

ADVANCED PELLETING TECHNOLOGY

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LAMNET – Joint Workshop

KEMYX 💮 FRANCO BERNABÈ

Durban, South Africa



	QUOTATION OF CONVENTIONAL FUELS: HYDROCARBONS					
	Product	Costs (€/ton)	Calorific Value(kcal/kg)			
	Fuel Oil	270	8,000			
	Natural Gas (untreated)	268	12,000			
	Diesel	370	10,000			
	Methanol	271	5,000			
	Coal	42	6,000			
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Product	Moisture	Cost (€/ton)	Calorific Value (kcal/kg)
Woody Biomass (chips and branches)	30 to 50%	40 to 50 (ex plant)	2,200 to 2,600
Bioethanol		231	7,000
Charcoal		225	7,000
Biometha nol		300	5,500

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Woo	d Pellets quo	tations (y	ear 2001)	E
Product	Descriptions	Moisture	Cost (€/ton)	Calorific Value (kcal/kg)
Industrial Use	Traditional Technology	10%	100/120 Ex plant	3,800/4200
Industrial Use	Traditional Technology	10%	140/170 Ex distrib.	3,800/4200
Domestic Use	Traditional Technology	10%	250/270 Customer	3,800/4200
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Characteristics	Κетух φ 10-15 mm	Conventional	Chopped Woody Biomass
Moisture %	8 to 10	8 to 10	30 to 50
Cal. Value (kcal/kg)	4,000 / 4,400	3,800 / 4,000	2,200 / 2,600
Ash Remainder(%)	0.5	0.5 to 2	10 to 20
Density (kg/m ³)	700 / 750	600 / 620	200 / 300
Power used for kg/h (W)	70 to 100	120 to 200 + drying	-
Production Cost (€/ton)	30 to 50	60 to 90	-
Wholesale price (€/ton)	80 / 85	100 / 120	40 / 60

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