

Urban waste for biomethane grid injection and transport in urban areas

Project No: IEE/10/251



## ***Summary of Biogas / Biomethane Training in Rzeszów - Poland***

***WP 4 – Task 4.2 / D 4.2***

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POLSKIE STOWARZYSZENIE BIOGAZU  
Polish Biogas Association



Authors: Michal Surowiec, Polish Biogas Association  
Editors: Michal Surowiec, Polish Biogas Association  
Contact: Polish Biogas Association  
Michal Surowiec  
Email: [Michal.surowiec@pba.org.pl](mailto:Michal.surowiec@pba.org.pl), Tel: +48 (58) 622 81 81  
Al. Zwycięstwa 94/96  
81-451 Gdynia, Poland  
[www.pba.org.pl](http://www.pba.org.pl)

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UrbanBiogas website: [www.urbanbiogas.eu](http://www.urbanbiogas.eu)

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## Introduction

The purpose of the series of trainings on biogas and biomethane is to promote knowledge among decision makers, local government officials and other interested parties, about the UrbanBiogas project and the biogas industry.

## Description of Training

The first training session in the series took place on the 21 of October 2011 in Rzeszów. The presentations were held in RARR building in Rzeszów (ul. Szopena 51). The first block of the program was introductory in its nature and aimed at acquainting the audience with the UrbanBiogas project as well as to sketch the legal situation of producing biogas from urban bio waste in Poland.

The second block involved more specific topics and was geared towards introducing the technological concepts of biogas production and upgrading to biomethane. Examples of successful application of those concepts were showcased. This part of the meeting was led by Mr. Henning Hahn from Fraunhofer IWES who supplied his expertise in the field. Typical funding sources for large biogas plant projects were named and cost approximations presented.

The last block involved presenting a concept for local biomethane grid-injection in Gdynia (Poland) The concept involved use of biomethane as transport-fuel for the municipal bus-fleet. The concept was interesting because Rzeszów is one of the few cities in Poland which run part of their municipal buses on CNG.

The presentations were followed by questions from the audience. The main concern amongst the gathered decision-makers appeared to be the sources of funding and the sustainability of a constant flow substrate for a biogas plant fed by urban bio waste.

## Conclusion

The training turned out to be a fruitful event for the participants and an important input has been made as far as the general knowledge of the possibilities and limits of the available biogas technologies concerned.

The questions put forward during the Q&A Session point to specific problem areas that need to be addressed in the coming biomethane training and the UrbanBiogas project in general.

## Appendix I – Translated program of training

9.00 – 9.15		UrbanBiogas – future solutions for cities Piotr Pawelec, PAE
9.15 – 9.40		Municipal waste as source of biogas Piotr Pawelec, PAE
9.40 – 10.30		Legal aspects of operating non-agricultural biogas plants in Poland Adam Cyrek, PAE
10.30 11.10	–	Production of Biomethane Henning Hahn, Fraunhofer IWES
11.10 11.30	–	Coffee break
11.30 12.10	–	Upgrading of Biogas Henning Hahn, Fraunhofer IWES
12.10 12.50	–	Financing of Biogas projects Henning Hahn, Fraunhofer IWES
12.50 13.20	–	Financing of Biomethane Projects – Examples of possible solutions – local methane grid for bio-CNG in MPK Gdynia Mariusz Pawlak, PBA
13.20 13.40	–	Q&A Session moderation – Michał Surowiec, Mariusz Pawlak, Henning Hahn

## **Appendix II – List of participants**

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