

5<sup>th</sup> Annual

# WASTE TO ENERGY

## DEVELOPMENT & FINANCE SUMMIT

January 23-25, 2013 | 300 East Randolph | Chicago, IL

### Wednesday, January 23, 2013

#### Pre-Summit Workshop: Structuring Financeable Waste to Energy Projects

What does it really take to get a waste to energy project financed in the post-tax grant era? The Workshop will be dedicated to answering this question in depth. The workshop will have a double focus. First, it will examine the trends in financial markets and types of financing opportunities available to waste to energy projects. Second, it will stress the key requirements that projects need to meet to successfully secure financing in the current market for waste to energy projects.

### Thursday, January 24, 2013

8:00 – 8:10      *Opening Remarks by Summit Chair*

**Mona Dajani**, *Partner*, BAKER & MCKENZIE LLP

8:10 – 8:45      *Presentation:*

#### **POST-ELECTION FEDERAL AND EPA UPDATE**

Federal government policies and incentives have played a vital role in supporting renewable energy development, as have environmental regulations. This session will provide a post-2012 election update on the federal landscape and what kind of policies and incentives we might expect from the 113<sup>th</sup> U.S. Congress, along with an update on the EPA.

**Ted Michaels**, *President*, ENERGY RECOVERY COUNCIL

8:45 – 9:15      *Presentation:*

#### **STATE INCENTIVES UPDATE AND OUTLOOK**

State policies can also play a crucial role in facilitating the development of waste to energy projects. This session will outline some of the states with waste to energy incentives available and look at the state government policy landscape.

9:15 – 9:45      *Presentation:*

#### **WASTE TO ENERGY MARKET ANALYSES**

This presentation will discuss the drivers and challenges of the waste to energy space, while identifying key innovators positioned to grow this market going forward.

**Andrew Soare**, *Analyst*, LUX RESEARCH, INC.

9:45 – 10:15 *Networking Break*

10:15 – 11:15 *Panel Discussion:*

**EXPANDING THE U.S. WASTE TO ENERGY MARKET: WHAT IS IT GOING TO TAKE?**

While experts project steady growth in the Waste to Energy market over the next decade, many challenges and hurdles remain. This panel discussion will map out the key challenges facing the industry and provide insight on potential paths for achieving industry expansion.

Moderator:

**Keith Martin**, *Partner*, CHADBOURNE & PARKE LLP

Panelists:

**Christopher Davis**, *Vice President – Development*, MONTAUK ENERGY

**John Eustermann, Sr.** *Vice President, General Counsel*, HARVEST POWER, INC. (*Invited*)

**Randy Lack**, *Founder, Board Member and Chief Marketing Officer*, ELEMENT MARKETS

**Douglas Machon**, *Business Development*, NAES CORPORATION

11:15 – 12:15 *Panel Discussion:*

**COMMERCIAL AND INDUSTRIAL WASTE GENERATORS' PERSPECTIVES ON WASTE TO ENERGY PROJECTS**

Commercial and industrial waste generators are beginning to explore waste to energy projects as a potential solution to managing their waste streams. This panel discussion will share how waste to energy projects fit into their waste management plans, the options they are considering and what they are looking for from the waste to energy industry.

Moderator:

**David Hattery**, *Partner*, STOEL RIVES LLP

12:15 – 1:45 *Networking Luncheon*

1:45 – 2:15 *Case Study:*

**THE PLANT: SUSTAINABILITY IN AN URBAN ENVIRONMENT THROUGH ANAEROBIC DIGESTION**

The Plant, a vertical farm and food business incubator in Chicago, will use anaerobic digestion to be a zero waste, self-sustaining facility. The purpose of The Plant is to bring sustainable, urban agriculture to a vacant industrial building while improving health and vitality and creating green-collar jobs. The benefits of using an anaerobic digester are to create renewable energy as well as divert organic waste from landfills. By diverting over 10,000 tons of food waste from landfills yearly, The Plant will generate enough electric and thermal energy from biogas to power and heat the building.

**Thomas Gratz**, *Regional Sales Manager*, EISENMANN CORPORATION

2:15 – 2:45

*Presentation:*

**WASTE TO ENERGY TECHNOLOGY UPDATE**

One of the biggest barriers in financing Waste to Energy projects is that the technologies are relatively novel. This session will examine the different Waste to Energy technologies on the market, and will provide an analysis of how close each is to commercialization & financeability.

**Harvey W. Gershman**, *President*, GERSHMAN, BRICKNER & BRATTON, INC.

2:45 – 4:00

*Panel Discussion:*

**FINANCING INDUSTRY GROWTH**

Representatives from the financial community will share their perspectives on the options for financing waste to energy technology and projects. This panel will detail, among many things, financing opportunities that are available, the types of problems that keep them from investing and the features of the current financing environment that project developers should focus on.

Moderator:

**David L. Benson**, *Partner*, STOEL RIVES LLP

Panelists:

**Jon Best**, *Renewable Energy Account Manager*, CATERPILLAR FINANCIAL SERVICES CORPORATION

**John Eber**, *Managing Director - Energy Investments*, JPMORGAN CAPITAL CORPORATION

**Tracey Gunn Lowell**, *Vice President of Tax Credit Syndications*, U.S. BANK

**Jerome P. Peters, Jr.**, *Managing Partner*, ENERGY POWER PARTNERS

**Robert Sternthal**, *President & Managing Director*, REZNICK CAPITAL MARKETS

4:00 – 4:30

*Networking Break*

4:30 – 5:00

*Case Study:*

**THE GREAT SCALE RACE & GUIDELINES FOR SUCCESS**

Sierra Energy's CEO, Mike Hart introduces FastOx gasification, discusses the issues of scale and shares guidelines for successful waste conversion projects. Sierra Energy is currently working on two commercial projects, one in West Sacramento and the other near Monterey that were awarded grants from the California Energy Commission and the Department of Defense respectively. Mike will share how Sierra was awarded those grants and what they look for from financiers for their projects.

**Mike Hart**, *President and CEO*, SIERRA ENERGY

5:00 – 5:30

*Presentation:*

**HOW THE SHALE REVOLUTION IS IMPACTING WASTE TO ENERGY PROJECTS**

The innovations and improvements in drilling for natural gas and oil are having profound impacts on how the market and government view traditional energy sources. This presentation will discuss how these new developments are affecting the waste to energy industry, what hurdles developers may expect to face from the market moving forward, and what we all can learn.

**Harris Ziskroit**, *Principal*, BREGAL ENERGY

**Friday, January 25, 2013**

7:00 – 8:00

*Networking Breakfast*

8:00 – 9:00

*Panel Discussion:*

**OPPORTUNITIES FOR EXTRACTING VALUE FROM WASTE TO BIOGAS**

The biogas market is expanding and new projects continue to gain traction in the marketplace. This panel will discuss the future of the biogas market and the opportunities for extracting value from organic waste streams. How is the biogas market evolving? What level of projects are we likely to see in the future? What will be the key factors in putting together successful deals?

Moderator:

**Paul Greene**, *Vice President*, O'BRIEN & GERE, *Chairman*, AMERICAN BIOGAS COUNCIL

Panelists:

**Nadeem Afghan**, *President & CEO*, BIOFERM ENERGY SYSTEMS

**Robert Blythe**, *President*, NAPOLEON BIOGAS, *Co-Founder*, CH4 BIOGAS, LLC

**Timothy J. Cesarek**, *Senior Vice President – Business Development*, North America, ENERKEM, INC.

**Andy Dvoracek**, *Vice President – Biogas Development*, CAMCO CLEAN ENERGY

**Melvin R. Kurtz**, *President*, QUASAR ENERGY GROUP

9:00 – 10:00

*Panel Discussion:*

**MUNICIPALITIES' PLANS FOR FUTURE WASTE TO ENERGY PROJECTS**

To meet the challenge of growing municipal waste, municipalities continue to explore their options for incorporating waste to energy projects into their waste management strategies. A number of localities are either in the exploratory, planning or procurement stage. This panel of municipal representatives will share their perspectives on the opportunities for waste to energy projects. They will talk about the factors driving their interest in these projects and will also discuss the

type of relationships they are looking to establish within the waste to energy development community.

Moderator:

**Audrey C. Louison**, *Member*, MINTZ, LEVIN, COHN, FERRIS, GLOVSKY and POPEO, P.C.

Panelists:

**Jose Gamboa**, *Assistant General Manager*, SALINAS VALLEY SOLID WASTE AUTHORITY

**Bob Gedert**, *Director, Austin Resource Recovery*, CITY OF AUSTIN

**Thomas Love**, *General Manager*, INLAND EMPIRE UTILITIES AGENCY

**Raymond H. Schauer**, *Director, Engineering & Public Works*, SOLID WASTE AUTHORITY OF PALM BEACH COUNTY

*Additional Panelists to be Announced*

10:00 – 10:15 *Networking Break*

10:15 – 10:45 *Joint Case Study:*

**PUBLIC/PRIVATE PARTNERSHIP SUCCESSFULLY IMPLEMENTS A BIOENERGY PROJECT**

The City of Beaver Dam, Wisconsin wastewater treatment plant was over 25 years old and was significantly exceeding its design capacity. Additionally, the City wanted to provide adequate treatment capacity for existing and future growth of industries in the City to maintain the long-term vitality of the community. Since Beaver Dam was in the process of planning an upgrade to its treatment plant, the City and Kraft Foods worked cooperatively to evaluate and pilot test an anaerobic pretreatment system to treat high-strength wastes from Kraft. The anaerobic pretreatment system was incorporated as part of the City's treatment plant upgrade at the current site. Biogas from the pretreatment system is combined with biogas from the City's anaerobic sludge digesters and sent to two 400 kW engine-generators, and the City has reduced its operating costs through the sale of electricity to Alliant Energy. This case study will discuss the implementation and issues that were addressed with this successful joint public/private partnership.

**Don Quarford**, *Utility Director*, CITY OF BEAVER DAM

**Jim Smith, P.E.**, *Partner*, APPLIED TECHNOLOGIES, INC.

10:45 – 11:45 *Panel Discussion:*

**OFFTAKERS' PERSPECTIVES ON ACQUIRING ENERGY FROM WTE**

Utilities' perspectives on waste to energy projects continuously evolve. This session will share their latest perspectives on their waste to energy options, share their current plans, and discuss what they are looking for from the waste to energy projects.

Moderator:

**Mona Dajani, Partner, BAKER & MCKENZIE LLP**

Panelists:

**Valentino M. Tiangco, Ph.D., Biomass Program Lead and Senior Project Manager, Energy Research and Development Department, SMUD**

*Additional Panelists to be Announced*

11:45 – 12:45 **WASTE MANAGEMENT AND LANDFILL INDUSTRY PERSPECTIVES**

The waste management industry continues to play a central role in driving the future of the waste to energy market. This panel discussion will focus on the current perspectives and plans from those within the industry, the role that waste to energy plays in planning their future and the types of business models that will support those plans.

Moderator:

**James Thompson, Jr., Principal, WASTE BUSINESS JOURNAL**

Panelists:

**Dean C. Foor, PE, PS, Managing Member, EC OREGON, LLC**  
*(Invited)*

**Eric Peterson, Vice President, SCS ENGINEERS**

12:45 *Closing Remarks by Summit Chair*

**Mona Dajani, Partner, BAKER & MCKENZIE LLP**