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your email Go	By Keya Acharya*						News on Sustainable Development - IPS/IFEJ
- Global Affairs - Africa - Asia-Pacific	ZAHEERABAD, Andhra Pradesh , Mar 3 (IPS/IFEJ) - A cactus-like plant spread over acres of red, laterite soils in the Tree Oils research farm, in this arid part of southern India, is at the centre of huge divisions over India's ambitious biofuel programme.						<ul> <li>News on Sustainable</li> <li>Development - IPS/IFEJ</li> <li>ECONOMY-INDIA: Spiralling Oil</li> <li>Prices Compel New Look at Bio-</li> </ul>
Afghanistan Iran - <b>Caribbean</b> Haiti	One group of biofuel percent oil, will provi and jatropha's need	fuels ► CLIMATE CHANGE: Biofuels Worse Than Fossil Fuels, Studies Find					
Union in Diversity - Latin America - Mideast & Mediterranean Iraq Israel/Palestine - North America	With a projected gro much of which it car energy experts. The tonnes(mt) in 2000-C dependency on oil in	RELATED WEB SITES  Alliance of Communicators for Sustainable Development GRAIN					
Neo-Cons Bush's Legacy	"Given our limited reserves, our present known stocks may not last even 10 years at the current consumption rate," says the ministry of petroleum and natural gas on its website.						IPS is not responsible for the content of external sites
- <b>Development</b> MDGs City Voices	So far, sugarcane growing states have been unable to even meet the current policy of 10 percent blending of sugarcane-ethanol into petroleum. Despite the threat of food crops being diverted for biofuels, jatropha plantations are seen as the next big step in solving India's energy dilemma.						RELATED TOPICS  Asia-Pacific Human Rights Development Facility
Corruption - Civil Society - Globalisation	But confusion prevails in India - one of the world's major farming countries - over the large-scale planting of jatropha and other biofuel crops.					<ul> <li>Environment</li> <li>Reporters on the Frontline of Environment</li> </ul>	
- Environment Energy Crunch Climate Change Tierramérica	The divisions over jatropha stem largely from a now highly-criticised report by India's Planning Commission in 2003 that encouraged industry with offers of land and tax incentives to adopt jatropha cultivation.					<ul> <li>One Planet - 1.4 Million Species</li> <li>Reporters on the Frontline of Environment</li> </ul>	
- Human Rights - Health HIV/AIDS	State governments were encouraged to get farmers to grow jatropha, but without first carrying out sufficient feasibility studies.						<ul> <li>Energy Crunch</li> <li>investing in Agriculture</li> </ul>
- Indigenous Peoples - Economy & Trade - Labour - Population Reproductive Rights	Citing energy security, employment generation and sustainable development as key motives for large-scale jatropha cultivation, the report predicted 127.6 million days of employment in plantations alone by 2007 which has not happened.						<b>Obama:</b> A New Era?
Migration&Refugees - Arts & Entertainment - Education	In 2008, the government expected 11 million ha of plantations on the country's degraded lands, aiming to blend 20 percent biodiesel into diesel supplies by 2010.						Financial
- ExPress Freedom - Columns - In Focus	The consequence of this has been large scale ventures into jatropha plantations in at least ten states of India, with a confusing array of mixed reports from the field.					Meltdown	
- Readers' Opinions - Email News	There are also reports of misuse of non-operative oil-expelling plants availing the government tax rebates to write off expenses in their other operations.				MOST POPULAR  RUSSIA: Problems Rise With Falling Oil Bridge		
What is RSS?	In Chhattisgarh, central India, government partnerships with industry covered 1.6 million ha of 'fallow' lands with approximately 290 million jatropha saplings in 2005-06. Less than half have survived and oil-producing units are now scrounging for seeds. Similar schemes and large plantations have also been set up in the major states of Rajasthan, Uttarakhand, Gujarat, Madhya Pradesh and Tamilnadu with mixed success.						WORLD: No Quick Fix for Malnutrition and Hunger MIDEAST: Rice Is Aid, Pasta Not POLITICS: Dutch Foe of Islam Ignores US Allies' Far Right Ties RIGHTS-SRI LANKA: India Can Help End Civ Ilian Killings
ENGLISH ESPAÑOL FRANÇAIS							
ARABIC DEUTSCH ITALIANO	In Rajasthan's Udaip toxic leaves of the pl US cents) each and	ur district farmers beca ant. "We were encoura extolled the virtues of j	ame hostile to jatropha after seeing their cattle die from eating the aged to grow jatropha by agents who sold us saplings at Rs ten (five jatropha," Sukh Ram, a farmer, told IPS.				
JAPANESE NEDERLANDS PORTUGUÊS SUOMI SVENSKA	"We were told that jatropha, being unpalatable to cattle, the saplings would stay safe. But no one told us what would happen to the cattle," said Sukh Ram. "In the end, we not only lost what we paid for the saplings but also possible earnings from three hectares of land, three years in a row. We are not prepared to take such risks again."						ETHIOPIA: Russian Business to Showcase Goods at Addis Ababa Fair RIGHTS: Britain Admits Complicity in U.S. Rendition ENVIRONMENTJAPAN: Jail For Nailing Scientific Whaling Lies?
SWAHILI         Non-governmental organisations, such as Genetic Resource Action International, have warned danger lies in local communities getting marginalised by the policy of state governments, hand of land to industry for growing jatropha.							International sectors
	With easy acquisitio loom large over India	n of government lands, 's biofuel programme.	questions over misu	se of land, finance	s and long-term s	oil impact	
	The total financial lay approximately 303 m 19.38 million dollars	yout for jatropha schem nillion dollars for planta as government loans t	nes has not been stud tions and extractions o industry till 2007. B	died yet. The Plan , about 9.7 million ut in spite of the fi	ning Commission dollars as subsid nancial backing a	estimated y and another nd the hoopla	

## **ENERGY-INDIA: Biofuelling Confusion**

around jatropha, the plant's behaviour and productivity remain unknown quantities.

An integrated mix of indigenous oil-bearing species with multiple benefits such as neem and pongamia are now working out as better bets for trying to produce biofuel.

"We are better off with growing 'pongamia' (Indian beech tree used since ancient times by villagers for lamp oil)," says Y. B. Ramakrishna, chairman of the task force on biofuels set up by the government of southern Karnataka state.

Karnataka, says Ramakrishna, is the only state in the country that has involved village communities that get 20 percent usufruct rights to grow these mixed species on government drylands.

" We [Karnataka] are a role model for the country, others are watching us," says Ramakrishna.

In Zaheerabad, the Tree Oils farm has 40 acres of jatropha curcas, 60 acres of pongamia pinnata, and 20 acres of neem (Azadirachta indica), simaruba glauca, castor and other oil-bearing species. Three types of biocomposting pits sit at the farm's centre.

"Our experimentation with jatropha shows us that it is unsuitable for Indian small farmers due to its need for watering, manuring and its long gestation period," says Srinivas Ghatty of Tree Oils.

And yet, jatropha cannot be thrown out along with the bathwater in India. Some say it will work.

"We have shown so far that organic manuring, average watering and interspersing jatropha with nitrogen-fixing crops produces the best results for both jatropha and the soils," says Ghatty.

The New Delhi-based The Energy Research Institute (TERI), working in a partnership with British Petroleum on 8,000 hectares in Andhra Pradesh, advocates growing jatropha in an integrated manner with other crops in the field. "We are developing in a scientific fashion, taking advantage of good natural resource management and a buy-back guarantee system with local farmers," says Alok Adholeya, director of biotechnology and management of bioresources at TERI.

Viren Lobo, director for the Society for Promotion of Wastelands, a government-funded organisation, also based in New Delhi, says jatropha plantations need to incorporate "questions of livelihood, food, fodder, energy and biodiversity security."

Meanwhile, TERI's Adholeya agrees that there are 'fly by night' industries that are cashing in on the government's bonanza of land, tax rebates and the possibility of earning money through carbon sequestration under the United Nation's Clean Development Mechanism (CDM).

But that area too is hazy, and not just in India. The spacing, height and pruning needed for commercialised jatropha bushes do not give sufficient density or biomass for effective sequestration.

Like Ramakrisha, Adholyeya too believes in "multiple feedstock," which means looking at several promising crops rather than being fixated on jatropha - which is not native to this country. "There are local candidates such as mahua, neem, rice-bran oil, palm oil and a dozen other species with proven suitability to this country's agroclimatic conditions," he pointed out.

In the field of oil-operations though some success is being reported. The Karnataka government's public transportation system is India's first successful CDM venture, where 2,500 buses are running on biofuel from pongamia oil.

"If the common man is to use biofuels, then we need support from the manufacturers," says Anand Rao, head of environment at the public-sector Karnataka State Road Transport Corporation. Manufacturers, he said, are unwilling to extend the guarantee on buses running on biodiesels.

Biofuel usage for the common man also depends on the 'oil lobby,' a worldwide phenomenon.

A senior official in the petroleum industry in India, on condition of anonymity, agreed it was a commonplace that there is stiff resistance against any substitute.

## (END/2009)



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