BIOGAS production from organic waste in the European Food And Beverage industry

FABBIOGAS

The FABbiogas project aspires to change the mindsets of all stakeholders in the waste-to-energy chain by promoting residues from Food and Beverage (FaB) industry as a new and renewable energy source for biogas production. Project outputs will support the diversification of energy sources within FaB companies, leading to widespread valorization and efficient integration of FaB residues into energy systems and boosting the realization of a growing number of biogas projects in Austria, Czech Republic, France, Germany, Italy and Poland. To reach these goals, the FABbiogas partners will:

* establish a solid information base on FaB waste utilization for biogas production proving energy efficiency of industrial biogas integration
* organize awareness raising events for FaB waste-based biogas production addressing all relevant target groups of FaB waste suppliers, users and policy stakeholders in order to increase the visibility of existing best practice and future potentials
* set up national contact points in FaB associations in all partner countries to establish decentralized knowledge hubs
* identify potentials for using FaB waste in existing biogas plants and conduct preliminary feasibility studies to prepare the ground for future biogas projects using FaB waste
* compile a complete set of tools and guidelines for dissemination of project results to industry stakeholders and policy makers, facilitating cooperation between FaB industry, biogas sector and lawmakers all over Europe.

Results

- Awareness raising events (national/international seminars, national info-days + study tours, national work shops) targeting all involved stakeholders along the waste-to-energy chain will illustrate the high energy potential of FaB waste resulting in increased renewable energy production of 35,000 toe/a and hence, 183,000 tCO2e/a saved
- Maps depicting existing waste biogas plants and FaB waste streams; including 12-18 best practice examples and recommendations how to overcome barriers leading to an expected impact of comprehensive waste stream mobilization from FaB branches. In 30% of the reached target group 75% of waste will be treated in existing/newly constructed biogas plants
- Preliminary feasibility studies (12-18 conducted) will prepare the ground for future projects on implementing the use of FaB waste for sustainable bio-energy production. Based on previous estimations 7.5 million € of investment will be triggered
- The establishment of national Advisory Services on using FaB waste for biogas production will implement extensive biogas expertise in FaB associations becoming sustainable contact points for industry requests. These associations advise industrial stakeholders on funding and financing programmes for integrating the renewable bio-energy resource FaB waste. In partner countries 120 detailed advisory services will be conducted leading to 18 new FaB waste treatment initiatives
- Information compendium (handbook, DVD, IT-tool) for a future standard on efficient use of FaB
waste as renewable bio-energy resource. FABbiogas results comprise the set of tools and guidelines needed for creating a European reference standard on industrial FaB waste usage for bio-energy generation. Thus, the FABbiogas project significantly supports the preparation and application of legislative measures.

Lesson learned

- In some countries is not possible to obtain adequate data on existing biogas plants and waste streams from FaB industry. To solve this problem, there is a need to interview selected biogas plant operators or FaB companies to get rough estimations.
- Companies do not want to publish data on their best practice projects: in some cases companies preliminarily expressed their agreement to be displayed in the factsheets, and then they became reluctant to reply and to publish kind of information. Partners are looking for alternative/other projects and alternatively for anaerobic wastewater treatment projects in FaB industry to show as best cases.

Partners and coordinator

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<td>Politechnika Lodzka</td>
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<td>ATRES engineering biogas</td>
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Budget

Overall budget: 1.105.045,00 € (EU contribution: 75,00 %)

In brief

Sector: Biobusiness

Duration: 01/04/2013 to 30/09/2015

Contract number: IEE/12/768

Website: http://www.fabbiogas.eu/en/home/fabbiogas/

Tags:
- bioenergy
- biogas
- food and drink
- waste

Media coverage

- Déchets agroalimentaires : plein gaz sur le projet FABbiogas [10]
  Dechetcom - 03/09/2013
  GreenUnivers - 24/05/2013
- Produire du biogaz à partir des déchets de l’industrie agroalimentaire et de la boisson : nouvel objectif de la Stratégie Europe 2020 [12]
  Bulletins Electroniques - 23/05/2013

Related projects

- [CROSSBORDERBIOENERGY [13]] Cross-border markets for the European bioenergy industry
- [MAKE-IT-BE [14]] Decision Making and Implementation Tools for Delivery of Local &...
- [BIOENERGIS [15]] GIS-based decision support system aimed at a sustainable energetic...
- [BIOENERGY FARM [16]] Implementation plan for BioEnergy Farm
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