



FAQ Bert Mobil (BM) Containerized Biogas Plant

CONTENT

What is a Bert Mobil (BM)?	2
What is a Containerized Biogas Plant?	2
What are the advantage of BM?	2
What substrates can be used with BM?	2
How many (BD) Containers do I need?	2
How much Power is in my Biomass?	3
How do I get the Biomass in the digester?	3
What comes out of the Digester?	3
Does it all smell?	3
How often do I feed the digester?	3
What size of CHP do I need?	3
What makes BM special, compared with other Biogas systems?	3



1. What is a Bert Mobil (BM)?

Bert mobile is a industrially manufactured biogas plant consisting out of a 40' bio-digester (BD) and a 20' technical container (TC). It is a biogas plant that can be delivered by truck and being ready for biogas production within five days.

2. What is a Containerized Biogas Plant?

Containerized means that the BD as well TC are standard size containers. All parts of the biogas plant should be prefabricated and delivered in a container, so that locally little work must be.

3. What are the advantage of BM?

BM offers many advantages:

- ✓ industrial manufacturing offers reduced prices
- ✓ using standard components assures quality
- ✓ the mobility of BM allows to change location if needed
- ✓ BM his modular and can be expanded or decreased as desired
- ✓ DB his heated and can operate also at -30°C
- ✓ starting from 3 tons of biomass per day
- ✓ all kinds of biomass can be used
- ✓ choices of CHP are available
- ✓ various solutions for the use of biogas: Electricity, Heat, Space cooling, Refrigeration, CNG, Deep freezing, burning
- ✓ production of the fertilizer as output
- ✓ no smell
- ✓ easy to operate and low operation and maintenance cost
- ✓ large variety of options like: heat pump, solar, wind - for off grid locations

4. What substrates can be used with BM?

All animal slurries are welcome: cattle, pigs, chicken etc., slaughterhouse waste, water treatment plant sludge, all food waste from food factories, nearly all biomass.

5. How many (BD) Containers do I need?

The number of containers depends on the biomass you have daily available. With 3 tons biomass per day you can start the smaller system and increase if desired.



6. How much Power is in my Biomass?

The power in the biomass varies a lot. Compare it with the food you eat. Eating a steak and spaghetti will fill your stomach (digester) up in gives you energy for a long time. Eating just a thin water soup with 1 carotte in it will give you not much energy. Usually dry matter content (DM) and organic dry matter content (ODM) are the key analytical data we need in order to define the biogas producing capacity of a substrate. Fats and sugars are excellent for biogas production.

7. How do I get the Biomass in the digester?

Depending on the biomass we offer various methods to feed in the biomass hourly in the digester (BD). For successful biogas production it is important that the biomass is presented to the bacteria in very small (digestible) pieces. Therefore, shredders or other devices will be used to prepare the biomass.

8. What comes out of the Digester?

The output of the digester is a wonderful bio fertilizer that can replace commercial fertilizer. This product is not smelling and has proven many times all over the world it's effectivity.

9. Does it all smell?

The biogas process is an anaerobic process. That means there is no smell from the process. The output of the digester does not smell either. If there is smell, it comes from the biomass which is waiting for being used. This part needs to be managed properly.

10. How often do I feed the digester?

The digester should be said ideally every hour onetime: that means 24 times per day x 365 days

11. What size of CHP do I need?

The size of the CHP (Combined Heat and Power) depends on the power of your biomass. Please tell us the amount of biomass you have available per day and we can calculate for you the size of the CHP.

12. What makes BM special, compared with other Biogas systems?

Bert systems are always working with heated digesters and a substrate temperature of around 40°C. In consequence BM produces more biogas than other systems and at a constant rate. The heat comes from the CHP engine or from a heat pump.

Other characteristics of BM are that the plant design is to keep it simple in technology and easy for maintenance.