





	FIG Working Week - Bridging the Cap Between Cultures Marrakech, Morocco May 18-22 2011
	. Process: Biomass fuel plant – droppings from poultry farms; Electric power output: 50 kW of electricity. All the energy produced will be sold to the
N N	GSE under the "all-inclusive fee":
Type of plant	. Thermal power available: 120kW of heat in the form of hot water used by the air-air heat exchanger to desiccate the biomass:
	. Consumption of biomass fed into the furnace: 300 kW/h; Heat power: 2.1 kW/kg of dry matter;
	. Burned excrement: 145 kg/h of bedding "as is" which for 8.000 hours per year means
	11.600 quintals per year;
	Hours of operation expected 8.000 hours per year . Mobile grate combustor with automatic unloading of ash, lined with high-
	strength refractory material:
	. Heat exchanger air/air (no water consumption) in special steel with high resistance to
	corrosion at high temperatures, Turbine and induction motor:
	. Inverter to stabilize the frequency:
	. Combustion and operation control panel with connection for remote control;
	Connection to network via inverter Network protection system:
	. Fully automated continuous operation:
	. Plant dimensions: 2.75 x 3.75 x 3.95 (height)
	. Storage dimensions: the company already has the manure heap; Transport from manure heap to desiccation/burner unit. as per the maneuver spaces
	shown in the drawings.
FIG Workir	
Massimiliano DE MARTIN	- Italy













FIG Marrakech WW2011 FIG Working Week - Bridging the Gap Between Cultures Marrakech, Morocco May 18-122 2011	
ects	Emissions are well below the legal limits thanks to the safety of the plant
al asp	No use of water
onment	Land use extremely limited (150 square meters including the place where manure is stored and dried)
	Easy to run, as it is all automatic (the manure is just stored directly in proper spaces for drying, thereby avoiding the need for transport to special dumps)
FIG 3 Contraction of the second	Massimiliano DE MARTIN- Italy





