



Landfill Methane to Markets Specialized Workshop **Rimini, Italy, November 7, 2006**

Sponsored by ISWA Italy (International Solid Waste Association), and the Methane to Markets Partnership

Tuesday, November 7, 2006

8:30 am **Registration**

9:15 am **Welcome Mr. Cesare Romani** *Rimini Provincial Environmental Councillor*

Opening Session – Workshop Objectives and Discussion

9:30 am Panel Members

- *Corrado Clini, Methane to Markets Partnership Landfill Subcommittee Representative, Italy*
- *Mario Lazzeri, D'Appolonia and Co-Chair, Methane to Markets Landfill Subcommittee*
- *Brian Guzzone, U.S. Environmental Protection Agency, USA*
- *Carlo Noto la Diega, ISWA Board of Directors*

11:00 am **Break**

Session 2 - Project Development

Moderator: Brian Guzzone, US EPA

11:30 am 2a) Prospects for Landfill Biogas Energy Projects
Gary Crawford, Veolia Environmental Services, France

12:00 am 2b) Near-Term Project Financing for Biogas Projects
Neil Cohen, NatSource, USA

1:00 pm Lunch Break

Session 3 - Landfill Gas Energy Project Planning

Moderator: Brian Guzzone, US EPA



- 2:30 pm 3a) Emerging Landfill Designs to Enhance Methane Capture
Greg Vogt, Chair, ISWA Sanitary Landfill Working Group
- 3:00 pm 3b) Emerging Biogas Utilization Technologies
Derek Greedy, Vice Chair, ISWA Sanitary Landfill Working Group
- 3:30 pm 3c) Modeling Biogas Generation and Capture for Different Countries
Alex Stege, SCS Engineers, USA

4:00 pm Break

Session 4- Italian Case Studies and Issues

- 4:15 pm 4a) Biogas System Operations
Luca Brondello Marcopolo Environmental Group Bioenergy Department Manager
- 4:45 pm 4b) Optimization of Biogas Recovery With Organic Rankin Cycle Engine: Terranuova Bracciolini Landfill Case Study
Gianfranco Saetti, Managing Director Centro Servizi Ambiente
- 5:15 pm 4c) Analysis of the efficiency of anew biogas treatment system
Mario Gugliotta (ICQ HOLDING SpA Chair), Michael X Cabibbo (Gestione Energetica Srl General Manager), Giuseppe Spina (Gestione Energetica Srl).
- 5:45 pm 4c) Bio-methane from biogas: production and end-use at Rome-Malagrotta landfill
Alberto Carrera CO.LA.RI. Consorzio Laziale Rifiuti

Wrap-up and Adjourn



Wednesday, November 8, 2006

9:00am-1:00pm

Technical Tour to the CESENA Landfill Facility

<i>Energy recovery plant owner</i>	<i>Romagna Energia Srl (ICQ Group)</i>
<i>Location</i>	<i>Valle Rio della Busca, località Tessello – Cesena (FC), Italy</i>
<i>Landfill plant owner</i>	<i>HERA SpA</i>
<i>Year of construction of landfill plant</i>	<i>1999</i>
<i>Year of construction of biogas plant</i>	<i>October 2005</i>
<i>Amount of waste treated with biogas technology</i>	<i>approx. 450,000 ton up to date</i>
<i>Installed power</i>	<i>1.150 kW</i>
<i>Size and number of engines</i>	<i>1 x JGS 312 GS L.L. 1 x JGS 212 GS L.L.</i>
<i>Emissions treatment technology</i>	<i>CLAIR</i>
<i>Current biogas flow</i>	<i>1,000 kW on 8,760 equivalent hours</i>
<i>Size of flare</i>	<i>1,200 cubic meters per hour</i>

The languages of the Workshop are English and Italian, a simultaneous translation service to and from English is foreseen.