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## Peru: Natural Plant Oil Production in Ucayali

Datum: 17.03.2009

Projec number	PSOM08/PE/01
Locatio	Campo Verde in the province of Ucayali Peru
Secto	Bio Energy
Applican	<b>Bioshape</b> Holding B.V., Neer
Recipien	VWP-Latinoamerica S.A.C., Lima
Start projec	01 July 2008
End projec	30 June 2011
<b>Total budge</b>	<b>EUR 1,457,300 (50 percent PSOM contribution)</b>

### Summary

**BioShape** Holding B.V. in Neer, has concessions for the construction of several powerplants, and is developing the large scale production of biofuels to operate these plants.

Vereinigde Werkstätten Fur Pflanzenöltechnologie Latinoamerica S.A.C. (VWP) has been involved in the development of natural plant oil (NPO) as a fuel, and the installation of conversion kits for diesel engines, since it started operations three years ago. They have been producing Jatropha oil on 60 hectares in northern Peru, San Martin department, and have converted thirty buses in Lima as a pilot.

Peru has implemented legislation that will make obligatory, from 2009 onwards, to blend a minimum of 2.5 percent of bio diesel into the natural (fossil) diesel fuel. This will require large volumes of plant oils on a very short term, to supply the biodiesel production industry. Besides, an experiment with city buses in Lima has been successful, and has generated a strong demand for NPO as well as for conversion kits.

Therefore, project partners have the intention to start a pilot Natural Plant Oil production chain in Peru, based on the plantation of 500 hectares of Jatropha and 250 hectares of Sunflower, coupled to a processing facility with a capacity of 450,000 litres NPO per year. In addition, another 100 hectares will be planted with Jatropha or Sunflower, in cooperation with small farmers in the region, laying the foundations for a further extension in the follow up fase. Peru has vast areas of land that can be used for biomass cultivation. This should ultimately result in some 20,000 hectares of Jatropha plantations in the region, of which the applicant will be importing the Jatropha seeds to process in the Netherlands.

### Results

- > Project inception, joint venture establishment;
- > Establishment of Jatropha and Sunflower plantations;
- > Processing facility, with pressing mills, filter installations and storage realised;
- > Commercial operation started, fifty buses converted, Marketing Strategy finalised, knowhow transfer to bus companies in Lima;
- > Cramer certification initiated.

### Development effects

- o knowledge transfer Introduction of knowledge and new technology in the field of: direct seed technology, setting up of nurseries, Jatropha crop cultivation, decentralised NPO production, ecological and sustainable production of Jatropha and Sunflower seeds, diesel engine retrofitting in order to

	use NPO as fuel.
o employment	Direct employment generated by the project is estimated to be 100 FTE for operating the processing plant and maintaining the plantations at the end of the pilot, increasing to 150 two years later.
on impact environmen	<p>The impact of the project on the environment will be positive. The NPO from Jatropha and Sunflower is CO<sub>2</sub> neutral and it does not contain sulphur. The emissions of particles from NPO is 50 percent lower compared to diesel fuel.</p> <p>As the project will generate income for poor farmers there, it eliminates the need to cut and sell tropical trees for extra income. The plantation of Jatropha trees will prevent erosion and will absorb CO<sub>2</sub>.</p>
on chai	<p>The project involves five local communities of small farmers, who will grow Jatropha as a side crop. These communities will receive the Jatropha seed, receive instruction and training how to plant and maintain the plants. Farmers who decide to grow sunflowers (as intercropping) will be able to sell their sunflower seeds to the joint venture, but this culture will not be stimulated, as Jatropha has a larger yield.</p> <p>About 200 indirect jobs will be created for the harvesting of the Jatropha seeds.</p>
on wome	Harvesting of Jatropha seeds will be done by men and women indiscriminately, therefore about 50 percent of the positions in harvesting and in the processing plant will be held by women.

#### Contact

For contact information see our [list of project officers](#).

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Trefwoorden: [Bio-energie](#) - [Financiële ondersteuning](#) - [Praktijkvoorbeelden](#) - [PSOM](#) - [Peru](#)

