

Urban waste for biomethane grid injection and transport in urban areas

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Competition event in Abrantes/Portugal

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Introduction

The event in Avis took place in Valnor's installations on the 19th of February 2014. Valnor is a waste management company that covers 25 municipalities, in which Abrantes is included, which corresponds to a total area of around 11.980 Km².

The event was divided in two parts. The first one oriented to presentations from local entities and Zagreb and the second one was a visit to valnor's installations more oriented to the installed capacity at Valnor.

IrRADIARE and Abrantes organized the event in which WtB concept is promoted. IrRADIARE and Abrantes invited the Zagreb city holding to participate the event in order to reach more interested stakeholders. This event was organized for the biogas plant planners and companies and also allowed a signature between an energy agency and Zagreb city holding.

Zagreb city holding was represented by Monika Kruhek and Bojan Ribic in the event.

Objective

The objective of this event was related to the presentation of the outcomes of Urbanbiogas, promoting the Wtb concepts developed for Abrantes and Zagreb.

The event covered different types of groups from municipalities, energy agencies, local companies and stakeholders interested in biogas' projects, investments and opportunities.



Picture 1 - Dissemination of Urbanbiogas in the event

Discussion

The event began with a presentation from Valnor's Administrator, José Pinto Rodrigues, highlighting some indicators of Valnor in what concerns the waste received and treated in the installations of Valnor and the outcome of energy production.



Picture 2 - José Pinto Rodrigues, Valnor's administrator

After the opening session, Flávia Duarte presented Urbanbiogas project, what was aimed at achieving and also the status of the work developed close to the end of the project. After the presentation, the Urbanbiogas video was showed.



Picture 3 - Flávia Duarte, IrRADIARE

Mónica Martins followed Flávia Duarte's presentation approaching the sustainable waste management in the region of the energy agency, in which Abrantes is included.



Picture 4 - Mónica Martins, MedioTejo21

A more extensive presentation on the work developed by Valnor was held by Cláudia Simões regarding the solid urban waste treatment unit and also the future investments for biogas in Valnor.

It was possible by the presentation to understand how the integrated system of Valnor was organized and to acknowledge that Valnor is planning to invest in the increase of the installed capacity for biogas production.



Picture 5 – Cláudia Simões, Valnor

After the coffee break, Monika Kruhek and Bojan Ribic made a presentation on the sustainable waste management in Zagreb and the status of the work developed under Urbanbiogas.



Picture 5 - Bojan Ribic, Zagreb City Holding

The next presentation, by Areanatejo (an energy agency) focused on the energetic efficiency aspects and the biogas production in Valnor. The presentation highlighted a study undertaken by Areanatejo to assess what Valnor was doing and if it was according to all the related rules (which was confirmed).



Picture 6 - Hélia Pereira, Areanatejo

The final presentation was held by a teacher of the region in the fields of biofuels, Luiz Rodrigues. His presentation showed the investigation in this area that the polytechnic has been developing and how the training in this areas are important for the region.



Picture 7 – Luiz Rodrigues, Polytechnics' of Portalegre

After all presentations were held a space for debate was opened.



Picture 8 – Audience of the event

The debate was important to understand the perspectives of Abrantes and the region regarding the Urbanbiogas project and its objectives. In the debate the region's planning for the next years was discussed along with Valnor.

The closing of the event was made by the councillor Manuel Jorge Valamatos, which is responsible for the transports' sector in the municipality of Abrantes. The councillor Manuel Jorge Valamatos highlighted the importance of the project to the municipality and how it has contributed to integrate new and innovative ideas in the municipal planning.



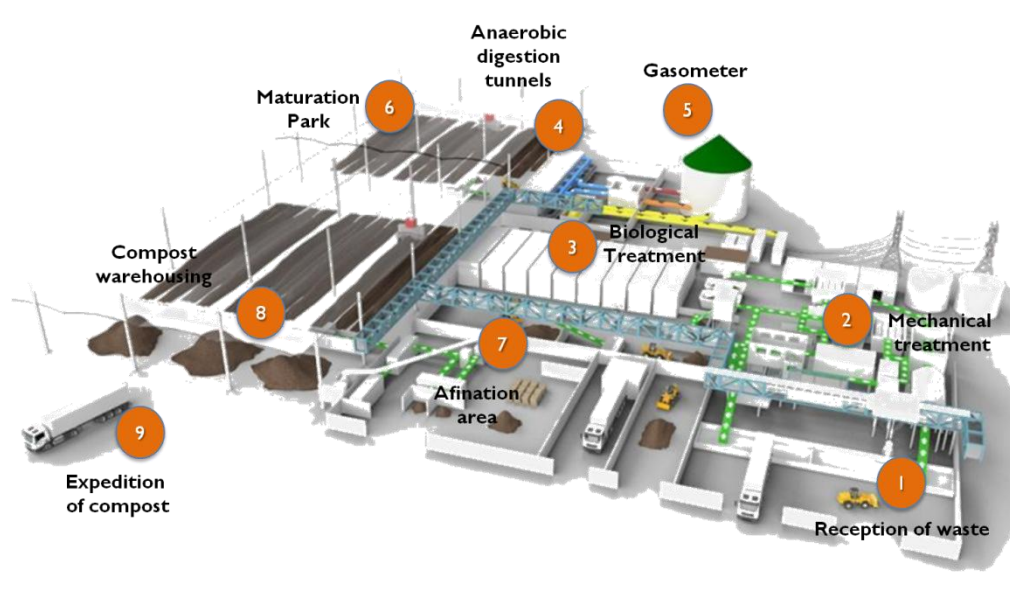
Picture 9 – Abrantes's Councillor Manuel Jorge Valamatos

After the closing of the event it was time for Zagreb city holding to sign a partnership certificate with Areanatejo. Areanatejo is an energy agency that covers 16 municipalities and has as main objective to work towards energy efficiency related objectives in the covered region.



**Picture 10 – City partnership certificate signature
between Areanatejo and ZCH – Zagreb City holding**

In the afternoon, a visit to Valnor's installation was made. Below there is the structure of the visited Valnor's installation.



Picture 11 – Valnor's installations

Cláudia Simões explained the processes that were occurring in the installations, during the visit.



Picture 12 - Cláudia Simões, Valnor

The visit started in the waste separation and treatment process.

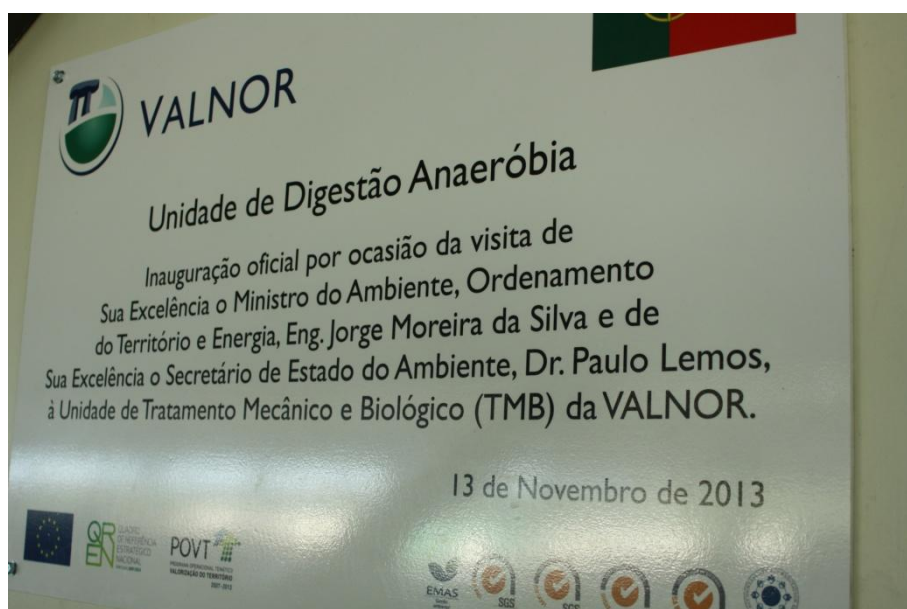


Picture 13 – Visit to Valnor



Picture 14 – Visit to Valnor

The unit of anaerobic digestion of Valnor was inaugurated in November 2013



Picture 15 – Inauguration of anaerobic digestion unit



Picture 16 – Visit to Valnor – compost



Picture 17 - Visit to Valnor – unit of biogas



Picture 18 - Visit to Valnor – unit of biogas



Picture 19 - Visit to Valnor



Picture 20- Visit to Valnor

The visit ended with an explanation on the biodiesel produced and used in Valnor's fleet.



Picture 21 - Visit to Valnor – biodiesel production



Picture 22 - Visit to Valnor – biodiesel



Picture 23 - Visit to Valnor – biodiesel



Picture 24 - Visit to Valnor

Valnor also reuses the used cooking oils to make soaps.



Picture 25 - Visit to Valnor - soaps



Picture 26 – Visit to Valnor

The event was considered a success by all participants allowing to know how the waste is treated, processed and reused in Abrantes' region.

Also, some opportunities were highlighted in the event namely concerning the future investments from Valnor in the installed capacity.

The visit was also important to see how Urbanbiogas purposes are reflected in the region.

Participants

This event counted on 18 participants.

A signed list is shown below.

19 de Fevereiro 2014

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Picture 27 - Presences

Conclusion

The event held in Avis was important to understand the work developed so far in the region and also to disseminate the Urbanbiogas's objectives and the outcomes not only in Portugal but also in Croatia.

It was also allowed to the companies that attended the event to acknowledge the future investments in which they can participate in the region.

It was also important as it resulted in a certificate signature between a Portuguese energy agency and the Zagreb City Holding.