

MEETING NOTES

Energy Council TECHNICAL ADVISORY GROUP (TAG)

Tuesday, July 19 2016 – 1:00 pm to 3:00 pm

Attendance:

City of Albany: Claire Griffing

City of Berkeley: Billi Romain, Caytie Campbell-Orrrock (Civic Spark)

City of Dublin: Shannan Young

City of Emeryville: Nancy Humphrey, Hoi Fei Mok (Civic Spark)

City of Fremont: Rachel DiFranco

City of Hayward: Mary Thomas

City of Oakland: Shayna Hirshfield-Gold, Ben Silverman (Civic Spark)

City of Piedmont: Matt Anderson (Piedmont)

City of Union City: Avalon Schultz (phone)

StopWaste: Heather Larson, Candis Mary-Dauphin, Miya Kitahhara

Guests: Kacia Brockman (San Francisco Dept of the Environment), Katie Van Dyke (City of Berkeley),

Marna Schwartz (City of Berkeley), Zipul Gore (Gridscape Solutions)

Board Updates

- No EC items going to the board at this time

CCE Updates

- JPA formation is in process. Most cities are planning to bring JPA membership to Council in October. Hayward is planning to go in September.
- The board will have a 9-member community steering committee the chair of which will be a nonvoting member of the board of supervisors
- Solar siting survey updates were discussed at last meeting
- Uncertainty remains around how energy efficiency and renewable energy programs fit into the existing program landscape
- Based on independently conducted member agency research, the additional cost of a 100% green option for existing CCA's is 1.5 cents. PG&E's deep green option has a 2.8 cent premium.

Program Updates

- Bay REN business plan discussion will be held on Friday.
- Single family homeowner workshops are winding down for the summer and will re-launch in the fall. Member agencies were requested to take Home Upgrade and Home Energy Score collateral to permit counters. Five packets were distributed.
- Multifamily outreach in Alameda will resume in the fall. StopWaste is seeking jurisdictions interested in hosting a workshop
- BayREN Codes & Standards training courses have been updated to include 2016 energy code changes. Berkeley and Piedmont have requested trainings, Fremont is considering.

- BayREN Commercial PACE Year-1 progress report findings and recommendations presented.

GPC Inventory Coordination

- ICLEI is designing and facilitating a GPC inventory training for September.
- Civic Spark Fellows attending the training will transition shortly afterward, so StopWaste will coordinate a follow up training sometime after October

Community Scale Energy and Micro-grid Project Presentations

Presentations available in TAG Dropbox folder

- Solar + Storage for Resiliency
 - Kacia Brockman, San Francisco Dept of the Environment
- Micro-grids on Critical Fire Station Facilities
 - Rachel DiFranco, City of Fremont & Zipul Gore, Gridscape Solutions
- The Oakland Eco Block- A ZNE Low Water Use Retrofit Neighborhood Demonstration
 - Shayna Hirshfield-Gold, City of Oakland
- Peninsula Advanced Energy Community
 - Rachael Londer, San Mateo County
- Berkley Energy Assurance Transformation (BEAT) project
 - Katie Van Dyke, City of Berkeley
- The group of presenters is interested in checking back in in approximately a year to share progress, challenges, and lessons learned with one another and the group.

Member Comments & Discussion

3:00-4:30 pm Civic Spark Coordination

NEXT TAG MEETING: August 16, 2016 1-3pm + Civic Spark 2016 Close-out Event 3-4:30 pm.

MEETING NOTES

Energy Council TECHNICAL ADVISORY GROUP (TAG)

Tuesday, August 16 2016 – 1:00 pm to 3:00 pm

Attendance:

City of Berkeley: Billi Romain, Caytie Campbell-Orrrock (Civic Spark)

City of Dublin: Shannan Young

City of Hayward: Mary Thomas, Gilee Corral (CivicSpark)

City of Livermore: Judy Erlandson (phone)

City of Newark: Myvan Khuu-Seeman (phone)

City of Oakland: Shayna Hirshfield-Gold, Ben Silverman (Civic Spark)

City of Piedmont: Emily Alvarez, Matt Anderson (Civic Spark)

City of San Leandro: Sally Barros

StopWaste: Karen Kho, Heather Larson, Wes Sullens, Miya Kitahara, Tommy Fenster, Wendy Sommer

Guests: East Bay Clean Power Alliance Jessica Tovar, Al Weinrub, Chuck Roselle

Meeting Notes

CCE Updates

- JPA went to County board of supervisors on August 2. Board needed more time so item was delayed to September. City process for JPA adoption will be delayed.
 - Supervisors had some good questions and felt it was a little rushed so pushed back to make an informed decisions
 - LEAN will be following up with cities about rescheduling JPA item

East Bay Clean Power Alliance Presentation and Discussion

- Vision for ideal CCA for Alameda County and activities they have engaged in to develop this program. (see handout)
 - New agency does not look like a utility. Role is to be a green economic driver for the community. Revenues stay in the community not to shareholders.
 - Demand reduction/energy efficiency/optimization is just as important as generation of new resources
 - Would like to see a plan and optimal build out development of local assets.
 - i. First, leveling the demand profile of energy use in the community
 - ii. Second part is new local generation
 - 1. Mostly solar. Examine energy generation potential, where it is located and economics as well as social factors associated with it.
 - a. County said they would do a solar siting survey

- iii. Integration of Demand reduction and local generation so that it is an optimum flexible system. Do not want to get boxed in from the outset via procurement deals.
 - A lot of the work will happen in regards to behind the meter programs and incentives (customer side, as opposed to grid side).
 - Economic development/employment pathways along union apprenticeships, regulations, etc.
- Long term viability of this program depends on local assets. Cannot just rely on what the CCA can purchase on the open market, because it is volatile.
- Community organizing efforts as part of East Bay Clean Power Alliance.
 - Focus on environmental justice issues. They have 52 community signatories.
 - Advocating for a unionized workforce that can install and do maintenance on the whole system instead of just being constrained to smaller jobs. (ie solar installers)
- Concern that CCA doesn't get sucked into same problems of large utilities: dealing with the costs of stranded power producing assets. Utilities have large central generators that they depend on running. Consumers get stuck with paying for these out of date assets.
- To have low cost flexible program: essential to have a sound business plan that focuses on being able to finance local generation, create standards for creating energy, have whatever gets built up be able to be integrated into PG&E's grid for backup scenarios.
- Solar more expensive locally because permitting and standards are out of date. These soft costs drive up the prices. Proper smart regulation allows solar to compete with utility sized solar in places like the desert.
- The CCA can also provide coordination for the development of larger community projects.
- If the coastal counties go with CCA, then over 50% of California will be part of CCA. If the CCAs depend on market procurement it will just look like a utility with demand driving up prices.
- Requires new business model. Need to develop local infrastructure that can provide a model for the other CCAs on how to provide power in an efficient fashion.
 - MCE started as a market procurement program and are building out local resources with net revenue. This is a slow model. In Alameda County infrastructure could be built up with upfront investment, and returns over the long term.
 - Sonoma Clean Power is ahead of MCE because they have substantial local generation potential (ie geothermal). Still no real business development plan
 - SF developed a business plan with investment and returns, but it was killed politically because it's PG&E's headquarters.
 - Most new CCA's (Peninsula, Silicon Valley) are following the Marin model.
 - Need a new model that does not build incrementally. This would be groundbreaking, but none of it technologically infeasible. All the pieces are happening separately. City of Lancaster in So Cal is the closest to this approach.

- Seems to be a need for coordination between cities micro/ smart grid infrastructure and CCA efforts.
- How will local build-out be financed?
 - Most revolutionary thing is the development of solar bonds for individuals and cities to build up solar.
 - Currently largest amount of bond funding going to JPA's in CA.
- Questions from Shayna (Oakland): Cities working hard to build solar. Are they wholly against market procurement? Are they working with powerhouse (SF fund cube) and other solar incubators on unionization? Are they working on easing regulation for building on brown fields and opening up financing on these sites?
 - Not against market procurement. Recognize on day 1 that you will need to procure. Just want a plan on how to displace that as quickly as possible.
- EBCPA participates in CCE monthly steering committee meetings and occasional city council meetings, but has not been communicating directly with city representatives
 - TAG members suggested that EBCPA go through the city's CCE steering committee member to get on Council Agendas

Program Updates

- BayREN
 - 2017 will be another bridge year for funding. Longer term budget request won't begin until January.
 - SF and MF on track (see handouts)
- REACH Codes (see excel spreadsheet)
 - Fremont met with Build it Green. Thinking of developing codes for solar requirements. BIG working on a cost study to look at efficiency and PV.
 - BIG has the ability to respond to REACH code assistance requests. Any cities that are interested can work with BIG to develop REACH codes.
 - Berkeley strongly considering mandatory solar for buildings. Interested in getting consultation on requirements and best path forward.
 - Piedmont pushing back REACH policy until after November
 - Albany will be looking at REACH codes in regards to EV and solar in the fall.
 - Rachel Di Franco will send out BIG Reach codes summary document to the cities

Circular Economy

- StopWaste is undertaking priority setting for the WMA and RB; Energy Council priorities were adopted earlier in the year. (see ppt)
 - Consumption based emissions inventory (CBEI) allows for a new lens to look at Climate Action Plans. Provides more options for cities and citizens to address climate change and more accurately reflects where emissions come from.

- Disposal tonnage in CA going down, but beginning to tick up as recycling rates are flatlining
- Agency has spent a lot of time on the recycle piece of the 4Rs, but needs to move upstream and beyond to reduce our emissions in CBEI. Farther up the hierarchy we go the greater energy and GHG benefits we reap.
- New business models around circular economies: Rethink, redesign, repair, reuse, redistribute.
- If we continue current trends plastic will grow and take up a bigger part of GHG emissions. Only 2% of plastic is part of a closed loop.
- Goal is to look at optimization in the built environment and economy of our resources
- Mary (Hayward) interested in where other cities are going with consumption based inventories.
 - i. Circular economy provides answers for what to do with results from consumption based inventories.
- Shayna said purchasing guidelines and strengthening presents a huge opportunity to think about embodied energy and how to reduce our consumption based inventories.
 - i. CBEI can help shape decisions for EPP guidelines.
 - ii. Karen Cook and Rachel Balsley have a purchasing roundtable.
 - iii. Can even use this information in negotiating RFPs, etc..
- Billi from Berkeley said a spec library would be useful.
- Mary said a circular economy presentation would be useful for City Staff.
- Cities very excited about the messaging and campaign around circular economy.

Member Comments and Discussion

- Piedmont looking to take CivicSpark decision to council.
- EBEW SAC will officially vote on 9/6 on approving the funding

NEXT TAG MEETING: September 20, 2016 1-3pm

MEETING NOTES

Energy Council TECHNICAL ADVISORY GROUP (TAG)

Tuesday, September 20, 2016 – 1:00 pm to 3:00 pm

Attendance:

County of Alameda: Damien Gosset

City of Alameda: Maria DiMeglio (phone)

City of Albany: Claire Griffing

City of Berkeley: Billi Romain

City of Dublin: Melinda Denis

City of Emeryville: Hoi Fei Mok

City of Fremont: Rachel Difranco

City of Hayward: Mary Thomas, Gilee Corral (Civic Spark)

City of Oakland: Shayna Hirshfield – Gold

City of Piedmont: Emily Alvarez

City of Pleasanton: Melinda Denis (phone)

City of San Leandro: Sally Barros

City of Union City: Avalon Schultz (phone)

StopWaste: Heather Larson, Candis Mary-Dauphin, Judi Ettliger, Tommy Fenster

Guests: Lisa Altieri – Community Climate Solutions, Margaret Bruce – LGSEC, Jerry Lahr – ABAG (phone), Cara Bautista-Rao – City of Walnut Creek, Amanda Booth – City of San Pablo (phone)

Meeting Notes

Contra Costa County Jurisdictions invited to participate in this meeting as some items might relate to current issues being addressed through EBEW (East Bay Energy Watch) which is a two county partnership.

Board Updates

No board updates this month

CCE Updates

- The board of supervisors has a retreat today to hold CCE discussion
- Process was pushed back and include the following next steps:
 - Meeting will be held on October 4th to discuss the item. After hearing the item, the board will decide whether or not to adopt the JPA.

- Then it's up to the cities to bring it to Council. Every city has the item scheduled. Aiming to have every council to join by the end of November. Second readings no later than December.
- Solar siting analysis still in process

Residential Engagement Climate Software

- City of Fremont's Residential Green Challenge (www.FremontGreenChallenge.org) presented by Rachel Di Franco, City of Fremont
 - Community Based Social Marketing initiative for residential engagement is a component of Fremont's energy strategy developed for participation in the Georgetown University Prize.
 - Residential engagement built out in a software platform that allows local residents to pledge and track CO2 reductions successes and access rebates and incentives
 - Software allows the city to roll up the effects of the campaign
- Go CO2 Free www.goco2free.org presented by Lisa Altieri Community Climate Solutions
 - Community focused, online platform to provide information, actions, info on incentives and rebates with a social aspect.
 - Customizable by city – can select name, domain & images. Lead-in page is a letter from a local official/leader.
 - Assessment is easy for residents to understand
 - Baseline calculations integrate assessment info with green button data program – data comes into the back end. Residents can still use the site if they don't want to do assessment – they'll be assigned an average.
 - Dashboard includes about 70 actions – mostly energy, also water, waste, and community. Each action has a page, includes information, points and savings that are customized to baseline generated by backend calculator.
 - The site includes an "action" portion which allows residents to discuss with other users, and residents can form small affiliation groups which can compete.
 - City can upload resources that are relevant to their city. Other cities can pull them into their site from the database once they're loaded into the database.
 - The dashboard includes points from actions taken, actual savings, ranking (against avg baseline per capita), actions planned with due dates, community level stats, success stories.
 - Cities would need to have someone moderating comment board.
 - Includes a page for posting sustainability community happenings and events. Can also utilize user emails to engage with the group.
 - Cost – sliding scale based on ability to pay and size of the community - ranges from \$3k to \$10k

- Jurisdictions to discuss interest in this platform as part of EBEW residential program design discussion, potentially follow-up with Climate Solutions pending outcome of those discussions. Climate Solutions can offer a regional pilot pricing structure.

LGC/LGSEC Statewide Local Government Energy Efficiency Proposal

- Margaret Bruce, LGSEC Director presented on their proposal to the CPUC for all Local Government Partnership rate-payer funding to be administered via the Local Government Commission (rather than by the four Investor Owned Utilities which is the current administrative structure). TAG members provided suggestions about how the forthcoming Business Plan which will detail this proposal might support east bay program priorities. Points discussed from one-page draft of the concept include:
 - Unprecedented for a nonprofit to play a statewide role in EE Administration
 - Plan does not yet include key stakeholder input, and LGSEC is looking to gather and integrate throughout the proposal development process
 - CPUC is looking for change in the way the EE program is administered and funded. A lot of variations among the IOUs – difficult to navigate for local program implementers.
 - A statewide EE program is an inefficient way of accessing resources – can we do something statewide for local governments to access funds and recognizes needs for uniformity and flexibility? This could be done with a statewide implementer that acknowledges local differences, but understands need for standardization
 - Will submit proposal on 18th of October, will engage in a more formal stakeholder process after draft is submitted
 - Once stakeholder comments are integrated, a proposed business plan will go to the CPUC on January 15th
 - Desired outcome – that EE aspects that are working well for local governments are maintained. LGSEC wants to empower success at the local government level, accelerates innovation, and enable community level activity
 - BayREN member counties abstained on voting on whether it would want to sponsor the development of the business plan, most counties cited need for more detail on the proposal. SocalREN is likely to sponsor the business plan development as it requires a current Program Administrator to bring the proposal through the CAEECC process.
 - Phase 1: Guiding community that includes IOUs, RENs, LGPs and members of the community. There'd ideally be a firewall between this committee and the LGC board. Phase 2: LGC as program implementer
 - CCAs kick off a lot of revenue that could go into EE program admin, but there are already state dollars. As long as there is no duplicability, that's fine, but it gives jurisdictions choice. With the statewide proposal, LGC could communicate best practices with all jurisdictions.

- Fremont defined success as making sure all gaps are covered, and that there's no overlap
- In this proposal, all sectors that LGPS are currently serving (ie hospitality, small commercial) will be put under public sector
- Oakland wanted to confirm that there would be space to allow jurisdictions to focus on moving toward ZNE. Response: the outcome of proposal will be transitioning from measuring in kWh towards measuring in carbon. This is a core vision of the proposal, but they'll have to coordinate with stakeholders outside of the CPUC funding infrastructure to materialize this objective.
- It would be helpful for the proposal to spell out how non-EE funding would stream through LGP (i.e. cap and trade), if the objective of meeting a carbon reduction, rather than just energy use reduction, is to be achieved.
- Oakland and Fremont suggested coordinating with CAISO
- Suggestions for coordination of service delivery between certain sectors – figuring out who is focusing on what sectors in the EE program world? It needs to be explicit in the business plan. Who has first right of refusal by geography and customer type?
- A lot of LGPs serving a large variety of sectors (small commercial, hospitality, residential, etc in addition to just municipal buildings) want to continue to serve them. LGPs will also want to see stated in the business plan how they'll maintain currently enjoyed autonomy over how they'll run their regional programs if a statewide approach is pursued.
- Next steps – Business plan will be submitted on 10/18, draft submittal on 10/19 for comment, CAEEC meetings on 10/19, 11/2, 11/16 , stakeholder comments are due by 11/21, Final business plan goes to the CPUC on January 15th 2017.

Civic Spark 2017 Coordination

- ICLEI GHG inventory orientation Oct 17-19
 - Civic spark cities would prefer to condense the training into 2 days
 - Participation is not limited to fellows – staff can/should attend as well. This is the case for all Civic Spark trainings
 - Additional training topics of interest mentioned:
 - Integrating waste training – San Leandro and Union City are including recycling components within Civic Spark scope
 - Covenant of Mayors and Beacon Award – data needed, program levels, timeline, adaptation and mitigation requirements
 - Amy Dao to discuss energy data that they give the cities
 - Portfolio manager/ benchmarking training
 - Home energy score training

Program Updates

- Green Realtor Training November 9-10. Tommy will send info
- BayREN submitted latest version of residential business plan for presentation to the CAEECC (posted on drop box), may be of interest to jurisdictions who are discussing CYES residential program design/ EBEW Strategic Energy Resource funding allocation for residential activities
- Multifamily outreach in the fall – Candis will reach out about workshop and sending letters to property owners within your jurisdiction
- Permit data requested from Tommy; Piedmont and Oakland provided it and it was useful for identifying contractors for Home Upgrade outreach, the invitation is still open if additional jurisdictions can pull the data

Member Comments & Discussion

No additional discussion

NEXT TAG MEETING: Oct, 18 2016 1-3pm