

## **Energy Council TECHNICAL ADVISORY GROUP (TAG)**

Tuesday, February 16 2016 – 1:00 pm to 4:00 pm

### **Attendance:**

City of Alameda: Maria DiMeglio (phone)

City of Albany: Claire Griffing

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

City of Dublin: Kathy Southern

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

City of Fremont: Rachel Difranco

City of Hayward: Mary Thomas

City of Livermore: Frank Guido (phone) 3pm session

City of Oakland: Shayna Hirshfield – Gold, Ben Silverman (Civic Spark), Naomi Wentworth (Climate Corps)

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

City of San Leandro – Sally Barros

City of Union City – Avalon Schultz (phone)

StopWaste: Heather Larson, Karen Kho, Candis Mary-Dauphin, Miya Kitahara, Wes Sullens, Mark Spencer

Guest: Chris Jones- UC Berkeley, Abby Young – BAAQMD, Pam Evans & Carolina Miranda – Alameda County

## **Meeting Notes**

### **Board Updates**

- Next EC Board meeting dates; Feb 17, March 23
- Took 2 EC items to board at last meeting, both approved
  - Acceptance of 2016 BayREN contract
  - Authorization to move forward with climate adaptation scope between now and June
    - Authorized to proceed with projects under 50k, including Compact of Mayors work
    - Will look to bring new priority areas item to Board at March meeting
  - EBEW will go in March – pending strategic advisory committee's approval, also in March

### **CCA Updates**

- Last meeting included discussion on outreach timeline. County will be reaching out to staff contacts to start reviewing JPA formation documentation
- Still working within timeframe to have cities all signed on to JPA by September
- Discussed governance of JPA – looking at similar structures for ideas. Reviewed lessons learned from Sonoma Clean Power

### **Program Updates**

- Codes and Standards
  - 2016 policy assistance includes 80k on the table for ZNE policies and existing building ordinances. Either 20k per project or larger amount for a regional project
  - Additional 200k of rollover funds available – could be accessed for policy assistance with a justifiable project.
  - StopWaste is planning to request support for ZNE technical assistance and developing a BESO implementation tool
    - Jurisdictions interested in ZNE engineering support on Municipal Buildings:
      - Fremont is trying to see what the possibilities are for their new city hall. Interested in ZNE technical assistance for new civic center, but not ready for policy assistance
      - Hayward is looking to offset total city operations, doesn't have to be on site. Looking at RES-BCT tariff, and the possibility of adding to it. Already has a 1 MW at wastewater treatment plant. Looking to double it.
      - Oakland may be interested, checking in with Scott, will follow-up
      - Claire, Kathy, and Sally would also like to be kept in the loop
    - Could use Quest or EBEW to do audit and rebate part, get more detailed specs on audits from an engineering firm
    - Cities interested in multifamily building ordinance implementation support, possibly software
      - Oakland may adopt in the longer term
      - Emeryville hopes to bring something to council in September
      - Hayward is implementing for multifamily in 2017
      - All of the above are interested in implementation support
- PG&E LGP contract
  - EBEW co-chairs have been working to develop a new partnership manager structure. Administrator would be StopWaste, and Co-Administrator – Contra Costa County.
  - Copy of SOW draft distributed at last meeting – will be voted on by the full SAC on March 1<sup>st</sup>
  - No questions or concerns with SOW

### **Green Business Program Update**

- Pamela Evans, Alameda County Green Business Program
  - 2015 – Partnership planning year for program in Alameda County – surveyed partners to get a better understanding of partner priorities
  - 2015 – California Green Business Network officially became a nonprofit. Keeps consistency among green business programs throughout the state – maintains data and resources.

- Worked with StopWaste end of 2014 early 2015 to engage several cities and collaborate more closely on green business program. Additional time and technical assistance had a positive impact on business participation and success. Commitment rate increased from 25% to 50% due to additional engagement.
  - Decided to redirect resources – to spend more time with newer applicants.
  - Extended recertification period from 3 years to 4 years. Exception – restaurants, because of frequent turnover and business changes.
  - Pam retires this year. Her department is committed to maintaining her position. Carolina Miranda will serve as interim coordinator.
- BEST and Smart Lights will be dividing Alameda County Territory – expecting clarity within the next few months

## **Climate Action Planning 2.0**

- Abby Young - [ayoung@baaqmd.gov](mailto:ayoung@baaqmd.gov) - BAAQMD realized that it didn't have the authority over all jurisdictions' sources of emissions. Took an inventory on those sources that it did have authority over, and created a plan. Did not want to look at emissions in a vacuum – developed an integrated approach in 2010. Board wanted a regional climate protection strategy that put the region on the right path for meeting 2050 goals.
  - Plan looked at economic sources, and what needed to be done within each economic sector. Looking at GHG emissions and other pollutant sources within these categories. Recommendations were to:
    - Decrease demand
    - Switch to electrification
    - Continue toward decarbonization of existing energy
    - Reduce non energy GHGs - methane, black carbon
  - Provided handout on methods for reducing carbon – invited members to provide comments. Releasing official draft in June – will be followed by a more formal public commenting period. Will bring next draft to board in the fall, hope to release final list of methods in December 2016.
  - Next steps – convene debrief of 2020 measures, examine 2030 and 2050 targets, consider deep decarbonization measures, integrating with general and adaptation plans

## **Consumption Based Emissions Inventories (CBI)**

- Chris Jones, UC Berkeley & Abby Young, Bay Area Air Quality Management District
  - CBI allocates all emissions to final demand – households or municipalities
  - Method of looking at GHG emissions and as a tool to make decisions on where to focus and invest in the long term. Effort to include upstream emissions and include more sources of emissions.

- Also a good tool for engaging residents. Categories are easier to communicate.
- CBI results are generally about 35% larger than geographical inventory. Changes significantly within cities and between cities – depends on urban, rural, suburban location, home size and household income.
- Naomi Wentworth, City of Oakland
  - Creating a way to look at emissions through both a standard and a consumer based lens by applying an upstream emissions factor to each core reporting activity

## **MEMBER COMMENTS & DISCUSSION**

**Energy Council**  
**TECHNICAL ADVISORY GROUP (TAG)**

Tuesday, March 15, 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: Kathy Southern

City of Emeryville: Hoi Fei Mok (Civic Spark)

City of Fremont: Rachel DiFranco (phone)

City of Hayward: Mary Thomas

City of Livermore: Judy Erlandson (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

City of Union City: Avalon Schultz

County of Alameda: Damien Gossett

StopWaste: Karen Kho, Heather Larson, Candis Mary-Dauphin, Miya Kitahara

**MEETING NOTES**

**Board Updates**

- February Board agenda: Addressed questions about shifting fund-seeking priorities
- March 23 Board agenda: Action item to adopt Priority Areas for 2016-18.

**CCA Updates**

- Key points from last meeting:
  - Technical consultant gave a presentation on load data (6500 GWH of load, broken down by city) , and there was an update on CCA activity across the state
  - Update on exit fees and work to restructure to increase transparency. Fees doubled from last year.
- Consultant presentation listed energy programs as part of the Purpose of the JPA, which is different from Marin and Sonoma focus on procurement. TAG members think the cities will have a strong role in deciding whether the JPA will manage energy programs and consider this all up for negotiation.

**Program Updates**

- Single-family & Multifamily (see hand-out)
  - PG&E has increased the energy savings requirements and reduced its incentives for Advanced and Home Upgrade programs. PG&E Home Upgrade only operates outside the 9-county Bay Area. BayREN is not

currently proposing any rebate structure changes. Contractors may be shifting out of the Advanced program into BayREN Home Upgrade.

- Codes and Standards
  - 2016 policy assistance - working with San Francisco and San Mateo Counties on a \$60k municipal ZNE TA proposal that was approved.
  - Working with BayREN on the procurement process. Will put an RFP out for a consultant for ~ 7 buildings in County. Could get additional funding as more counties become interested.
  - BESO working group scheduled for April 7th
- Financing- PACE CSA
  - CSA is being amended due to changes requested by HERO
  - Piedmont and San Leandro have communicated that they are waiting for CSA before adopting
- PG&E LGP contract
  - Administrative proposal approved at last SAC meeting
  - Ramping up admin, deciding sub-committee structure and fee reimbursement frequency
  - Cities would like to see program dashboards and activity updates, similar to what Quest used to generate
  - Opportunities to leverage green business program should be part of programmatic scope

### **East Bay Sunshares**

- Vote Solar implemented the Sunshares program under the agreement that Walnut Creek would not have to pay as long as 40,000 contacts were reached. Extended the program to other cities to ensure it would meet level of agreement.
- Fremont is interested in taking the lead on another round. Business Council on Climate Change in SF is taking on the program. Fremont is looking at other cities to join in. BC3 is starting campaign in June looking for commitments by mid-April. Interested cities include: Piedmont, Hayward, Oakland, Berkeley, San Leandro, Dublin, Union City, Albany would like to be kept in the loop
- Postponing the program rollout date by a few months would give jurisdictions more time to take it to Council

### **CAP 2.0 Continued; Deep De-carbonization Pathways**

- Presentation addressed deep decarbonization using energy efficiency, fuel switching, and cleaning the grid (presentation uploaded onto Basecamp)
  - SW is working on fuel switching that will meet the CPUC 3-prong test
    - Looking at heat pumps, ground source heat pumps – best when applied on a district scale, and solar thermal
  - Electrification of vehicles and gas will increase load – how do we prepare? This will be a big challenge for a CCA.

- Fremont commented that EVs are not being factored into the County CCA load analysis. The “duck chart” shows that supply needs will shift and 4-7 pm is new peak load.

### **Energy Council Priorities 2016-18**

Discussion regarding new priorities:

#### Fuel switching

- EBEW cannot look at fuel switching, but Energy Council can consider long term, more strategic issues
- Helpful with CCA formation to see these issues and be able to advise decision makers

#### Community-scale grid solutions

- This helps with decentralization of energy supply, as substantial losses occur in energy distribution
- CEC/EPIC funding is shifting to distributed generation and energy storage issues

Current Energy Programs Landscape – additions from the group

- Energy Codes became more stringent
- Cap and Trade funding source
- Focus moving from efficiency projects to DG, storage and EV infrastructure
- New TAG and EBEW structure allows cities to look beyond rate payer funded programming.
- Interest in looking at CCA formation and having more information as a county on where we stand and where we want to go with energy planning

EC Priorities – Input from Cities

- Single Family
  - Enhancing contractor networks in non-central parts of the county
  - Find out if BayREN is reaching out and contractors are uninterested, or if they have not made contact
  - Cities requested a granular update from BayREN on contractor outreach.
  - Question regarding the statewide marketing promotion of Planet Ecosystems
  - Community Climate Solutions – focuses on actions residents can take that align with city’s climate action plan. Fremont is using the program, and share with the group once live.
- Multifamily retrofits

- Electric vehicles infrastructure
- Innovative financing
  - Explore opportunities for electric vehicles charging infrastructure financing
  - Case studies on financing that illustrate monthly cash flow
  - What will happen to PG&E on bill financing when cities join CCA?
- Labeling and Recognition
- Codes and Standards
  - Advocacy for the next code cycle
- Integrated Services for Small/Med Commercial Businesses
  - Green business program is not working in Hayward – cumbersome for the city. No emphasis on making sure consumers are aware of participation/certification. Promotion will drive demand, currently no benefit for businesses.
    - The process is time consuming.
    - One stop shop for small businesses – something more streamlined.
  - Interest in equivalent of Home Upgrade advisor for commercial.
- Water Energy Nexus
  - Codes are addressing water, as well as StopWaste landscaping programs
  - There are other programs out there addressing water efficiency
  - The projects SW has explored are not cost effective
  - Hayward sees this as less of a priority due to low water usage during drought
- Municipal Building Operations
  - Institutional barriers in schools has made it difficult for them to take advantage of Prop 39 funds
  - Jurisdictions can tap into EBEW for TA – but there is a gap that should be addressed when it comes to DG, Storage, and EV
  - Municipal ZNE – cities starting with municipal ZNE before expanding ZNE policies Need to be flexible with approach, because sometimes a community project might be best opportunity
- Should ZNE be a priority area?
  - ZNE for existing buildings – code is taking care of new buildings, but there's a gap to fill for existing buildings
- Grid Solutions could cover municipal ZNE as well as renewables (i.e. Sunshares).