aligning with local and state agencies and utilities to offer electrification to reduce building-related GHG emissions and promote cleaner, more resilient housing.

RECOMMENDATION

Adopt the attached Resolution authorizing the Executive Director to enter into a contract through December 2022 of up to \$300,000 for implementation of the Sonoma Clean Power contract and other related actions.

Attachments:

Attachment A: Resolution #EC 2021- __

Attachment B: Proposed Scope of Work

Attachment A

**ENERGY COUNCIL
RESOLUTION #EC 2021 – __**

**MOVED:
SECONDED:**

**AT THE MEETING HELD SEPTEMBER 22, 2021
RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO ENTER INTO A CONTRACT FOR THE
SONOMA CLEAN POWER PARTNERSHIP AND OTHER RELATED ACTIONS**

WHEREAS, the Energy Council recognizes that it is in the interest of the local, regional, state, and federal agencies to stimulate the economy; create and retain jobs; reduce fossil fuel emissions; and reduce total energy usage and improve energy efficiency; and

WHEREAS, the Energy Council was formed to seek funding to develop and implement programs and policies that reduce energy demand, increase energy efficiency, advance the use of clean, efficient and renewable resources, and help create climate resilient communities; and

WHEREAS, the Energy Council implements the Bay Area Multifamily Building Enhancements (BAMBE) program for the Bay Area Regional Energy Network; and

WHEREAS, the Sonoma Clean Power Authority (SCPA) seeks to accelerate multifamily electrification and overcome market adoption barriers; and

WHEREAS, SCPA intends to provide the Energy Council with a contract of \$300,000 for the scope of work described in Attachment A;

NOW THEREFORE, BE IT RESOLVED, that the Energy Council hereby authorizes the Executive Director to:

1. Enter into all necessary contracts and agreements with SCPA in order to accept funds of up to \$300,000 and make any necessary changes to the FY 2021-22 budget to add Project 1341: Sonoma Clean Power Partnership.
2. Approve any required time extensions, modifications, or amendments thereto.
3. Allocate the necessary resources to implement and carry out the amended scope of work.

BE IT FURTHER RESOLVED that the Executive Director as the Board President's designee, is hereby authorized to execute on behalf of the Energy Council all grant-related documents, including, but not limited to, applications, payment requests, agreements (including the hiring of temporary staff), and amendments necessary to secure grant funds and to implement the approved grant projects.

ADOPTED this 22nd day of September 2021, by the following votes:

AYES:

NOES:

ABSENT:

ABSTAINED:

I certify that under the penalty of perjury that the foregoing is a full, true and correct copy of Resolution
#EC 2021 – __

Arliss Dunn, Clerk of the Board

Attachment B
Sonoma Clean Power Partnership Scope and Budget

This proposed contract builds upon the project identification, enrollment and close-out processes that are conducted as part of the BayREN Multifamily program. The additional scope of work made possible by the contract includes:

Deliverables	Description	Not-to-exceed									
Account and Project Administration	Monthly report showing incentives paid on behalf of Sonoma Clean Power and incentive processing.	\$30,000									
Supplemental Incentives	<table border="1"> <thead> <tr> <th>Eligible Measures</th><th>Incentive Amount</th><th>Low Income Bonus</th></tr> </thead> <tbody> <tr> <td>Central Panel Upgrade, including associated wiring and infrastructure</td><td>\$5,000</td><td>\$0</td></tr> <tr> <td>In-unit Panel Upgrade, including associated wiring and infrastructure</td><td>\$500</td><td>\$250</td></tr> </tbody> </table>	Eligible Measures	Incentive Amount	Low Income Bonus	Central Panel Upgrade, including associated wiring and infrastructure	\$5,000	\$0	In-unit Panel Upgrade, including associated wiring and infrastructure	\$500	\$250	\$270,000
Eligible Measures	Incentive Amount	Low Income Bonus									
Central Panel Upgrade, including associated wiring and infrastructure	\$5,000	\$0									
In-unit Panel Upgrade, including associated wiring and infrastructure	\$500	\$250									
Budget		\$300,000									

**October 2021
Meetings Schedule**

Alameda County Waste Management Authority, the Energy Council, & Source Reduction and Recycling Board
(Meeting locations TBD)

SUN	MON	TUES	WED	THURS	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11 AGENCY HOLIDAY	12	13	14 9:00 AM Programs & Administration Committee Key Items: 1. State Recycling Commission Recommendations and local implications <hr/> 4:00 PM Planning Committee & Recycling Board Key Items: 1. State Recycling Commission Recommendations and local implications 2. Castro Valley Sanitary District presentation on textile recycling efforts	15	16
17	18	19	20	21	22	23
24	25	26	27 3:00 P.M. Waste Management Authority & Energy Council Key Items: 1. Legislative update 2. Water-saving resources during drought	28	29	30
31						

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Energy Council
TECHNICAL ADVISORY GROUP (TAG)
Tuesday, August 17, 2021 – 1:00 pm to 3:00 pm

Attendance (all via phone):

Alameda County: Emily Sadigh, Sophie McGuinness

City of Alameda: Danielle Mieler

City of Albany: Michelle Plouse, Lizzie Carrade

City of Berkeley: Billi Romain

City of Emeryville: Matt Anderson, Nancy Humphrey

City of Fremont: Rachel DiFranco

City of Hayward: Erik Pearson, Nicole Grucky

City of Oakland: Shayna Hirshfield-Gold, Jeffery Wong

City of Piedmont: Alyssa Dykman

City of Pleasanton: Zeelaura Page

City of San Leandro: Hoi-Fei Mok

StopWaste: Jennifer West, Emily Alvarez, Chris Hunter, Timothy Burroughs, Heather Larson, Meghan Starkey

Guests: Alex DiGiorgio, EBCE; Connie Malone Jones, Maria Fields and Jessica Carroll, BayREN Business; Karen Kristiansson, BayREN

Meeting Summary:

Introductions and Welcome

BayREN Business Program – BayREN Business Team (TRC and MCloud) and Chris Hunter, StopWaste

- BayREN Business launched this summer, led by SF Environment with TRC and mCloud as implementers
 - Goal: help small-to-medium business upgrade their buildings and lower operating costs
 - Eligibility: more than 50,000 sf, monthly energy bills of >\$2,500, PG&E customer for at least gas or electricity, and located in one of the 9 Bay Area counties
 - Leases are fine as long as the lease is 3+ years
- AssetCare: low-cost monthly subscription with no up-front capital costs. Data and machine learning are used to improve comfort and air quality and reduce energy.
 - 24/7 system monitoring and customer service
 - Allows businesses to take advantage of time of use electricity pricing and other upcoming changes to the energy market
 - Removes burden of building management, allows owner to focus on running the business
- How it works:
 - mCloud performs a free site assessment to determine customer needs
 - Connect assets depending on needs (LEDs, smart thermostats, sensors, refrigeration, HVAC upgrades, etc.)
 - Monitoring and asset control begins, can often reset system components and resolve issues remotely
 - Performance tracking allows mCloud to make continued operational improvements
 - Usage data can help with EnergyStar benchmarking
- Through BayREN Business first 3 months of the 3-year (minimum commitment) subscription are free
 - Monthly cost depends on size of building and equipment installed, typically \$250-900, designed to be cash flow neutral or slightly positive
- Businesses can enroll by submitting an interest form at: www.bayrenbusiness.org

- Rely on local partners to connect with target customers -- Chris Hunter is Alameda County outreach point person
 - Send directly to business owners that may be interested
 - Host a webinar
 - Coordinate presentations at local events and stakeholder meetings like Chambers of Commerce
 - Presented to Green Business Collaboration and working with 9 counties to promote with Green Business and Energy Watches throughout BayREN
- BayREN can make referrals to other programs for businesses that are not a good fit for AssetCare
 - One program is the BayREN Microloan Program, offered in partnership with Mission Asset Fund: missionassetfund.org/BayREN
 - Looking to layer programs with CCAs or municipal power agencies' offerings
- How many Bay Area customers are you working with, and for how long?
 - New to Bay Area but have worked in PG&E territory and run similar ConEd program

Resilience: Seismic Retrofit - Danielle Mieler, City of Alameda

- East Bay has an older building stock (pre-1980) in need of comprehensive upgrades for resilience
 - Most buildings need seismic retrofits to prevent loss of life and displacement of residents
 - Many older bldgs are naturally occurring affordable housing (without upgrades)
 - Most are not insured for seismic losses
 - There are GHG emissions associated with demolition and new construction of buildings
- USGS Haywired scenario modeled likely significant earthquake on Hayward fault:
 - \$82 billion in property damage
 - Gas and electric fires could ignite and spread quickly
 - 77,000 households displaced
 - Even new buildings sustain significant damage
- Typical vulnerable building types popular in county (<https://homequakequiz.org/quiz>): house over garage, cripple wall, hillside, mobile home, unreinforced masonry, older concrete buildings
- CA Earthquake Authority Brace and Bolt program provides \$3,000 grant via lottery to make upgrades to single family homes (typical cost \$10,000)
- Many soft-story retrofit programs (Oakland, Berkeley, Alameda, Fremont, Hayward, SF)
 - ABAG has resources <https://abag.ca.gov/soft-story-resources-policy>
 - Retrofit incentives include density bonuses, zoning incentives, FEMA mitigation grants, CDBG grants (to low-income homeowners), and low-cost loans
- Unreinforced Masonry (URM) Law (1986) required local governments in high seismic zones to inventory and establish a loss reduction program but retrofits were not required
 - Later laws required earthquake warnings at building entrances
 - Many URM programs are not enforced
- Concrete buildings (often large commercial and industrial) perform poorly during earthquakes due to limited amount of reinforcing steel
- Other issues: falling chimneys, natural gas rupture (risk reduced through decarbonization)
- Need to bring public health into programs (Ex: Contra Costa County program with home health nurses)
 - Building departments' main focus is on life, health, and safety. Seismic concerns may resonate with building departments -- incorporate sustainability into messaging?
 - Does seismic readiness affect credit ratings of cities?

- It is not easy to integrate energy, health, and other improvements given the different workforce/specialties/programs (i.e. structural engineer for seismic; plumber/electrician for HPWH)
 - There is a need to train contractors and realize co-benefits

Municipal Sector Priorities - Heather Larson, StopWaste and Karen Kristiansson, BayREN

- BayREN filing new business plans (BP) in February -- investigating demand for public program
- Potential public programs:
 - Technical Assistance (TA) for Municipal Zero Net Energy/Carbon program: expand to cover EVs and storage, and/or electrification readiness assessments and project delivery assistance
 - Energy Efficiency TA program, similar to what East Bay Energy Watch (EBEW) provided: audits and assessments, handholding, identifying incentives/financing
 - Resource program: metered energy savings with funds to implement energy-saving projects
 - SoCalREN model: minimum 10% energy savings, priority to facilities serving disadvantaged communities
 - Local government capacity support: funding for fellows/interns/stipends, toolkits (instructions, templates, on-call assistance, planning support), or facility manager training
 - Building Energy Management Systems: software to track energy use & analyze data
 - Climate Action and Adaptation planning: GHG inventories and AB 3232 alignment, fuel substitution measure analysis, Local Hazard Mitigation Plan and energy resilience support
- What should BayREN do at a regional scale and where are gaps in the current offerings?
 - More support and deeper dive for electrification
 - Capacity support for project management, not just analysis
 - Would fellows be able to work on non-EE projects? Like EVs/EBCE
- Several jurisdictions volunteered to be a focus group for more conversation

TAG Sharepoint Walk-Through – Emily Alvarez, StopWaste

Announcements & Take-aways

- Hosting summer BayREN webinars August/Sept:
 - Aug. 19 induction cooking demo on making the most of summer produce
- 2022 Energy Code (Title 24) was adopted last week - requiring either HPWH or heat pump space heating in residential new construction, depending on your climate zone
 - Climate Zone 3 (most of Alameda County, west of Dublin) requires HP space heating, Climate Zone 12 (Dublin, Livermore, Pleasanton, some Alameda County unincorporated) requires HPWH
- CCEC session Aug. 18 on evolving climate planning practice