

Ecodiesel™, Praj's homegrown enzymatic technology, addresses the prevailing challenges in the production of biodiesel by offering flexible feedstock, lower operating cost and higher profit. Ecodiesel™ replaces conventional chemical catalytic methods and meets Indian and European fuel standards.

What is Biodiesel?

Biodiesel is an alternative fuel that comes from 100% renewable resources such as vegetable oil, soybean oil, animal fat or tallow. As a renewable and domestic source of energy, biodiesel can help reduce the dependence on petroleum imports. Biodiesel is not a petroleum product, but can be mixed with petroleum diesel to produce a biodiesel blend that can be used in a variety of vehicles. Biodiesel fuel, can be used in its unaltered form in unmodified diesel engines, making it one of the easiest alternative fuels to use.

Why Biodiesel?

- Biodiesel is safe to handle, store and transport as it is less combustible (flash point 130°C) as compared to petroleum diesel (52°C).
- Currently, India is dependent on importing 83% of petroleum products and targets reducing crude oil import by 10% by FY 2022. Of the total petroleum products consumed, diesel amounts for 39.5%, with demand increasing by 5-6 %.
- Biodiesel produces 703 grams of Co₂ per liter as compared to 3,266 gm per liter produced by petroleum diesel.

- Having committed to reducing greenhouse gas emissions under the United Nations Framework Convention on Climate Change (UNFCCC), biodiesel could reduce CO₂ by 30% by FY2030.
- Biofuel Policy in June 2018 mandates up to 5.0% blending of biodiesel by FY2030.
- Joint venture between oil marketing companies and private producers will ensure bulk supply.
- Mandate by Food Safety and Standards Authority of India (FSSAI) to dispose used cooking oil and convert it into biodiesel.



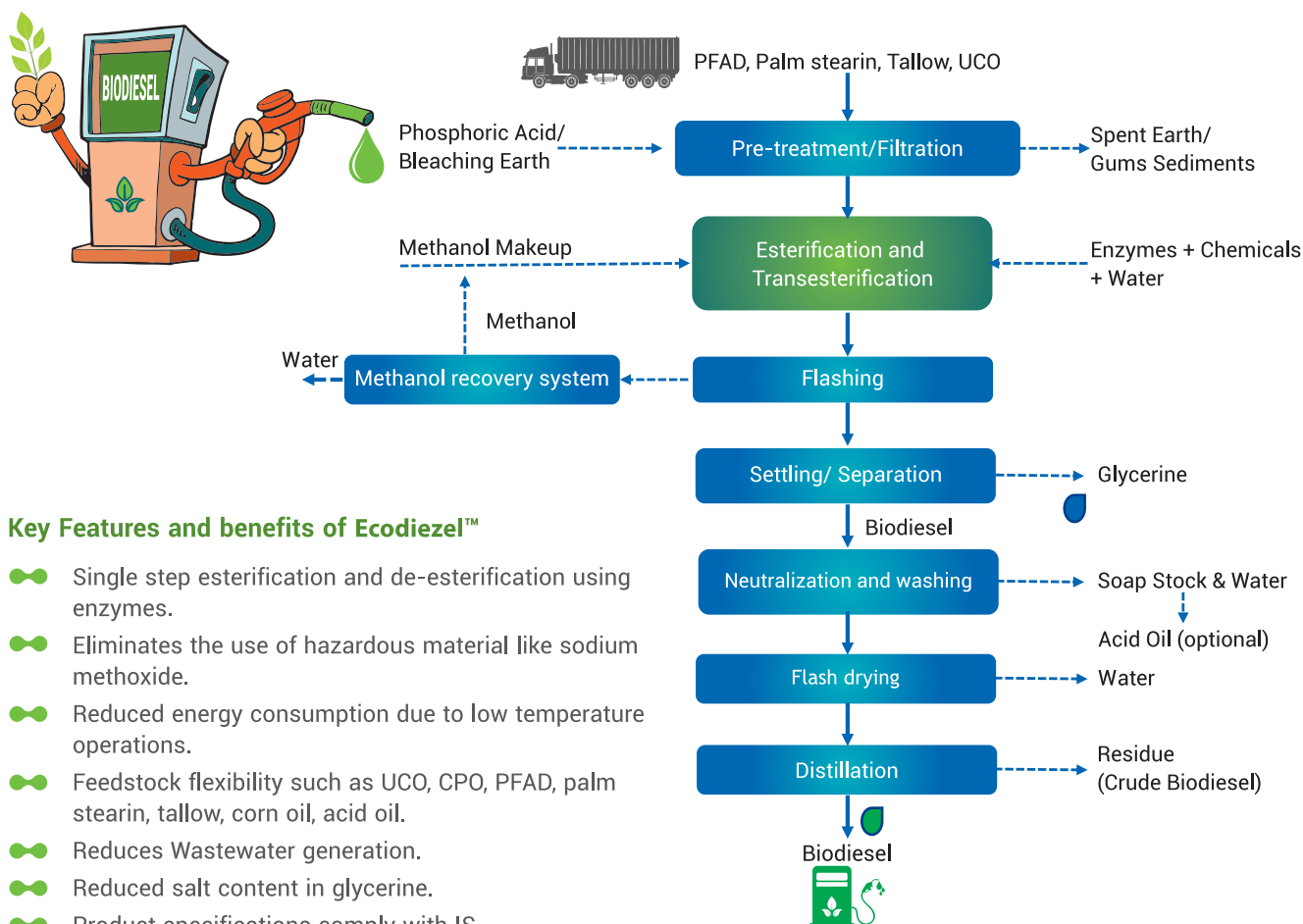
What is Biodiesel?

Praj Industries Limited offers innovative sustainable technologies for biofuels, industrial biotechnology, health and wellness, water and wastewater treatment, biochemical and biopharma. Praj has a global footprint in the bioenergy segment with over 750 customers in 75 countries across 5 continents.

For over three decades, Praj has been developing and deploying

technology process solutions in the bioenergy segment. The company has now moved ahead to launch a best-in-class, eco-friendly sustainable technology to produce biodiesel that meets global standards.

Introducing Ecodiezel™



Key Features and benefits of Ecodiezel™

- Single step esterification and de-esterification using enzymes.
- Eliminates the use of hazardous material like sodium methoxide.
- Reduced energy consumption due to low temperature operations.
- Feedstock flexibility such as UCO, CPO, PFAD, palm stearin, tallow, corn oil, acid oil.
- Reduces Wastewater generation.
- Reduced salt content in glycerine.
- Product specifications comply with IS - 15607:2016/ASTM D6751 / EN 14214.
- Delivery of turnkey process plant in 7-8 months.
- State-of-the-art Praj Matrix R&D centre for feedstock testing and piloting.

Praj Worldwide

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