



GLOMMERS  
MILJÖENERGI AB

## Company Presentation



2012

[www.gmepellets.se](http://www.gmepellets.se)



# GLOMMERS MILJÖENERGI AB

Glommers Miljöenergi AB, GME, was founded in 1996 to create new jobs, based on the refinement of locally produced biofuels.

## GME:s Area of Business

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<b>BIOFUEL TEST STATION</b> Product development in collaboration with Universitites/Colleges  Biofuel Projects  Demonstration site for development of Reed Canary Grass as energy raw material.	<b>PRODUCTION OF PELLETS</b>  Production of wood pellets for distribution. Current max. prod 5-6000 tonnes/year  Production of Reed Canary Grass briquettes.  Retailer Biomasser briquetting equipment	<b>DISTRICT HEATING</b>  Supply of district heating from GME:s installations.  Sales of heating installations

## Current **Bioenergy Projects:**

1. **Reed Canary Grass for small scale heating systems in sparsely populated areas** – a demonstration and development project for RCG cultivation on peat soil, mobile briquetting with screw technique and heating production in bottom fed furnace.. Read more about the projects on: [www.bioenerginord.com](http://www.bioenerginord.com)
2. From 2010 Arvidsjaur's kommun is running **an international knowledge transfer project with Mwanza District in Tanzania**. GME plays an important role as Bioenergy Expert. Read more on [www.bioenerginord.com](http://www.bioenerginord.com)

## GME finished seven **Bioenergy Projects** between 1996-2008:

1. KAB – An **inventory of the biofuel potential** of the local district.
2. **Reed Canary Grass** – Energy grass **cultivation on peat soil land** in collaboration with the Swedish Agricultural University.
3. **Marketing** and information to the public about biofuel pellets.
3. **Inventory of the ash and sludge quantities** of Northern Sweden (for use as a fertilizer)
4. The construction of a **Biofuel Test Station**
5. Inventory and analysis of commercial use of **White Hardwood** (2007)
6. **Lifecycle-based bioenergy in Cold Climate** (2008)



## GME's Objectives:

- To produce high quality pellets and briquettes
- To keep a high service profile towards customers and suppliers
- To be an attractive Biofuel Test Station
- To work according to the established environmental control program.

## GME's Wood Pellets Production Line:



Barn for raw material



Feeding table for input to mill



Hammer mill



Feeding line to factory



Pelleting machine



GME quality pellets comes in two sizes:

**The GME pellet highly exceeds the limits for Class 1 Pellets according to Swedish Standard 187120**

## GME:s Quality Control Includes:

- Control of raw material at the point of delivery: Visual control and moisture content test.
- Visual control of pellets during production
- Control of that the fine fraction is removed from pellets and brought back to production
- The weighing of pellets by m3 (bulkweight)
- Moisture content control of pellets
- Durability control of pellets
- Ash content control of pellets
- Control of handling, loading and storing of pellets.
- All of the above is continually documented throughout the production.



## GME's **Biofuel Test Station:**

- Work at the Biofuel Test Station is performed **in co-operation with researchers and scientists** from universities, colleges and biofuel organisations.
- GME has the competence and equipment to **pellet/briquet different raw materials** and mixtures
- We perform the **measuring** of:
  - Moisture content
  - Ash content
  - Durability
  - Bulk weight
- We offer **visits and information** to schools etc. about biofuels.
- We are a **demonstration site**, developing **Reed Canary Grass** cultivation on peat soil, mobile **briquetting** with a screw/heat technique and heating production in an 60kW biofuel boiler – from sowing to heating supply with the goal of profitability throughout all parts!

### **Our customers:**

- Retailers in wood pellets
- Private customers, cash-and-carry
- Bulk distribution: private and corporate customers
- District heating: wood chips, wood pellets and reed canary grass briquettes
- Buyers of briquetting equipment

### **Our market today:**

- **Biofuel Test Station:** Primarily universities and colleges.
- **District Heating:** Local customers
- **Wood Pellets:** Private and Corporate customers in Sweden and Norway
- **Reed Canary Grass briquettes:** private and corporate customers

## **What can we offer You?**

- **Wood pellets of highest quality** – visit our web page for current prices
- **Reed Canary Grass briquettes for tests**
- **Briquetting tests of different straw material**
- Knowledge transfer about **Lifecycle-based Bioenergy**
- Knowledge transfer about **production of Reed Canary Grass for commercial use**
- **Tests and pelleting of different fuel mixtures**
- **Calculations** for the construction of small scale pellet production factory (2 tonnes per hour) and small scale biofuel based heating plant (up to 1 MW).



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