Air Quality, Climate Change, & Energy (ACE) Workgroup Update

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Priority Issues

- SB 1383 SLCP Reduction Regulatory Development
- SWRCB Co-Digestion Capacity Analysis
- Bay Area AQMD Regulation 13: Climate Pollutants
- Water-Energy GHG Guidance & Nexus Registry
- AB 617: Community Air Protection Program

- SWRCB’s Climate Change Vulnerability Census
- America’s Water Infrastructure Act of 2018
SB 1383: Short-Lived Climate Pollutant (SLCP) Reduction Implementation

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organic waste diversion from landfills *(includes biosolids, digestate, and sludges)*
  - 50% by 2020 (relative to 2014 levels)
  - 75% by 2025 (relative to 2014 levels)
- CEC/CPUC to incentivize biogas production/use

- **45-day comment period ended March 4th**
  - Adoption 2020 – Effective 2022 – Enforceable 2024

SB 1383: Proposed Organic Waste Reduction Regulations

- ✓ Emergency disposal to landfills for 90 days
- ✓ Limit on local ordinances
- ✓ Land application qualifies as a reduction pathway
- ✓ Procurement of compost and “renewable gas” as transportation fuel remains, need this expanded
  - CA Accidental Release Prevention (Cal-ARP) Program
SWRCB: CA POTW Co-Digestion Capacity Analysis

- Purpose: “Enable the Water Board to work with wastewater agencies, local governments, community members and other stakeholders to inform approaches to better coordinate and cost-effectively maximize organic waste diversion from landfills, co-digestion at wastewater treatment plants, and beneficial biogas and biosolids utilization.”

- To be complete June 2019

BAAQMD Regulation 13: Climate Pollutants Rule Development

<table>
<thead>
<tr>
<th>Rules and Regulations</th>
<th>GHGs</th>
<th>Odors</th>
<th>VOCs</th>
<th>Toxics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulation 13: Climate Pollutants</td>
<td>N₂O, PCPs</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Rule 13-1: Significant Methane Releases</td>
<td>CH₄</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Rule 13-2: Organic Material Handling</td>
<td>CH₄</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Rule 13-3: Composting Operations</td>
<td>CH₄</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Rule 13-4: Wastewater Operations</td>
<td>CH₄, N₂O</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
BAAQMD Regulation 13: Climate Pollutants Rule Development

**Next Steps:**

- Rule 13-1: Figure out how to purge/abate biogas when cleaning digesters over next 4 months
- Rules 13-2 & 13-3: Workshops to be held in Q2 2019, Board of Directors in Q3 2019 (pre-processing)
- Rule 13-4: Development to begin in late 2019

BAAQMD-BACWA-CASA meeting March 7th “Wastewater Treatment 101”

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**Water-Energy GHG Guidance Initiative, WEG 2.0**

- Goal: Develop methodology to quantify, compare, and analyze the GHG emissions embedded in delivered water
- Cool Planet Project in partnership with SCE & The Climate Registry, began in 2015
- 2018 - include operations related to WW & RW, including emissions tracking

**Voluntary Water-Energy Nexus (WEN) Registry**

- Goal: Develop suite of protocols/guidance enabling measurement, reporting, & tracking of entity-wide emissions
  - Looking to IPCC 2019 Refinement for a N₂O emission factor update

- Next Steps: To receive responses to edits/comments provided & in-person meeting in Sacramento May 13th
AB 617: Community Air Protection Program

- CARB to harmonize air monitoring, reporting, & local emissions reduction programs for CAPs and TACs (and GHGs).

- In 2018, CARB set direction to:
  - Assess community exposure
  - Establish criteria for air monitoring
  - Identify source contributions and strategies for emissions reduction

- October 2019:
  - Establish emission reduction targets, schedule, & enforcement programs
  - Air Districts to submit annual progress reports to CARB in 2019 for 2018

AB 617: Stationary Source Applicability Thresholds

- Report GHGs to CARB per Section 38530 of H&SC
- Emit 250+ tpy of a nonattainment pollutant or precursor
- Receive an “elevated” prioritization score per Section 44360 of H&SC
- Sources in selected (“active”) communities

- LATEST: To require ≥10 MGD WWTPs to report complete AB 2588 list of toxic compounds (over 500 compounds) on annual basis – YIKES!
- Comments due 3/29, Conference Call on 3/18 @9 am
California to be Carbon Neutral by 2045!

- Executive Order B-55-18
- SB 100: 100% Clean Energy Act
  - 50% by 2026 (no longer 2030)
  - 60% by 2030
  - 100% by 2045 (w/out increasing GHG emissions in Western Grid)
- SB 1440: Biomethane Procurement
  - Requires PUC to consider adopting policies & incentives

State/regional initiatives looking at how CA will adapt to impacts of climate change
SWRCB Climate Change Resolution

- State Water Board seeks feedback from permitted facilities:
  - Recommended permit modifications and other regulatory requirements to reduce vulnerability of water and wastewater infrastructure to flooding, storm surge, and sea level rise.
  - Encourage use of U.S. EPA’s Climate Resilience Evaluation and Awareness Tool or a comparable approach to identify vulnerabilities to climate change impacts at water and wastewater utilities.

- CASA provided comments on and edits to the census Friday, January 18th
- Waiting to hear feedback from State Water Board

America’s Water Infrastructure Act 2018

- S. 3021 Signed into law Oct 23, 2018
- Statutory requirements for “community water systems”, not wastewater at this time
- Requires community water systems conduct:
  - Risk & Resilience Assessment
  - Prepare/Revise an Emergency Response Plan
- Malevolent acts and natural hazards in the context of physical security and cybersecurity
- Utility must submit letter to US EPA certifying both are complete, every five years thereafter
- Failure to submit results in enforcement & penalty up to $25,000/day
America’s Water Infrastructure Act 2018

<table>
<thead>
<tr>
<th>Community Water System (population served)</th>
<th>Risk &amp; Resilience Assessment</th>
<th>Emergency Response Plan</th>
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</thead>
<tbody>
<tr>
<td>&gt;100,000</td>
<td>Mar 31, 2020</td>
<td>Sept 30, 2020</td>
</tr>
<tr>
<td>50,000–100,000</td>
<td>Dec 31, 2020</td>
<td>June 30, 2021</td>
</tr>
<tr>
<td>3,300–50,000</td>
<td>June 30, 2021</td>
<td>Dec 30, 2021</td>
</tr>
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- Does not define how a utility must complete the RRA or ERP, but does support the use of voluntary consensus standards recognized by USEPA for purposes of compliance

Guidance documents & standards provide compliance framework for RRAs & ERPs

AWWA G430  AWWA G300  AWWA J100  AWWA G440
Thank You!...Questions?

**Next Meeting:**
**Air Quality, Climate Change, & Energy - ACE Workgroup**
March 28th, 10 am – noon
Webinar/Conference Call

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