

# Short Expose Biomass plant

## 1. Location

The location of the plant will be in Europe or the USA. We receive the property and the building permission from the cities where the plant will be build.

Several cities have already expressed her interest for the preparation of the plant, the position of the property and the granting of the planning and building permission.

We also have the possibility to build such plants at the following locations: Bosnia, Turkey, Macedonia an the U.S.A.

The plant will be handed over after a certification by TÜV-Germany or SGS. These plants can be prepared at any arbitrary location.

## 2. Project description

The plant will be build for the production of nature diesel made of biomass. The advantage against the other existing and further build plants will be that it is a **2nd generation technology** plant.

This means, that our Natural Diesel are **not** produced out of food, like soya, rape etc., because we only use and produce our product from sludge, wood, grass, saw dust etc. We use materials which always must be disposed and which arise again and again.

Unlike the fuel on rape seed oil basis ways produced till now which only can be used as an addition, the won nature diesel is produced after DIN standard Below Expectations 590 and can be used to 100%.

The plant to be prepared is operated completely **self-sufficiently**, i. e. the required energy is produced by the plant itself to the operation of the plant.

## 3. Capital requirements

To build this plant we need an investment of round about **EUR 50 million** per module. All costs for company formation, advocates, tax consultant costs, insurance, commission, provisions, salaries etc. are already contained in this sum.

## 4. Production

The entire plant consisting of one module produces **25 million liters** of nature diesel, **30,000 KW** thermal energy and **1.3 MW** electric energy each and every year.

## 5. Input material

The required input material, e. g. sludge, sawdust etc., was already tested in the laboratory and judged for very suitable.

Possible missing crowds are added by other biological substances, e. g. wood waste. These substances are sufficiently available. A commitment of supply of 10 years is filled here.

## 6. Sales

Selling of the nature diesel to several bulk purchasers (forwarding agency, bus enterprise, the city etc. ) and the delivery of the required material through the town for the production of the nature diesel were already discussed.

## 7. Return

A sales volume results from the operation of the plant of round about **EUR 19 million** per year. The return is approx. **18 %** per year and will increase up to more than **21 %** per year upon receipt of all possible subsidies

The surplus thermal energy (30,000 KM/Y) and electrical energy (1,3 MW/Y) are sold in addition on the market. This will create another increase of the return. Additional subsidies for the reduction of CO2 could be generated to raise the return again.

The return is guaranteed by an insurance company in the case of damage. This insurance is prolonged after 5 years and adapted up due to the increasing fuel prices.

## 8. Cash-Flow in USD in million

year	turnover	costs	6 % / 15 J.	profit before tax	8 % / 15 J.	profit before tax
1	18.750.000	10.000.000	4.340.536	4.409.464	5.270.360	3.479.640
2	18.750.000	10.000.000	4.340.536	4.409.464	5.270.360	3.479.640
3	18.750.000	10.000.000	4.340.536	4.409.464	5.270.360	3.479.640
4	18.750.000	10.000.000	4.340.536	4.409.464	5.270.360	3.479.640
5	18.750.000	10.000.000	4.340.536	4.409.464	5.270.360	3.479.640
6	20.625.000	11.000.000	4.340.536	5.284.464	5.270.360	4.354.640
7	20.625.000	11.000.000	4.340.536	5.284.464	5.270.360	4.354.640
8	20.625.000	11.000.000	4.340.536	5.284.464	5.270.360	4.354.640
9	20.625.000	11.000.000	4.340.536	5.284.464	5.270.360	4.354.640
10	20.625.000	11.000.000	4.340.536	5.284.464	5.270.360	4.354.640
11	22.687.500	12.100.000	4.340.536	6.246.964	5.270.360	5.317.140
12	22.687.500	12.100.000	4.340.536	6.246.964	5.270.360	5.317.140
13	22.687.500	12.100.000	4.340.536	6.246.964	5.270.360	5.317.140
14	22.687.500	12.100.000	4.340.536	6.246.964	5.270.360	5.317.140
15	22.687.500	12.100.000	4.340.536	6.246.964	5.270.360	5.317.140

### interest rates / duration of the loan 15 years

4.340.536                      6% interest rate, including re-payment and a grace period of 2 years  
5.270.360                      8% interest rate, including re-payment and a grace period of 2 years

This chart shows a linear increase of income and costs of round about 10 % every 5 years

## 9. Protection

There is a protection against the plant at operating failures over an insurance policy of the ALLIANZ AG, Germany, see item 7.

## 10. Nature

The plant is planned and will be building for the disposal of biomass waste and to run as a Natural diesel biomass plant.

The plant is operated **exclusively** with waste biomass like sludge, straw, wood, wood scrap, liquid manure, etc.

**No food** is used for the operation of the plant.

The plant is completely operated out of the won energy. She is an energetic self provider from the process.

A reduction of the anthropogenic CO<sub>2</sub> which is given to the atmosphere by approximately **90 % - 100 %**.

## 11. Others

Approximately **35 new jobs** which are safeguarded more than the next **20 years** arise in **addition to the environmental protection** at the location.

By the used initial material this plant also contributes to the reduction of a great nature and waste problem.

This project still contains the following additional guarantees and securities:

- Building completion guarantee
- Yield failure insurance
- Business interruption insurance
- Building interruption insurance
- Machinery breakdown insurance etc.

## Contact Data

Representative for acquisition of investors

Bernhard G. Pfister

ProActive Business Consulting Solutions LLC  
VP - Business Development, Switzerland & France

[www.proactive-bcs.com](http://www.proactive-bcs.com)

[b.pfister@proactive-bcs.com](mailto:b.pfister@proactive-bcs.com)

Phone +41.76.56.18.350