

Project name	Biodiesel from Jatropha
Country	Nigeria, Delta Region
Background	Establishment of a Jatropha plantation with plans for expansion to become a regional hub for integrated biofuels production. In addition to producing bio-diesel for the domestic and export markets, the proponents plan to arrange offtake agreements to supply crude vegetable oil to stand-alone diesel generator set owners in the country.
Project type	Renewable energy/ biofuel (bio-diesel, PPO and biomass)
Project scope	Initial plans are for a 10,000 hectare plantation with a scaling up to 100,000 hectares over a period of ten years with the expectation of initially producing around 37 million litres of bio-diesel per annum.
Emission reductions	<p>t.b.d. based upon business model(s) adopted.</p> <p>As an indication, a 10,000 hectare plantation with a higher than average yield could conservatively:</p> <ul style="list-style-type: none"> • Sequester 10t carbon/ha/year, so 100,000t/yr; • Produce 4.7t PPO/ha/yr and 6t dried biomass/ha/yr and this could respectively fire a 35MW fuel oil power plant and a 13 MW biomass power plant; • Offset around 110,000t carbon/year from a PPO power plant; • Offset around 58,000t carbon/year from a biomass power plant
Funding method	Mix of equity & debt financing. Total financing required ca. US\$76 million
Project period	<p>2009 techno-economic feasibility study and business plan</p> <p>2010 plantation establishment</p> <p>2011 first yields</p> <p>Yields for ca. 40 years</p> <p>CDM carbon credits for 10 years or 3 time 7 years</p>
Project details	The project will involve the use of solvent extraction as a cost effective and efficient method of extracting oil from Jatropha seeds grown from small-holder farms and a major plantation to produce both crude (B20) oil for powering generators and refined (B100) oil for transportation and other uses. The seed dehull will be used for electricity generation for the processing plant itself.

