



APRIL 17-20  
SACRAMENTO

2018

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**CWEA**

**AC18 Can Co-Digestion Projects Survive  
Developing Air Emissions Regulations?**



**Stronger  
Together**



**Sarah A. Deslauriers**  
Facilitator/Host  
April 18, 2018



**CWEA**

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## Learning objectives for today

- Describe how state and local air district efforts to reduce greenhouse gas emissions 40% below 1990 levels by 2030 as mandated by SB 32 and SB 1383 may impact WWTPs.
- Describe why/which local air emissions limits may pose barriers to implementing co-digestion of food waste with sewage sludge at WWTPs.
- List potential ways WWTPs can avoid triggering local air district regulations through alternative beneficial uses of the additional biogas generated from co-digestion of food waste with sewage sludge.



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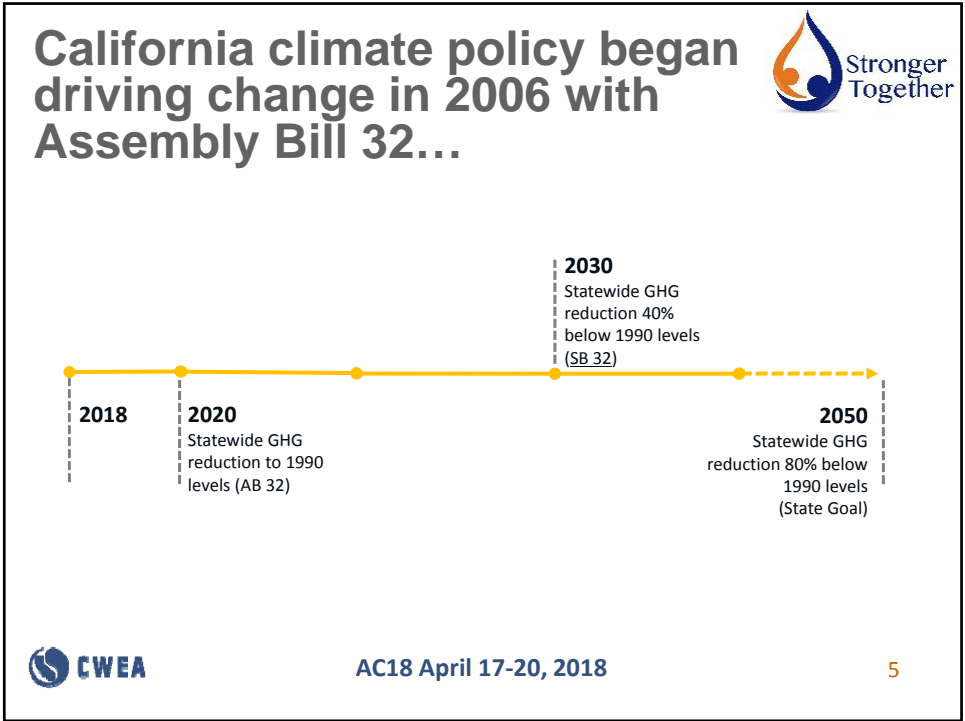
## Let's get started!

- To enhance the workshop experience, we're using live polling!
- Get out your smart phone
- Open browser
- Go to [www.slido.com](http://www.slido.com)
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# Q658



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### CALIFORNIA CLIMATE STRATEGY

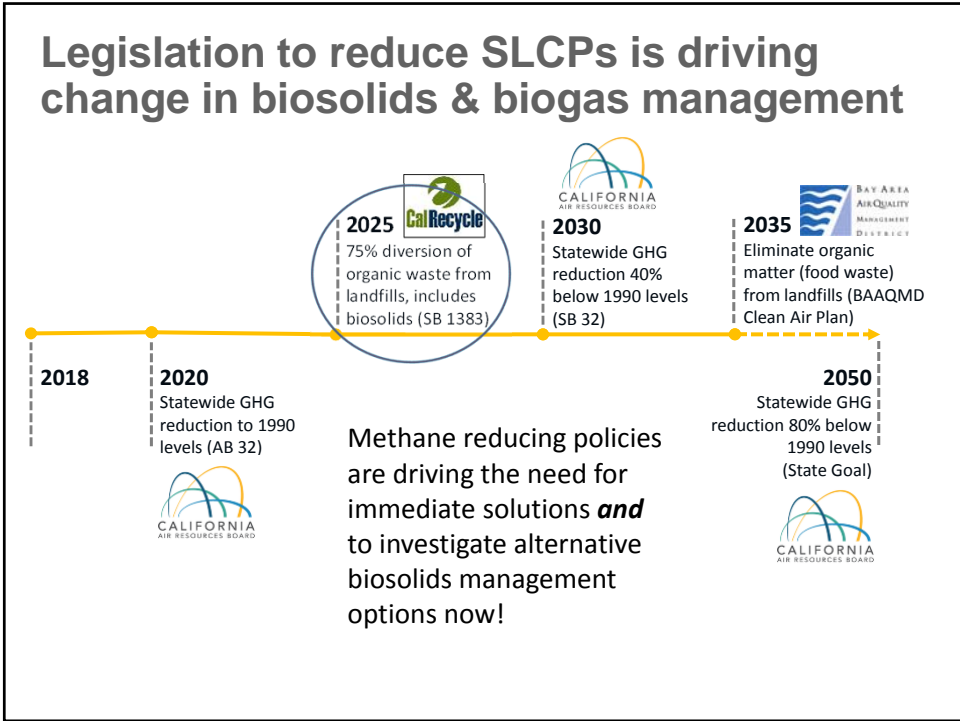
*An Integrated Plan for Addressing Climate Change*

#### VISION


Reducing Greenhouse Gas Emissions to 40% Below 1990 Levels by 2030

#### GOALS


- 50% reduction in petroleum use in vehicles
- Carbon sequestration in the land base
- 50% renewable electricity
- Double energy efficiency savings at existing buildings
- Reduce short-lived climate pollutants




## SB 1383 rulemaking to implement SLCP reducing strategies



- 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)
- Incentivize increase in biogas production and use
- **Final Regulation by end of 2018** – Effective in 2022

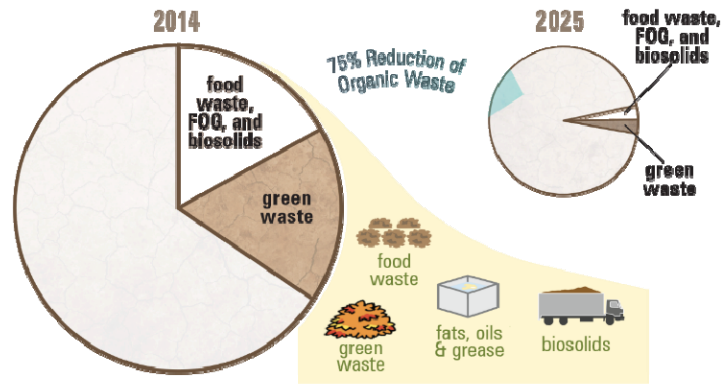




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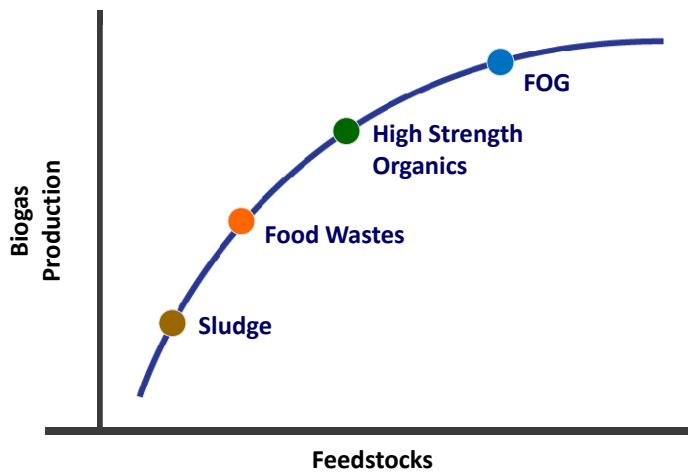
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### POTWs identified as part of the solution - methane reduction by diverting food waste



CASA estimates POTWs could accept  $\geq 75\%$  of landfilled food waste - SWRCB analysis underway to confirm!

### Opportunity: Co-digesting additional organic feedstock increases biogas production



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## Increased biogas production = Increased emissions source?



- Local air districts must protect public health
- Co-digestion projects...
  - Divert organics from landfills
  - Divert methane emissions from landfills
  - Increase biogas production



BUT...

- Increase the source of hydrogen sulfide
- BAAQMD Regulation 9, Rule 2: H<sub>2</sub>S limits at fenceline



*How Regulators and the Regulated Can Succeed Together By Working Together*



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## Distinguished Panelists



- Tung Le –  
Industrial Strategies Division Manager,  
California Air Resources Board
- Hank Brady –  
SLCP Implementation Manager, CalRecycle
- Damian Breen –  
Deputy Air Pollution Control Officer, BAAQMD



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