RICE BRAN OIL Country update – VIETNAM'S EVOLVING EDIBLE OIL INDUSTRY

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THE 7TH INTERNATIONAL CONFERENCE ON RICE BRAN OIL 21st-23rd April 2023, Hyderabad, (India)

Rice bran oil business in Vietnam 2022

Oil market overview, rice bran oil position, growth and promotion



Vietnam – a populous, rice production country



Population:	99.5 millions (2022)
Area:	331,210 km2
Rice cultivation:	7.1 million hectares
GDP (nominal):	USD 409 billions (2022)
GDP growth rate:	8.02% (2022)
	Population: Area: Rice cultivation: GDP (nominal): GDP growth rate:

Paddy cultivation, rice production and rice bran availability



Source: FAO-2020, unit: mil tons

Vietnam: ranked No.5 in world rice production

Paddy production in Vietnam 2022		
Paddy cultivation area	7.1 mil hectare	
Paddy production	42.7 mil tons	
Paddy for rice production	38.7 mil tons	
Rice production	22.6 mil tons	
Rice bran availability	3.7 mil tons	



Rice bran oil: The third largest vegetable oil consumed.



Tetel esslain meil	2018	2019	2020	2021	2022
consumption (mt)	1,043,000	1,199,000	1,178,000	1,013,000	966,000
Palm oil (mt)	770,000	898,100	841,600	722,800	703,000
Soybean oil (mt)	240,000	267,000	291,000	253,000	235,000
Rice bran oil (mt)	11,700	14,300	21,200	20,900	15,000
Sunflower oil (mt)	10,400	12,400	15,900	8,200	5,400
Canola oil (mt)	5,900	3,700	4,600	4,500	4,300
Olive oil (mt)	1,400	1,500	2,000	1,800	1,500
Others (mt)	3,600	2,000	1,700	1,800	1,800
	24.3% Soybean oi 2.	il 90 %	5.3	6.439 5% Olive oil 5.36% Canola	6 Others

Palm oil and soybean oil are dominating the market, accounting for ~ 96% of total consumption volume.

72.27% Palm oil

Rice bran oil is No.1 in the high-end segment

19.29 %

Sunflower oil

Crude rice bran oil production (in metric tons)

Crude rice bran oil production in 2019 - 2022





The rice bran oil industry in Vietnam is growing and expanding, potentially due to increasing demand and improvements in production technology



The production volume of rice bran oil for cooking and food industrial uses saw a significant increase from 2018 to 2020, but decreased in 2021 and 2022, which may be attributed to the impact of COVID-19 on the industry **Featured products in cooking**



Rice bran oil consumption volume (mt)

Rice bran oil promotion activities



TVC AIRING Maximize brand awareness about the amazing nutrient from Rice bran oil via the largest media platform.



PR & DIGITAL

Promote outstanding benefits of gamma oryzanol & RBO for heart health via Social post, KOL sharing, online news, banner ads network...

OOH – LCD/Frame

Increase brand awareness indoor & outdoor

SUPERMARKET BRANDING

Invest in supermarket display & offer the good promotion to increase the trial & consideration of products.

Effort of local manufacturer to promote rice bran oil awareness and achieved high consumption (3rd) after Palm oil and soya bean oil, and as the top choice for a healthy oil.

Rice bran oil manufacturing 2022

Status, characteristics and recent improvements

Rice bran sourcing area and utilization

In Vietnam, the Mekong Delta region has most advantage as potential area for production of rice bran oil.

- The Mekong Delta accounts for 55% of rice bran availability in Vietnam.
- Most concentrated rice milling plants area in the country.

Rice production in the Mekong Delta	12.5 mil MT
Rice bran production	2.0 mil MT
Crude rice bran oil potential	280 KMT
CRBO production in 2022	41 KMT
Current utilization	15%

Rice bran oil production facilities in the Mekong Delta 2022

Facilities	Total capacity (Annum)	Average utilization
Rice bran stabilization plants	~ 1,100,000 ton	26%
Extraction plants	~ 650,000 ton	49%

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Low utilization due to short time crop season and unable to stock up rice bran for oil extraction during off season time.

Rice plant/harvest time in the Mekong Delta

Characteristics of Vietnam rice bran

Average oil content (%) 20% 17% 16% 16%

Low oil content

FFA control

• Small rice mills (90% of rice • Rice millers run at 30% of mills) need stock up time. capacity due to crop •Long transportation time due to poor infrastructures. •Not able to stock up rice

season.

off seasons.

Utilization

bran for operation in peak

Average FFA content (%)

High FFA content

•Over polishing to suit local consumer preference. • Many rice varieties.

Oil content

Production challenges and solution

Improving rice bran oil production utilization and quality.

Short harvest period \rightarrow Low utilization in off-peak season

Bad rice bran quality due to poor logistics system, low parboiled rice availability

Stabilize raw rice bran in collection center to stock up high volume to increase extraction utilization during off-peak season

Set up rice bran collection centers in strategic areas to shorten collection time and improve rice bran quality

Rice bran collection centers location

Rice bran collection center

Local consumer preferred low oil color \rightarrow Chemical refining process required.

Competitive oil yield and manufacturing cost \rightarrow Miscella chemical refining process applied.

Miscella refining plant

Desolventizer plant

Technology improvement - Refining and winterization

Modern refining and winterization technology:

achieve good refining yield

low refined oil color for consumer preference

Fully automated processes:

- reduce manpower cost, variable cost.
- ensure consistent oil quality

