

The production of bio-diesel



an ideal completion for distilleries



The typical distillery as a campaign company is often less than 6 months per year used to full capacity. The rest of the time, valuable infrastructure and personnel capacity are not used. That's why it is recommendable to take these capacities for a bio-diesel production plant and to achieve a full used capacity all year. The combination of distillery technology, bio-diesel plant and a biogas plant is ideal. In the biogas plant residual substances of the alcohol production as well as all other by-products can be converted into energy in the bio-diesel plant. Thus the production costs can be reduced so that the bio-diesel can be sold competitively on the market.

The production of bio-diesel from vegetable oils is state of technology and the modern diesel engines are able to process this fuel. Required is of course a good quality according to the DIN 51 606. Altogether a great contribution to relieve our environment is the use of bio-diesel as fuel for vehicles. The CO₂-emission at the motor combustion is balance neutral, because the motor exhausts with bio-diesel contain considerable less soot and carcinogenic substances than fossil diesel fuels.

At the same time, agricultural companies secure a lasting income.



Technical data

Suitable oil sorts: Rape
Sun flowers
Used oil (vegetable oil)

With a bio-diesel production with: 1.000 t/a

as by-products arise:
Rape cake 2.200 t/a
Glycerine 200 t/a

Proper consumption for the production: ca. 210.000 kWh_{el}/a
ca. 60.000 kWh_{th}/a

Biogas yield from By-products of the bio-diesel production: > 1.200.000 m³/a
corresponds to: ca. 8.750.000 kWh_{prim}/a
generatable electric power from biogas: ca. 2.710.000 kWh_{el}/a
generatable heat energy from biogas: ca. 4.810.000 kWh_{th}/a

The digested substrate is a great economic fertilizer and be retransferred into the material cycle.



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