

Kenya Small Project Facility

Project Overview (2004-2005)

Table 1: Projects Supported by the CDM SPF in Kenya

Project Proponent	Technology	Description/Benefits	Source of GHG Emissions Reduction	Estimated Emissions Reductions (CO ₂ e)
Jatropha Vanilla Project	Bio-fuel production	Farmers will grow 660 jatropha trees in total per acre, harvesting seeds for oil production, with seed cake used for organic fertilizer to support the growth of vanilla. Excess bio-diesel will be marketed. Health benefits and financial savings for small farmers.	Replace kerosene for cooking and lighting, replace diesel in local generators	767,456 tonnes over 10 years
Chemelil Sugar	Cogeneration - bagasse	Generation of 7.5Mw of electric power, through bagasse-fired boiler and backpressure steam turbine, for sale to sugar company and national grid. Technology transfer to rural area. Secure source of energy for country and use of local resources. Farmers receive secure income.	Fossil fuel replacement, reduction of methane from bagasse decomposition	183,820 tonnes over 1 st and 2 nd 7 years; decreasing to 157,560 in the 3 rd period
Bio-Fuel Co of Kenya	Bio-diesel production	Commercial plantation of 1,000 ha on marginal land and farmers growing 2,000 ha. Harvesting Jatropha seeds and production of 60 tonnes/day of oil for conversion into bio-diesel. Income and employment for small farmers. Improved air quality and community health. Investment opportunities for local community. Improved foreign exchange.	Reduction in emissions of hydrocarbon, carbon monoxide, PM, sulfur oxides, sulfates from diesel emissions.	94,500 tonnes over 1 st 7 years; increasing to 132,329 in 2 nd and 3 rd periods
ApproTEC	Treadle pumps	Affordable means of irrigation for small farmer. Local manufacture of pumps. Project aim to sell 78,355 pumps benefiting an equal number of households with an avg. of 6 persons per household. Increased income, improved food security (as increased land under cultivation), employment. Improved foreign exchange from decreased fuel imports.	Replace alternative motorized diesel pumps.	80,268 tonnes over 10 years
SolarNet	Solar Tech. for Electricity Provision	Assist in access to SPV technology in rural areas not currently on the grid. Installation of total 6480 SPV systems in boarding schools and households through grant/loan program. Training of local technicians in maintenance and operation. Benefits include: contribution to national electrification, improved access to education and information, improved health, increased income and employment.	Replace kerosene, diesel generators, lead-acid battery used for lighting.	8,094 tonnes over 10 years