



Baltic Compact

BALTIC COMPACT INVESTMENTS AND DEMONSTRATIONS IN LATVIA

Subject

Specification of Biomass pre-treatment technology investment for LAU training farm “Vecauce” biogas plant

Background and short description of the planned investment

Latvia Agriculture University Training farm Vecauce (Vecauce) is official partner of the Baltic Sea Region programm project Baltic Compact. The main objective of the Vecauce within project is to implement and demonstrate the investment projects with aim at demonstration of sustainable biogas production from animal manure as win-win measure for agriculture, farm economy and the environment. The specific task is to upgrade the existing biogas plant at Vecauce Farm, Latvia.

For biogas production process economical, technological and environmental efficiency, important aspect is quality and characteristics of the raw material – biomass. This includes size of the particles and structure, since during biogas process feedstock from the biomass should be easily available for microbiological and chemical processes on-going during biogas production. Especially it is important in biogas production, if cattle manure with straw bedding or low quality grass is used for biogas production.

In order to demonstrate and promote biogas production and its’ environmental and economic win-win solution combinations, Vecauce has started biogas plant upgrading project. With current request for technology offers, Vecauce is seeking solution for the pre-treatment of solid biomass, including smashing/chopping/crashing, to reduce size and destroy structure of the solid particles.

In the scope of the project Baltic Compass pre-feasibility study was developed BIOENERGY TRAINING CENTRE DEVELOPMENT IN LATVIAN AGRICULTURE UNIVERSITY TRAINING AND RESEARCH FARM „VECAUCE”, where more detailed information about biogas plant and upgrading proposals is available:

http://balticcompasss.businesscatalyst.com/mission_report_latvia.pdf

Requested technology

Technology and/or technological solution for pre treatment of solid biomass for the bioreactor feeding. Three types of biomass are planned: grass silage (also low qauity), feed residues from the dairy farm and solidmanure with the straw bedding. Biomass should be crashed and/or smashed till the condition, when feedstuffs are maximally available for the biogas production bacteria. The pieces of the biomass after treatment should be shorter than 1 cm. Total planned



Location of the investment

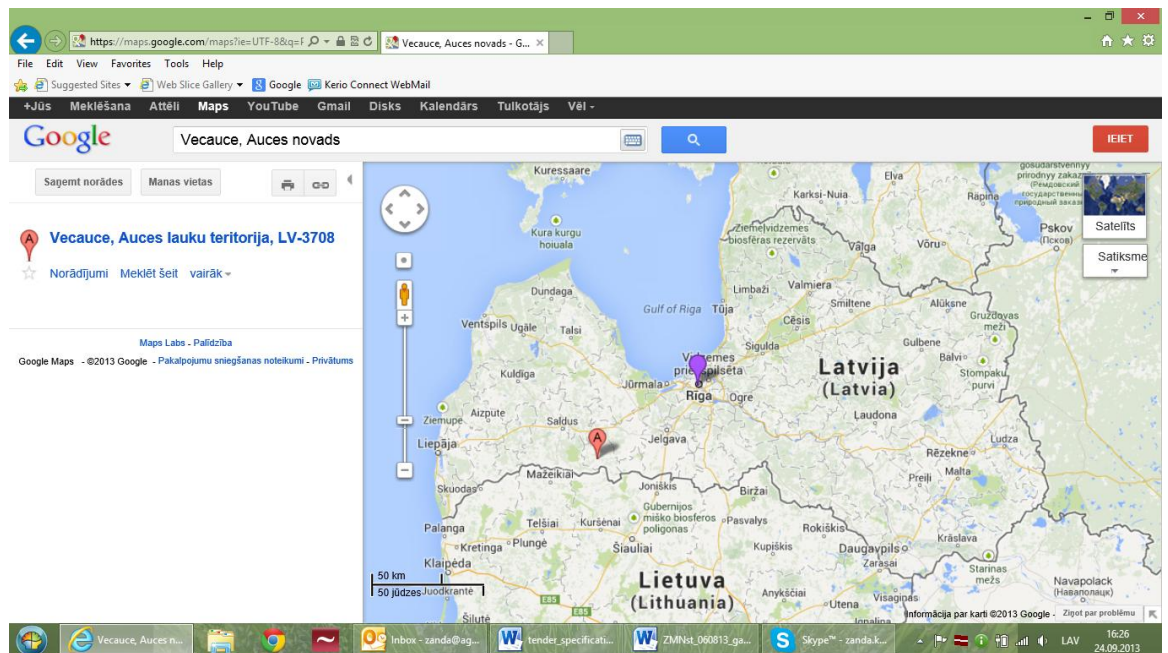
amount of the biomass for treatment per day: 15 - 20 tons.

We are open to any type of solutions, which would suit us economically, technically and environmentally.

Latvia Agriculture Univestity Training farm Vecauce,

Akadēmijas iela 11a, Vecauce, Vecauces pagasts, Auces novads, LV-3708

Situated at the Southern part of Latvia, around 100 km from Riga. Vecauce is located in the Nitrate vulnerable zone, therefore special attention is given for the environmental issues.



Contact person for clarification

Director of the Vecauce farm Iveta Grudovska, tel. +371 29437520, iveta_grudovska@inbox.lv

Planned commissioning date

Planned spring of 2014

How to submit technology offer

There is no special template to use for drawing up the offer. However offer should include following information:

- Name of the tenderer, including specification of the responsible manager,
- Description of the technology offered,
- Price,
- Price conditions,
- Time schedule,
- Foreseen relevant or needed services and their costs,
- Operational costs,



- Guarantees, and
- References to similar projects.

The offer shall be drawn up in English or Latvian language.

All prices are informed without VAT.

Scoring of bids

The bids will be evaluated on basis of the following:

- Offered technology meeting the requested and specific conditions and needs of the farm and biogas plant
- Operational costs
- References from similar projects, CV's of involved experts
- Price

Disclaimer

Latvia Agriculture University Training farm "Vecauce" reserves the rights to refuse all received offers.

