

Bert Mobil Input -Output Overview - Example Biomass

All numbers depending on the quality of the biomass

	4 Bert Model Sizes			
	60-15	120-30	180-45	240-60
Cow slurry , 10% DM ; 84% ODM tons per day	4	8	12	16
Biogas qm per day	120	240	360	480
Electricity (kW/h/d)	288	576	864	1.152
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	103.200	206.400	309.600	412.800
KW/h termic available (depends on climate zone)	8	16	24	32
kW/h therm available per year	68.800	137.600	206.400	275.200
Electrical KW/h output	12	24	36	48

	60-15	120-30	180-45	240-60
Pig slurry 12% DM ; 86% ODM, tons /day	3	6	9	12
Biogas qm per day	136	272	408	544
Electricity (kW/h/d)	312	624	936	1.248
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	113.874	227.748	341.622	455.496
KW/h termic available (depends on climate zone)	14	28	42	56
kW/h therm available per year	120.400	240.800	361.200	481.600
Electrical KW/h output	13	26	39	52

	60-15	120-30	180-45	240-60
Food wast tons per day	3	6	9	12
Biogas qm per day	240	480	720	960
Electricity (kW/h/d)	360	720	1.080	1.440
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	129.000	258.000	387.000	516.000
KW/h termic available (depends on climate zone)	10	20	30	40
kW/h therm available per year	86.000	172.000	258.000	344.000
Electrical KW/h output	15	30	45	60

	60-15	120-30	180-45	240-60
Chicken manure 40% DM; 75% ODM, tons per day	1	2	3	4
Biogas qm per day	150	300	450	600
Electricity (kW/h/d)	336	672	1.008	1.344
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	120.400	240.800	361.200	481.600
KW/h termic available (depends on climate zone)	9	18	27	36
kW/h therm available per year	77.400	154.800	232.200	309.600
Electrical KW/h output	14	28	42	56

	60-15	120-30	180-45	240-60
Vegetable waste, tons per day	3	6	9	12
Biogas qm per day	160	320	480	640
Electricity (kW/h/d)	360	720	1.080	1.440
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	129.000	258.000	387.000	516.000
KW/h termic available (depends on climate zone)	9	18	27	36
kW/h therm available per year	77.400	154.800	232.200	309.600
Electrical KW/h output	15	30	45	60

	60-15	120-30	180-45	240-60
Human sludge, tons per day	3	6	9	12
Biogas qm per day	270	540	810	1.080
Electricity (kW/h/d)	264	528	792	1.056
Operating hours	8.600	8.600	8.600	8.600
Electricity (kW/h/year)	94.600	189.200	283.800	378.400
KW/h termic available (depends on climate zone)	8	16	24	32
kW/h therm available per year	66.220	137.600	206.400	275.200
Electrical KW/h output	11	22	33	44