

References of JatroSolutions GmbH – Studies & Projects

Feasibility Study for Jatropha in Benin (Programme ProSOL)

Customer GIZ
Field Jatropha Cultivation, Processing and Commercialisation for small scale farmers in degraded land areas
Period 2015 - 2016
Country Rep. Benin (West Africa)

Research and Demonstration Project: *Jatropha curcas* cultivation on degraded land in Madagascar – break even phase

Customer EnBW
Field Jatropha Cultivation, Processing and Commercialisation
Period 2015 - 2018
Country Madagascar

Pre-Feasibility study and project proposal in Oman

Customer German and Omani Investor
Field Jatropha Cultivation under hot, dry and saline conditions
Period 2015
Country Oman

Preliminary Climatic Site Evaluation

Customer T.B.S. – Technisches Büro Scharff
GEA Timber Philippines
Bernd Schmidt AG
Field Agronomic Consultancy
Period 2014 - 2015
Country Benin, Morocco, Mozambique, Philippines and Turkey

Pre-Feasibility study and project proposal in Iran

Customer International Investor
Field Cultivation of edible and non-edible jatropha cultivars in the desert
Period 2015
Country Iran

„Economic potential of *Jatropha curcas* cultivation and potential limitations - Analyses of different scenarios in three African countries“

Customer EnBW
Field Agronomic consultancy, economic analyses
Period 2014 - 2015
Country Madagascar, Ghana, Cameroon

Development of selection criteria for Jatropha plantation sites based on environmental, economic and social factors

Customer German Investor
Field Agronomic Consultancy
Period 2014
Country Ghana, Madagascar, Togo

Bio energy project 'Jatropha cultivation on degraded soil in Madagascar' - reduction of greenhouse gas and production of biofuel for local use

Customer EnBW AG
Field Jatropha cultivation on degraded soil, reduction of greenhouse gas emissions, land reclamation and erosion control, biofuel production for local use
Period July 2007 – December 2014

Aireg - Aviation Initiative for Renewable Energy in Germany e.V.

Cooperation partners Network of aviation participants
Field Alternative fuels for aviation; Supply of feedstock
Period Since June 2011
Countries Germany, Europe
Country (Region) Argentina (Formosa)

Soap production with Jatropha oil – ,PURE Jatropha Soap'

Customer Own project
Field Utilization of Jatropha oil, Recognition and homologation method completed
Period 2011/2012
Country Germany
Country Madagascar

Establishment of Jatropha curcas field experiments in Argentina (5ha)

Cooperation partner Patagonia Bioenergias S.A.
Field Agronomic Consultancy, Breeding
Period 2010 - 2012

Cultivation of Jatropha curcas in Paraguay and establishment of a breeding station in Volendam

Customer German Investor
Field Agronomic Consultancy, Breeding
Period 2009 - 2011
Countries Paraguay, Mexico

Feasibility study: Jatropha Perspectives for Malta – Research & Development of commercial opportunities for Gozo Island

Customer German Investor
Field Agronomic Consultancy
Period 2008
Country (Region) Malta (Gozo Island)

Feasibility study: Jatropha curcas Perspectives for Nosibe – Bioenergy and Food Production for Nosibe Island

Customer German Investor
Field Agronomic Consultancy
Period 2008 - 2009
Country (Region) Madagascar (Nosibe)

Pre-Feasibility study and Project Development study: Jatropha curcas in Burkina Faso

Customer German Investor
Field Agronomic Consultancy
Period 2008
Country Burkina Faso

Feasibility study (with soil analysis, watershed management, and agricultural cultivation advice) for the cultivation of Jatropha curcas in Vichada, Colombia

Customer AGROENHSA/Biojatros
Field Agronomic Consultancy
Period 2007- 2009
Country Colombia

Pre-Feasibility study: preliminary evaluation of the technical and economic feasibility of bio-fuel from Jatropha in Abu-Dhabi

Customer MASDAR / Fichtner GmbH
Field Jatropha cultivation on degraded soil, irrigation with well-water of high salinity
Period 2007
Country (Region) United Arab Emirates (Emirate Abu Dhabi)

Accompanying Advisory Services

Agricultural potential of bioenergy production in Peru – with special focus on impact on smallholder using Jatropha curcas

Customer GIZ
Field Socio-economic Study
Period 2008-2009
Country Peru

Biological Asset Evaluation - Agricultural and economic potential of bioenergy production in Ghana using *Jatropha curcas*

Customer Galten Ghana
Field Economic and Agronomic Modelling
Period Since 2008
Country Ghana

Research projects

Development of low-cost animal feed for tropical Aquaculture for local/regional markets – TP3

Customer Own project, sponsored by the Federal Office for Agriculture and Food (BLE) in the framework of the program for innovation promotion, sector aquaculture.
Reference number (FKZ): 313-06.01-28-1
Cooperation Partners JatroSolutions GmbH
Johann Heinrich von Thünen Institut, Spezialfuttermittelwerk Beeskow GmbH
Field research and development; Fish for Food; agricultural land use, animal feed production, food security Africa
Period 2012 - 2015
Countries Philippines, Germany

Collaboration Project: Integrated process of dehulling, deshelling, oil extraction and detoxification for a more efficient production of high-quality protein feed and plant oil of *Jatropha curcas* L.

Customer Own project, sponsored by the Federal Ministry of Education and Research (BMBF) in the framework of the program 'KMU-innovativ' and supported by the Project Management Jülich (PtJ).
Reference number (FKZ): 033R069A
Cooperation partners JatroSolutions GmbH
Pilot Pflanzenöltechnologie Magdeburg e.V.(PPM) Hohenheim University (Institute 440e)
Field research and development; JatroilPROTEIN; resource efficiency, agricultural engineering, processing and production, product development, phorbol ester biopesticide, plant oil, biofuel, animal feed, fuel pellets
Period 2012 – 2014
Countries Germany and Madagascar

Jatropha curcas – Worldwide program for plant breeding and agronomic optimization in the tropics/subtropics

Customer	Own Project (subsidiary JatroSelect GmbH)
Field	Breeding of <i>Jatropha curcas</i> ; agronomic consultancy; high-yielding superior cultivars
Period	Since 2009 (ongoing)
Country (Regions)	Madagascar (Fenoarivo, Tulear, Ihosy) India (Pune, Chaswad, Lakkihalli) Cameroon (Batchenga, Ngaoundal, Goudougou) Paraguay (Volendam, Loma Plata, Villa Rosario) Argentina (Formosa)

Economic potential of *Jatropha curcas* cultivation for recultivation of degraded former primary forest soils and for combating soil erosion in Madagascar – a multiple scientific analysis

Customer	Own project of Hohenheim University, Germany, sponsored by the EnBW Regenwaldstiftung and the Stiftung Energieforschung Baden-Württemberg and supported by JatroSolutions GmbH
Field	Research; flowering and fruit physiology, water consumption and water use efficiency, erosion reduction potential, influence of cultivation methods on seed yield, socio-economic analyses
Period	2008 - 2011
Country	Germany and Madagascar

***Jatropha curcas* as raw material resource: Establishment as a plantation plant, Selection and replication of high performance clones**

Our part: Selection of ideotypes as well as validation of characteristics of descendants from in vitro-cultivation of *Jatropha curcas* in field trials

Customer	Own project, sponsored by the Federal Ministry of Economics and Technology (BMWi) and supported by the German Federation of Industrial Research Associations (AIF) Reference number (FKZ): KU048590
Cooperation partners	JatroSolutions GmbH Symbiosa GmbH
Field	Research; in-vitro cultivation, plant selection
Period	2007 - 2010
Countries	Germany, Mexico, Laos