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ABSTRACT Consumption of fossil fuel resources has been growing over the years and it is the kernel of economic development. However combustion which takes place principally in automobiles, power generation and industrial plants produces greenhouse gases (GHG) that are harmful to the environment. The release of GHG such as carbon dioxide is contributing to global warming. Biofuels can lower carbon footprint, reduce dependence on imported fossil fuels and increase energy security. Integrating biofuels into the national energy mix also has good socio-economic and sustainability potential. Therefore this paper discusses factors for successful diffusion of biodiesel technology in developing economies. KEYWORDS Biodiesel, Developing Countries, Feedstock, Success Factors		Frequently Asked Questions		
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Refe [1]	erences M. T. Oladiran, C. Kiravu and O. A. Plumb, "Assessment of Solar-Coal Hybrid Electricity Power Generating Systems," Proceedings IASTED International Conference on Science & Technology Applications for Health & Sustainable Development, Gaborone, 6-8 September 2010.	Links >>		
[2]	Jatropha, "The Next Big Revolution," 2010. http://jatropha- seeds.biz/fuels.html			
[3]	European Biodiesel Board, 2010. http://www.ebb-eu.org/ stats.php			
[4]	B. Amigun, R. Sigamoney and H. Von Blottnitz, " Commercialisation of Biofuel Industry in Africa: A review," Vol. 12, No. 3, 2008, pp 690-711.			
[5]	W. K. Biswas, P. Bryce and M. Diesendorf, "Model for Empowering Rural Poor through Renewable Energy Technologies in Bangladesh," Environmental Science and Policy, Vol. 4, No. 6, 2001, pp. 333–344. doi:10.1016/S1462-9011(01)00031-4			
[6]	G. Francis, R. Edigner and K. Becker, " A Concept for Simultaneous Wasteland Reclamation, Fuel Production, and Socio-Economic Development in Degraded Areas in India: Need, Potential and Perspectives of Jatropha Plantations," Natural Resources Forum, Vol. 29, No. 1, 2005, pp. 12-24. doi:10.1111-8947.2005.00109.x			
[7]	M. Benge, "Assessment of the Potential of Jatropha Curcas (biodiesel tree) for Energy Production and Other Uses in Developing Countries," 2006. http://www.echotech.org/mambo/index.php			
[8]	M. Ye, C. Li, G. Francis and H. P. S. Makkar, " Current Situation and Prospects of Jatropha Curcas as a Multipurpose Tree in China," Agroforestry Systems, Vol. 76, No. 2, 2009, pp. 487-497.			

[9] D. L. Kgathi, " Development of Jatropha Biofuel in Southern Africa," Proceedings of COMPETE International Workshop on Improved Energy Crop and Agroforestry Systems for Sustainable Development in Africa, Mauritius, 2007.

doi: 10.1007/s10457-009-9226-x

- [10] EECG Consutants, " Feasibility Study for the Production and Use of Biofuels in Botswana," Final Report, Energy Affairs Department, Ministry of Minerals, Energy and Water resources, Gaborone, 2007.
- [11] P. Nakpong and S. Wootthikanokkhan, "High Free Fatty Acid Coconut Oil as a Potential Feedstock for Biodiesel Production in Thailand," Renewable Energy, Vol. 35, No. 8, 2010, pp. 1682- 1687. doi:10.1016/j.renene.2009.12.004
- [12] A. Dufey, "Biofuels Production, Trade and Sustainable Development: emerging issues," 2006. http://www.iied. org/pubs/pdfs/15504IIED.pdf
- [13] Future Fuels Africa, "Feasibility Study into the Establishment of Biodiesel Production in Lobatse," Final Report, Energy Affairs Department, Ministry of Minerals, Energy and Water Resources, Gaborone, 2010.
- [14] ASTM D6751-09, " Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels (diesel)," http://www.greenerpro.com/ASTM_D6751.html

[15] J. Gallehugh, "Biodiesel Blending Techniques Key to Quality Fuel," 2008.