



PRISMA



Field and
Farmer
Stories

Dairy

Being milked dry by foot- and-mouth disease

Concentrate feed helping the dairy sector recover

PRISMA is partnering with animal feed company, Nufeed to expand the use of quality animal feed into new areas. As a result of the partnership, Nufeed has expanded from a pilot area of 4 districts in Central Java to 50 districts in Central, East, and West Java. Total sales for Nufeed almost doubled during the partnership period.

Average milk production has increased from 9 to 13 litres per cow per day (a 30% increase) and the incremental income increase for farmers using Nufeed is from IDR 3.3m per month to IDR 5.7m.



Kementerian PPN/
Bappenas



Australian Government



Ibu Surani, dairy farmer, Sengon village.

Surani's life took a turn during infancy when her father passed away. The 75-year-old grandmother of 7 recalls being in 2nd grade at primary school when she was sent to Salatiga to work as a housemaid for a merchant family.

Surani's only surviving sister went to Semarang to work as a restaurant hand. Her 4 other siblings died when they were young and before she was born.

Surani's mother was a farmer from Sengon village, where she raised dairy cows before her death last year. Surani married and had twin girls, but when her husband died early in their marriage, she returned to Sengon village to farm with her mother. Surani lives in a modest single-room house with a galley kitchen and a cow stable connected to the back of the house.

Surani apologises for her simple surroundings but is proud of the house her childhood employer built for her and her mother. Surani is equally proud of her dairy cows. She says they are like part of the family. Before the FMD outbreak in Sengon village in May of 2022, Surani had 5 cows and one bull. She fed her cows concentrate feed and forage, but the commercial concentrate was designed for beef, not dairy cattle. On that feed regime, Surani's cows only achieved, on average, 10 litres of milk a day, and at the peak lactation period, 18 litres of milk per day.

Surani got her feed from the local agri-kiosk run by Suwarno. Surani received information from Suwarno about a specifically formulated concentrate for dairy cows made by Nufeed.

Suwarno was selling trial packs of the feed, so Surani decided to try the sample pack. Within one month, Surani noticed a difference in milk production. After using Nufeed dairy concentrate, Surani's cows produced 15 litres of milk per day and 26 litres during peak lactation. "The milk was much better quality," says Surani, "you could tell by just tasting it."

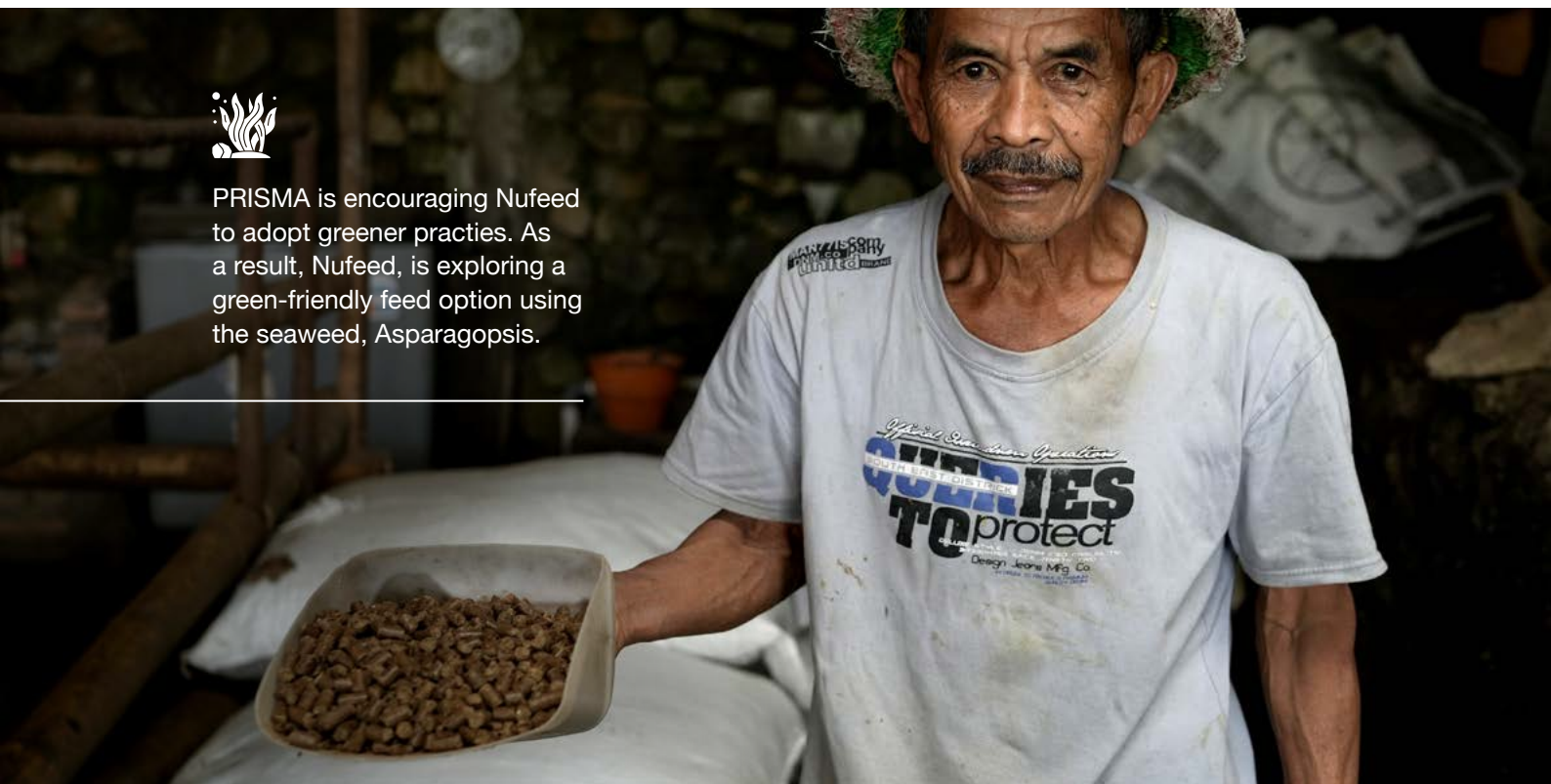
Even though the improved quality did not translate to an increased price from her milk collector, Surani received more income because she produced much more milk. "Even though I pay more for Nufeed, at the end of the day, I still have more money in my pocket," says Surani.



I don't want people to think I am big-headed but when they ask me why my cows look so good, I tell them to get Nufeed from the kiosk



PRISMA is encouraging Nufeed to adopt greener practices. As a result, Nufeed is exploring a green-friendly feed option using the seaweed, *Asparagopsis*.



Surani uses her increased income from improved milk production to rebuild her dairy herd. "All my cows were affected by FMD," says Surani. "Two milk-giving cows had to be sold for meat to the local market because they were too sick to stand. I got almost nothing for the meat", says Surani. "I got IDR8 million (AUD800) for the big one and IDR4 million (AUD400) for the other small one. Before

FMD, I wouldn't have sold them for less than IDR50 million (AUD5,000)."

The third beast, her bull, Surani, luckily sold during the religious festival of Idul Adha before FMD hit her village.

Surani's 3 remaining cattle survived the FMD outbreak, and her one milk-giving cow has just given birth, giving her 3

cows and one bull. While FMD has affected milk production significantly, Surani continues to give Nufeed to her milk-giving cow.

"Even though it costs me IDR1 million a month, I still give my cow 4 kilograms of feed daily along with rice bran, cassava, and forage. The Nufeed keeps my cows fat," says Surani.



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Pak Purwadi, a dairy farmer from Ampel Village in Central Java.



Even though most cows in Surani's village have recovered from the FMD outbreak, milk production is still low. "After 3 months since recovering from FMD, cows using NuFeed are still only producing 6 to 7 litres of milk a day," explains Surani, "But other farmers in the village who don't use NuFeed are only

getting 2 litres a day," states Surani. "I will keep using the concentrate because my cows are slowly recovering," she says.

Surani says she is happy that her increased milk production allows her to feed her cows. "I also want to put money away for my children," says Surani.

Now Surani is advising her neighbours to try NuFeed. "My neighbour Rukimin is now using NuFeed," says Surani with a smile. "I don't want people to think I am big-headed," says Surani, "but when they ask me why my cows look so good, I tell them to get NuFeed from the kiosk."

Dairy sector summary

Sector	: Dairy
Location	: East and Central Java
Strategic aim	: Increasing milk quality and productivity of small scale dairy farmers by adopting good practices in rearing, feeding and health management in East Java and Central Java to reduce poverty and increase food security.

Indonesia has experienced a large milk deficit for many years. Domestic milk production only meets about 20 percent of demand, with significant supply coming from imports. East and Central Java account for almost 67 percent of the local supply, with 115,000 small dairy producers. Nevertheless, milk productivity and quality are suboptimal.




Constraints


The suboptimal performance in the dairy sector in East and Central Java is due to a lack of access to good-quality feed, pharmaceuticals, and veterinary services, as well as suitable dairy breeds for the tropical climate. In addition, farmers have poor knowledge of good dairy farming practices.

Vision

- PRISMA is addressing the market constraints by improving management and business practices at the farm level for feed, animal health, and enabling access to good dairy breeds through policy engagement.
- In addition, PRISMA is working with dairy processing Industries (DPI) to improve milk handling at collection points and expanding distribution networks, so farmers have better access to the DPI.

Impact

 **6,518**
households have benefited

 **122.8 billion**
in income increases

 **10.1**
investment leverage

About PRISMA

PRISMA is a partnership between the Government of Indonesia and the Government of Australia to increase the productivity and income of smallholder farmers. Increased productivity contributes to food security and builds farmer resilience to market and agricultural shocks, including climate change.

PRISMA is supported by the Governments of Australia and Indonesia and implemented by Palladium, with Technical Assistance from Swisscontact, Zurich.

Find out more:

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