



California Energy Commission
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CleanWorld
Alive with possibilities



SANITATION DISTRICTS OF LOS ANGELES COUNTY



Environmental Services



Market Opportunity in California



- More than 500 WWTFs, 2 landfills, 1600 dairies in CA
- 16 million tons/year organic waste is landfilled in CA
- CA could produce **500 Million to 1 Billion diesel gallon equivalents per year** from biomethane and organic waste
- Very low- and carbon-negative transportation fuels

BENEFITS OF FUELS FROM ORGANIC WASTE

Lowest Carbon Fuels Available – Often carbon
negative

Help reduce petroleum dependence, air and
water pollution, greenhouse gas emissions

Reduce landfilling and help meet California's 75%
waste diversion goal

Reduce toxic air contaminants, environmental
justice impacts from diesel pollution

Provide jobs and economic development in every
region of the state



Fuels from Wastewater Treatment Facilities

WWTF's could produce 53 million
gallons of low-carbon fuels per year
With co-digestion, could produce
50 million gallons per year

Fuels from Large WWTF's are carbon
negative (-65.3 CO₂e/MJ)

Transportation fuels from small to
medium WWTF's are ultra low-
carbon (11.5 grams CO₂e/MJ)



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julia levin, 1/9/2014

Fuels from Other Organic Waste Sources



- Diverted organic waste can produce 168 million gallons of carbon negative fuels
- Landfill gas can produce 121 million gallons
- Dairy waste can produce 184 million gallons



CHALLENGES TO BIOMETHANE DEVELOPMENT

uncertainty about long-term
policy context = difficulty
securing financing

uneven pipeline access and costs
outdated agency rules – CEC
CalRecycle requirements

unclear permitting timelines and
regulatory uncertainty



Opportunities to Expand Bioenergy



- AB 118 / AB 8 – Funding for Clean Fuels, including Biofuel
- AB 1900 – New Pipeline Biogas Standards
- Cap & Trade Revenues
- Policies to Reduce Landfilling Organic Waste – AB 1826 (Chesbro)
- Green Credit Bank to Guarantee Low Carbon Fuel Credits

Clean Fuels and Alternative Transportation

cludes \$20 million per year for
fuels – not enough!!

million for natural gas vehicle
employment

5 million for medium and heavy duty
vanced vehicle demonstration

5 million for natural gas
eling infrastructure



AB 1900 – New Pipeline Standards



- AB 1900 intended to facilitate pipeline biogas injection
- Standards for 12 constituents of concern for public health
- 5 additional constituents of concern for pipeline integrity
- CPUC will maintain 990 BTU heating value
- Second phase of proceeding will address cost allocation and interconnection issues

Cap & Trade Revenues



- Governor's Proposed Budget for 2014-15 Includes:
- \$30 million for diverted organic waste – composting and AD
- \$20 million for dairy and agricultural reductions
- \$200 million for clean vehicle infrastructure

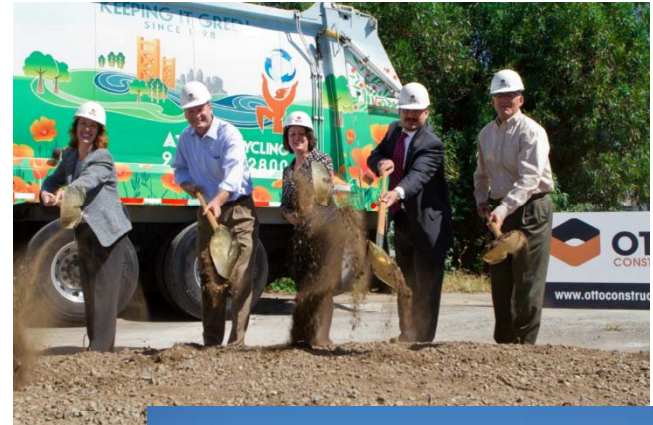
Green Credit Reserve (AB 2390)

AB 2390 would establish a Green Credit Reserve

Provides long-term price certainty and market for LCFS credits

Will enable project developers to secure financing

State will contract to buy LCFS credits during project development, not only purchase when fuels are produced and credits produced



THANK YOU !!



Bioenergy
Association of
California

www.BioenergyCA.org