

California BioEnergy

The Path to Market Transformation

April 18-20, 2007

Waste-to-Energy, Combined Heat and Power,
and Energy Efficiency for Farmers and Food Processors

Marriott Napa Valley Hotel
3425 Solano Avenue
Napa, California 94558
(707) 253-8600



Preliminary BioEnergy Workshop Agenda

Thursday, April 19, 2007

7:30 am **Continental Breakfast**

8:00 am **Welcome**

Kevin Best, CEO, RealEnergy LLC

8:10 am **A Shared Vision of Waste-to-Energy and Valuable Bi-products – Federal, State and Private Equity**

Merrill Smith, CHP/DE Program Manager, U.S. Department of Energy
Susan Brown, Special Advisor to Commissioner Boyd, California Energy Commission
Kevin Best, CEO, RealEnergy, LLC

8:45 am **BioEnergy and Combined Heat & Power (CHP) on the Farm and in Food Processing**

- Food/Ag Waste, Manure Management and Destruction
- Green House Gas Reductions
- Rural Economic Development
- Opportunity Fuels
- Anaerobic Digesters and Biogas Injection – Transport-Modular CHP in Hospitals
- Current Business Models – Do They Work?
- European Business Models – Do They Work Here?
- Grants, Loans, Incentives and Pilot Programs

Michael Marsh, CEO, Western United Dairymen and Western United Resource Development, Inc.
Chuck Clendenin, Business & Cooperative Program Director, USDA Rural Development, State of California
Rod Boschee, Manager, Business Development, Gas Transmission & Distribution, Pacific Gas & Electric
Ron Alexander, R. Alexander & Associates, Inc.
Dr. Dieter Korz, Engineer, Ros Roca, Esslingen, Germany
Louis Kazemier, Owner, Rickreall Dairy

10:15 am **Break**

10:30 am **Concurrent Sessions**

TRACK 1 **Biogas Regulatory Roundtable**

Regulatory Barriers to Biogas in California: A Vision for the Future

California regulators and end users share their view of the future for biogas developments in California in light of known barriers.

Mike Waugh, CA Air Resources Board
Robert Holmes, CA Integrated Waste Management Board

TRACK 2 **Biogas Injection Roundtable**

A Technical Specification for Biogas Injection, Monitoring & Transport

Gas providers, regulators, and gas upgrading vendors are invited to join us in discussing the technical and institutional issues facing the biogas injection industry. *The end goal is to develop a biogas injection specification for use in the United States.*

Roundtable Participants include:

John Menke, State Water Resources Control Board
Rudy Schnagl, Central Valley Regional Water Control Board
Judith Iklé, CA Public Utilities Commission
David Jones, U.S. Environmental Protection Agency, Region IX
Karen Mills, Director of Public Utilities and Associate Counsel, CA Farm Bureau Federation

Moderators:
Kevin Best, RealEnergy LLC
Katharine Wagner, Downey Brand

Gas Technology Institute
Constellation New Energy
San Diego Gas and Electric
Sempra Energy Utilities
Southern California Gas Company
Southwest Gas Corporation
Northwest Natural Gas

Moderators and Presenters:
Rod Boschee, Manager, Business Development, Gas Transmission & Distribution, Pacific Gas & Electric
Dr. Dieter Korz, Engineer, Ros Roca, Esslingen, Germany

12:00 pm

Luncheon and Keynote Speaker

"Biofuels: The Next Stage"

The Honorable Thomas Dorr, Undersecretary for Rural Development, U.S. Department of Agriculture

1:00 pm

Concurrent Sessions

TRACK 1 **Biogas Regulatory Roundtable**

Regulatory Barriers to Biogas in California: A Streamlined Path to Compliance

A matrix of barriers to biogas development compliance will be presented based on interviews with California stakeholders. Feedback and discussion with the audience.

Scott Anders, University of San Diego, School of Law

Morning Roundtable Participants

TRACK 2 **Biogas Injection Roundtable**

Biogas Cleanup – Injection – Monitoring

Participants include:
Gas Technology Institute
Constellation New Energy
San Diego Gas and Electric
Sempra Energy Utilities
Southern California Gas Company
Southwest Gas Corporation
Northwest Natural Gas

Moderators:
Diane Saber, Gas Technology Institute
Denny Henderson, NW Natural Gas (Invited)

2:45 pm

Afternoon Break

3:00 pm

Concurrent Sessions

TRACK 1 **Biogas Regulatory Café**

Participants discuss the following questions in small-table sessions:

1. What issue will have the most impact on your organization from prolific biogas development?
2. What is our best opportunity to increase the deployment of biogas development on California farms?
3. What is needed to expand that opportunity?

TRACK 2 **Biogas Injection Roundtable**

Interconnection & Tariffs

Current Participants include:
Gas Technology Institute
Constellation New Energy
San Diego Gas and Electric
Sempra Energy Utilities
Southern California Gas Company
Southwest Gas Corporation
Northwest Natural Gas

Moderators:
Raymond Kindley, Schwabe Williamson & Wyatt
Ken Brennan, Pacific Gas & Electric

4:00 pm

Biogas Regulatory Town Meeting

Following the café sessions, facilitators will harvest the results in a Town Meeting.

Facilitators:
David Jones, U.S. Environmental Protection Agency, Region IX

4:30 pm

Adjourn

5:00 pm **Prepare to Load Buses for Clos Pegase Winery**

5:30 – 10:00 pm **Wine Cave Dinner – Clos Pegase Winery**
Remarks: *Dan Skopec, Undersecretary, California EPA*

Friday, April 20, 2007

8:00 am **Continental Breakfast**

9:00 am **Plenary Session – Town Meeting Results and Perspectives**

Karl Longley, Chair, Central Valley Regional Water Quality Control Board
David Jones, U.S. Environmental Protection Agency, Region IX
Valentino Tiangco, California Energy Commission

Moderator:
Kevin Best, CEO, RealEnergy LLC

10:00 am **Concurrent Sessions**

TRACK 1
BioEnergy Regulatory Roundtable

TRACK 2
Biogas Injection Roundtable

Biogas in California: Solutions, Action Steps, and Leaders

Biogas Injection Specification

Susan Brown, Special Advisor to Commissioner Boyd, California Energy Commission
Michael Marsh, CEO, Western United Dairymen and Western United Resource Development, Inc.

Roundtable participants will discuss the requirements and key elements of a biogas injection specification.

Moderators:
Scott Anders, University of San Diego School of Law
Kevin Best, CEO, RealEnergy, LLC

11:30 am **Adjourn – Closing Comments**

12:00 pm **Box Lunch and Car Pools (Or Drive Independently) to University of California - Davis**

2:00 – 3:00 pm **Orientation to UC Davis Energy Efficiency Center**

3:00 – 5:00 pm **Tour of Biogas Project**

5:00 pm **Adjourn**