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D4.2 Report on the Webinars

BIOGAS³

**Sustainable small-scale biogas production from agro-food waste
for energy self-sufficiency**

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With the collaboration of all project partners

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1. Introduction

Training and dissemination events as well as online courses offer attractive possibilities to share knowledge, spread information and discuss topics with the general public and specific target groups. The variety of training activities is multifaceted and is generally chosen according to the respective topic, the intensity of the courses and the learning goals.

For BIOGAS3 a series of seminars, workshops, visit tours as well as face-to-face trainings, online trainings and live-webinars was chosen in order to facilitate and promote the building up of skills, raising awareness and create networking opportunities in the field of sustainable small-scale biogas production from agro-food waste for energy self-sufficiency.

In order to set a focus especially on the agro-food industry and their stakeholders, trainings were designed to present the project BIOGAS3 and the elaborated results, offer consultancy to the target group regarding possibilities for biogas projects and give further information on the technical, economic and environmental aspects of the implementation and realisation of small-scale biogas plants in agro-food companies.

To improve the status of biogas production in agro-food industries and to further promote the topic in the partner countries, the project partners aimed to inform and involve as many people as possible during the project period.

Until February 2016, several webinars were conducted in all partner languages of the project and not only received a high resonance with numerous participants but furthermore a mainly positive feedback from the participants that attended the courses.

This report will provide the reader with gathered information and reporting on the live Webinars organised and conducted within the project period.

2. Live Webinars

Live Webinars are online sessions that include 40 minutes presentation and 20 minutes discussion and are accessible online. Hence, Webinars offer the possibility to introduce and present topics, raise questions and discussions and exchange experiences independent from a participant's location.

Webinars are presented via RENAC's e-learning platform, a medium that proved to be intuitive in access for participants and therefore it is easily possible to realize a series of presentations in all of the partner countries. In terms of communicating with the target group, Webinars are excellent ways to present the project BIOGAS3 and to introduce small-scale biogas applications for the agro-food industry. In the following figure 1, the outline of the Webinar platform is shown. On the upper right hand side, all participants attending the Webinar are listed, below is the chat function where questions can be raised, answered and discussions and exchange between participants take place. The middle of the screen shows the power point presentation slides held by the respective presenter in respective language.

Figure 1: Appearance of RENAC's Webinar platform.

During the project period it was foreseen to conduct at least 11 webinars (2x in English, 2x in German, 2x in French, 2x in Spanish, 1x in Italian, 1x in Polish and 1x in Swedish) with a required number of 170 participants in total.

Until the end of the project (29th February 2016) 14 Webinars had successfully taken place with altogether 389 participants. In the first Webinar round (November 2014 – March 2015), the project BIOGAS3 was introduced to the target group and the public (Table 1); the second round

of Webinars presented an update of activities and project results of BIOGAS3 and also served as introductory Webinars, to present and explain the functionality of the BIOGAS3 Online Training (Table 2).

Table 1: Schedule of first round of Webinars

1st round of Webinars (Nov 2014 – Mar 2015)		
Language	Date	Time
Polish	04.11.2014	11:00 AM
English	12.11.2014	11:00 AM
German	18.11.2014	11:00 AM
French	09.12.2014	10:00 AM
Swedish	20.01.2015	13:00 PM
German II	03.03.2015	11:00 AM
Spanish	03.03.2015	12:00 AM
Italian I	11.03.2015	06:00 PM
Italian II	18.03.2015	11:00 AM

Table 2: Schedule of second round of Webinars

2nd round of Webinars (Sep 2015 – Nov 2015)		
Language	Date	Time
German	15.09.2015	11:00 AM
English	17.09.2015	11:00 AM
Polish	29.09.2015	11:00 AM
Spanish	30.09.2015	11:00 AM
French	05.11.2015	10:00 AM

The following chapters deal with the Webinars of each country separately by indicating the number of participants, the backgrounds of the audience, the most important discussions and focusses of the Webinars.

3. 1st Round of Respective Webinars

The first live Webinars were conducted from November 2014 and took place in all different partner languages until the end of March 2015.

All live Webinars were recorded and can be reviewed. Within the phase of conducting the Webinars, RENAC moved its e-learning platform to another provider. The first Polish, English, German, French and Swedish Webinars were conducted on the former platform. To receive access to view these first recorded Webinars please contact Katharina Hartmann (RENAC), hartmann@renac.de. All following Webinars (from 1st and 2nd round) were carried out on the new platform and links to respective Webinars can be found in the respective chapters.

To follow-up after each Webinar, participants were provided with the presentations in PDF format, a link to review the webinar and some feedback questions via E-mail. The responses are part of the description in the following sub-chapters.

3.1. Polish Webinar

On the 4th November 2014 from 11 – 12:00 AM, the series of live Webinars started with the Polish Webinar, held by FUNDEKO.

The Webinar was attended by 39 participants from various backgrounds: agro-food companies, agricultural counselling centres, research institutes, universities, public administration (Ministry of Economy - Renewable Energy Department; Ministry of Agriculture and Rural Development), a biomass association and media.

Malgorzata Kachniarz (FUNDEKO) held the presentation. After she introduced and presented the contents and objectives of the project BIOGAS3, she spoke about the current market for biogas production in Poland and about potential substrates from agro-food industry and agriculture suitable for biogas production. This was followed by an explanation on the biology and functionality of a biogas plant. At the end she presented five best practise examples: two from Poland and three from other European countries and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the smallBiogas tool).

During the webinar several questions were raised via the chat function, which were answered by Malgorzata Kachniarz. At the end of the presentation topics were discussed concerning the following aspects:

- Economic aspects of biogas plants in agro-food industry and agriculture. Questions were raised concerning the investment costs of small-scale biogas plants.
- Discussion about the difficult legislative situation of renewable energies in Poland due to lack of appropriate law.
- Best practice examples were discussed.

Polish participants were furthermore interested to receive more information of BIOGAS3, especially the Handbook of small-scale providers.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Some participants noted some technical difficulties in accessing the webinar or had connective problems. After the first five BIOGAS3 Webinars, RENAC moved to an improved e-learning platform minimizing potential errors and providing optimized accessibility and connectivity.

3.2. English Webinar

The English Webinar was held by Noel Gavigan (IrBEA) on the 12th November 2014 from 11 – 12 AM and conducted by the BIOGAS3 partner IrBEA with a focus on Ireland. Through this Webinar an English speaking audience of 44 people was addressed.

Participants came from various backgrounds; among others: farmers, agro-food companies, biogas associations, biogas plant providers, biogas plant owners, research institutes, and consultants in the fields.

Due to RENAC's broad international network of stakeholders in the branches of renewable energy and environment, information about the English webinars were also disseminated to RENAC's mailing list. Therefore, the English webinar was joined by international stakeholders interested in small-scale biogas production in agro-food industries not only from Ireland but Russia, Mozambique, Tanzania, Angola, South Africa and Kenya.

Noel Gavigan (IrBEA) held the presentation. At first he gave examples of different types of biogas plants applicable for agro-food industries. He furthermore spoke about potential substrates from agro-food industry and agriculture suitable for biogas production and explained the functionality and technology of biogas plants. Four best practise examples were given, after which he introduced and presented the contents and objectives of the project BIOGAS3 and presented the smallBiogas tool.

During the webinar several questions were raised via the chat and answered by Noel after the Webinar. At the end of the presentation topics were discussed concerning the following aspects:

- Capital cost of plants
- Economic uses of biogas, particularly heat and electricity generation
- Usable feedstocks
- Example plants
- Future Events

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participants responses to their overall impression of the BIOGAS3 Webinar:

- *"very concise and well delivered"*

- *"I thought it was a useful effective webinar, I learned a lot and there were plenty of interesting questions"*

3.3. German Webinar

Within the first round, two Webinars were conducted in German language, presented by Volker Jaensch (RENAC). The first German Webinar was held on the 18th of November 2014 from 11 – 12:00 AM and the second on the 3rd March 2015 from 11 – 12:00 AM. Through these webinars a German speaking audience of altogether 30 people was reached.

Participants came from various backgrounds; among others: farmers, agro-food companies, biogas associations, biogas plant providers, biogas plant owners, agro-food component providers, agro-food and agricultural associations, research institutes, political stakeholder and consultants in the fields.

Both Webinars were held by Volker Jaensch (RENAC). After he introduced and presented the background, contents and objectives of the project BIOGAS3, he spoke about the current market for biogas production in Germany and about potential substrates from agro-food industry and agriculture suitable for biogas production. This was followed by an explanation on the biology and functionality of a biogas plant. At the end he presented three best practise examples and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the tool smallBiogas).

During the webinar several questions were raised via the chat function and answered by Volker Jaensch. At the end of the presentation topics were discussed concerning the following aspects:

- The potential of organic wastes and residues for biogas production (e.g. fatty substrates).
- Security aspects of biogas plants and regulations when digesting residues of the food and beverage industry.
- Potential and suitability of liquefaction of biogas (as natural gas).
- Management of cooling demand of agro-food companies through biogas plants.

German participants were furthermore interested to receive more information of BIOGAS3, especially the Handbook of small-scale providers and certain case studies including information on realization possibilities.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"It was very informative. Please send me the presentation!"*

The second German Webinar can be reviewed under the following [LINK](#).

3.4. French Webinar



The French Webinar was held by Alexandre Rugani (IFIP) on the 9th December 2014 from 10 – 11 AM. Through this Webinar a French speaking audience of 40 people was addressed.

Participants came from various backgrounds; among others: agro-food companies, biogas associations, biogas plant providers, agro-food and agricultural associations, research institutes, political stakeholder, consultants in the fields, training institutes and schools.

The Webinar was held by Alexandre Rugani (IFIP). After he introduced and presented the background, contents and objectives of the project BIOGAS3, he spoke about the current market developments for biogas production in France and about potential substrates from agro-food industry and agriculture suitable for biogas production. This was followed by an explanation on the biology and functionality of a biogas plant. At the end he presented three best practise examples from France and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the tool smallBiogas).

During the webinar several questions were raised in the chat, which were answered by Alexandre Rugani. At the end of the presentation topics were discussed concerning the following aspects:

- Digestate valorization
- Biogas suppliers in France
- Possibilities for digesting solid waste
- Nitrogen before and after the biogas process
- How to calculate methane potential
- Biological constraints (poisons...)
- Thermal and electrical yields
- Input and output of digestate
- Controllability of solid digestion in comparison to liquid digestion
- Availability of research studies about the biogas process
- Time requirements for project planning and building of the biogas unit
- Regulations concerning biogas units

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"Very interactive"*
- *"Online webinar very useful (no movement) but 1 hour was maybe too short"*

3.5. Swedish Webinar



The Swedish Webinar was held by Henrik Olsson (JTI) on the 20th January 2015 from 10 – 11 AM. Through this Webinar a Swedish speaking audience of 17 people was addressed.

Participants came from various backgrounds; among others: farmers, agro-food companies, biogas plant providers, agro-food, agricultural and energy associations, research institutes, political stakeholder and consultants in the fields.

The Webinar was held by Henrik Olsson (JTI). After he introduced and presented the background, contents and objectives of the project BIOGAS3, he spoke about the current market for biogas production in Sweden and about potential substrates from agro-food industry and agriculture suitable for biogas production. This was followed by an explanation on the biology and functionality of a biogas plant. At the end he presented four best practise examples (three of them from Sweden) and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the tool smallBiogas).

During the webinar several questions were raised in the chat, which were answered by Henrik Olsson. At the end of the presentation topics were discussed concerning the following aspects:

- Upgrading of biogas to vehicle fuel
- Profitability in small scale biogas production in Sweden
- Best substrates for biogas production

Swedish participants were furthermore interested to receive more information of BIOGAS3 and upcoming activities. Three of the participants were also interested in implementing a biogas plant to their own case when economic issues can be solved.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participants responses to their overall impression of the BIOGAS3 Webinar:

- *"The overall impression is that it was good. The sound quality was not so good, it disappeared sometimes."*
- *"The overall impression was that it was working fine. The method as such for disseminating information's otherwise perfect as I see it."*
- *"This was a basic course. We need more."*

3.6. Spanish Webinar

The Spanish Webinar was held by Paz Gomez (AINIA) on the 3rd March 2015 from 12 – 1 PM. Through this Webinar a Spanish speaking audience of 66 people was addressed.

Participants came from various backgrounds; among others: agro-food companies, biomass association, biogas plant providers, biogas plant owners, agro-food and agricultural associations, research institutes and consultants in the fields.

Due to RENAC´ s broad international network of stakeholders in the branches of renewable energy and environment in Latin America, information about the Spanish webinars was also

disseminated to RENAC's mailing list. Therefore, the Spanish webinar was joined by international stakeholders interested in small-scale biogas production in agro-food industries not only from Spain but Mexico, Colombia, Argentina and Peru.

The Webinar was held by Paz Gomez (AINIA). After she introduced and presented the background, contents and objectives of the project BIOGAS3, she spoke about the current market for biogas production in Spain and about potential substrates from agro-food industry and agriculture suitable for biogas production. This was followed by an explanation on the biology and functionality of a biogas plant. At the end she presented three best practise examples (two from Spain) and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the tool smallBiogas).

During the webinar several questions were raised in the chat, which were answered by Paz Gomez. At the end of the presentation topics were discussed concerning the following aspects:

- Economic viability of small-scale biogas plants in Spain
- Possibilities for monodigestion of one specific substrate
- Sizing of plants and dependency of HRT of substrates
- Technical requirements for biogas plants
- Background questions to biological and chemical processes of biogas production
- Example plants

Spanish participants were furthermore interested to receive more information of BIOGAS3 and upcoming activities.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"A good way to land on anaerobic digestion and Biogas3 project"*
- *"It was quite interesting, mainly because it was focused on small-scale installations [...]. From my point of view, there are some installations that could be energy self-sufficient".*
- *"My overall impression was admiration for the work they are doing, adapted to the needs and situation of agro-food sector, so I see a great potential".*
- *"I found interesting, above all the project approach, because I think it's a niche market that has not been given enough importance. The idea of waste/self-consumption, I think it is easy to explain to the companies, but it costs a little that they understand it. On the other hand, it is also interesting the compilation of information and the developed software".*
- *"I found very useful the webinar, for convenience and time saving. Regarding the content, It seemed to me an overview of the project".*

- *"To be the first time we used this tool; I found very effective, because we avoid travelling and save time. I would like to highlight that participation when asking questions was high. In classroom sessions usually is much smaller".*
- *"Interesting".*
- *"In general terms, I found interesting the webinar although the sound was poor".*
- *"As a first approach to the project, I found interesting the webinar".*

The Spanish Webinar can be reviewed under the following [LINK](#).

3.7. Italian Webinar

Within the first round, two Webinars were conducted in Italian language, held by Remigio Berruto (DISAFA) as main speaker, supported by Marianna Faraldi (Tecnoalimenti). The first Italian Webinar was held on the 11th of March from 6 – 7:00 PM and the second on the 18th of March 2015 from 11 – 12:00 PM. Through these webinars an Italian speaking audience of altogether 32 people was reached. Two sessions were offered to improve the possibility for companies to attend the webinar according to their engagements.

Participants came from various backgrounds; among others: farmers, agro-food companies, research institutes, consultants in the fields, food authorities (Government, Regions).

Both Webinars were held by Remigio Berruto (DISAFA) as main speaker, supported by Marianna Faraldi (Tecnoalimenti). After he introduced and presented the background, contents and objectives of the project BIOGAS3, he spoke about the biology and technology of biogas production in agro-food industries and the utilisation possibilities of biogas. This was followed by the current market for biogas production in Italy and about potential substrates from agro-food industry and agriculture suitable for biogas production. At the end he presented in detail the functionality of the economic tool smallBiogas and gave an overview on upcoming activities and offers of BIOGAS3 (e.g. the tool smallBiogas).

During the webinar some questions were raised and at the end of the presentation topics were discussed concerning the following aspects:

- Transportation, management and efficiency of utilization and transportation of digestate
- Implementation and sizing of biogas plants and their respective outcomes
- Consequences of the recent incentive 's reduction legislative level
- Usable feedstocks
- Example plants
- Future Events

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"Interesting initiative. Very good impression."*
- *"Very interesting initiative and fundamental to grow, in users, awareness of what anaerobic digestion is and what is the real potential, independently from incentives or similar policies. The webinar was full of ideas and interesting information."*
- *"Good"*
- *"Well organised and informative."*
- *"Interesting"*

The Italian Webinars can be reviewed under the following LINKs: [11.03.2015](#) and [18.03.2015](#).

4. 2nd Round of Respective Webinars

The second round of Webinars took place from September 2015 till November 2015. These Webinars aimed at spreading the topic of biogas production in the agro-food industry again to a wider target group and to give an update of the activities and project results of BIOGAS3. Additionally, these webinars served as introductory Webinars of the Online Training, since the content of the Online Trainings was presented and the functionality of the e-learning platform explained.

4.1. German Webinar

The third German Webinar was held by Volker Jaensch (RENAC) and Katharina Hartmann (RENAC) on the 15th September 2015 from 11 – 12 AM. Through this Webinar a German speaking audience of 15 people was addressed.

Participants came from various backgrounds; among others: farmers, agro-food companies (e.g. meat production), biogas plant providers, agricultural and energy associations, research institutes, political stakeholder, consultants in the fields and PR.

The Webinar was held by Volker Jaensch (RENAC), who introduced and presented the background, contents and objectives of the project BIOGAS3 and spoke about the current market for biogas production in Germany and about potential substrates from agro-food industry and agriculture suitable for biogas production. Katharina Hartmann (RENAC) then presented the BIOGAS3 Online Training and explained its functionality. At the end she gave some best practise examples and presented the latest project results and current activities of BIOGAS3.

During the webinar several questions were raised and at the end of the presentation topics were discussed concerning the following aspects:

- Analysing the market for communal organic wastes in Germany
- Further questions concerning the functionality/ languages of the Online Training

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

The third German Webinar can be reviewed under the following [LINK](#).

4.2. English Webinar

The second English Webinar was held by Katharina Hartmann (RENAC) and assisted by Noel Gavigan (IrBea) in the chat on the 17th September 2015 from 11 – 12 AM. Through this Webinar an English speaking audience of 39 people was addressed.

Participants came from various backgrounds; among others: engineering, environmental consulting, energy consulting companies, biogas plant or component providers, biogas operators, agro-food companies (e.g. cheese production), research institutes.

Due to RENAC's broad international network of stakeholders in the branches of renewable energy and environment, information about the English webinars were also disseminated to RENAC's mailing list. Therefore, the English webinar was joined by international stakeholders interested in small-scale biogas production in agro-food industries from not only Ireland but Northern Ireland, UK, Serbia, Montenegro, Egypt, Ghana and South Africa.

The Webinar was held by Katharina Hartmann (RENAC), who introduced and presented the background, contents and results of the project BIOGAS3 and spoke about potential substrates from agro-food industry and agriculture suitable for biogas production. She then presented the BIOGAS3 Online Training and explained its functionality. At the end she gave some best practise examples and presented the latest project results and current activities of BIOGAS3. During the presentation Noel Gavigan answered participant's questions in the chat.

During the webinar several questions were raised in the chat, which were answered by Katharina Hartmann. At the end of the presentation topics were discussed concerning the following aspects:

- Questions regarding the best practise examples
- Economic tool smallBiogas
- Further questions concerning the functionality/ exam of the Online Training

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"Excellent. Thank you. Great presentation."*
- *"Thanks. Looks very interesting."*

The second English Webinar can be reviewed under the following [LINK](#).

4.3. Polish Webinar

The second Polish Webinar was held by Malgorzata Kachniarz (FUNDEKO) on the 29th September 2015 from 11 – 12 AM. Through this Webinar a Polish speaking audience of 35 people was addressed.

Participants came from various backgrounds; among others: farmers, agro-food companies, biogas plant providers, energy providers, research institutes, a political stakeholder and consultants in the fields of biogas, agriculture and energy.

The Webinar was held by Malgorzata Kachniarz (FUNDEKO), who introduced and presented the background, contents and results of the project BIOGAS3 and spoke about the benefits of small biogas plants in agri-food sector, potential substrates from agro-food industry and agriculture suitable for biogas production, energy self-sufficiency, financial aspects of the investments in small biogas plants, examples of small biogas plants, as well as market development in Poland and in the EU. At the end Ms Kachniarz presented the BIOGAS3 Online Training and explained its functionality.

During the webinar and at the end of it, several questions were raised and the following topics aspects were discussed:

- costs of energy production in a small biogas plant in relation to the market prices of energy;
- environmental benefits of small biogas plants (CO₂ reduction);
- possibility of covering the total energy demand of a farm/agri-food company by a small biogas plant;
- economic viability of small biogas plants in Poland.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participant's responses to their overall impression of the BIOGAS3 Webinar:

- *"Thank you, it was very interesting. Will there be a possibility to watch the webinar recording again?"*
- *"Great! Where will you be holding face-to-face training? We would like to know more about the existing small biogas plants in Poland".*

The second Polish Webinar can be reviewed under the following [LINK](#).

4.4. Spanish Webinar

The second Spanish Webinar was held by Paz Gómez (AINIA) on the 30th September 2015 from 11 – 12 AM. Through this Webinar a Spanish speaking audience of 20 people was addressed.

Participants came from various backgrounds; among others: waste management companies, biogas plant providers, biogas association, research institutes, and consultants in the fields.

Due to RENAC's broad international network of stakeholders in the branches of renewable energy and environment, information about the Spanish webinars were also disseminated to RENAC's mailing list. Therefore, the English webinar was joined by international stakeholders interested in small-scale biogas production in agro-food industries from not only Spain but Mexico, Chile, Argentina and Peru.

The Webinar was held by Paz Gómez (AINIA), who introduced and presented the background, contents, objectives and materials/tools of the project BIOGAS3. After that she spoke about potential substrates from agro-food industry and agriculture suitable for biogas production, main aspects related to implementation of a biogas plant for self-consumption, examples of small-scale biogas plants in Spain and main features of small-scale plants in Spain. She then presented the BIOGAS3 Online Training and explained its functionality. At the end she gave some best practise examples and presented the latest project results and current activities of BIOGAS3.

During the webinar several questions were raised in the chat, which were answered by Paz Gomez. At the end of the presentation topics were discussed concerning the following aspects:

- Implementation possibilities of small-scale biogas production in agro-food industries (practical implementation: how to contact with spanish biogas plant providers)
- Further questions concerning best practice examples (which plants of existing spanish have incentives related to CO2 emissions reduction thanks to renewable energy production)

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

Participants' responses to their overall impression of the BIOGAS3 Webinar:

- *"Very interesting. Thank you."*

The second Spanish Webinar can be reviewed under the following [LINK](#).

4.5. French Webinar

The second French Webinar was held by Pascal Levasseur (IFIP) on the 5th November 2015 from 10 – 11 AM. Through this Webinar a French speaking audience of 12 people was addressed.

Participants came from various backgrounds; among others: farmers, agro-food companies, biogas plant providers, agro-food, agricultural and energy associations, research institutes, political stakeholder and consultants in the fields.

The Webinar was held by Pascal Levasseur (IFIP), who introduced and presented the background, contents and objectives of the project BIOGAS3 and spoke about the current market for biogas production in France and about potential substrates from agro-food industry and agriculture suitable for biogas production. He then presented the BIOGAS3 Online Training and explained its functionality. At the end she gave some best practise examples and presented the latest project results and current activities of BIOGAS3.

The feedback to the webinar was overall positive and participants appreciated the contents of the presentation and the possibility to ask questions, exchange experiences and network with other participants.

The second French Webinar can be reviewed under the following [LINK](#).

5. Conclusion

Throughout the BIOGAS3 project from March 2014 – February 2016, 14 live Webinars in seven languages were conducted, nine in the first round and five in the second round. The Webinars aimed at disseminating and spreading contents of BIOGAS3 and to discuss project results with the target group.

The webinars were transmitted in all of the partner countries and offered even beyond European borders. However, most participants came from the partner countries of the BIOGAS3 project: France, Germany, Ireland, Italy, Poland, Spain and Sweden. Participants had furthermore various professional backgrounds, including mainly agro-food companies, farmers, biogas associations, biogas plant providers, biogas plant owners, agro-food and agricultural associations, research institutes, political stakeholder and consultants in the fields. The variety of the audience enabled a dynamic and productive atmosphere during the webinars and facilitated the exchange of experiences among the participants and lecturers.

The webinars featured interesting discussions and lively interactions between the different participants. An evaluation of the webinars resulted in predominantly positive feedback from the altogether 389 participants, and the conclusion that the events were interesting for lecturers and participants alike. This demonstrates the strong demand for capacity building for biogas in the agro-food industry and therefore the entire BIOGAS3 project.