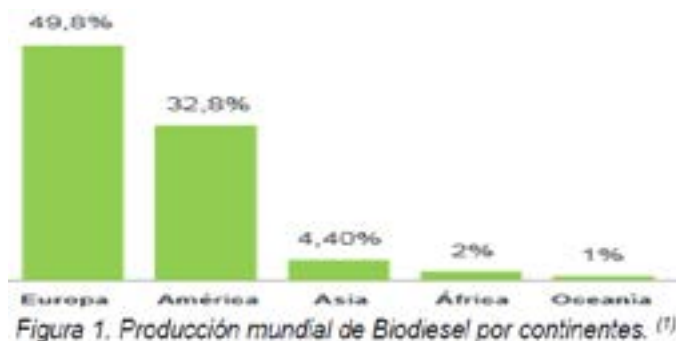


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Sustainable biodiesel production from non-combustible oils in Peru

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In the country and the world, it has become aware about the characteristics of non-renewable fossil fuels and the high use of transport vehicles that use these fuels in addition to industries and other sectors. These have boosted global research on alternative fuels, especially those derived from biomass. In the global context, it is Europe that has led the market in 2009 with a production of 49.8% followed by the American continent with a share close to 33%. In the Asia-Pacific region, Australia is the largest producer followed by China and India. However, the countries with the highest production worldwide in 2009 were Germany, USA, France, Argentina and Brazil which in together they produced 64.8% of the total biodiesel in the world. The debate about considering biofuels as competitors persists with reference to the areas of cultivation and natural resources from the food sources of the world population. However, this is true if it is that the problem is seen as competition of the cultivation surfaces. An alternative is biodiesel, which has the potential to partially replace the diesel obtained from the Petroleum. The most important aspect in the production of biodiesel is the economy, which focuses on the used raw materials, Peru has housed the Higuierilla and *Jatropha curcas* successfully on their land, being able to produce a good amount of this raw material. One proposal is the production cleaner biodiesel with a competitive wreck and of adequate quality.



Biography

Magali Camila Vivas Cuellar will complete her PhD from Doctorate in Energy of Universidad Nacional de Ingeniería, 2020. In 1999 she graduated as Chemical Engineer at Universidad Nacional de Ingeniería, Peru. She has published Journal of Fenomenos de Transferencia (ISSN 1995-6029, vol 7, 2012) and has been serving as an Editorial Board Member of repute. Since 2008 she researches in non-edible oil biofuels (Bioethanol and Biodiesel). In 2018, she was a speaker in 6th GPE, Toulouse France and 20th TechConnect California, EUA.

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