

## Factsheet – Investment in Jatropha on 1000 ha

Basic data of the investment:

(Data based on own cultivation trials and field experiments)

### Object of investment

Direct investment into the development of an integrated Jatropha cultivation project in the tropics targeted at the production of plant oil for the fabrication of globally marketed biofuels as well as locally marketed energy (electricity).

### Type of investment

Direct investment with lease of land and establishment of a Jatropha plantation in connection with a management agreement.

### Minimum investment

The establishment of a Jatropha plantation including the land lease of an area with a minimum size of 1000 ha will cost at least 3 million US dollars.

### Revenues

By selling oil on the global market (1000 USD dollars per ton of oil) and electricity on local markets (10 USD Dollar cents per kWh).

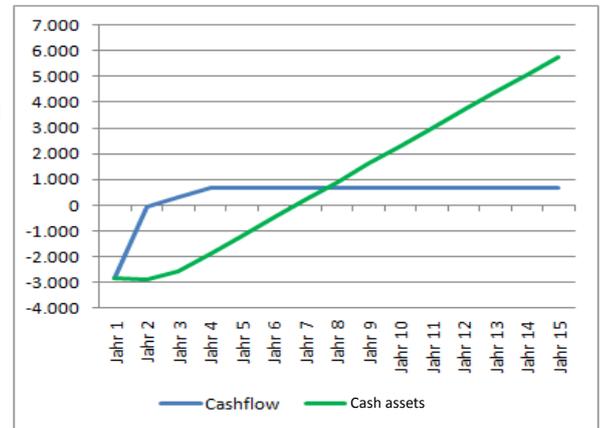
### Yield/Payout

We expect payouts from the 3<sup>rd</sup> project year. Starting with the 4<sup>th</sup> year an annual capital return flow of approx. 670 000 dollars can be expected. With a total project duration of 15 years payout add up to a total of approx. 5.5 million US dollars, resulting in a 15 percent project return (IRR – Internal Rate of Return). The break-even will be achieved in the 3<sup>rd</sup> year, the payback in the 7<sup>th</sup> year.

A further upside potential is the optional trade with CO<sub>2</sub> certificates.

In the medium to long term we expect the utilisation of further side-products (bio pesticides, animal feed, ...) of the Jatropha cultivation, in the development of which the JatroSolutions GmbH is participating with its' research activities.

Cashflow diagram



Cashflow table

1000 USD	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Costs	2.818	560	648	784	784	784	784	784	784	784	784	784	784	784	784
Income	0	479	958	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451
Profit	-2.818	-82	310	667	667	667	667	667	667	667	667	667	667	667	667
Cumulated profit	-2.818	-2.900	-2.590	-1.923	-1.256	-588	79	746	1.414	2.081	2.748	3.415	4.083	4.750	5.417

Break-Even

Payback

### Duration of investment

The project has a minimum duration of 15 years.

### Risk assessment

#### Chances

#### Risks

Expected rise of oil price	Political changes in developing countries
Climate and environmental politics (CO <sub>2</sub> trade)	Weather and forces of nature
Further side-products of Jatropha cultivation	