



# Charoen Pokphand Foods Plc.

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## CPF, Gunkul unite for solar

Bangkok Post , July 5 2018



Charoen Pokphand Foods Plc (CPF) has reached an agreement with Gunkul Engineering Plc to install CPF's largest solar rooftop project to date, with total capacity of 40 megawatts.

The companies signed a memorandum of cooperation (MoC) to install solar rooftops at CPF manufacturing plants as part of the food conglomerate's energy-saving and self-reliance plan.

So far, the company has reduced greenhouse gas (GHG) emissions by more than 79,000 tonnes of CO2 equivalent, similar to planting 4 million teak trees. The solar rooftop project will enable CPF to reduce GHG emissions by 28,000 tonnes of CO2 equivalent per year.

"Using clean energy, like solar power generation, is a strategic move that will promote CPF's sustainable growth on the global stage. CPF is looking forward to implementing new eco-friendly energy sources to achieve its sustainable growth goals," said Sukhawat Dansersuk, chief executive of CPF's food business.

Gunkul has 36 years of experience in renewable energy and solar power plants. The company's business generates more than 300MW of solar grounds and solar roofs.

The MoC with CPF includes the installation of solar rooftops for 34 projects with 40MW. This cooperation will mark an important step in proving that solar energy can be used commercially in the industry, said Mr Sukhawat.

The solar rooftop project will take the form of a power purchase agreement valued at 1.4 billion baht. Under the terms of the agreement, Gunkul will pay for the entirety of the project's design, construction and system maintenance throughout the duration of the 15-year contract.

Construction will include 120,000 solar cells on roofs covering four business units: livestock, aquaculture, food processing and ready-to-eat meal plants, with a total instalment area of 230,000 square metres.

CPF is committed to conducting a sustainable business with environmentally safe policies in accordance with the UN's sustainable development goals, he said.



## **CP eyes west coast India aqua feed mill after Gujarat shrimp contract packing expansion**

*UndercurrentNews July 10, 2018*

Charoen Pokphand Foods (CP Foods) is planning to build an aqua feed mill on India's west coast, where it is now processing shrimp in its second leased plant in the country.

Thai agribusiness giant CP Foods, part of \$45 billion-turnover conglomerate CP Group, is processing shrimp in a plant in Gujarat, which is owned by a partner in the country, said Sujint Thammasart, chief operating officer for aquaculture with the company, in an interview in the company's Bangkok headquarters.

The company has been using a similar model of working with a plant to process shrimp in a plant in Andhra Pradesh, the main farming state in India, for a few years now, as first reported by Undercurrent News.

CP Foods does not own the factories but has "a team for sourcing the raw material and a team to control the QC in the plants, then we sell", said Thammasart. This year, the company started up in Gujarat. "We joined with one of our agents, they have a processing plant. We asked them to process for us," Thammasart told Undercurrent.

"In Gujarat, they (Indian shrimp farmers) are increasing production."

The company has a chicken feed mill in the state, but nothing currently for aquaculture in Gujarat or the west coast, in general.

"We plan to build a feed mill over there, so we can supply in the local market. We will join with a chicken feed mill in the same area. Now, we still ship from the east," he said.

The plan is for the aqua mill to produce around 5,000 metric tons of feed month. Thammasart did not reveal a timeline on when the company plans to start building, however. On the east coast, CP Foods' aqua feed mills produce around 550,000t a year, he said.

Also, the company is mulling building its own processing plant in India. Thai Union Group has partnered with Avanti Feeds, a competitor of CP Foods on the feed side in India, on a factory that opened last year.

"In India, the next step is a new plant. Maybe we will consider building our own. At this moment, we are joined with our partner, our agent," he said.

The partner is a feed agent, which Thammasart did not name.

"They also have farms, a hatchery, and a processing plant. They are totally integrated," he said.

So, the shrimp is processed in the plants, and then sold via CP Foods' network, he said.

In India, CP Foods is farming a small volume of shrimp, only around 1,000t, due to the difficulty in acquiring land as a foreigner.

"In India, buying land is very difficult. Getting one piece of land takes many years. So, we are doing demo farms, to show our technology to Indian farmers," said Thammasart.

"We have good technology for hatcheries, which do not use much land," he said. So, the company is producing "good quality fry" and then showing farmers in India how to grow them out, on demonstration farms. "We supply them with good quality fry and feed, then help them farm."

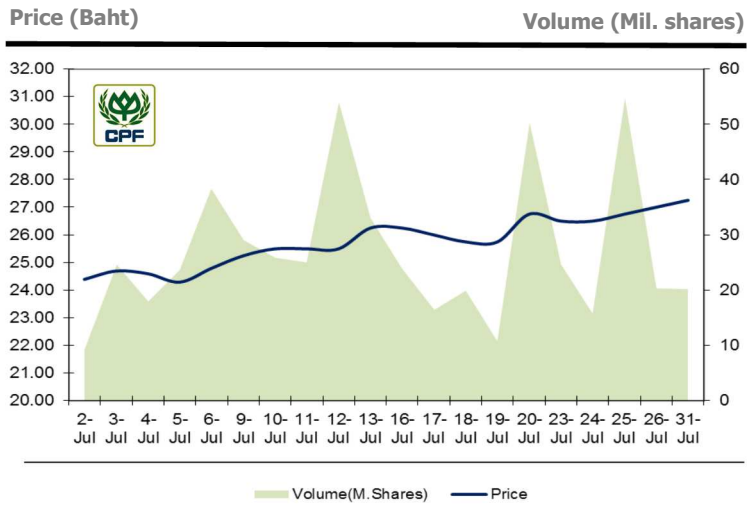
In Vietnam, buying land is easier, so the company is farming more. "Land is more available, for a foreigner. If I want to get land, the government support us."

The company is farming around 5,000-6,000t a year in Vietnam, which is a suitable volume for its plant in Hue, he said.

Indoor processing, we produce around 5,000t. In India, the land is very difficult. Getting one piece of land takes many years. No way to farm. We are doing demo farms, to show our technology to Indian farmers. We produce only 1,000t.

In Thailand, Thammasart told Undercurrent the company is growing larger vannamei, as well as looking to return to black tiger aquaculture, to feed demand in China.

## Price Performances: CPF



July 2018	
<b>Highest Price</b>	<b>27.25</b>
<b>Lowest Price</b>	<b>24.10</b>
<b>Closed Price</b>	<b>27.25</b>
<b>Average Volume/Day (Shares)</b>	<b>26,880,000</b>

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