

Urban waste for biomethane grid injection and transport in urban areas

Project No: IEE/10/251



Survey on waste management and waste separation in **name of the target city**

WP 3 – Task 3.5, D3.4

September 2011

Logos of target country
partners

The UrbanBiogas Project

The UrbanBiogas project “Urban waste for biomethane injection and transport in urban areas” (Contract No. IEE/10/251) is supported by the European Commission in the “Intelligent Energy for Europe” Programme. The objective of UrbanBiogas is to promote the use of the untapped fraction of organic urban waste for biogas production in order to inject biomethane in the natural gas grid and to use it in transport in five European countries: Austria, Croatia, Latvia, Poland, and Portugal.

UrbanBiogas consists of 6 European partner organisations. The project is coordinated by the WIP Renewable Energies from Germany. The responsible partners for **name of the target country** are **name of the partner 1** and **name of the partner 2**.

In 5 target cities (Zagreb, Graz, Valmiera, Abrantes, and Rzeszów) as well as in partnerships with other European cities a set of well-defined activities will be implemented to contribute towards three main priorities: bringing untapped bio-recourses into the energy market, encouraging biogas injection into gas grids or use as transport fuels, and stimulating investments and business agreements in sustainable bio-energy supply chains.

More information on the UrbanBiogas project is available on the website: **www.urbanbiogas.eu**

Aim of the Survey

Since the efficient waste separation management of municipal solid waste highly depends on the citizens, public consultation surveys are implemented in each target city. The aim of the survey is to reach a large audience of citizens and to hear their opinion on the implementation of separate waste collection with possible hurdles in practice.

The results of this survey will be used to support the waste policy of the target cities. They will be presented at one public consultation event per target city.

The completion of the questionnaire takes only about 10 minutes.

This Questionnaire was elaborated by Ekodoma, Ltd., Latvia.

Contact

Please send the Questionnaire back by email/fax/post as soon as you complete it but not later than **date** to:

Organization

Person, position

Address: XXX

Telephone: XXX

Fax: XXX

E-mail: XXX



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The UrbanBiogas project duration is May 2011 to April 2014 (Contract Number: IEE/10/251).

1. General information and waste treatment habits

1.1. Do you pay attention to your household waste quantity? Yes ☐ / No ☐

1.2. What is the approximate amount of waste generated in your household per month?

☐ Option A

☐ Option B

☐ Option C

☐ I don't know

1.3. Please rank from 1 to 7 different waste types generated in your household per month depending on the amount, giving 7 for the greatest share and 1 for the smallest share of particular type of waste.

Paper and cardboard

Organic waste (e.g. kitchen waste, garden waste, etc.)

Plastic

Metal

Glass

Hazardous waste

Other waste

1.4. Do you sort waste either at home or at work? Yes ☐ / No ☐

If the answer to 1.4 was yes, please:

1) Specify, which type of waste do you sort? (More than one answer is possible)

☐ Paper and cardboard

☐ Metal

☐ Plastic

☐ Glass

☐ Organic waste (e.g. kitchen waste, garden waste, etc.)

☐ Hazardous waste

2) Specify the reason (-s) for waste sorting:

☐ I understand that waste materials can be recycled thus decreasing consumption of energy and resources

☐ I understand that in this way I can reduce the amount of waste disposed at landfill

☐ I practise green lifestyle everyday

☐ By sorting waste I can reduce my costs for waste management

☐ Other _____ (please name)

If the answer to 1.4 was no, please specify the reason (-s) for not sorting waste:

- ☐ Lack of waste sorting infrastructure near my dwelling
- ☐ Lack of time for such activities
- ☐ I do not consider waste sorting as necessary
- ☐ It makes no sense to sort the waste because everything is mixed together in the garbage truck
- ☐ It is too expensive
- ☐ Other _____ (please name)

1.5. How is the organic waste (e.g. kitchen waste, garden waste) treated in your household?

- ☐ Composted
- ☐ Collected separately and transferred for recycling
- ☐ Trashed in unsorted waste container and landfilled afterwards
- ☐ Other _____ (please mention)

1.6. What is the cost for waste treatment in your household per month?

- ☐ **Option A** ☐ **Option B** ☐ **Option C** ☐ I don't know

1.7. To whom does your household pay for waste management?

- ☐ To the utility company that belongs to municipality
- ☐ To the private utility company
- ☐ Directly to the waste management company
- ☐ Other _____ (please name)

2. Existing waste management infrastructure and residents general satisfaction

2.1. Are you generally satisfied with existing waste management system in **name of the city** municipality?

Yes ☐ / No ☐

2.2. Are you satisfied with the number of waste removal times?

Yes ☐ / No ☐

If the answer to 2.2 was no, please explain should it be:

☐ More often

☐ Less often

2.3. Are you satisfied with waste sorting facilities in **name of the city** municipality?

Yes ☐ / No ☐

If the answer to 2.3 was no, please explain the reason:

2.4. Do you think that the range of separately collected materials is wide enough?

Yes ☐ / No ☐

If the answer to 2.4 was no, please explain what other materials should be collected for recycling in your opinion:

2.5. Are there available separate waste collection containers near the place you live?

Yes ☐ / No ☐

If the answer to 2.5 was yes, please specify the type of waste which can be collected separately near the place you live?

☐ Paper and cardboard

☐ Metal

☐ Plastic

☐ Glass

☐ Organic waste (e.g. kitchen waste, garden waste, etc.)

☐ Hazardous waste

☐ Other _____ (please name)

If the answer to 2.5 was no, would you use separate waste sorting containers if there were such?

Yes ☐ / No ☐

3. Education and awareness

3.1. Do you think that the quantity of waste sent for disposal to landfill should be minimised?

Yes ☐ / No ☐

- 3.2. Do you think that the **name of the city** municipality should introduce waste collection initiatives that are designed to reduce the amount of waste generated and landfilled?

Yes ☐ / No ☐

- 3.3. Can you suggest any ways you could minimise the waste you produce?

Yes ☐ / No ☐

If the answer to 3.3 was yes, please specify:

- 3.4. Can you name any ways of recycling organic waste except landfilling?

Yes ☐ / No ☐

If the answer to 3.4 was yes, please name them:

- 3.5. How do you estimate your knowledge about waste sorting?

☐ Excellent ☐ Good ☐ Medium ☐ Very little ☐ No knowledge at all

- 3.6. How do you estimate your knowledge about organic waste recycling options, e.g. biogas production?

☐ Excellent ☐ Good ☐ Medium ☐ Very little ☐ No knowledge at all

- 3.7. Is there enough public information available on waste sorting? Yes ☐ / No ☐

- 3.8. Do you know who can provide information on sustainable waste management?

Yes ☐ / No ☐

If answer to 3.8 was yes, please specify:

- 3.9. Have you ever participated in a training course or workshop targeting waste sorting and/or biogas production from organic waste?

Yes ☐ / No ☐

- 3.10. Would you like to participate in a training course targeting waste sorting and/or biogas production from organic waste?

Yes ☐ / No ☐

4. Problems and actions

- 4.1. Are the existing waste management and separate waste collection systems in your municipality problematic?

Yes ☐ / No ☐

If answer to 4.1 was yes, which are in your opinion the main problems?

- ☐ Lack or non-existence of the infrastructure
- ☐ Low environmental awareness and knowledge among society
- ☐ Low income of the inhabitants which does not allow an increase of costs for waste management services
- ☐ Low tariffs for the collection of unsorted municipal solid waste which do not motivate the industry and households to implement more advanced waste management options
- ☐ Lack of legal, financial, and administrative instruments for the implementation of advanced waste management options
- ☐ Poor response to waste minimization (reuse/recycling)
- ☐ Lack of control of hazardous waste

- 4.2. Would you support the **name of the target city** municipality to reduce the amount of biodegradable waste sent to the landfill?

Yes ☐ / No ☐

- 4.3. Would you support the use of a separate container for the collection of kitchen waste?

Yes ☐ / No ☐

- 4.4. Would you prefer to bring your waste to a joint container, or would you prefer to have your own waste bin for kitchen waste?

Joint container ☐ / Own waste bin ☐

- 4.5. How often should be the bin / container emptied?

☐ **Every second day** ☐ **Twice a week** ☐ **Once a week** ☐ I don't know

- 4.6. Is the distance to the nearest sorted waste container important for you to sort organic waste?

Yes ☐ / No ☐

If answer to 4.6 was yes, please specify, what is the maximum distance you are willing to go to dispose the organic waste?

☐ up to 100m ☐ 100–200m ☐ 200–300m ☐ 300–500 ☐ over 500m

- 4.7. Would you be ready to spend some extra time for waste sorting? Yes ☐ / No ☐

- 4.8. Would you be ready to pay extra money to increase the range of separately collected materials?

Yes ☐ / No ☐ / Waste separation would be independent from money for me ☐

If answer to 4.6 was yes please, specify, how much extra would you be ready to pay per year?

☐ up to 10€ ☐ 10-25€ ☐ 25-50€ ☐ more than 50€

If answer 4.6 was no, please specify for how much fee reduction you would be willing to separately collect waste?

☐ up to 10€ ☐ 10-25€ ☐ 25-50€ ☐ more than 50€

- 4.9. Would you support the idea of building an organic waste management facility close to the city, therefore complying with self sufficiency and proximity principle?

Yes ☐ / No ☐

- 4.10. Would you support the idea of building an organic waste management facility within the city or close to the city if it would reduce the cost of waste management for the residents of **name of the target city** municipality?

Yes ☐ / No ☐

- 5. Any message, I would like to give to the waste collectors and authorities in my city:**

6. Personal information

6.1. You live in:

- ☐ an apartment house
☐ a private house
☐ other _____ (please mention)

6.2. Please indicate the number of people living in your household _____

6.3. What is your profession? _____

6.4. What is your age? _____

6.5. What is your gender (M or F)? _____

Optional: Please give your contact information if you would like to be invited for UrbanBiogas project organized trainings and seminars regarding sustainable waste management and using organic waste for biogas and biomethane production:

Your full name:

E-mail address:

Telephone:

This page is left blank for additional comments relating to the waste management proposals

Thank you for completing the questionnaire!

Please return the filled questionnaire to the address given at page 2 of the questionnaire.