



**BGI Ltd**  
Bio Global Industries

# JANUARY NEWSLETTER

Bio Global Industries Ltd — Monthly Newsletter

January 2017

## Mega Watt Boilers for 2017

We are very pleased to announce a new partnership to enhance our existing boiler range, that now enables us to provide fully automatic biomass boilers ranging from 200kW up to 20MW—all fired by a variety of biomass and waste with different size and humidity.

Our new partner, Eurobiomass Polska have more than 20 years of experience within the biomass sector, providing boilers that burn both biomass and waste products.

The boiler range can process fuels with different humidity scopes:

- Dry fuels up to 30% like sawdust, briquette, pellets
- Wet fuels up to 60% like forest wood chips

Different scopes of granulation, including:

- Clean wood, wood chips, shavings, sawdust & pellets
- Demolition wood:

Agro biomass (ballots, pellet, briquette)

- straw
- miscanthus

Furniture waste

Fruit and vegetable waste



We will be launching the new range at our forthcoming

**Mega Watt Installer Training Day on Tuesday 21st February.**

If you would like to secure a place on this course, which is already nearly full, please contact us directly on **01494 757055** or email us at [info@b-g-i.co.uk](mailto:info@b-g-i.co.uk)

*“2017 is set to be an exciting year for BGI, with new partnerships and new technologies on the horizon. We very much look forward to working with you all and hope that you will share in our ongoing success.”*

**- Matthew Hunt,  
Managing Director, BGI Ltd.**

## In This Issue

- New partnership enables mega watt installations
- Waste Wood Off-Cuts as a fuel
- Forthcoming Training Dates
- Update on new RHI Tariffs
- Biokompakt® exceeds emissions limits

The Mega Watt range will be launched at our 21st February Installer Training Day

## Farm Utilizes Waste Wood Off-cuts to Heat Premises

The owners of St Helens Farm is utilising waste wood off-cuts from a local kitchen manufacturer to power his boiler for free. Having installed biomass boilers in the past to power their drying floors, the owners always felt that they were at the mercy of increasing Grade A virgin wood chip prices and wanted to find a solution through waste reduction, sustainable fuels and be free of the supply chain.

Their local manufacturer is on average, creating approximately 750 tonnes of unavoidable wood waste each year in the form of packaging and residual off-cuts. Previously, the majority of this would have gone to landfill, but thanks to the introduction of the new boiler's, it is now being used to generate all the heating and hot water required at the farm for office space and drying floors.



Three cascaded Biokompakt® boilers

## Installer Training Courses

A lot has changed within the industry since we started to undertake training with some of our early installers. Through our extensive research and development of low cost fuels such as **Waste Wood**, **MDF Dust**, and **Non Woody Biomass**, and **Waste To Fuel Conversion**, we can now enable our installation partners to approach a whole new range of industries.

If you would like to become a BGI Partner and join our expanding network of Installers, please contact us directly to register onto one of our forthcoming Installer Training Days.

**Our next Installer Training Days will be held on:**

**Tuesday 14th February      Tuesday 14th March**

**Tuesday 11th April          Tuesday 9th May**

**Booking is essential .... Please contact us directly on 01494 757055 or [info@b-g-i.co.uk](mailto:info@b-g-i.co.uk)**



## RHI Tariffs — Update

In the face of new RHI tariffs coming into force and the general uncertainty that this has created to date, BGI continue to experience ongoing success after a record breaking year in 2016. This is based on our firm belief in waste reduction and sustainability not tariff chasing.

By focussing on our core business of waste reduction and self sustainability, we continue to grow and expand our portfolio of boiler solutions with sales achieved through a model based on commercial profitability based on savings and not tariffs. Biomass projects in the correct industry still makes perfect financial sense and the new tariffs only created a level playing field for all boilers to be correctly sized.

The new tariff guarantees are now providing investors with greater certainty regarding their tariffs, earlier in the project cycle, which is especially useful for: large biomass boilers above 1MW in capacity.

The three current biomass tariff bands will be replaced from the 31<sup>st</sup> March with a single tariff, which will be subject to tiering. The Tier 1 tariff will be set at 2.91p/kWh and the Tier 2 tariff at 2.05p/kWh. As you can see below, new RHI tariffs still make an attractive business case for even a small recycling company or business looking for fuel security and diversification.

We are already taking orders based on the new tariffs and hope that all our partners will share in this success. BGI will continue to grow and prosper with continued research and development into permitting / process and new fuels which allow BGI and its partners to expand into new and existing markets.

<u>Analysis of RHI changes</u>					
<b>EXAMPLE ONE - 260kW running for 7000 hours per year</b>					
<b>Current Tariff until 31<sup>st</sup> march 2017</b>					
		<i>Tier 1 break based upon 1314 hours x kW plant</i>			
Tariffs:-	Tier 1	=	£	0.0524	
	Tier 2	=	£	0.0227	
Plant Size	260				
Hours per week	140				
		<i>(Tier break at 1314 = annual operational hours total @ 50 weeks annual heat hours total @ 50 weeks)</i>			
<b>Payments:-</b>					
Tier 1 usage, total kW/hours =	341640	@/kWhour	£0.0524	=	£17,901.94
Tier 2 usage, total kW/hours =	1478360	@/kWhour	£0.0227	=	£33,558.77
	<b>TOTAL RHI INCOME PER ANNUM</b>				<b>£51,460.71</b>
<b>New Tariff after 31<sup>st</sup> march 2017</b>					
		<i>Tier 1 break based upon 3066 hours x kW plant</i>			
Tariffs:-	Tier 1	=	£	0.0291	
	Tier 2	=	£	0.0205	
Plant Size	260				
Hours per week	140				
		<i>(Tier break at 3066 = annual operational hours total @ 50 weeks annual heat hours total @ 50 weeks)</i>			
<b>Payments:-</b>					
Tier 1 usage, total kW/hours =	797160	@/kWhour	£0.0291	=	£23,197.36
Tier 2 usage, total kW/hours =	1022840	@/kWhour	£0.0205	=	£20,968.22
	<b>TOTAL RHI INCOME PER ANNUM</b>				<b>£44,165.58</b>

## Biokompakt® exceeds emissions limits

National waste management company Dial A Bin are in the process of purchasing a **260kw BGI Waste System** at their site at Blackpitts Barn Farm, Helmdon, to generate heat to dry animal bedding.

This site is next to an area of scientific importance and therefore was subject to additional emissions requirements, enforced by Natural England.

Through Biokompakt's integrated, secondary electrofilter, these were easily achieved and with the assistance of BGI, the site has now been granted full planning permission, allowing the project to proceed. This demonstrates that BGI are fully prepared for any future emissions requirements that come our way and will always support our end users and installation partners in an effort to successfully complete their projects.

**NEW!**

Biomass heating boiler with integrated electro-filter ensures the lowest dust values in its class!

**Dust emissions ECO 80 E:**  
Tested by TÜV according to EN 303-5:2012 related to 13% O<sub>2</sub>  
Full load: 0.0009 g / Nm<sup>3</sup>; Partial load: <0.0002 g / Nm<sup>3</sup>

**BIOKOMPAKT® ECO 50 HG-E - ECO 150 E**  
Biomass boiler with integrated, secondary electrofilter for burning wood chips, pellets and other biogenic fuels.



- Low installation space by integrated electrostatic filter
- No additional space required
- Low maintenance electrostatic filter
- Automatic electro-filter cleaning
- Automatic heat exchanger cleaning
- High efficiency
- Compact design
- TÜV tested

## Contact Us:

Please call us for more information about our range of biomass boilers, fuels and associated products.

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