MEETING NOTES

Energy Council
TECHNICAL ADVISORY GROUP (TAG)

Tuesday, July 18, 2017 – 1:00 pm to 3:00 pm

Attendance:
City of Alameda: Maria DiMeglio (phone)
City of Albany: Claire Griffing, Fanny Yang (Civic Spark)
City of Berkeley: Billi Romain, Caytie Campbell-Orrock (Phone)
City of Dublin: Rebecca Parnes
City of Fremont: Rachel DiFranco (phone), Kranti Malik (Civic Spark) (phone)
City of Hayward: Mary Thomas, Chris Sturken (Civic Spark)
City of Newark: Myvan Khuu-Seeman (phone)
City of Oakland: Shayna Hirshfield-Gold, Yoni Carnice (Civic Spark)
City of Piedmont: Emily Alvarez
City of San Leandro: Sally Barros
City of Union City: Kranti Malik (Civic Spark) (phone)
StopWaste: Heather Larson, Candis Mary-Dauphin, Miya Kitahara, Tommy Fenster, Wendy Sommer, Brian Mathews, Kelly Schoonmaker
Guests: Chris Sentieri, Off-set Project; Jin Noh, California Energy Storage Alliance

Meeting Notes

Energy Council Board Updates

No updates

East Bay Clean Energy Coordination

- BioGas memo reviewed by Tommy Fenster, StopWaste
- The memo looks into the potential of biogas to provide energy to Alameda County, and the effects of using organics for energy generation versus composting.
- The potential of biogas to replace natural gas is low. It could meet 3-5% of current natural gas demand. Biogas could still play an important role for the following uses:
  - Heavy vehicles fuel source
  - Burned in generators – less nitrous oxide emissions, more efficient than putting it into vehicles
• Currently 4 digesters in Bay Area take food scraps: 2 wet & 2 dry.
• Wet anaerobic digestion requires less than 15% solids. Yard waste could not go to a wet anaerobic digester facility.
• East Bay Municipal Utility District did a pilot and took residential and commercial food scraps – but the process required a large amount of presorting. Issues with heavy metals and toxins limit food scrap use.
• Level of heavy metals in municipal solid waste stream is very high for dry anaerobic digestion.
• Digestate has some of the same properties as compost. If food scraps go to an anaerobic digester facility, the final product contains fewer nutrients, and often ends up in the landfill.
• If not composting digestate, it must be very carefully stored because of high greenhouse gas emissions.
• Hayward is considering additional cogeneration capacity in 2 years and would like East Bay Clean Energy to consider a related tariff structure
• Chris Sentieri is seeking more detail on the East Bay Municipal Utility District facility, and the capacity of inputs & outputs throughout the county.

Program Updates

• Bay Area Multifamily Building Enhancements updates
  o The Bay Area Regional Energy Network multifamily program currently has 6016 units completed, in reservation and pending reservation for 2017.
  o A round of outreach in Alameda County is planned for the fall
  o Hayward will conduct a multifamily property owner workshop in October
• Bay Area Regional Energy Network Codes & Standards
  o The next forum will be held in Contra Costa County on 9/26. The topic will be Municipal Innovation - Leading by example.
• Bay Area Regional Energy Network Property Assessed Clean Energy (PACE)
  o Bay Area Regional Energy Network met with OpenPACE leadership to discuss standardizing program data provided to jurisdictions
  o Program leads will convene a meeting with Property Assessed Clean Energy providers in October to discuss data standardization & consumer protections
  o The program will continue to track issues, and will share complaint reports upon request
  o Discussion about jurisdictions opting out on any providers that did not sign the Association of Bay Area Governments Regional Collaborative Services Agreement
• PG&E Local Government Partnership
  o Strategic planning meeting tomorrow. The subcommittee will review results of prioritization survey which was completed by sixteen jurisdictions in Alameda and Contra Costa County.
The 2018 Strategic Energy Resources budget will be voted on at the Aug 3rd Strategic Advisory Committee meeting.

ACWMA Altamont Property Wind Energy Generation Re-Powering Project
Brian Mathews, StopWaste Property Manager

- Agency owns 1620 acres of land in Altamont Hills, and leases to various tenants (cell tower site, air district, cattle grazers, conservation, wind generator – Next Era)
- The property generates about $430k per year of revenue for the Authority.
- As part of the Repowering Project, Next Era entered into an agreement with the state that if they repowered by a certain date, they would not have to pay a settlement for aviate mortality and land damages caused by older infrastructure and land management practices.
- Next Era Repowering Project included replacing over 411 wind turbines with 42.9 megawatt total capacity with 22 turbines at 1.7 megawatts each.
- The new infrastructure has been in place since December 2015.
- Property management is still working on roads, rehabilitating the ground, erosion control, retaining grazing space.
- There are 3 sites on the property that have 10 years of landfill capacity each. No immediate need for landfill use, but the sites are being held for that purpose.
- The property is not a good solar site due to its eastern facing slope.
- Working to implement a partnership with Marin Carbon Project and other Alameda County resource agencies, which increases forage capacity, soil quality, water retention, and carbon in the soil after putting in a two inch layer of compost. Resource conservation units throughout the state are conducting similar projects. State of CA has 7.5 million to incentivize projects like this.

Energy Storage Technologies and Local Government Applications
Jin Noh, California Energy Storage Alliance

- The California Energy Storage Alliance Represents 65+ member companies
- Benefits of Energy Storage are that it:
  - Helps integrate renewables
  - Reduce ratepayer costs
  - Diversifies sources
  - Increases grid reliability and resiliency
- Renewable technologies are helping CA meet Renewable Portfolio Standard goals, but are presenting challenges due to imbalances between peak generation and peak demand.
- The challenge is to meet the evening peak demand, which is currently met by gas peaker plants. Storage could help reduce the greenhouse gas emissions coming from gas peaker plants.
- AB 2514 Sets procurement standards for storage for each utility. Investor Owned Utilities must procure 1325 megawatts by 2020. PG&E has not done any customer targeted procurement. This legislation is helping storage thrive and become more cost effective.
- To identify the best fit storage technology, decision makers must consider duration, sizing, costs, energy requirements and operating conditions such as temperature.
- When determining cost effectiveness, other services provided by storage should be considered, including, transmission and distribution deferral, time of use management, & demand charge reduction.
- Local government consideration around storage include:
  - Promoting sizing for customer side need, and based on load assessment. This will be increasingly important as we move toward time-of-use rates.
  - Take advantage of incentives such as the Self-Generation Incentive Program – around through 2018.
  - Track proceedings
    - AB2069 – Investor Owned Utilities must propose Distributed Generations programs, must consider disadvantaged communities
    - Diablo canyon replacement proceeding
    - Self -Generation Incentive Program proceeding
  - Energy Storage North America Conference is on Aug 8th in San Diego. There is a local government rate and government scholarships

**Staffing Updates**

- Multifamily Program Manager Position Update – 6 strong candidates. 4 invited interviewees.
- Farewell to Heather Larson
  - Heather will staff projects through September and then convert to limited term intermittent for technical support.
  - Energy Council team will be reorganized
  - Position was offered to Jenifer West, and she accepted. She is currently senior manager at Transform, and was previously mayor of Emeryville and on the Agency board

**Member Comments & Discussion**

- Local Government staff is finding the lack of access to energy usage and other data to be stalling their climate action plan policy objectives.
- East Bay Energy Watch strategic planning could prioritize funding to support inventory updates in 2018, with the objective of a regional or statewide entity supporting a more consistent approach and developing the inventory by 2019

**NEXT TAG MEETING:** August, 15 2017 1-3pm Sept 19 TAG = Fuel Switching Convening with Green Cities California (GCC)