

International Congress and Expo on Biofuels & Bioenergy

August 25-27, 2015 Valencia, Spain

Biodiesel Production and its Characteristics-An Overview

R.T.Sarath Babu¹, M. Kannan², P. Lawrence³

- ¹Department of Mechanical Engineering, Rajiv Gandhi College of Engineering, Sriperumbudur
- ²Department of Mechanical Engineering, Adhiparasakthi Engineering College, Melmaruvathur
- ³Department of Mechanical Engineering, PSV College of Engg & Technology, Krishnagiri

Exhaustible fossil fuel reserves and steep rise in fuel price has resulted in a continuous search for possible alternative fuels for internal combustion engines. The search is very particular to find suitable alternative fuels for compression ignition engine (diesel engine) as they are widely used in many applications. Biodiesel is one of the best available resources that have come to the forefront recently. Biodiesel has become more attractive day by day because of its environmental benefits and the fact that it is made from renewable energy sources. In this paper, a detailed review has been made with respect to different aspects of biodiesel. These aspects include, biodiesel feedstocks, production methods, properties and qualities of biodiesel, problems and potential solutions of using vegetable oil, advantages and disadvantages of biodiesel, the economical viability and finally the future of biodiesel. The various biodiesel production methods like direct blending, microemulsions, transesterification, thermal cracking were discussed neatly.

Biography

Mr. R.T. Sarathbabu has completed his Master Degree in Thermal Engineering from JNTU, Anandapur and currently pursuing his PhD degree in IC engines from Anna University, Chennai. He has about 8 years of teaching experience and 4 years of industrial experience. He is presently working as Assistant Professor at Rajiv Gandhi College of Engineering, Sriperumbudur. He has published 4 papers in International journals and conferences. His area of interest includes Heat Transfer, Energy Conservation Methods & Biofuels and IC engines.

Notes: