



# "Limes Innovation" FOOD

Comparison between the use of straw and traditional fuels.

Sample comparoson made for installation with total power of 850 kW.

BSB850 with Accumulating tank 100 m<sup>3</sup>

FUEL	kcal/kg	kWh/kg	Fuel Price			
			€/l	Specific weight	€/kg	€/kWh
Straw 10% humidity	3 500	4,07			0,07	0,018
Straw 20% humidity	3 120	3,63			0,06	0,017
Straw 30% humidity	2 800	3,26			0,05	0,016
Industrial oil	9 443	10,98	0,84	0,89	0,95	0,086
Diesel oil	10 002	11,63	1,09	0,86	1,27	0,109
Natural Gas	7 749	9,01				0,059
LPG	11 008	12,80	0,44	0,56	0,79	0,061
Pellets	3 600	4,19			0,20	0,049
Wood	2 700	3,14			0,07	0,023
Electricity	860	1,00 kWh				0,102

	kg	kWh
Round Straw Bale Diameter=1,8 m; L=1,2 m; humidity 20%	380	1 378,60

Sample - comparison between straw and other fuels	kW	Working hrs	kWh	Cost € per day	Cost € per 6 months (winter)	Savings € if use straw
BSB850 - with a total capacity of 850 kW	850	18	15300			
Industrial oil				1321	237 752	191 177
Diesel oil				1666	299 871	253 295
Natural Gas				907	163 339	116 764
LPG				939	168 940	122 365
Electricity				1565	281 620	235 044
Straw Bale 20% humidity				259	46 576	

**\* NOTE:**

**Price of fuels as of May.2018 r. In Bulgaria**

**The price of straw is indicative including transport and storage**