

Nigeria Small Project Facility

Project Overview (2005-2006)

Table 1: Projects Supported by the CDM SPF in Nigeria

	Project / Local Authority / Developer	Type	Technology	Description	Source of GHG Emissions Reduction	Estimated Emissions Reductions (CO ₂ e) / IRR
1	Ele River Small Hydro Project Ikole Local Government Area, Ekiti State Project Developer: Water and Dam Services Company (WADSCO)	Type 1D. Renewable Energy Generation for a grid	Small hydro	1.2MW small hydro plant within the existing Ele Dam in Ekiti State. 5184 MWh generating capacity; electricity will be exported to the national grid. Project will enhance the availability of power to the local distribution network, improving the electricity supply to the Itapaji community.	Supplies renewable energy to the national grid (avoids additional fossil fuel based generation in BAU scenario)	Annual average: 2,799 metric tons of CO ₂ e Accumulated in 7 years 19,593 metric tons of CO ₂ e Total crediting period (3x7years): 58,779 tons of CO ₂ e
2	Kiri Dam Small Hydro Project Shelleng Local Government Area, Adamawa State Project Developer: Water and Dam Services Company (WADSCO)	Type 1D. Renewable Energy Generation for a grid	Small Hydro	15MW small hydro project, installed on the existing Kiri Dam. 118,800 MWh generating capacity; electricity will be exported to the national grid. Boosts availability of power from the grid to the local distribution network, supporting local sugar factory and assisting in rural electrification.	Supplies renewable energy to the national grid (avoids additional fossil fuel based generation in BAU scenario)	Annual average: 64,152 metric tons of CO ₂ e Accumulated in 7 years: 449,064 metric tons of CO ₂ e Total crediting period (3x7years): 1,347,192 metric tons of CO ₂ e
3	Obudu Ranch Small Hydro Project Obudu Ranch Plateau, Cross River State Project Developer: Ministry of Power & Steel, Federal Government of Nigeria	Type 1D. Renewable Energy Generation for a [mini] grid	Small hydro	1MW small hydro plant on the Afundu River 6570 MWh generating capacity; electricity will be sold to the Obudu Ranch Resort Hotel, other activities on the Obudu Ranch Plateau, and the local community via a mini-grid.	Replacement of diesel used in generating sets	Annual average: 5,256 metric tons of CO ₂ e Accumulated in 7 years: 36,792 metric tons of CO ₂ e Total crediting period (3x7years): 110,376 metric tons of CO ₂ e

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4	Sapele Energy Park Project Warri, Delta State Project Developer: Wolfmetata Nigeria Limited; Delta State Government; others.	Undefined Flaring Reduction // Electricity Generation	Natural Gas	Gas plant to supply key industries in the Sapele area. These industries are currently using diesel plants, with the national grid as back-up.	Gas will replace diesel generation and some proportion of the national grid	Undefined due to outstanding technical issues
5	Kogi Cogeneration Project Ibaji Local Government Area, Kogi State Project Developer: Kogi State Government International Centre Energy, Environment & Development (ICEED)	Fuel substitution	Bagasse-Fired Cogeneration	10 MW bagasse-fired cogeneration plant, installed on the site of a new sugar factory. 65,700MWh generating capacity; 13,140MWh of electricity will be used by the sugar factory, while 52,560 MWh will be sold to the national grid.	Avoids use of diesel generating set at local sugar factory. Supplies renewable energy to the national grid (avoids additional fossil fuel based generation in BAU scenario)	Annual average emissions reduction: 33,894 tons of CO ₂ e Accumulated in 10 year crediting period: 388,940 tons of CO ₂ e
6	Kwali Sugarcane Ethanol Project Kwali Area Council, FCT, Abuja Project Developer: Nigerian National Petroleum Corporation (NNPC)	Ethanol	Biofuel and cogeneration	Project seeks to establish a 120mm liters/year ethanol plant. Ethanol will be commercialized as motor fuel to be blended with gasoline, initially up to 10%. A 10-15MW co-generation plant will provide electricity to the grid. The investment is expected to range from \$80 -100m on completion. However, the development of the plant will be scaled, allowing for eligibility within the CDM small project window.	Replacement of gasoline for road transportation and diesel for power production.	Undefined due to outstanding technical issues