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Germany



## **BiFFiO: Renewable Energies from mixed waste from aquaculture and agriculture.**

Langenbach-Niederhummel, 16th December 2013: Awite is part of the BiFFiO consortium to support the developments in the area of renewable energies for handling mixed waste from aquaculture and agriculture.

BiFFiO is a research project funded by the EU that aims to develop technology to utilize animal manure and fish faeces for the production of renewable energy and nutrient recovery.

A key objective is to shrink the current state-of-the-art technologies to farm-scale to provide economical, efficient and scalable systems for special applications.

For more information please refer to the included BiFFiO press releases.

We will be pleased to provide you with more information on the BiFFiO project. Please come and visit us at the BIOGAS 2014 in Nürnberg (hall 9, stand 419). Alternatively you can make an appointment at one of the next upcoming events.

The whole Awite team wishes you a happy and peaceful Christmas time and a successful and prosperous New Year 2014.

### **Contact:**

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### **Upcoming events:**

09. - 10.01.2014 Biogas Infotage 2014, Buchloe  
14. - 16.01.2014 BIOGAS 2014, Nuremberg  
04.02.2014 Operator Training, Langenbach  
06. - 09.02.2014 FIERAGRICOLA, Verona, Italy  
05. - 09.05.2014 IFAT 2014, Munich



# **It's time for you to take control.**

**A new three year research project will see aquaculture, agriculture and biogas sectors working together to develop renewable energy.**

**The project team known as “BiFFiO” will look at new ways to increase industry sustainability by managing by-products more effectively.**

**BiFFiO will investigate how waste can be used to create renewable energy, and examine what nutrients can be recovered for other uses.**

A key objective is to shrink the current state-of-the-art technologies to farm-scale so that efficient and economical biogas energy can be produced locally on or near a farm site.

Over the next three years, the project team plan to address the challenges faced by industry by looking at new ways to meet regulatory requirements, and to develop best practice for by-products.

ENDS/

NOTES TO EDITOR

BiFFiO is partnership between SME Associations, industrial enterprises and RTD performers.

The BiFFiO consortium consists of the following beneficiaries:

- ❖ Teknologisk Institutt AS, Norway (Coordinator and RTD Performer)
- ❖ Landberatung Niedersachsen GMBH, Germany (SME Association/Grouping)
- ❖ Norsk Bioenergiforening, Norway (SME Association/Grouping)
- ❖ Scottish Salmon Producers' Organisation Limited, UK (SME Association/Grouping)
- ❖ British Trout Association Ltd, UK (SME Association/Grouping)
- ❖ European Biomass Association, Belgium (SME Association/Grouping)
- ❖ Awite Bioenergie GMBH, Germany (Other enterprises)
- ❖ aqua & waste International GMBH, Germany (Other enterprises)
- ❖ The University of Liverpool, UK (RTD Performer)
- ❖ aqua consult Ingenieur GMBH, Germany (RTD Performer)

The research and results taken forward in the BiFFiO project has received funding from the European Union's Seventh Framework Program, managed by REA Research Executive Agency [http://ec.europa.eu/research/rea\(FP7/2007-2013\)](http://ec.europa.eu/research/rea(FP7/2007-2013)), under grant agreement no 605815.

~~For more information about the project, please contact Lene Beadle at Teknologisk Institutt AS, [lene.beadle@ti.no](mailto:lene.beadle@ti.no) +47 982 90 236.~~

## Facts

- EU has a goal of supplying 20% of the European energy demands from renewable energy systems by the year 2020.
- The Aquaculture industry is growing its use of re-circulation and are facing an increased need for sustainable handling and use of the waste produced
- The livestock sector is a high contributor to greenhouse gas emissions with national and international goals of reducing the emissions by means of anaerobic digestion of waste.

## Aquaculture, agriculture and biogas sectors collaborate to develop technology to utilize animal manure and fish faeces for production of renewable energy and nutrient recovery

**Oslo, Norway. The agriculture and aquaculture sectors are under continuous pressure to improve sustainability and reduce environmental impact. A new project, BiFFiO, addresses these challenges with respect to regulatory and societal demands for dealing with the waste produced.**

Over the next three years the BiFFiO consortium will develop an economical and efficient system for handling mixed waste from aquaculture and agriculture. The system will comprise the following stages: waste pre-treatment, biogas reactor, and fertilizer recuperation. One key strategy of the consortium will be to take current state-of-the-art technologies that are used in large scale waste treatment and utilize them in a smaller, yet scalable, system, which can be located at, or close to, near-shore and on-shore fish farm operations or agriculture farms. The project will also make recommendations as to how the energy produced could best be used.

BiFFiO is a cooperation between SME Associations, industrial enterprises and RTD performers. It has received funding from the European Union's Seventh Framework Program, managed by the Research Executive Agency (REA) [http://ec.europa.eu/research/rea\(FP7/2007-2013\)](http://ec.europa.eu/research/rea(FP7/2007-2013)), under grant agreement no 605815.

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