

BIODIESEL

Biosustainable energy industry

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What is the project about

The project consists of the manufacture, assembly, tuning and operation of a capacity biodiesel plant 70 thousand tons year, equivalent to 70 million liters annually, this plant will produce biodiesel fuel for high quality diesel engines ready for mixing or use direct, it will also produce 10 million liters of glycerin that will be processed at the same plant to take it to technical quality.

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What is biodiesel

Biodiesel is by definition a bioferous or biofuel liquid produced from vegetable oils and animal fats.

The properties of biodiesel are very similar to those of the oil of fossil origin, in terms of density, number of ketans, efficiency and performance of gasolleos engines (diesel), highlighting that biodiesel has a superior inflammation point.

Therefore, biodiesel can be mixed with the gas oíl in any proportion desired: B5 - B10 - B30 - B50, etc. and even completely replace it: B-100.

The ASTM (American Society for Testing and Standard Material) describes biodiesel as monoalchilic esters of long chain fatty acids, lipid derivatives such as vegetable oils or fat fats, and that can be used in compression ignition engines or "diesel" type engines.

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Environmental benefits

Biofuels are biodegradable, 85% degrades in 28 days, while fossil fuels can last years to degrade.

The generation of energy through biomass does not increase the net emissions of CO₂, since plants absorb the CO₂ generated by the combustion of biofuels.



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Biodiesel

Produce high quality biodiesel complying with international ASTM and NTC standards, from any vegetable oil or available animal fat, export type fuel capable of supplying mixtures B5, B10, B15, B20, B50 and B100, giving Bolivians a friendly fuel With the environment and with the technical requirements that engines require in Bolivian geography, greater ketacht, more efficiency and a low price.



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Glycerin

Byproduct of biodiesel manufacturing, highly quoted by its multiple uses in industries such as food, cosmetics, medications, paintings, etc. With high commercial value.



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Advantages of the Biodiesel Plant

Our biodiesel plant has as more significant advantages the following:

Processes and formulas designed to produce biodiesel with any type of vegetable oil or animal fat (patented formula)

Machinery designed around the formula to function in conditions of different raw materials, reducing processes by one and 60% lower manufacturing times (patented reactor)

Technology tested in three biodiesel plants designed, manufactured and mounted in Colombia, approved by the Ministry of Mines and Energy.

Closed cycle plant without liquid or gaseous discharges, zero environmental, sononic or visual pollution.

Construction process of only one year, key in hand and with staff training.

Employment generation, 30 direct plant jobs are expected to generate, 50 during assembly and more than 2000 indirect during operation.

We can work with any vegetable oil including used kitchen oil.

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Corporate social responsibility

As part of the Corporate Social Responsibility Program, we plan to bring agricultural education to small, medium and large growers to sow oilseeds that we can turn into fuel, guaranteeing the purchase of oil and helping to finance oil extracting plants in the regions. All this without neglecting food crops.

In addition to this we will encourage a useful kitchen oil program in homes, restaurants and industries that will not only allow biodiesel to manufacture, but also, stop contaminating, especially water sources with this type of oil.

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