Reliance's new biofuel business model to provide fuel with food

The firm says it is testing inter-cropping of non-edible fuel crops. along with a diverse set of food crops

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he global food versus fuel debate will be rendered irrelevant by its biofuel business model, claims Reliance Life Sciences or RLS.

sense that it reverses the whole argument of fuel versus food, which the Western world is the promotion of food intercrops," says K.V. Subramaniam. CEO and president of RLS. part of the Mukesh Ambaniled Reliance Industries Ltd or RIL group. The company says it is currently testing intercropping of jatropha and pongamia (non-edible fuel crops) along with a diverse set of food crops including corn, mango, medicinal plants and vegetables in its research and devel-Baruch, Gujarat, and Nagothane in Raigad, Maharashtra.

"It's good that big compa-Ghosh, director of Central Salt and Marine Chemicals Re-

though there is no scientific evidence for this, he says. Ghosh's lab pioneered jatropha research in India and is currently developing a "solid jatropha model" with General Motors Corp.

The Reliance group may have scaled down its domestic petroleum retail business but it is ensuring its biofuel reach continues. "The biofuels initiative of Reliance has the larger objectives of contributing to India's energy security and putting purchasing power in the hands of millions of farm-"Our model is unique in the ers in India," says Mukesh Ambani, chairman and managing director of RIL in a statement.

On the seeds front, RLS says currently battling with, (as it it is developing hybrid varietleads) to fuel with food, with ies of biofuels that will double the yield under irrigated conditions, which currently hovers around 10 tonnes a hectare. "We are not there yet but will arrive in a year," says Subramaniam. The company believes its existing tissue culture business will help its cause. Besides jatropha and pongamia, RLS is also working on simarouba and jojoba plants.

At the farm level, RLS has alliances with farmers in opment farms at Gandhar in Andhra Pradesh, Maharashtra, Madhya Pradesh and Gujarat, to build clusters of 100,000 feeding nies do intercropping and lead 100,000-tonne biofuel extracby example," says Pushpito K. tion plants. To begin with, it has signed agreements with 1,200 farmers with one- and search Institute in Bhavnagar, two-year-old jatropha planta-Gujarat. However, there's tion on 2,200 acres of wastesome concern about jatropha's land in Nizamabad, Andhra toxicity affecting food crops, Pradesh. The coordinator in



Aiming high: CEO of Reliance Life Sciences, K.V. Subramaniam.

the tripartite agreement is GRAM Abhudaya Mandali, a local non-governmental organization.

"Reliance has agreed to buy back seeds at Rs5-6 a kg, which the rubber will meet the road is the prevailing price for seeds for commercial extraction," says N. Samson, director of GRAM. At Kahmmam, says Samson, another NGO called Active (Action for Collective Tribal Improvement and Vocational Education) is signing up 5,000 acres in cultivation for RLS, which has set up a pilot dia, be it flexi or fixed. Whethplant for biodiesel in Kakina-

Elsewhere, others are following similar ambitions. Bharat Petroleum Corp. Ltd, in equal equity partnership with biotechnology company Nandan Biomatrix Ltd, and construction company Shapoorii Pallonji Co. Ltd, set up Bharat

Renewable Energy Ltd, or Brel, in June. Brel aims to bring 1 million acres under jatropha acreage in Uttar Pradesh, creating one million jobs and producing 1 million tonnes of biodiesel. "The biggest challenge in this business is of scalability; even a 2.5% blend (with fuel used in the country) will require huge cultivation," says C.S. Jadhav, director, marketing at Nandan in Hyderabad. Brel is working with the Uttar Pradesh panchayats, which are often the custodians of wastelands, to identify farmers for Jatropha cultivation.

Since Brel involves the state government, its CEO, A.K. Bansal believes this model is more sustainable than others as the government will fund it under the National Rural Employment Guarantee Scheme. As even good plantations take two-three years to yield seeds, when some of these programmes gain commercial scale and when the biofuel policy, due to be announced by September, is in place.

Today, there's no clarity on either of the two key drivers-price and market. "There is no indicative market in Iner it is 0.5% or 5%, let the blend be mandated by the government," says Suprotim Ganguly, deputy director, biofuels and energy efficiency, Confederation of Indian Industry.

CII is lobbying the government for a price higher than the existing Rs 26.50/litre of biodiesel.