



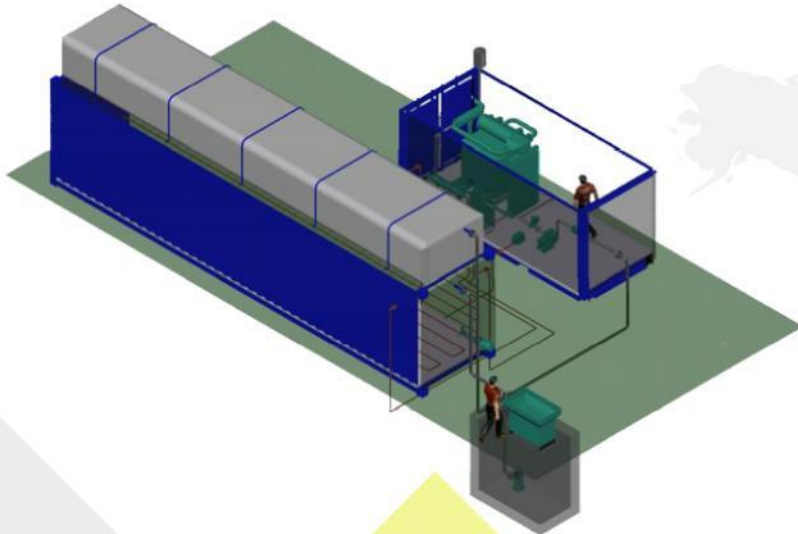
Bert Mobil Product Overview Biogas Yield and Applications





BERT MOBIL 60-15

HANDLING CAPACITY	3.000 KGS/DAY
Substrates	Animal slurry, Food waste, other biomass
Type	Plug flow containerised
Material of construction	Mild steel, internal anticorrosive
Size Digester	12 m (L) x 2.3 m (W) x 2.6 m (H)
Loading	Pumping
Shredder	10 HP
Feeding pump	1.5 HP
Mixer	5 .0 HP
Biogas produced (depend on substrates)	150-240 m3 /d
Technical container 6m x 2.3m x 2.6m	Includes CHP and all equip. for biogas
CHP	15 kW x 8600 h = 129.000 kWh /yr.
Area required for Installation	15 m x 4 m



Bert Mobil is a containerized complete biogas solution.

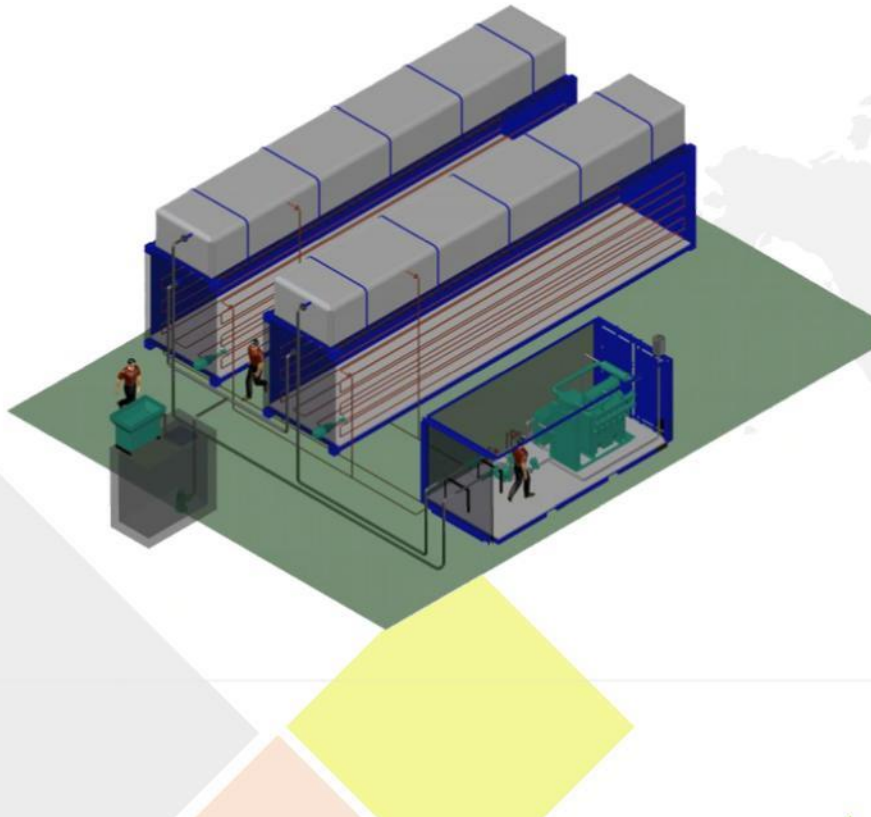
2 containers are sufficient for the small biogas plant

Bert Energy GmbH, Germany - www.bert-energy.com - info@bert-energy.com +49 211 936 70 411



BERT MOBIL 120-30

HANDLING CAPACITY	6.000 KGS/DAY
Substrate	Animal slurry, Food waste, other biomass
Type	Plug flow containerised
Material of construction	Mild steel, internal anticorrosive
Size Digester	12 m (L) x 4.6 m (W) x 2.6 m (H)
Loading	Pumping
Shredder	10 HP
Feeding pump	1.5 HP
Mixer	5 .0 HP (2nos)
Biogas produced (depend on substrate)	300-480 m3 /d
Technical container 6m x 2.3m x 2.6m	Includes CHP and all equip. for biogas
CHP	30 kW x 8600 h = 258.000 kWh /yr.
Area required for installation	15 m x 8 m



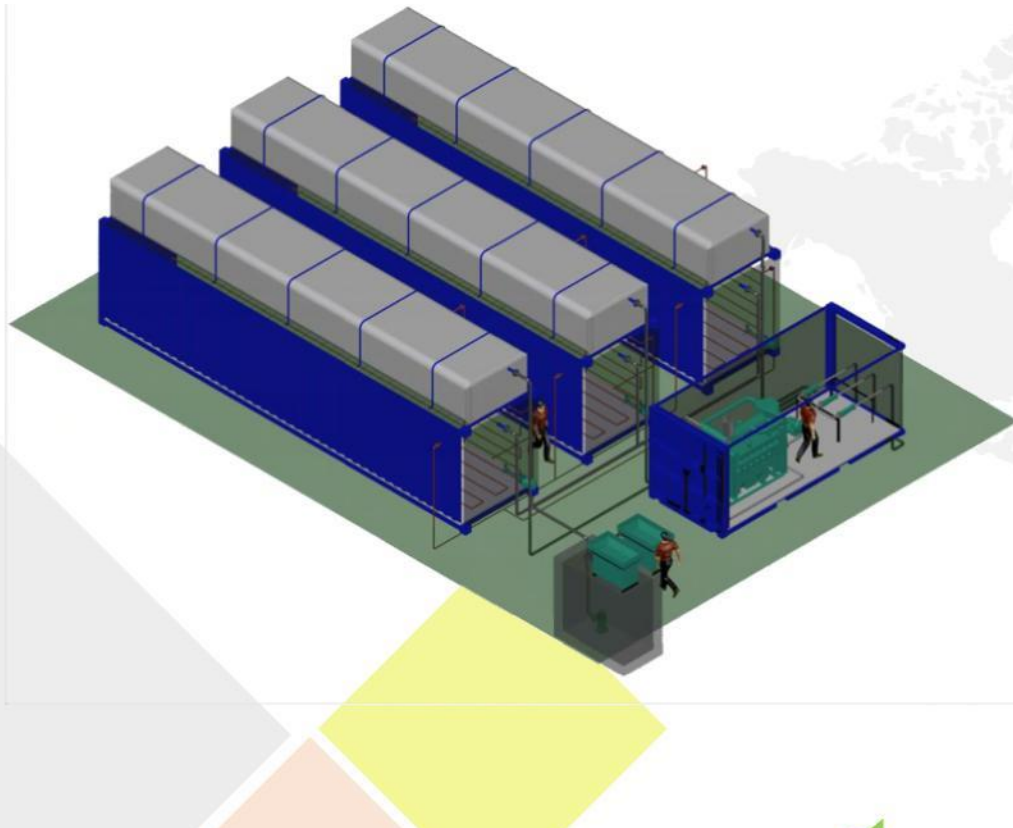
Bert Mobil arrives assembled – quick to install.

Modular System - Growth with your needs

Bert Energy GmbH, Germany - www.bert-energy.com - info@bert-energy.com +49 211 936 70 411



BERT MOBIL 180-45



HANDLING CAPACITY	9.000 KGS/DAY
Substrate	Animal slurry, Food waste, other biomass
Type	Plug flow containerised
Material of construction	Mild steel internal anticorrosive
Size Digester	12 m (L) x 6.9 m (W) x 2.6 m (H)
Loading	Purnping
Shredder	10 HP
Feeding pump	1.5 HP
Mixer	5.0 HP (3nos)
Biogas produced (depend on substrates)	400-720 m3 /d
Technical container 6m x 2.3m x 2.6m	Includes CHP and all equip. for biogas
CHP depends on substrate quality	45-60 kW
Area required for installation	15 m x 12 m

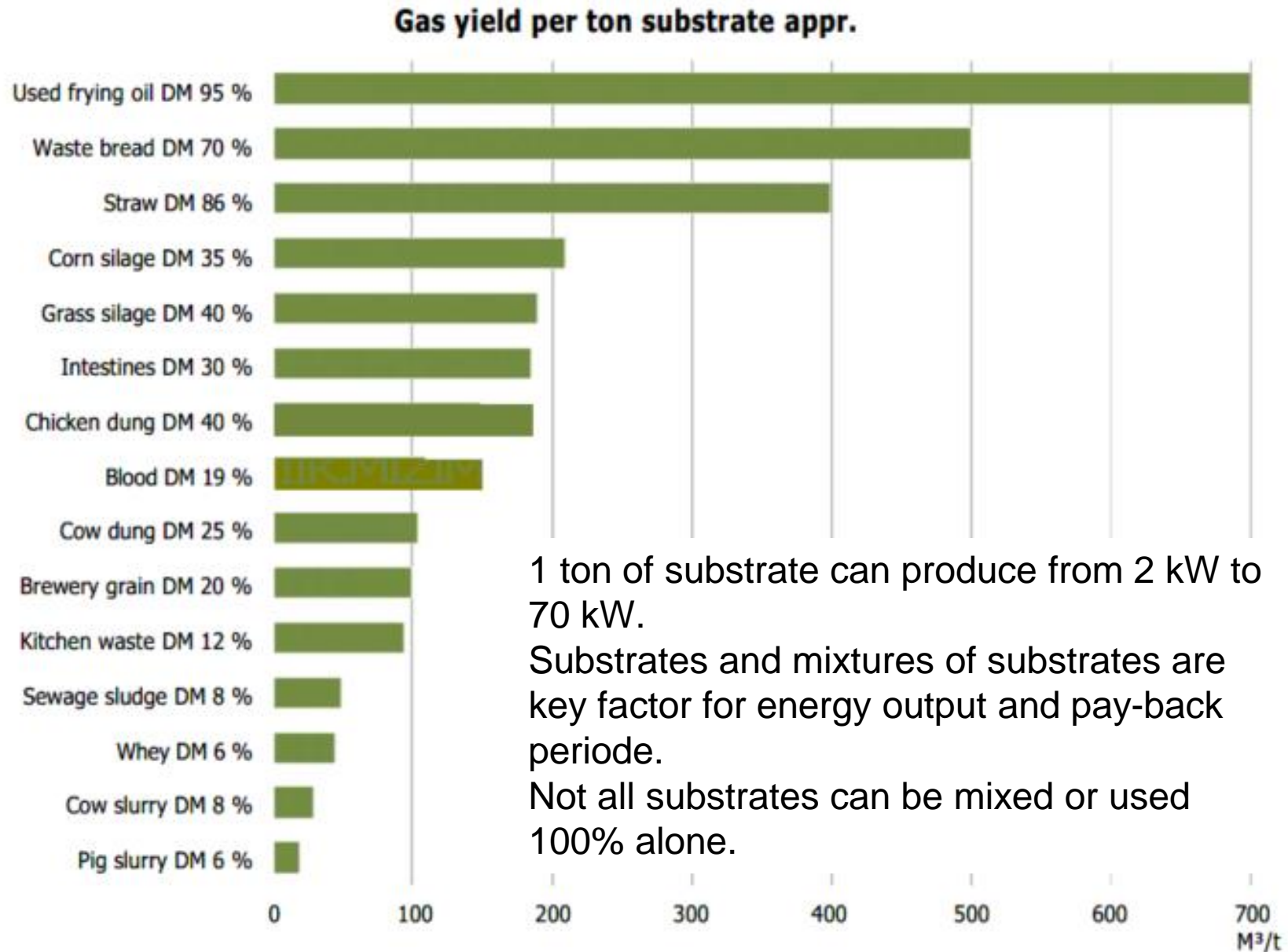
Bert Mobil can be sold or relocated like a used car.

Bert Mobil offers new options for Biogas

Bert Energy GmbH, Germany - www.bert-energy.com - info@bert-energy.com +49 211 936 70 411



Great Difference in Energy Output





Bert Mobil Input -Output Overview - Example Biomass

All numbers depending on the quality of the biomass

The 1 ton / day plant with 5kW can deliver up to 40.000 kWh / year

	4 Bert Model Sizes					4 Bert Model Sizes			
	60-15	120-30	180-45	240-60		60-15	120-30	180-45	240-60
Cow slurry , 10% DM ; 84% ODM tons per day	4	8	12	16	Chicken manure 40% DM; 75% ODM, tons per day	1	2	3	4
Biogas m ³ per day	120	240	360	480	Biogas m ³ per day	150	300	450	600
Electricity (kWh/d)	288	576	864	1.152	Electricity (kWh/d)	336	672	1.008	1.344
Operating hours	8.600	8.600	8.600	8.600	Operating hours	8.600	8.600	8.600	8.600
Electricity (kWh/year)	103.200	206.400	309.600	412.800	Electricity (kWh/year)	120.400	240.800	361.200	481.600
kW thermic available (depends on climate zone)	8	16	24	32	kW thermic available (depends on climate zone)	9	18	27	36
kWh therm available per year	68.800	137.600	206.400	275.200	kWh therm available per year	77.400	154.800	232.200	309.600
Electrical kW output	12	24	36	48	Electrical kW output	14	28	42	56
Pig slurry 12% DM ; 86% ODM, tons /day	3	6	9	12	Vegetable waste, tons per day	3	4	9	12
Biogas m ³ per day	136	272	408	544	Biogas m ³ per day	160	320	480	640
Electricity (kWh/d)	312	624	936	1.248	Electricity (kWh/d)	360	720	1.080	1.440
Operating hours	8.600	8.600	8.600	8.600	Operating hours	8.600	8.600	8.600	8.600
Electricity (kWh/year)	113.874	227.748	341.622	455.496	Electricity (kWh/year)	129.000	258.000	387.000	516.000
kW thermic available (depends on climate zone)	14	28	42	56	kW thermic available (depends on climate zone)	9	18	27	36
kWh therm available per year	120.400	240.800	361.200	481.600	kWh therm available per year	77.400	154.800	232.200	309.600
Electrical kW output	13	26	39	52	Electrical kW output	15	30	45	60
	60-15	120-30	180-45	240-60		60-15	120-30	180-45	240-60
Food wast tons per day	3	6	9	12	Human sludge, tons per day	3	6	9	12
Biogas m ³ per day	240	480	720	960	Biogas m ³ per day	270	540	810	1.080
Electricity (kWh/d)	360	720	1.080	1.440	Electricity (kWh/d)	264	528	792	1.056
Operating hours	8.600	8.600	8.600	8.600	Operating hours	8.600	8.600	8.600	8.600
Electricity (kWh/year)	129.000	258.000	387.000	516.000	Electricity (kWh/year)	94.600	189.200	283.800	378.400
kW thermic available (depends on climate zone)	10	20	30	40	kW thermic available (depends on climate zone)	8	16	24	32
kWh therm available per year	86.000	172.000	258.000	344.000	kWh therm available per year	66.220	137.600	206.400	275.200
Electrical KW output	15	30	45	60	Electrical KW output	11	22	33	44