

## The National Biomethane Summit

June 23, 2009

*“The Science and Application of Renewable Natural Gas”*

Tuesday, June 23, 2009

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*Delegates should plan to enjoy breakfast on their own.*

*Lunch will be served as part of the conference programming.*

- 8:45 a.m.      **Official Conference Opening**
- Mayor Miguel Pulido, City of Santa Ana; Governing Boardmember, South Coast Air Quality Management District; and Chair, California Natural Gas Vehicle Partnership
- 9:00 a.m.      **Welcome Remarks**
- Assemblymember Wesley Chesbro, 1<sup>st</sup> District, State of California
- 9:20 a.m.      **Panel Discussion, “Fundamentals: An Introduction to Biogas & Biomethane”**  
*This panel will feature perspectives and insights in the areas of Landfill Gas, Dairy Methane Recovery, and Biomass. By examining the sources and uses of feedstock in each of these areas, attendees will gain a greater awareness of existing opportunities, as well as both positive and negative influences affecting energy production in each sector.*
- Moderator: John Boesel, Chief Executive Officer, CALSTART
- Dallas Tonsager, Undersecretary, U.S. Department of Agriculture, “Biomethane: Benefits to the Farm, Rural America, Environment, Economy, and Energy Security”
  - J. Michael Gallagher, President & Chief Operating Officer, Westport Innovations “*The Promise of Biomethane As a Renewable Alternative to Oil in Fuelling Transportation*”
  - Fernando Berton, Sustainability Program, Statewide Technical and Analytical Resources Division, Research & Applied Technology Branch, California Integrated Waste Management Board “*The Potential of Biomethane From Municipal Solid Waste Resources*”
  - Michael Marsh, Chief Executive Officer, Western United Dairymen “*The Rubber Meets the Road*”
- 10:40 am      **Morning Keynote Speaker**
- Dorene D'Adamo, Board Member, California Air Resources Board “*California's Transportation Fuels: The Role of Biomethane*”
- 11:00 a.m.      **Trade Show and Networking Break Sponsored by GTI**
- 12:00 p.m.      **Luncheon Sponsored by Waste Management & Linde, LLC.**
- Kent Stoddard, Vice President, Waste Management
  - Bryan Luftglass, Energy Segment Manager, Linde LLC

12:30 p.m. Luncheon Address, “Leading by Example: Successful Development of Biomethane Markets In Europe”

Moderator: Peter Thulin, Marketing Director, PURAC

- Andrew Whittles, Business Development & Project Manager, Cenex, *“Biomethane as a Transport Fuel in the UK”*
- Richard Lilleystone, Chief Executive Officer, Gasrec LTD, *“Power From The People”*

1:05 p.m. Concurrent Sessions (Two Simultaneous Sessions)

“The Down & Dirty—Case Studies & Examples of Creating Biomethane from Landfills and Dairy Farms”

*Each of these two sessions will allow attendees to participate in a more detailed discussion in one particular area of focus. The general session group will break into two groups, one focusing on Solid Waste and Landfill Gas, the other on methane capture from Dairy Farms. Each session is designed to bring together industry practitioners, technology providers, and regulatory agencies for a thorough examination of real life projects and technologies at work.*

#### LANDFILL

##### Solid Waste / Landfill

Moderator: Omar Moghaddam, Division Manager, Regulatory Affairs Division, City of Los Angeles Bureau of Sanitation

1. Chuck White, Director of Regulatory Affairs - West, Waste Management *“Opportunities for Landfill Gas to Energy and Fuel in California”*
2. Bryan Luftglass, Energy Segment Manager, Linde LLC, *“Biomethane to LNG”*
3. Michael Eaves, Assistant Vice President of Technology Advancement, Clean Energy Fuels *“McCommas Bluffs Landfill”*
4. Tony Wong, Director of Business Development, FirmGreen, Inc. *“It’s Green; It’s Profitable; It’s Technically Available...Now What?”*
5. Bill Brown, President, Acron Technologies/Terracastus Technologies *“Waste to Wheels - Renewable Fuel for a Cleaner U.S.”*
6. Paul Relis, Executive Vice President, CR&R *“Municipal Waste to Biogas to Biomethane”*
7. Matt Barclay, Manager, Business Development, Prometheus Energy, *“Bio-LNG - The Prometheus Experience”*

#### DAIRY

Moderator: Tom Hintz, Managing Partner, SeaHold

- Kenneth Brennan, Senior Product Manager, Business Development, Pacific Gas & Electric *“Biomethane Injection Into Utility Pipelines”*
- Michael Mitariten, Vice President, Guild Associates *“Upgrading Digester Gas to Pipeline and CNG Quality”*
- Allen Dusault, Program Director, Sustainable Agriculture, Sustainable Conservation *“Dairy Biogas: Opportunities for Transportation Fuel”*
- Andrew Hall, Vice President of Sales and Business Development, Xebec Adsorption, *“Pressure Swing Adsorption Technology For Biogas Upgrading: Field Experience, Opportunities, Pitfalls, and Economics”*

- Paul Martin, Environmental Services Director, Western United Dairymen *“Getting the Job Done”*

2:30 p.m. Trade Show & Networking Break

3:00 p.m. Panel Discussion, **“The Legislative and Regulatory Landscape and the Road to Commercialization of Biomethane Vehicle Fuel”**

*The recent adoption of California’s Low Carbon Fuel Standard puts a fine point on where real opportunities are for the use of low carbon fuels and all signs point to Biomethane. This panel will review existing and pending State and Federal legislation affecting Biomethane production and will detail “need to know” information concerning Biomethane and its role as the potential transportation fuel of the future. The implications of AB32, AB939, AB479 and other California and Federal bills will be addressed in order to create a crystal clear view of the current landscape.*

Moderator: Pete Price, Executive Director, California Natural Gas Vehicle Coalition

- Todd Campbell, Director of Public Policy, Clean Energy Fuels *“Low Carbon Fuel Standard”*
- Bob Fletcher, Chief, Stationary Sources Division, California Air Resources Board *“AB 32 and Its Impacts on Biomethane Commercialization”*
- Jeff Reed, Director of Market Development and Emerging Technology, Southern California Gas Company, *“Barriers And Solutions To Getting Bio-Methane Into The Pipeline”*
- Daniel S. LeFevers, Executive Director, Washington Operations, Gas Technology Institute *“The National Legislative Landscape of Biomethane”*
- Robert Holmes, Regulations Coordinator, Waste Compliance and Mitigation Program, California Integrated Waste Management Board *“AB 939 Diversion Requirements”*

4:15 p.m. Panel Presentation, **“Financing and Funding Biomethane Projects & Opportunities for the Future”**

*The American Recovery and Reinvestment Act, AB118, the California Energy Commission and select private investors are creating situations designed to bring biomethane technologies to market on a scalable basis. Funding and financing opportunities do exist—this session is designed to “connect the dots” and bring together ideas and resources with established funding programs.*

Moderator: Kevin Best, President and Chief Executive Officer, RealEnergy

- Göran Eriksson, Director of Business Development, Purac/Läkeby Water Group *“Biomethane: A Business Case for this Green, Renewable Technology”*
- Joel Levin, Vice President of Business Development, Climate Action Reserve *“Generating and Valuing Carbon Credits Through Biomethane Projects”*
- Peter Ward, Program Manager, Alternative Fuel and Vehicle Technology Program, California Energy Commission *“AB 118 Programs”*
- Philip Brown, Energy Coordinator, United States Department of Agriculture Rural Development *“Rural Energy Programs”*
- Evan Williams, President, Cambrian Energy, *“Financing Biomethane Projects: It’s a Numbers Game”*

5:30 p.m.      Conference Adjourns