

TARIKH	1 DISEMBER 2025 (ISNIN)	SURATKHABAR	BH / UM / NST / TS / HM / KOSMO
TAJUK ARTIKEL	TURNING PINEAPPLE WASTE INTO LIVESTOCK FEED		
M/S	12 (NATION)	KATA KUNCI	FERTILIZERS
BIDANG	AGRICULTURE		

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Turning pineapple waste into livestock feed

Innovation can aid local producers, create export market



Fruits of their labour: LPNM has developed five types of livestock feed pellets, namely for rabbits, goats, fish, chickens and cattle. — Bernama

PONTIAN: The efforts of the Malaysian Pineapple Industry Board (LPNM) to turn pineapple waste into valuable resources resulted in the development of livestock feed pellets, a breakthrough with potential for domestic use and export.

LPNM director-general Mohd Khairuzamri M Salleh said the innovation not only creates new opportunities in the country's downstream industry but could also help reduce reliance on imported products while boosting income for local producers.

Speaking to Bernama, he said a Japanese firm had recently expressed interest in using LPNM's dried pineapple waste, or "pinapeat", as Wagyu cattle feed, and that samples had been sent to Niigata for suitability testing.

Mohd Khairuzamri said the

innovation, made possible under the development and special allocations of the 12th Malaysia Plan (12MP), reflects LPNM's commitment to the three-stage harvesting approach, positioning pineapple cultivation as a new source of wealth in the agricultural sector.

"Under 12MP, we are placing greater focus on producing a variety of downstream products from pineapple waste through collaborative research, and livestock feed is among those with the highest potential.

"This segment indeed uses a significant portion of pineapple waste, which can be processed and formulated into improved forms for storage, logistics and additional uses," he said.

In this regard, Mohd Khairuzamri said LPNM would continue to ensure efforts to

enhance waste utilisation were maintained through the Agronanas Innovation Enhancement and Third Harvest Chain Management projects under the 13th Malaysia Plan.

Meanwhile, LPNM's Product Development and Biotechnology director Elmie Adha Ismail said that so far, five types of livestock feed pellets had been successfully developed in collaboration with Universiti Teknologi Malaysia (UTM), following research conducted since 2021 under 12MP.

He said it covered feed pellets for rabbits, goats, fish, chicken and cattle, with each product made up of at least 50% pineapple waste.

According to him, the high fibre content of pineapple waste is a key advantage in livestock feed production, complemented by

other nutrients, including protein, in the pellet formulations developed with UTM researchers led by Dr Aidee Kamal Khamis.

Elmie Adha explained that the development of the pellets would not have been possible without processing equipment specifically designed to accommodate the unique characteristics of pineapple crops.

Therefore, he said LPNM, through its Product Development and Biotechnology Division, had taken the initiative to carry out research and develop equipment, including extraction and shredding machines, for this purpose.

"One of the main challenges we encountered previously was the ineffective shredding of pineapple waste, as most machines available were designed for other crops such as oil palm and

napier grass.

"Through our research, we have successfully developed a small-scale shredding machine that meets farmers' needs and can be easily installed without the need for large machinery," he said.

He added that the facilities at the Pineapple Waste Processing Centre (PPSN) in Rompin, Pahang, as well as PPSN Alor Bukit in Pekan Nanas, would be upgraded, while research conducted under 12MP would continue into the commercialisation phase.

Elmie Adha said the government, through the Agriculture and Food Security Ministry, was focusing on using agricultural waste, with LPNM tasked with implementing the pineapple waste industry development project, supported by a RM2mil allocation under 12MP.