

Technology Fact Sheet for Mitigation

Sector: Energy.

Subsector: Transport

Technology: Blending Fossil Fuel with Biodiesel ⁱ

A.1 Introduction

Biodiesel blend is a well-known technology worldwide it comprises blending of the vegetable oil especially the non-edible oil such as Jatropha oil with diesel fuel with different ratios to make a homogeneous blend that can be used in the diesel engines without any modification to the engine.

A.2 Technology characteristics

The main characteristic of this technology is that it does not need any modification to the original diesel engine (at specific blend ratio), and it is widely applicable in many countries. The technology also uses a renewable source of energy (Jatropha oil) thus emission sequestration state is attained

A.3 Country specific / applicability

The blend biodiesel technology can be applied in the country because of simplicity of the technology. The Jatropha tree is planted in Sudan as a pilot project and it shows good growing characteristics.

A.4 Status of technology in country

The technology is not applied yet but still under research.

A.5 Barriers

- Technical know- how especial in issues of converting to biodiesel and blending
- Lack of local values required to design a sustainable project
- There are no legislations that regulate the application of the technology.
- No investment in the technology yet.
- The cost may be higher.
- There is no enough awareness to use the technology.

A.6 Benefits to economic / social and environmental development

- Income generation to the producers.
- Create new jobs opportunities.
- Reduces pollution due to better combustibility.
- Contribute to the economic development of the country by saving hard currency for diesel importation.

A.7 Costs

The cost of using the bio fuel is not estimated yet in Sudan.

ⁱ This fact sheet has been extracted from TNA Report – Technology Needs Assessment for Climate Change Mitigation - Sudan. You can access the complete report from the TNA project website <http://tech-action.org/>