

BioGTS® BIODIESEL

Value from waste oil

Sustainable BioGTS® Biodiesel can be produced from e.g. biobased waste oils and greases from industry and municipalities, oily fraction separated from biowaste or wastewater, waste from grease traps, greases from animal and fish production, and other biobased oils. BioGTS® Biodiesel can be used as fuel in normal diesel vehicles, for electricity generation and for heating and/or cooling, either 100% or blended with fossil diesel.

BioGTS has developed a new cost-efficient technology for production of biodiesel from waste oils and greases. The BioGTS® Biodiesel technology is based on a cost-efficient modular reactor design, which is easy to scale, install and use, and has low operating costs and zero water consumption.

The BioGTS® Biodiesel production units have short investment payback periods of typically 1-3 years, and the price of biodiesel produced from waste oil is much lower than that of fossil diesel.

Another advantage of the BioGTS® Biodiesel technology is the possibility to utilize also low quality oils/greases as well as raw materials where waste oils/greases are mixed with water: e.g. oily waste from grease traps and wastewater.

- Biodiesel can be used as fuel in normal diesel vehicles and for electricity generation, heating and/or cooling
- Biodiesel is a renewable fuel with 80% lower greenhouse gas emissions and 50% lower particle emissions than with conventional vehicle fuels
- Biodiesel has the same energy content and similar properties as fossil diesel fuel



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BioGTS® Biodiesel Process*

- Cost-efficient reactor structures, low production costs
- Short investment payback period, typically 1-3 years
- High capacity, easy to scale - daily production 2,000-50,000 L biodiesel
- Based on a new biodiesel production method which has low consumption of chemicals and zero water consumption
 - Biodiesel production through the traditional esterification technology consumes 3-4 m³ of clean water per m³ biodiesel produced
- Wide raw material base - Biobased waste oils and greases from food industry, restaurants and municipalities, oily fraction separated from biowaste or wastewater, also waste oils and greases with low quality and/or mixed with water, e.g. oily/greasy waste from grease traps - The traditional esterification technology does not allow for any water within the feedstock

BioGTS® Biodiesel reactor design is based on cost-efficient container-shaped reactors. The compact reactors require little surface area, enable quick “plug-in”-installation and start-up, are easy to scale up and can be inexpensively transported. The process is continuously operated and fully automated.



*International patent pending

Let us help turn your waste into valuable resources



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and energy efficient
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