



## Landfill Methane to Markets Workshop Krakow, Poland 4 and 5 November 2008

Sponsored by Methane to Markets Partnership  
through the Oil and Gas Institute (INIG) and the International Solid Waste Association (ISWA)

Landfill methane capture and use is good for the global environment by reducing greenhouse gas emissions, and in many cases can be good for business, too. More than 1,100 landfill methane energy projects are operating around the world, and there are thousands more opportunities that have not yet been exploited. This workshop will provide the basics of landfill methane energy project planning, design, and financing, and will discuss opportunities for landfill methane capture and use in Poland, Ukraine and the surrounding region. Presenters will provide their experiences with these projects that capture an otherwise wasted source of energy. Whether or not you are a landfill owner, government official, project developer, or potential project financier, you'll come away with a greater understanding of how landfill methane energy projects are developed.

### WORKSHOP PROGRAM

#### 4 November 2008

**8:00 am Registration**

#### **Opening Session – Workshop Objectives**

9:00 am Welcome and Introductions

- *Swarupa Ganguli, Program Manager, U.S. Environmental Protection Agency, Landfill Methane Outreach Program*
- *Maria Ciechanowska, General Director of Oil and Gas Institute*
- *Diana DeBastos, Assistant Project Manager, International Solid Waste Association*

#### **Workshop Overview**

**Session 2 -- Landfill Basics**

9:45 am **2a) Landfill Design and Operation Basics**  
**1. Working Face Management**  
**2. Cover Materials**  
**3. Landfill Fires**

11:15 am **Break**

**Session 3 – Landfill Gas Energy Systems**

11:30 am **3a) Landfill Well Field and Project Components**

12:00 pm **3b) Modeling Landfill Biogas Generation**

1:00 pm **Lunch Break**

**Session 4 – Landfill Biogas Project Planning**



- 2:00 pm      **4a) Determining a Good Candidate for a Landfill Biogas Project**
- 2:30 pm      **4b) Conducting Feasibility Studies and Pump Tests**
- 3:00 pm      **4c) Landfill Biogas Technology Applications**
- 3:15          **Break**
- Session 5 - Landfill Gas Energy Project Economics and Financing**  
3:30 pm      **5a) Landfill Gas Project Financing and Carbon Credits**  
                    **1. Financing a Landfill Biogas Project**  
                    **2. Practical Challenges in Producing Carbon Reduction Units**
- 4:30 pm      **5b) Successful Methane Recovery Projects in Poland**
- Session 6 -- Overview of Barczyk Landfill and Biogas Energy Project**  
5:00 pm      Landfill Energy Project Overview
- 5:30 pm      Questions and Answers

### **5 November 2008**

9:00am-1:00pm Site Visit to Barczyk Landfill. Tour the landfill biogas collection system and energy project.

### **Workshop Registration**

There is no charge for the workshop. To register for the event contact:

Piotr Klimek, Oil and Gas Institute (Instytut Nafty i Gazu)  
Email: klimek@inig.pl  
Phone: +48 12 421-3-00-33

***Or***

Cathleen Hall, SCS Engineers  
Email: chall@scsengineers.com  
Phone +1 703-471-6150

Registration is limited--register today!

### **Conference Venue and Hotel Information**

The workshop will be held at the Qubus Hotel and Conference Center in Krakow.

Qubus Hotel Krakow  
Street Nadwislanska 6  
30-527 Krakow  
Phone: (+48 12)374 5 100  
Fax: (+48 12)374 5 200



Email: [Krakow@qubushotel.com](mailto:Krakow@qubushotel.com)

To make a hotel reservation:  
(+48 71)78287 65  
[reservations@qubushotel.com](mailto:reservations@qubushotel.com)