

Manure management

SIA Latvi Dan Agro

SIA Baltic Breeders

SIA Lauku Agro

SIA Domnieki

SIA Miķelāni bekons

Who we are?

- ▶ Daughter companies of *Topgard Holding, Denmark*
- ▶ Pig production - 20 000 pigs, 2 000 sows
 - ▶ Latvi Dan Agro - Jaunbērzes pag. Dobeles nov.
 - ▶ Baltic Breeders - Īles pag. Auces novadā
 - ▶ Miķelāni bekons - Salas pag. Salas novadā
- ▶ Grain production - nearly 5,5 th. ha land
 - ▶ Jaunbērzes pag. Dobeles novadā
 - ▶ Džūkstes pag., Lestenes pag. Tukuma novadā
 - ▶ Īles pag., Bēnes pag. Auces novadā
 - ▶ Zaļenieku pag., Glūdas pag. Jelgavas novadā
- ▶ Biogas - 1MW cogeneration equipment
 - ▶ 2 fermenters, nearly 5 000m³ each
 - ▶ 60 days storage period for biomass

Storage

- ▶ Lagoon, closed
 - ▶ Pig slurry
 - ▶ digestate
- ▶ Cylindrical type, closed
 - ▶ Pig slurry
- ▶ Short term storages - wells
 - ▶ Pig slurry
- ▶ Monolith closed storages
 - ▶ digestate



Short term storages

- ▶ «Ošlejās»
- ▶ «Avotos»
- ▶ Short term storage of the slurry before pumping to the lagoon
- ▶ Concrete cover
- ▶ Electric pump 45hp
- ▶ 27m³ un 48m³



Lagoons

- ▶ «Ošlejās»
- ▶ «Avotos»
- ▶ Slurry
- ▶ digestate
- ▶ Partly under ground
- ▶ Swimming layer of synthetic plastic
- ▶ Ventilation openings
- ▶ With fence and gate
- ▶ 10 000m³
- ▶ Mixing system



Cylindrical type storage

- ▶ «Vētrās»
- ▶ Concrete walls
- ▶ Tent cover
- ▶ 5 000m³
- ▶ Opening for introduction of mixer/pump



Biogas station

- ▶ monolith
- ▶ closed
- ▶ Pre-storage 1500m³
- ▶ Post-storage 1500m³



Separation

- ▶ Mechanical separation of the fiber rich particles
- ▶ Capacity 15m³ h
- ▶ Apply as fertilizer to the fields



Pumping in «Vētras»

- ▶ Immersible pump
- ▶ Centrifugal pump
- ▶ Filling of manure spreading tanks



Spreading on fields



- Filling near the field from transport truck or buffer capacity

- System with hoses
- 24t and 30t working capacity
- Till 24m working width



Container for liquid manure

- ▶ Transportable
- ▶ Used as buffer capacity
- ▶ Centrifugal pump is operated by tractor
- ▶ 60t capacity



Spreading of dry fraction after separation

- ▶ Till 22m³ capacity
- ▶ Floor transport
- ▶ 24m working width



Regulations of Cabinet of Ministers Nr.834

- ▶ In the Environmentally Sensitive areas from October 20 till March 15 spreading of manure and digestate is restricted;
- ▶ In the autumn liquid manure, digestate and slurry for fertilization is used only together with the leftovers of plants (stubble, chopped straw, roots of the grass). They should be elaborated in the soil by ploughing or similar method;
- ▶ When new storage for the storing of digestate is under planning or construction, the value should be calculated for 8 month storing period;

Agrometer

- ▶ Liquid manure spreader
- ▶ Pumped through pipelines
- ▶ Transport without odors
- ▶ Preserved roads
- ▶ Spreading capacity 100-150t/h
- ▶ 24-36m working width



Paldies par uzmanību!