



Central Valley Summit on Alternatives to Agricultural Burning

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Parlier, California

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Alternatives to Open Burning



- Controlled Combustion
- Biomass-to-Power
- Composting
- Chip and Grind
- Wood products
- Longer-term Options

Alternatives to Open Burning



- Open-pile burning is the highest-emitting option
- In the absence of better alternatives, air-curtain burners would reduce emissions

Alternatives to Open Burning

Biomass to Energy

Plants closing since contracts aren't being renewed



Biomass to Gasification

- Much lower emissions
- Produces RNG, biochar, and potentially other biochemicals



Alternatives to Open Burning

Compost and Chip/Grind

Funded indirectly through product demand creation

- CDFA Healthy Soils Program
- CDFA State Water Efficiency and Enhancement Program (SWEEP)
- Caltrans highway and landscaping projects

Alternatives to Open Burning

- SB 859 established a Wood Products Working Group within the California Natural Resources Agency
- A focus will be developing markets for products made from woody forest biomass
- Products from woody agricultural waste may be able to find homes in these markets.

Alternatives to Open Burning

- Longer-term Solutions
 - Advanced thermo-chemical processes can yield precursors to valuable
 - Intermediate chemicals
 - Vehicle fuels, including drop-in fuels
 - Bio-pharmaceuticals

Opportunities to Increase Funding

- AB 398 extends Cap-and-Trade to 2030.
 - Stable allowance markets will continue to generate funding for these kinds of programs
 - A State Bioeconomy Summit is targeted for spring 2018
- Low Carbon Fuel Standard (LCFS)
 - Strong market signal inducing low carbon fuel production, incl. from waste streams

Funding Resources

- Healthy Soils Initiative grants:
<https://www.cdfa.ca.gov/oefi/healthysoils/IncentivesProgram.html>
- SWEEP grants: <https://www.cdfa.ca.gov/oefi/sweep/>
- Caltrans resources for sellers:
<http://www.dot.ca.gov/dpac/viewresourcesforsellers.html>
- Cal Trans compost application projects:
<http://www.dot.ca.gov/design/lap/landscape-design/erosion-control/organics/compost.html>