







FIREWOOD (SALIX)	BAGASSE	ENERGY CROP
342,945	580,000 (1986)	AREA [hA]
3.4	35.7 (1986)	PRODUCTION [Mton]
10	61.6	CROP YIELD [ton/hA]
4,500	430	ENERGY YIELD* [kWh/ton]
IGCC; EFF=47%; PF=60%	Gasification Gas turbine	TECHNOLOGY
15,432	15,351	GENERATED ELECTRICITY [GWh]
DEPENDING ON AREA	3,400	MAXIMUM INSTALLED CAPACITY
1,380	1,529	INSTALLED CAPACITY [MW]
Gustavsson, L. And Borjesson, P. En. Pol. 26(9), p 699 (1998)	Navia, J. et al. ANES proc., p 304 (1987)	*SOURCES

SCENARIOS	BASE YEAR TREND	OFFICIAL	TRANSITION	
POWER PLANTS	1996 %	2025 %	2025 %	2025 %
NON RENEWABLES	69%	87%	87%	41%
RENEWABLES	31%	13%	13%	59%
TOTAL BIOMASS (BAGASSE+ FIREWOOD)	0.0%	0.0%	0.0%	3.1%
NON RENEWABLES				
COMBINED CYCLE - NG	5.6%	2.1%	61.3%	16.1%
STEAM TURBINE - OIL	41.1%	74.6%	15.4%	15.4%
INTERNAL COMBUSTION - OIL	4.8%	4.2%	4.2%	2.9%
COAL	7.5%	2.8%	2.8%	2.8%
FUEL OIL AND DIESEL FIRED	6.0%	2.3%	2.3%	2.3%
NUCLEAR	3.8%	1.4%	1.4%	1.4%
RENEWABLES				
HYDROELECTRIC	28.8%	11.5%	11.5%	23.5%
GEOTHERMAL	2.2%	1.0%	1.0%	4.7%
WIND	0.0%	0.1%	0.1%	13.8%
SOLAR PHOTOVOLTAICS	0.03%	0.01%	0.01%	5.9%
MICRO-HYDRO	0.12%	0.05%	0.05%	3.2%
BAGASSE	0.0%	0.0%	0.0%	1.7%
FIREWOOD	0.0%	0.0%	0.0%	1.5%
FUEL CELLS	0.0%	0.0%	0.0%	1.7%
MUNICIPAL SOLID WASTE	0.0%	0.0%	0.0%	1.5%
SOLAR THERMAL-ELECTRIC	<u>0.0%</u>	0.0%	0.0%	<u>1.4%</u>
TOTAL GENERATING CAPACITY %	100.0%	100.0%	100.0%	100.0%
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