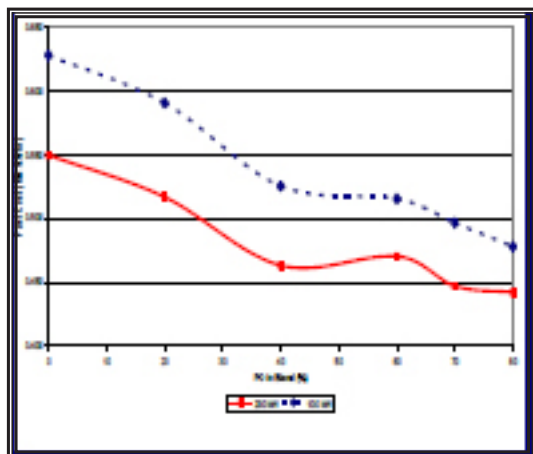


R&D Fund Project

Technical Studies Of Palm Olein/Distillate Blends As Fuel For Mobile Generator Sets



The 300 kW generator set used in the study



Fuel cost to generate power using fuel blends with progressively higher palm olein

Project Overview

This study focuses on the use of blended palm olein/diesel in a 300 kW mobile generator sets owned and operated by TNB Logistics Services. The unit was run on two loads (100 kW and 200 kW) using various palm olein/diesel blends. The performance characteristics and emissions were recorded. Techno-economic analysis was then made using the results to determine whether fuel blending is economically feasible for commercial use.

Deliverables

A comprehensive technical study report on suitability of palm olein as fuel for TNB mobile generators.

Recommendations on the best palm olein/diesel blend for commercialization and practical use in TNB 300kW generator sets.

Benefits

The project is expected to help solve fuel supply problem for mobile generator sets by utilizing palm olein/diesel blends as fuel. Compared to diesel, palm olein supply is reliable and the price is stable.